

SIXTH FIVE YEAR PLAN (DRAFT)

1980-85

NIEPA DC:

GENERAL ADMINISTRATION DEPARTMENT (PLANNING)
APRIL—19/81.

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PREFACE

This volume incorporates the State's development programmes for the State's Sixth Five Year Plan. The programmes envisage a total outlay of Rs. 3760 crores which is more than the total of the outlays (Rs. 2833 crores) in the III, IV and Vth Five Year Plans put together. Even allowing for the price rise, this would represent a considerable step up in the tempo of development. It is hoped that this scale of outlay will enable us to make a significant advance towards the fulfilment of the broad objectives spelt out in the Plan, particularly those relating to the uplift of the weaker sections, provision of minimum needs, creation of a sound infrastructure, and generation of employment on an adequate scale.

A new feature of this Plan is the outlay of Rs. 200 crores proposed for decentralized planning through District Planning Boards. This has already evoked a tremendous response from all districts. We hope that this exercise in decentralized planning will generate widespread local participation in the formulation of projects and public contributions in the financing of local schemes.

In the ultimate analysis, the success of each Plan depends on the zeal and enthusiasm with which its projects are implemented and the degree of people's participation. We hope that this Plan will enjoy the fullest cooperation and support from all sections of the people in the State.

Sachivalaya, Gandhinagar. 2nd April, 1981.

H. K. L. Capoor Chief Secretary to Government

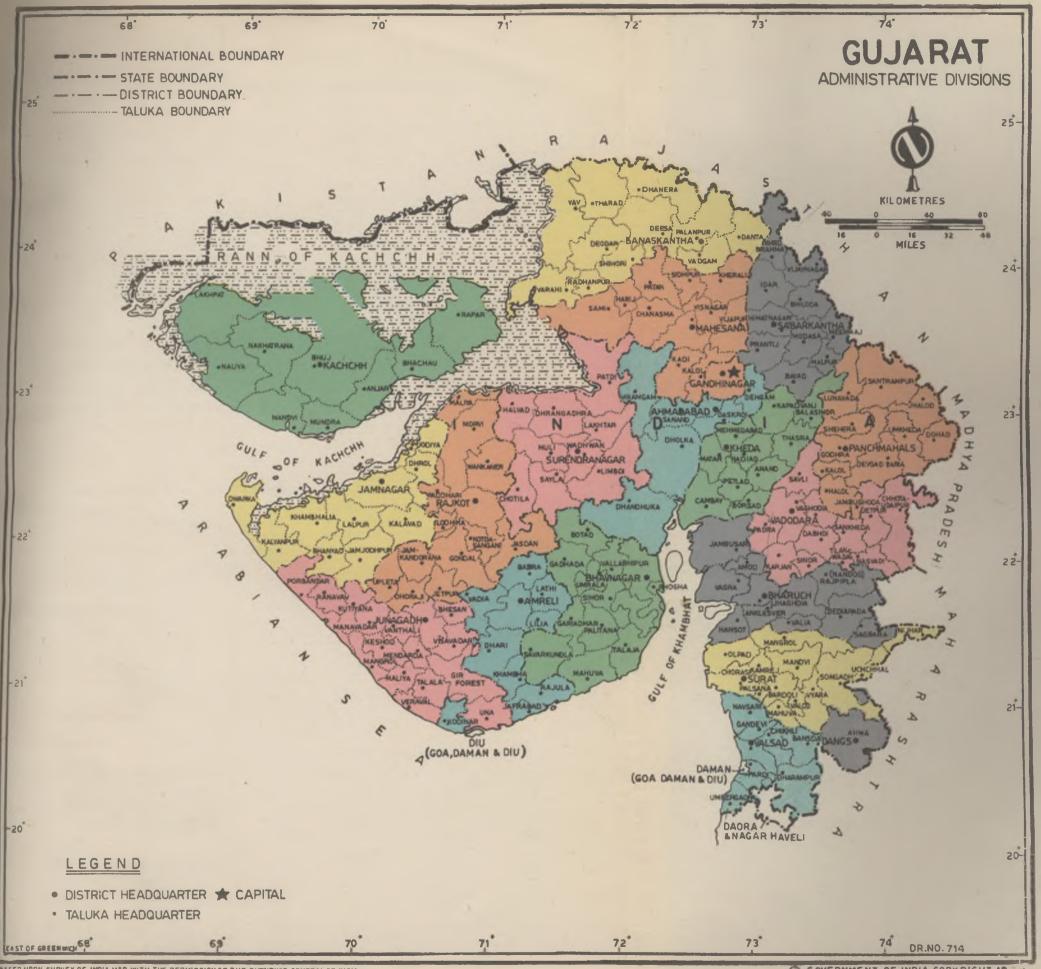
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"Planning is a continuous movement towards desired goals and because of this, all major decisions have to be made by agencies informed of these goals and the social purpose behind them. Even in considering a five-year period, forward and long-term planning has always to be kept in view. Indeed, perspective planning is of the essence of the planning process. As this process develops, there is a certain rhythm of expansion in the development of the people, and a sense of enterprise and achievement comes to them. They are conscious of a purpose in life and have a feeling of being participants in the making of history. Ultimately it is the development of the human being and the human personality that counts. Although planning involves material investment, even more important is the investment in man".

-JAWAHARLAL NEHRU



CHAPTER-I

PROGRESS UNDER PLANS—AN OVERVIEW

- 1.1.1. Two decades of development since Gujarat State came into being on 1st May 1960 provides a changing Scenario for the next two decades of development. The economy of Gujarat was labouring under a number of strious constrains and bot lenecks when the new State was ushered in. Since then, progress has been registered in many sectors of the economy reducing the rigours and ferocity of some of the bottlenecks. In this chapter we propose to outline the profile of development emerging from the last two decades as will provide an intelligible background for the objective and strategy of the Sixth Plan.
- 1.1.2. The Third Five Year Plan 1931-66 was the first determined effort to initiate development in different regions of the State in a systematic manner. The State Plan expenditure for the period 1961-80 aggregates to Rs. 2833 crores as under:—

(Rs. in crores)

| (1) | Third Plan (1961-66) | 240 |
|-----|------------------------------|------|
| (2) | Three Annual Plans (1966-69) | 211 |
| (3) | Fourth Plan (1969-74) | 545 |
| (4) | Fifth Plan (1974-78) | 1005 |
| (5) | Annual Plans (1978-80) | 832 |

- 1.1.3. Thus, expenditure incurred during the period 1961-80 on the implementation of projects and programmes included in the State Plan was Rs. 2833 crores. Bulk of this has been provided from the State's own budgetary resources. The share of central assistance was around Rs. 600 crores. The State Government's record in the matter of additional resources mobilisation has been uniformly good.
- 1.1.4. The State has made remarkable progress in several sectors of its economy since 1960-61. The progress achieved so far when viewed against the background of slender base of the economy at the commencement of the planning is remarkable. The production base has been strengthened, infrastructure facilities have been considerably expanded and the coverage of social services and amenities has been widened within the limit of available resources. The level of achievement reached in selected spheres of development is dealt with in subsequent paragraphs.

1.2. State Income

1.2.1. The growth rate of 3.3% per annuam was achieved during the Third Plan. The performance of the economy during the Fourth Plan was better with a growth rate of 5%. The following table shows the rate of grwoth of the State domestic product together with sectoral and per capita growth rates as per revised series (at 1970-71 prices.).

| Plan Period | | | Percentag | ge Annual Gr | owth Rate | |
|-------------|---|---------|-----------|--------------|-----------|-------------------------|
| | | Primary | Secondary | Tertiary | Total | Per Capita Income |
| | 1 | 2 | 3 | 4 | 5 | 6 • |
| 1. | Third Plan (1961-62 to 1965-66) | 1.7 | 4.9 | 4.0 | 3.3 | 0.7 |
| 2. | Three Annual Plans (1966-67 to 1968-69) | 0.2 | 2.1 | 2.3 | 1.5 | (—)1.1 |
| 3. | Fourth Plan (1969-70 to 1973-74) | 5.6 | 5.2 | 4.8 | 5.0 | 2.5 |
| 4. | Fifth Plan (1974-75 to 1977-78) | 2.7 | 5.3 | 5.7 | 4.4 | 1.8 |
| 5. | 1978-79 and 1979-89 | 1.0 | 0.6 | 5.6 | 2.6 | 0.5 |

1.3. Demographic Features

13.1. The population of the State according to 1961 census was 206 lakhs which rose to 267 lakhs in 1971 and 340 lakhs in 1981. The trends in the growth of population are indicated in the following table:

| Census | Population | Percenta | Donsity [Popula- | | |
|-----------|--------------|----------|---------------------|-----------------------|--|
| year | (In lakhs) | Decadal | Over 1901 | tion per sq. kms.] | |
| 1 | 2 | 3 | 4 | 5 | |
| 1901 | 91 | | | 46 | |
| 1911 | 98 | 7.8 | 7.8 | 50 | |
| 1921 | 102 | 3.8 | 11.9 | 52 | |
| 1931 | 115 | 12.9 | 26.3 | 59 | |
| 1941 | 137 | 19.3 | 50.7 | 70 | |
| 1951 | 163 | 18.7 | 78.8 | 83 | |
| 1961 | 206 | 26.9 | 126.9 | 105 | |
| 1971 | 267 | 29.4 | 193.6 | 136 | |
| 1981 (pre | visional)340 | 27.2 | 273.6 | 173 | |

1.3.2. The decennial population growth of 27.2% in 1971-81 of the State has been higher than the All-India average of 24.75%. However, there has been a definite downward trend in the growth of population as compared to the population growth in 1961-71 decade.

13.3. The birth rate which was 45.7 per thousand population during 1951-60 has declined to 35.8 in 1978 whereas death rate has also gone down from 23.5 in 1951-60 to 12.7 in 1978. The estimates based on sample registration system are as under:

| Sr. No. | Year | Live birth rate | Death rate |
|------------|----------|-----------------------|---------------|
| 1 | 2 | 3 | 4 |
| 1 | 1951-60 | 45.7 | 23.5 |
| 2 | 1970 | 41.2 | 18.1 |
| 3 | 1971 | 41.0 | 17.1 |
| 4 | 1972 | 40.4 | 15.9 |
| 5 | 1973 | 35.3 | 15.9 |
| 6 | 1974 | 38.4 | 13.0 |
| 7 | 1975 | 37.2 | 15.9 |
| 8 | 1976 (P) | 36.9 | 15.6 |
| 9 | 1977 (P) | 35.9 | 15.4 |
| 10 | 1978 (P) | 35.8 | 12.7 |
| | | | |

1.3.4. The level of infant mortality during 1975 was 154 infant deaths per 1000 live births. This is higher than All-India average of 139.

1.3.5. The expectation of life for males and females in Gujarat State was 40.8 and 39.2 respectively in 1960. This has recorded an increase and by 1978 expection of life for males and females has been 52.1 and 51.8 respectively.

1.4. Sectoral Profiles

Agriculture:

1.4.1. The agricultural production in the State has shown an impressive increase as can be seen from the following table which indicates annual average production of different crops.

| Period * | Foodgrain (in lakh tonnes) | Oilseeds (in lakh tonnes) | Cotton (in lakh bales of 170 kgs. each.) |
|----------|----------------------------------|---------------------------------|--|
| 1 | 2 | 3 | 4 |
| 1951–56 | 18.75 | 4.40 | 8.83 |
| 1956-61 | 20.28 | 11.07 | 11.17 |
| 1961–66 | 25.79 | 13.58 | 15.23 |
| 1966-69 | 28.11 | 11.31 | 15.4 8 |
| 1969-74 | 37.19 | 13.87 | 20.18 |
| 197478 | 35.82 | 18.03 | 17.69 |
| 1978-80 | 42.46 | 20.16 | 19.43 |

1.4.2. The compound rate of growth for the period 1960-61 to 1978-79 for the production of foodgrains, oilseeds and cotton has been 3.30, 1.90 and 1.00 respectively

1.4.3. Higher production has largely been attributed to increase in productivity. The average yields of different crops during Plan periods are reflected in the table below:

(Kg. per hectare).

| Period | Total food- | Total oilseeds | Cotton | Tobacco |
|---------|----------------|-------------------|--------|-------------------|
| 1 | grains. 2 | 3 | 4 | 5 |
| 1951–56 | 336 | 362 | 109 | 683 |
| 1956-61 | 407 | 5 86 | 108 | 691 |
| 1961-66 | 538 | 581 | 147 | 965 |
| 1966-69 | $\bf 542$ | 524 | 156 | 1026 |
| 1969-74 | 714 | 675 | 174 | 1284 |
| 1974-78 | 763 | 831 | 165 | $158\overline{2}$ |
| 1978–80 | 94 6 | 858 | 190 | $179\overline{2}$ |

1.4.4. Increases in the yield of major crops have been due to number of factors such as improvements in agricultural practices, use of fertilizers, pesticides, better seeds as well as expansion of irrigation facilities etc.

Irrigation

1.4.5. Before the commencement of planning very little had been done to exploit the irrigation

potential of the State. The minor irrigation potential which was only 3.97 lakh hectares in 1950-51 had increased to 7.24 lakh hectares in 1960-61. This has now gone up to around 17.32 lakh hectares in 1979-80. In case of major and medium irrigation, potential of 2.48 lakh hectares was created by 1960-61 which has now risen to over 10 lakh hectares. Progress achieved since 1950-51 till 1979-80 is summarised in the following table:—

(In lakh hectares).

| | 195 | 051 | 196 | 061 | 197 | 3—74 | 197 | 7—78 | 197 | 980 |
|----------------------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| | Poten- tial | Utili- sation |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Major and Medium crigation | | | 2.48 | 0.66 | 6.22 | 4.01 | 9.24 | 5.01 | 10.12 | 5.29 |
| Minor Irrigation | 3.97 | 3.97 | 7.24 | 6.79 | 15.40 | 13.00 | 16.59 | 14.27 | 17.34 | 14.67 |

Power.

1.4.6. In 1961 electricity was available in a few pockets of the State mostly in urban and semiurban areas. Even by 1960-61, the generating capacity in the State was only of the order of 315 MW which has since increased to 2384 MW in 1979-80. The number of village areas electrified which was 823 in 1960-61 has increased to 10867 in 1979-80. The following table shows the level reached at the end of 1979-80.

| | Installed capacity (MW) | Villages electrified (No) | Pumpsets energised (No) |
|---------|-------------------------|---------------------------------|-------------------------------|
| 1960—61 | 315 | 823 | 5401 |
| 1973—74 | 1127 | 5680 | 101983 |
| 1977—78 | 1907 | 8121 | 156028 |
| 1979—80 | 2384 | 10867 | 202853 |

Industry.

1.4.7. Till 1960, industrial economy of Gujarat rested primarily on the textile industry and textile ancillaries came into existence. But these had

only a marginal impact on the economy of the State. But with the discovery of oil and gas, the setting up of a refinery, fertilizer factories and petrochemical complex the economic horizon has widemed considerably the scope for a wide spectrum of industries in the State. Along with this, salt production and mineral exploration received added impettus.

1.4.8. On 31st December, 1960 there were 3647 working factories providing employment to 3.30 lakh persons. The number of these factories and the number of persons employed therein rose to 6939 and 5.01 lakhs respectively by the end of 1973 and to 9892 and 5.89 lakhs respectively at the end of 1978. The productive capital in the registered fiactories sector in1961 was Rs. 245.79 crores and goods worth Rs. 420.23 crores were produced. The corresponding figures for 1976-77 were Rs. 1969.99 and 3531.43 crores. The net value added was Rs. 121.33 crores at the end of 1961. This rose to Rs. 687.49 crores at the end of 1976-77. This represents nearly six fold increase in the net value added in a span of sixteen years. Thus, Gujarat has occupied the second place in the country next only to Maharashtra.

1.4.9. Correspondingly there was also momentum in the registration of small scale industry units in the un-organised sector. The total number off small scale untis registered with Industries Department in 1961 was 2169. This increased to 18093 in 1971 and over 41,000 by the end of June, 1980.

Road Development

1.4.10. In 1950-51 road length was 13154 kms. i. e. only 7 kms. per hundred sq. kms. This was 12 km. per hundred sq. kms. in 1960-61, 20 km. in 1973-74 and 23 km. in 1978-79.

The following table shows the increase in the surfaced and unsurfaced road length from 1950-51 to 1979-80.

| | • | | | (I) | ı Kms.) |
|----------|---------|--|----------|------------|---------|
| Sr No | | | Surfaced | Unsurfaced | Total |
| 1 | 2 | | 3 | 4 | 5 |
| 1 | 1950—51 | | 6,621 | 6,533 | 13,154 |
| 2 | 196061 | | 11,930 | 10,699 | 22,629 |
| 3 | 197374 | | 21,632 | 17,349 | 38,981 |
| 4 | 1977—78 | | 26,252 | 16,107 | 42,359 |
| 5 | 1978—79 | | 27,519 | 15,737 | 43,256 |
| 6 | 1979—80 | | 29,895 | 15,213 | 45,108 |

Road Transport

1.4.11. Nationalisation of the passenger road transport services has been completed since 1969-70. The passenger traffic on roads in Gujarat State has been increasing at the compound rate of 13% as against 10% in the country as a whole. The Gujarat State Road Transport Corporation provides direct services to 89.7% of the towns and villages covering 94.8% of the State's population. All villages with population above 1000 excluding those not connected by a motorable road, have been provided with direct services.

Education

1.4.12. The educational facilities in the State at the primary, secondary and collegiate levels as also in the fields of technical education have witnessed a tremendous expansion over the last 28 years of planned development. The number of primary schools which was 11189 at the beginning of the First Plan has increased to 23,000 by the end of 1978-79. The number of secondary schools have registered an increase from 333 in 1950-51 to 2907 in 1978-79. The number of colleges also increased at a fast pace from 101 in 1960-61 to 370 in 1978-79. 5 Universities have also been set up by the end of the Fourth Plan period for imparting higher education in the State. There were three institutions for degree courses and 6 institutio s for diploma courses in engineering in 1950-51. These have gone upto 7 and

19 respectively by the end of Fifth Plan. The industrial training institutes were not in existence during the First Plan period. By the end of the year 1979-80, 22 ITIs have been established with an intake capacity of 8040. The intake capacity in 7 engineering colleges and 19 diploma courses institutions has risen to 1885 and 3705 respectively.

Health

- 1.4.13. The rural health services are provided threigh the net work of 251 primary health centres and 2500 sub-centres.
- 1.4.14. The number of allopathic doctors registered with the Gujarat Medical Council as on 31st December, 1971 was 7002 which increased to 13259 in 1979. The doctor: population ratio which was 1:3800 in 1971 has been 1:2414 in 1979.

Scheduled Castes and Tribes

1.4.15. A variety of measures have been taken for the upliftment of the scheduled castes and tribes. The State Government has set up a Scheduled Tribes Development Corporation, Scheduled Castes Econmic Development Corporation and also Gujarat Backward Class Board to promote their economic upliftment. The Tribal Area Sub-Plan is being implemented systematically since 1976-77, while steps have also been taken to prepare a separate Component Plan for the Scheduled Castes in the State. Large supplementary provisions are made for them in the Plan. Substantial funds have already been spent on extending concessions to them in the sphere of education. The number of students benefitted by Pre-SSC scholarships in 1969-61 w.s 10038. This had gon up to 41116 in 1979-80. Likewise, the number of students benefitted by post-SSC scholarships which was 1963 in 1930-61, has increased upto 27081 in 1979-80. Specific Programmes for the development of socially, economically and educationally backward classes have also been initiated.

1.5. Problems and Lags

- 1.5.1 Despite an impressive record of progress in different sectors of the State economy a number of lags and bottlenecks continue to persist. A brief review of these lagas and bottlenecks has been attempted in the following paragraphs.
- 1.5.2 The problems of poverty and un-employment continue to pose serious challenges. Gains arising from agricultural development have not percolated in any large measures to the small and mraginal farmers and the landless agricultural labourers. In view of the very limited potential of assured irrigation, agriculture in the State is still prone to the vagaries of the monsoon. Much remain to be done in the field of animal husbandry, dairying and fisheries which can provide subsidiary occupations

and augment rural incomes. The pace of diversification and dispersal of industries into the non-urban areas and backward regions of the State has not gathered the desired momentum. The production as well as employment potential of the labour intensive sector of village and cottage industries has not yet been tapped adequately. In regard to the development of the infrastucture apart from the low proporton of the area under irrigation considerable leeway is yet to be made in road development and rural electrification. In the sphere of social services, notwithstanding the impressive performance in school enrolment, the rate of drop-outs at the primary stage continues to be high. Enrolment of girls and tribal children is also lagging behind. There is also need to step up the effort to promote adult literacy and achieve substantial vocationalisation of education in the State. The spread of medical and health facilities in rural areas is uneven and very inadequate in the remote rural areas and in tribal region. More than 5000 villages in the State still do not have safe dependable sources of drinking The problem is becoming more actute in view of growing salinity and pollution in certain areas. The problems of the urban areas of the State too have grown in magnitude and complexity. The influx of population from the rural areas has caused a tremendous pressure on urban housing, water supply and sanitation systems and other civil services.

1.5.3. The magnitude of the problems facing the State and serious lags in the crucial fields of development are broadly indicated in the subsequent paragraphs.

Poverty

- 1.5.4. It has been estimated that about 44.64 percent of the Rural Population and 50.09 percent of the urban population was living below the desirable minimum level in the year 1979-80. Thus, out of the total estimated rural population of 220 lakhs in 1979-80, a population as large as 98 lakhs was living below the poverty line. Likewise, out of the estimated urban population of 94.50 lakhs, the majority, i.e. 47.33 lakhs was living below the poverty line.
- 1.5.5. According to an earlier study conducted by the State Bureau of Economics and Statistics, there are substantial variations within the State. The incidence of poverty is highest (75.75%) in the eastern hilly areas and lowest (32.11%) in the Saurashtra region. The percentage of population living below the poverty line to the total population in each of the sub-regions of the State is as under:

| Eastern Hilly Areas | | 75.75% |
|------------------------|-----|--------|
| South Gujarat Plains | | 63.52% |
| Middle Gujarat Plains | • • | 40.75% |
| Dry Areas in the North | • • | 53.06% |
| Saurashtra Region | • • | 32.11% |
| H26832 | | - |

Unemployment

- 1.5.6. The total number of the unemployed and the under employed as on 1st April, 1980 based on the projections of data (27th Round) of the National Sample Survey was as follows:
 - (a) Unemployment in 1980—1.77 lakhs
 - (b) Underemployment in 1980-7.90 lakhs
- 1.5.7. Considering that employment of about 120 days of work would be necessary to provide full employment to the under employed (7.90 lakhs) it is estimated that 3.47 lakh person years of employment will be needed. This indicates that the backlog of requirement of person years of employment for unemployed and under employed at the beginning of Sixth Plan 1980-85 would be about 5.24 lakh person years. This requirement will work out to be around 15.72 lakh person years for the plan period 1980-85.
- 1.5.8. The estimated total increase of the new entrants during the Sixth Plan 1980-85 is likely to be of the order of 12.74 lakhs indicating an annual increase of 2.55 lakhs during the Sixth Plan period. Thus, the total requirement of person years of employment comes to about 5.4 million (15.72 lakh person years for new entrants).
- 1.5.9. The situation in respect of educated unemployed, especially matriculates is likely to worsen. The number of job seekers on the live register of employment exchanges has gone up from 2.42 lakhs in 1973 to 4.27 lakhs by the end of December, 1979 indicating an average annual increase of 12.74 percent. Placements, in contrast shows a declining trend. Only 24,793 persons were placed in jobs in 1973 and 20,665 in 1979, by Employment Exchanges-the-placements constituted only 9.76% and 8.83% of registrants in respective years.
- 1.5.10. The number of job seekers especially of the category of the S.S.C./ matriculates has gone up from 81,419 to 1,84,934 indicating an increase of 127.14% which would work out to an average annual increase of 21.19%. Similarly, job seeking graduates in arts, commerce and science on the live registers of employment exchanges increased from 20,364 in 1973 to 34,488 in 1979 showing an average annual increase of 11.56%. Placements through employment exchanges for both these categories was around 10% of registrants.

Population Growth

1.5.11. The rate of growth of population in Gujarat has been one of the highest in the Country. The decennial growth rate for the period 1971-81 was 27.21 per cent as against 24.75 per cent for the entire Country.

Scheduled Castes and Scheduled Tribes Population

1.5.12. The population of scheduled castes and scheduled tribes is around 21 per cent of the total population of the State. The scheduled account for 6.84 per cent and the scheduled tribes 13.99 percent of the population. Ahmedabad and Surendranagar districts have relatively high percentage of scheduled castes viz. 11.9 and 10.4 percent respectively. The other districts which are above the State average are Amreli, Junagadh, Kachchh, Banaskantha and Mahesana. The tribal poplation is concentrated along the eastern hilly belt. The districts of Dangs, Valsad, Surat, Bharuch, Panchmahals and Vadodara together account for over 90 percent of the total scheduled tribes population of the State. Thus while the Southern districts of the State account for large share of the scheduled tribes population, the districts in the North Gujarat and Saurashtra have over 70 per cent of the scheduled castes population of the State. Special Component Plan for scheduled castes is being prepared for accelerating the pace of development of these classes. Another 21 per cent of the population constitutes socially, economically and educationally backward classes.

Agricultural Labourers

1.5.13. According to the 1971 census the State has nearly 18.88 lakh agricultural labourers, representing 22.49% of the total number of workers in the State. There is concentration of agricultural labourers in some of the districts of the State. Bharuch district having the highest percentage 47.4% and Panchmahals district with only 7.8%. The southern districts of Vadodara, Bharuch, Surat, and Valsad between them have about 40% of the total strength of agricultural labourers. About 48 percent of the agricultural labourers belong to the scheduled castes and scheduled tribes.

Forests

1.5.14. Forests form only about 10 percent of against the the total land area of the State as 24average of about The productive forests area is even less than 50 percent. There is also considerable imbalance in the distribution of forests in the State. Practically the whole of the Dangs district (around 95% of the area) is under forests. Surat, Valsad, Bharuch and Panchmahals Districts each have around 1/4th of land area under forests, while the remaining districts are very deficient in their forest cover.

Tribal Areas

1.5.15. The tribal area is situated in the eastern hilly belt of the State spread over 8 districts viz. Sabarkantha, Panchmahals, Vadodara, Bharuch, Surat

Valsad, Dangs, and Banaskantha. The Tribal Area Sub-Plan of the State covers 32 talukas having a majority of tribal people. In addition 15 pockets of tribal concentration are also included in the Sub-Plan. The total area covered under the Sub-Plan is 27,189 sq. kms. constituting 13.87 percent of the total area of the State. The tribal population of the sub-plan area is 30 lakhs which is 68.18 percent of the total population of the sub-plan area and 81 per cent of the total tribal population of the State. A systematic beginning for the development of these areas has started since 1976-77 with the implementation of the Tribal Area Sub-Plan. Stupendous efforts will be necessary to bring this area on par with the adjoining areas and to raise the living-standards of the people residing therein above the poverty line.

Arid and Desert Areas

1.5.16. Large areas of the State fall within the arid or semi arid zones. According to the Irrigation Commission, 58 talukas of the State covering 35% of the total area and 24% of the State's population are drought prone. 13% of the total drought prone area of the Country lies in Gujarat. Recurrent droughts in large parts of the State have been one of the most distressing features of the State's economy. Apart from the loss of production and the depletion of cattle wealth, the impact of drought is shattering on the agricultural economy. Acute shortage of drinking water and fodder further aggravates the problem. The financial resources of the State are put to severe strains on account of the large scale relief measures, which have to be undertaken.

1.5.17. The State will have to continue to take concerted measures for restoring the ecological balance with the ultimate objective of reducing the severity of droughts through appropriate investments and technology. The problem of development of the desert areas in Kachchh and Banaskantha possess an even greater challenge and calls for substantially large magnitude of investment.

Border Areas

1.5.18. Gujarat like Rajasthan and Punjab is a border State and as such the proper development of the border area is of crucial importance in the interest of national security. Most of the border areas have the characteristics of the arid and desert areas and suffer from poor soil fertility and scarcity of water resources. If the economic base of these areas is to be strengthened and migration trends are to be controlled, larger investments would have to be made to enable the diversification of the productive activity in these areas at a rapid pace.

Coastal Areas

1.5.19. The State has the longest coastline in the country, about 1600 kms. which is about 1/3rd of the entire coastline of the country. The low lying areas along the coastline are inundated by seawaters. This adversely affects agricultural development in the areas. The process of reclamation of khar lands for cultivation is slow and costly. In addition, the over drawal of ground water resources for irrigation along certain parts of the coastal areas particularly in Junagadh and Amreli districts has caused the problem of salinity ingress which is assuming serious proportions. The problem of drinking water is also acute in this and some other parts of the coastal areas. While these are the typical problems of the coastal areas, there are prospects of development in several directions.

Irrigation

1.5.20. Only around 16 percent of the culturable area is under irrigation as against 23% for the entire country. Of the total irrigated area around 73% is irrigated by surface wells, 16% by canals, 7% by tubewells, 3% by tanks and 1% by other sources.

1.5.21. With the progress of irrigated agriculture in the State the problem of water logging has begun to assume importane. Silting up of reservoirs has also become acute especially in the last few years after the unprecedented floods in the Gujarat and Saurashtra regions. The resultant loss to effective capacity of reservoirs is causing concern to the State. Ground water extraction in several-areas has been so intense that the draft has far exceeded recharge and consequently the water table has been going down steadily at several places.

Power Development

1.5.22. Power planning in Gujarat is becoming increasingly complex. The peak demand for power at the end of 1984-85 is expected to be of the order of 3186 M. W. and to meet this demand an installed generating capacity of 4822 M. W. will be required. The net installed capacity at the end of 1979-80 is of 2300 M.W. Therefore to meet the energy needs in 1984-85, the generation capacity will have to be increased to 4822 M.W. The critical problem in Gujarat is that barring 300 M.W. of hydel power capacity i. e. Ukai 4x75 M.W. the rest of the generating capacity is thermal based. Under the Narmada Tribunal's Award, the State's share of power generation is only 16%.

15.23. Gujarat is situated far away from the coal fields and has to pay heavily as freight. Besides, the supply of coal is both inadequate and irregular due to the problems of transportation. The possible alternatives would be setting up of a coal pit head power station, coal slury pipe line and transport by sea.

1.5.24. The generation centres are located in the south and eastern parts of the State and the evacuation of power from these centres over long-distances to Saurashtra and Kachehh results in heavy line losses. These problems will continue to plague the development scene in Gujarat till Gujarat's case for atomic and gas based power plants in Saurashtra area materialises.

1.5.25. In the sphere of rural electrification the State has achieved about 60 percent coverge by the end of 1979-80. However, there is considerable variation in the pace of electrification of villages in the different regions of the State. In the 32 talukas covered under the tribal sub-plan, the overall percentage of rural electrification is only 37%. Likewise, only about 39% of the villages are electrified in 41 talukas covered under the drought-prone area programme. It is proposed to achieve 100% village electrification in the State by the end of 1984-85.

Roads

1.5.26. Gujarat lags far behind several other States of the country in road development. According to the latest available statistics of 1978-79 Gujarat State ranks eighteenth among the States in the Country with 23 kms. of road length per hundred sq. kms. as against the All India average of 39 sq. kms. In terms of road length per one lakh of population, Gujarat occupies 20th of persistent in India. Inspite efforts the has not been able to come on par with other States due to initial backlog. In 1947 the road length per hundred sq. kms. was only 4 kms. against the All India average of 12 kms. At the end of the Nagpur Plan period in 1961, Gujarat had a deficit of 42 percent in terms of road length while the Country as a whole had exceeded the plan target by 36 percent. Similarly as against the target set for 20 Year Road Plan (1961-81), the State has a shortfall of 22 per cent in 1979-80 while several other States have already fulfilled the targets or are about to do so.

1.5.27. In regard to rural roads the position is not at all satisfactory. Fifty per cent of the rural roads are merely earthen roads. Out of the total of 18,275 villages, only 7412 villages (41 percent) are linked by pucca roads upto the end of 1979-80. The development of road net work in the command areas of irrigation projects, the tribal and in the hinterlands of ports will also demand immediate attention.

Education

1.5.28. While according to the census of 1971, Gujarat occupies the fourth place among the States of the Country in terms of the literacy percentage, it is a matter of concern to the State that the absolute rate of growth of literacy has been only 17%

as compared to 31% in Maharashtra, 25.51% in Tamil Nadu and 24.87% in Punjab. Of the 19 districts in the State, 10 districts had a literacy rate lower than the State average of 35.8%. There were seven talukas where the percentage of literacy was less than 10.

Water Supply

1.5.29. Out of 18275 inhabited villages in the State as many as 9600 villages have been identified as 'No Source' villages on the basis of investigations made so far. Even at the end of 1979-80, over 5086 villages remained to be provided with drinking water facilities. The problem has now become more and more acute in view of growing salinity and pollution in certain areas.

Urban Development

1.5.30. Gujarat has a higher degree of urbanisation with 28% of the total population living in the urban areas. The State has 216 towns with a population of neraly 75 lakhs. Seven more towns account for 45.1% of the urban population while 18 medium sized towns in the population range of 50,000 to 1 lakh account for another 15.7%. 42 towns with a

population of above 20,000 and below 50,000 have a share of 27.7% of the urban population. The serious pressures on urban land resources and strains on civil amenities such as water supply and drainage and social and recreational services have been causing great concern to the State. The situation of the smaller urban units with a very limited resource base is really precarious. Large investments are inescapable to upgrade civil amenities in the towns and to regulate peripheral development outside the cities and towns of the State and to provide a viable urban infrastructure.

1.6. New Horizons of Development

1.6.1. In the backdrop provided by the magnitude of the unfinished task of providing basic minimum needs to millions of families subsisting below poverty line and the complexity of the problem arising from gross inequalities of income and wealth, there is a need to spell out a clear strategy for making a frontal attack on the problems of poverty and unemployment. The strategy and objectives underlying the Sixth Plan are outlined in the next chapter.

"Development goals should not aim at proliferation of consumer goods or services which benefit only a certain section, but must be defined in terms of progressive reduction and eventual elimination of squalor and inequality, of malnutrition, disease, of illiteracy and unemployment. We must think in terms of minimum goods and services which are to be provided to the common man in order to eliminate the worst manifestations of poverty."

—SMT. INDIRA GANDHI

* Extract from the inaugural address delivered by Prime Minister Smt. Indira Gandhi on 25th. March, 1972 in New Delhi at the 45th annual session of the Federation of Indian Chamber of Commerce and Industry.

CHAPTER-II

THE APPROACH AND STRATEGY.

2.1. Objectives:

- 2.1.1. The following objectives for the Sixth Five Year Plan have been laid down by the National Development Council:
 - (i) a significant step, up in the rate of growth of the economy, the promotion of efficiency in the use of resources and improved productivity;
 - (ii) strengthening the impulses of modernisation for the achievement of economic and technological self-reliance;
 - (iii) a progressive reduction in the incidence of poverty and unemployment;
 - (iv) a speedy development of indigenous sources of energy with proper emphasis on conservation and efficiency in energy use;
 - (v) improving the quality of life of the people in general with special reference to the economically and socially handicapped population, through a minimum needs programme whose coverage is so designed as to ensure that all parts of the country attain within a prescribed period nationally accepted standards:
 - (vi) strengthening the redistributive bias of public policies and services in favour of the poor contributing to a reduction in inequalities of income and wealth;
 - (vii) a progressive reduction in regional inequalities in the pace of development and in the diffusion of technological benefits;
 - (viii) promoting policies for controlling the growth of population through voluntary acceptance of the small family norm;
 - (ix) bringing about harmony between the short and the long term goals of development by promoting the protection and improvement of ecological and environmental assets, and
 - (x) promoting the active involvement of all sections of people in the process of development through appropriate education, communication and institutional strategies.
 - 2.1.2. During the last twenty years of its existence, Gujarat has made tremendous advances in several sectors of development, specially industry and the development of infrastructure. However, a large percentage, 46 % of the State's population still lives below the poverty line. The poorest sections of the population in the State belong to the landless labourers, small and marginal farmers, rural artisans, c Sheduled Castes

and Scheduled Tribes and socially and economically backward classes. The Sixth Five Year Plan aims to treat the household as the basic unit and launch a household-oriented programme for eradication of poverty. It is the objective of the programme to assist each household below the poverty line, through an appropriate package of technologies, services and assest transfer programmes.

2.1.3. The following will be the main target groups for the programme for the removal of poverty:

in lakhs.

| (1) | Scheduled tribes | 3 7.00 |
|-----|--|---------------|
| (2) | Scheduled castes | 18.32 |
| (3) | Socially and economically backward classes (Baxi Commission) | 50.00 |
| (4) | Minorities | 28.00 |
| (5) | Families of artisans engaged in household industries | 5.00 |
| (6) | Agricultural labour of which | |

50 % are from scheduled casts/

18.88

scheduled tribes.

2.1.4. Removal of poverty through accelerated rural development calls for operationally intergrated strategy which will aim on one hand at increasing production and productivity in agriculture and allied sectors based on better use of irrigation and improved technoloby and on the other at resource and income development of vulnerable sections of the population in all the blocks of the country. Experience has shown that un-coordinated efforts by a multiplicity of agencies do not lead to the desired results. The time has come to reduce the number of independently managed projects at the district and block levels and forge a multi-disciplinary apparatus at the local level as will function effectively and efficiently. In Gujarat State the District Planning Boards have been assigned a crucial role in ensuring effective coordination and integration of the ongoing programmes at the district level.

[2.2. Promoting Opportunities for gainful Fmployment.

2.2.1. The most challenging task facing the State today is the generation of adequate opportunities for gainful employment for all sections of the population. Inadequate purchasing power rather than non-availability of food in the market has become a major cause of under-nutrition and malnutrition. Therefore, the ability to provide opportunities for the optimum development of the physical and mental potential of children will depend upon the extent to which poverty is reduced. The major aim of both of our developmental and social security strategies should hence be the enhancement of the purchasing power of the rural and urbar poor.

- 2.2.2. A large segment of the unorganised rural poor still need special attention. For this purpose, the rural population could be classified into the following three major functional groups:—
- (a) these engaged in agricultural occupations, including crop and animal husbandry, fisheries and forestry;
 - (b) rural artisans of various kinds; and
 - (c) landless labourers.

The special needs and potential of each of these major occupational groups will be met through appropriate programmes.

(a) Small and Marginal Farmers.

A majority of farmers cultivate holdings less than one hectare in size. Such marginal farmers need more area-specific and vocation-specific services than subsidies. The intensive development of blocks under the integrated rural development programme is one such special programme. Another scheme is the assistance to small and marginal farmers through production oriented schemes leading to self-employment/self-support in certain time frame. Since this programm; is also family oriented, it envisages to bring the targetted families above the poverty line within a specific span of time. The Planning Commission has extended the coverage and contents of this on-going programme to the remaining blocks of the country from 2nd October, 1980. The farmers cultivating holdings less than one hectare in perennially irrigated areas and less than two hectares in unirrigated areas would be covered under this programme whereas in the drought prone and desert areas, the farmers having three hectares of dry land and one and half hectares of irrigated land would be covered. Among the other projects which are proposed to be introduced for assisting farmers and fishermen are:

- (i) Dry-land farming programme in all drought prone and arid and semi-arid areas. This will include provisions for community water harvesting and water shed management, scientific land use planning and contingency production plans to suit different weather conditions;
- (ii) Projects for promoting dairy, poultry, sheep, goat;
- (iii) Intensive Forestry Davelopment Programme and;
- (iv) Inland and coastal acquaculture programme for promoting inland fish culture and integrated sea farming based on a blend of culture and capture fisheries.
- (b) Rural Artisans: Promotion of village and small industries has been and will continue to be an important element in employment generation strategy. The Village and small

- industries sector with its low capital-output ratio and high employment potential will, therefore, play a dominant role in improving the income of rural poor Programme designed to subserve the following objectives will be introduced through an effective functional intergration of numerous, small ongoing projects and programmes.
 - (i) Creation of employment opportunities particularly through projects in the hand-loom, handicraft and allied sectors.
 - (ii) Organisation of raw material supply of the needed quantity and quality.
 - (iii) Provision of design based on consumer preference and market research.
 - (iv) Establishment of wider entrepreneurial base and upgrading the skills of the artisans through a system of recurrent training.

The programme for improving the economic condition of the handloom weavers and other artisans will be revitalised. Measures would be taken to augment the flow of institutional finance to the village and small industries sector as a whole and in particular in favour of the cottage industries units. The Entrepreneurs Development Programme (EDP) meant for the technically qualified and educated unemployed persons would be strengthened further. Steps will also be taken to impart training in improved methods and technologies to upgrade the skills productivity and earnings of the artisans through the national programme for Training of Rural Youth for Self-Employment (TRYSEM).

- (c) Landless Labourers : The landless labourers are the most underprivileged and malnourished sections of the population and for them, it is a compounded problem of unemployment, low and nutritional deficiencies. uncertain income and will full Government take \mathbf{T} he State advantage of the proposed National Rural ployment Programme (NREP) where development projects and target group-oriented employment projects will be closely intertwined. generation This programme will initially cover on an average one thousand unemployed in every block. Thus, the National Rural Employment Programme will aim at achieving concurrently (a) employment opportunities which will help to provide to all citizens their daily bread (b) planned utilisation of man power for economic development, and (c) an efficient public distribution system for the essential commodities needed by rural poor.
- (d) Unorganised Labour: There are already varying numbers of unorganised labour looking for daily employment in many towns and cities. Therefore, wherever appropriate, suitable urban works programme with the highest priority for environmental sanitation, slum improvement, tree planting and community housing would be undertaken.

- (e) Physically and Mentally Handicapped: Programmes of training, rehabilitation and employment for those unfortunately afflicted by physical and mental deformities as well as diseases like leprosy will be considerably expanded.
- (f) Educated Unemployed: The issues of unemployment among the educated need to be viewed in the medium term context of the Five Year Plan as also in the long term perspective so that a mutually beneficial relationship can be promoted among education, employment and development. nature of the problem is such that no single pattern would provide the needed solution. A decentralised approach is called for and a District Development Centre could become the focal point for employment planning. It is proposed to set up at the district level an Employment Generation Council consisting of peoples' representatives, concerned Government functionaries and representatives of credit institutions and of professional and academic bodies in the district. This Council will prepare an integrated district employment plan which will help to provide jobs in the industrial, agricultural and services sectors and which will also ensure that the district employment plan and the district credit plan are mutually supportive of each other. In the district employment plan there will be special component plans for scheduled castes, scheduled tribes, back ward classes and women.

(g) Integrated Rural Urban Development Strategy;

Through a multi-pronged strategy outlined above it will be possible ultimately to ensure gainful employment to at least one adult member in each family.

2.3. Davelopment Strategy:

- 2.3.1. An essential feature of the strategy is the effective decentralisation of the planning process and the formulation of micro-level plans and the adopttion of a target group oriented approach. The identification of households and target groups in all areas of the State, particularly those who have been more or less by-passed in the planning process acquires special significance in this context. Wherever necessary, detailed field surveys will be undertaken to assist in such identification and in the case of plan programmes directly or substantially benefitting local habitations and households, targets will be broken up in terms of the number of habitats, households and individuals in as many instances as feasible. Programmes aiming at the upliftment of the less privileged sections like the scheduled castes, scheduled tribes, other socially and economically backward classes, small and marginal farmers, agricultural labourers and rural artisans, will constitute a vital part of the development effort under the Plan.
- 2.3.2. Synthesising the basic tenets of area development with the over riding concern of the poor can be

- achieved in two ways. Firstly, the main thrust of development activity would be on providing gainful employment to the needy through investments in infrastructure and social overheads. Secondly the creation of the infrastructure being essentially a one-time activity, economic activities which can be strenghtened by the creation of the necessary infrastructure are to be identified and fostered in order to sustain productive employment.
- 2.3.3. Area planning for integrated rural development by itself is not inconsistent with target group oriented planning, because except in instances where the benefit is indivisible, all area plans are to be designed to carry most of the public sector resources and services to the vulnerable groups of the society. In the final analysis every delivery system must reach and be oriented to the needs of every poor family.
- 2.3.4. The Minimum Needs Programme is crucial to the level of social consumption of the poorest sections of the society in as much as it provides for supplementing investments of general economic development by programmes of direct transfer of basic services to the target groups. While Gujarat's performance under the MNP has been satisfactory during the Fifth Plan in some spheres, the yet to cover substantial ground in the case of rural roads, rural water supply and rural health services. The Minimum Needs programme has been assigned high priority in the State Plan. Even in fields like elementary education and rural electrification where the State is ahead of the national average, there can be no slackening of efforts both in order to consolidate the gains achieved already to effect improvements in the standards of services. Besides specific time-bound targets, it is also proposed to ensure that programmes are formulated in precise detail as regards location, area coverage and beneficiary groups.
- 2.3.5. It is necessary to ensure the sustained growth of the State's economy as a whole by making adequate investments in the productive sectors as well as in building a sound economic infrastructure, the principal elements of which would be—
 - (i) Roads and transport and communication net work;
 - (ii) Systems for the distribution of irrigation, water and power,
 - (iii) Input delivery systems including credit supply arrangements,
 - (iv) Channels for marketing and distribution of production,
 - (v) Storage and warehousing, and

(vi) Research, development, extension, training and service facilities;

This is essential also to promote the long term employment generation.

2.3.6. Agriculture, Irrigation and Power will continue to be assigned a key role in the growth process. The decks being cleared for the implementation of the Narmada Project augurs well for the State and systematic efforts are mounted to tap the full potential of the project under an optimal time schedule. Development based on the resources of mineral oil and gas also need to be explo ed and exploited as fully as possible. The implemention of all projects in-progress in the various sectors would have to be accelerated in order to ensure the timely flow of benefits from them. Advance action in respect of prospective projects in the coresectors and programming for effectuating intersectoral linkages and functional complementaries in investment also merit immediate attention. Concerted efforts will have to be made towards tackling the special problems facing the State and making good the lags in crucial spheres of development.

2 4. Decentralised Planning:

- 2.4.1. Effective decentralisation of the planning process is one of the basic prerequisites for harnessing local resources and manpower more fully and for carrying the benefits of development to smallest area units and the poorest sections of the people and promoting beneficiary participation in the dynamics of growth. The most viable unit of planning at the sub-State level is the district. The need for a careful delineation of the sectors of development that can be effectively planned at the district level and devising a scheme of transfer of resources from the State to the districts in order to enable them to formulate their development plans within a given resources matrix have been fully recognised.
- 2.4.2. The demarcation of the action spheres of the district planning authorities entails a two tier structure of decision making with varying degrees of freedom of choice for the district. The top tier covers programmes in respect of which the State is the decision level subject to information, data and suggestions from the districts. The second tier is the district as the programme formulation level subject to the constraints of State policies, financial allocations and interaction between districts. In a major effort to provide a window for rural poor, it is proposed to strengthen the block/taluka level machinery both qualitatively and quantitatively.
- 2 4.3. A specific proportion of the State Plan outlay is earmarked for the District Plans annually. A formula incorporating objective criteria for apportioning the total district plan outlay among the different districts is also worked out.

- 2 4.4. Simultaneously, efforts have been on to establish a sound organisational base for district planning. The steps already taken include the setting up of a District Planning Unit in each district and the restructuring of the District Planning Boards with the induction of experienced, knowledgeable and expert non-officials representing key disciplines. These are expected to go a long way in ensuring the formulation of viable District Plans and their efficient implementation, menitoring and evaluation.
- 2.4.5. At the micro level, the investment strategy for promoting integrated rural development has to focus on projects which (i) reach large segments of the low income groups of the rural population; (ii) are low in terms of cost per person covered visa vis the benefits, (iii) provide rate of economic return at least equal to the opportunity cost of capital, (iv) strike a balance between productive and welfare components consistent with minimum cost standards, (v) include programme of rural-works for the landless poor as an integral part of the development efforts, and (vi) involve local part-cipation in decision making.

2.5. Popular Involvement:

2 5.1. The State's involvement will, by itself, not produce the desired impact if the beneficiaries themselves are not organised and associated in thedynamics of development. This indicates yet another dimension to the new growth strategy viz. people's participation in the tasks of the creation of supportive services and their integration with the economic activities. It is the people who, as the users offacilities, should take decision on the location, nature and qualities of infrastructure facilities and social amenities, since they are in the best position to know their requirements as well as local logistics. Institutionalised public participation, especially in the context of panchayati-raj, has already created a stable base for the decentralised exercise of power both on a territorial and functional basis. Efforts have, however, to be made to ensure the purposeful involvement in the planning process of the weaker sections and the less articulate groups of the rural society and especially in the framing and execution of special programmes catering to their welfare. Programmes of rural reconstruction as fall within the Panchayat's sphere of duties or those which fulfil the long felt needs of the total population should necessarily find a place in the micro-plan for each village so as to generate a genuine feeling of participation among the people.

2.6. Institutional Frame Work:

2.6.1. The State has evolved a number of far reaching policy prescriptions for the development of industry, agriculture, commerce and trade. The measures for encouragement of industries particularly in backward areas combined with a pragmatic approach towards encouraging units in

the private sector and joint sector are among the recent examples. In the sphere of agriculture also, programmes for double cropping and multiple cropping, cultivation of cash crops, pulses, etc. are among the principal focie for action. The accent on co-operatives for undertaking a wide range of activities spanning agricultural credit, marketing, milk collection and distribution, etc. is designed to ensure that necessary institutional support is available in the rural areas for various economic activities.

2.6.2. The need for expanding the coverage of the existing public distribution system so as to include the day to day essential needs of the vulnerable sections of the people and also to increase the number of outlets to serve them more adequately has been fully reorganised. Setting up of the Civil Supplies Corporation in the State will go a long way in achieving the desired goal. Apart from foodgrains, items like soaps, matches, tea, exercise note books etc. also fall within the activities of the Corporation. Additional fair price shops will be opened in a phased manner.

2.6.3. New organisational structures have been evolved in recent years to supplement the efforts of the Government in achieving the plan objectives speedily. The array of Corporations for industrial development to take care of the needs of fir ancial assistance, working premises, raw materials and the like and to institutionalise arrangements for close collaboration among these Corporations have contributed in no less significant measure to the industrial development of the State. Corporate activities have also been encouraged in such fields as forest development including collection of minor forest produce, dairy development, development of the scheduled castes and scheduled tribes, seed distribution, land development, tourism, construction activities and the like. It is now widely recognised that Corporations are more easily able to acquire the needed flexibility in carrying out the functions in relation to the economic environment around them and thus supplement the efforts of traditional Government Departments in respect of various plan programmes.

CHAPTER-III

THE PLAN FRAME

- 3.1.1. The levels of development reached in various sectors of economy, the special problems facing the State and the lags in the crucial spheres which still persist are outlined in Chapter I. The approach and strategy adopted in formulating the Sixth Plan 1980-85 are spelt out in Chapter-II. This chapter presents the profile of investment envisaged during the Sixth Plan 1980-85 and indicates the levels of development likely to be reached in important spheres at the end of 1984-85. In determining the size of investment for the Sixth Plan and the priorities in development, due consideration has been given to the following:—
- (i) The imperatives of anti-poverty strategy and massive effort for employment generation.
 - (ii) To attain a growth rate of 5%
- (iii) To provide adequate resources for the Narmada Integrated Area Development programme to which the State accords the highest priority.
- (iv) The levels of development reached at the end of 1979-80 and the need to maintain the pace of progress and exploit optimal growth potential built up in the different sectors.
- (v) To ensure that the projects at advanced stage are completed at the earliest so that the returns on the investments accrue to the economy immediately on the completion of the projects.
- (vi) The special problems confronting the State in different spheres.
- (vii) The sectoral and spatial lags and imbalance in development that have persisted despite three decades of planning.

3.2. Rate of Growth of the State's Economy.

- 3.2.1. The economy of the State during the decade 1960-61 to 1969-70 progressed with a growth rate of 2.7%. In the subsequent decads 1970-71 to 1979-80, the performance has improved and the economy has witnessed a somewhat higher growth rate of 3.7%. Over the period of 1970-71 to 1979-80 the growth rate in the primary sector was 1.5% and in the secondary and teritiary sector, it was of the order of 5.4% and the overall growth rate was 3.7%. During the same period, the growth of the per capita income was 1.4%.
- 3.2.2. The past performance gives rise to the hope that it will not be difficult to achieve a growth rate of 5% during the Sixth Plan 1980-85. With the impressive increase in the level of production and producti-

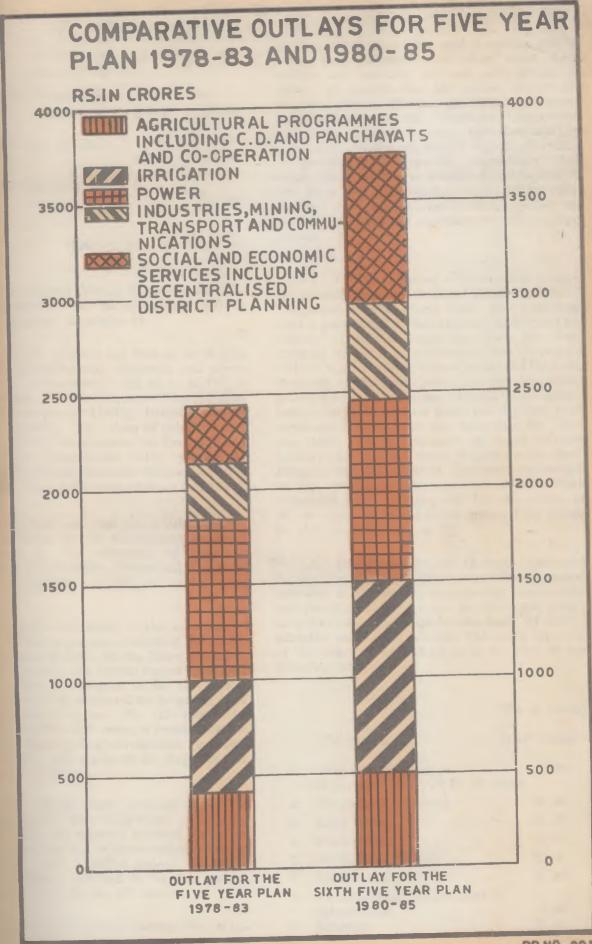
- vity in agriculture recorded in the last few years and concerted measures to sustain the tempo of development, the growth prospects in agriculture appeared to be bright. Progress in the field of animal hasbandry, dairying, fisheries and forestry has been reassuring. The investments made in the field of industry are likely to come to fruition in the near future and with a comfortable power position, the industrial growth could be substantial. Taking into account these considerations a growth rate of 5% is proposed to be achieved during the Sixth Plan.
- 3.2.3. The targetted rate of growth of 5% implies an increase in the State Domestic Product of the order of Rs. 1441 crores during the plan period 1980-85 over the estimated level of Rs. 5210 crores in 1979-80 (current prices). The private sector as well as the institutional sectors would have to supplement the investment decided in the State Plan to achieve the required investment for a growth rate of 5% during the Plan period.

3.3. Profile of Investments.

3.3.1. The investment priorities envisaged under the Sixth Plan 1980-85 are to be in conformity with the new strategy of development. An outlay of Rs. 3760 crores for the Sixth Five Year Plan 1980-85 has \mathbf{been} proposed. $\mathbf{A}\mathbf{s}$ outlay of Rs. 2440 crores for 1978-83 Plan-, outlay is higher by about 55 percent over previous outlay and will exceed the total expenditure of Rs. 2833 crores during the entire 20 year period 1961-80. The broad break up of the outlay is as under :-

(Rs. in crores).

| Sector of Development | 1978–83 Plan outlay | Sixth Plan 1980–85 Outlay |
|--|---------------------------|------------------------------------|
| 0 | 2 | 3 |
| Agriculture and Allied Programmes including C. D. Panchayats and Cooperation | 413.10 | 506.50 |
| Water Development (Irrigation). | 612.00 | 1000.00 |
| Power Development. | 740.00 | 964.8 4 |
| Industries and Minerals. | 108.14 | 171.10 |



| 1 | 2 | 3 |
|--|---------|----------------|
| Transport and Communications. | 232.00 | 338.60 |
| Social, Community and Economic Services. | 334.76 | 57 8.96 |
| Decentralised District Planning. | _ | 200.00 |
| Total | 2140.00 | 3760.00 |

A detailed statement showing the sectoral and Subsectoral distribution of the Sixth Plan 1980-85. outlays is appended (Appondix-A).

- 3.3.2. Highest priority has been given to the programmes of Agriculture, Irrigation and power. The outlays for these sectors add up to 65.73% of the total outlay. Within this, Agriculture including Cooperation accounts for 13.47%. Irrigation 26.60% and Power 25.66%. The share of industries and minerals is 4.55%, the allocation for Transport and Communications accounts for 9.01% whereas the Social, Community and Economic Services including Decentralised District Planning accounts for 20.71%.
- 3.3.3. Infrastructural facilities which are necessary pre-condition for the development are accorded priority in the allocation of resources. The outlays for Irrigation, Power and Transport programmes aggregate to 61.27% of the total plan outlay.
- 3.3.4. The spill over liability in the selected sectors viz. Irrigation projects (excluding Narmada), power generation projects, Roads, Minor Irrigation, Rural Water Supply, and Capital Project at the end of March, 1980 is estimated at Rs. 1417 crores, the bulk of which is attributed to Irrigation and power generation projects— Rs. 1210 crores. An outlay of around Rs. 1263 crores is proposed for the projects/programmes spilling into the Sixth Plan 1980-85 of which Rs. 1059 crores are for Irrigation and Power generation projects.
- 3.3.5. The largest single provision of Rs. 330 crores is proposed for Narmada project. Out of this, an outlay of Rs. 300 crores is provided under the Irrigation sector and Rs. 30 crores under the power sector. Other new irrigation projects and Power generation projects included in the plan account for an outlay of around Rs. 127 crores.
- 3.3.6. The rural component is around 70% of the total outlay. A number of existing and new programmes would directly benefit the backward and

problem areas and the weaker sections and the both in rural and urban areas. Large outlays are provided for such programmes. An outlay of around Rs. 460 crores is provided A special Tribal Areas for the Sub-Plan. Component plan for the Scheduled Castes which has been initiated for the first time has been given high priority and around 7% of the outlay provided for specific programmes which extend direct benefits to Scheduled Castes. Basides, the State is introducing a scheme for providing landless agricultural labourers and to another for financial assistance to self employed persons.

3.3.7. The Government of India has introduced the centrally sponsored National Rural Employment Programme on a matching basis. The programme aims at generating additional gainful employment and creation of durable community assets for strengthening the rural infrastructure. The programme will also improve the nutritional status and the living standards of the rural poor. Another programme launched by the Government of India on a matching basis is that of Integrated Rural Development being implemented throughout the State since 2nd October, 1980. The programmes of Small Farmers Development and the works programme for Small Farmers and Agriculatural Labourers are merged ito this programme. The target is to cover 5.50 lakh indentified families during 1980-85. An outlay of Rs. 144 crores is proposed for the Special Programmes for the Rural Development.

for the Minimum Needs Programme which has special relevance in the context of improving productivity and providing higher income for the target groups as well as minimum acceptable standards of shelter, education and health services. The broad break-up of the outlay of Rs. 343.42 crores is given in the following table:—

(Rs. in crores)

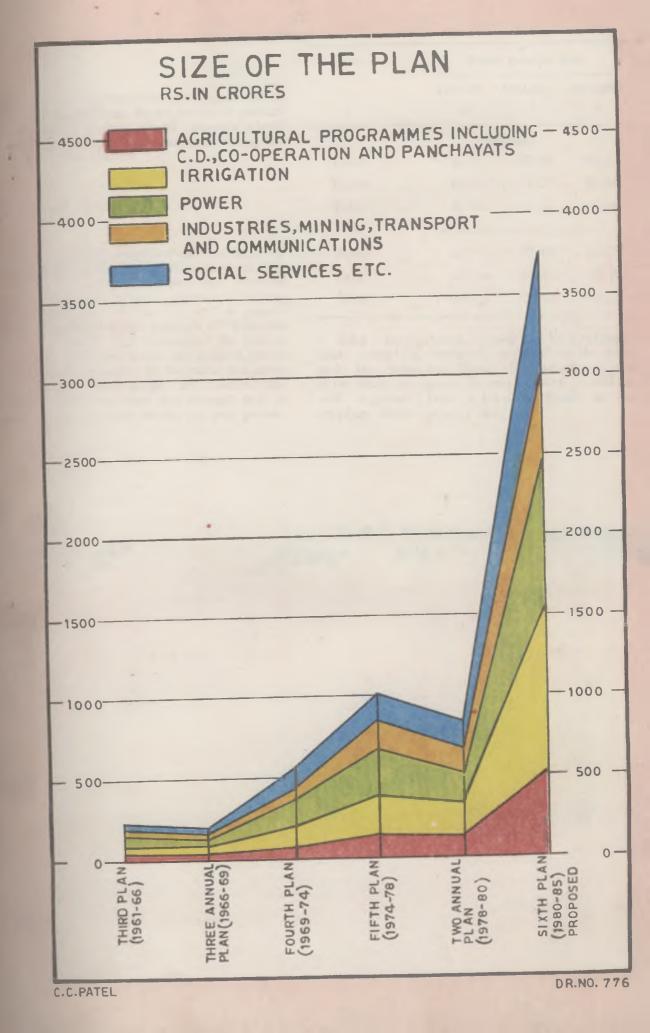
| | Programme | MNP Outlay |
|-----------|---|--------------|
| 1. | Rural Electrification (of the total outlay of Rs. 80 | 3.64 crores) |
| 2. | Elementary Education | 35.60 |
| 3. | Rural Roads | 166.59 |
| 4. | Rural Health | 20.09 |
| 5. | Rural Water Supply | 65.00 |
| 6. | Rural Housing | 30.85 |
| 7. | Environmental Improvement | in. |
| | Urban Slums | 5.00 |
| 8. | Nutrition | 16.65 |
| | | 343,42 |

3.3.9. A provision of Rs. 200 crores for decentralised district planning in the form of discretionary and incentive grants to the District Planning Boards is an important innovation in the current Five Year Plan. A large number of small works, which prove productive and crucial in the context of the needs of villages/talukas which often are lost sight of even at the district level can be taken up under this programme. The programmes of Social, Community and Economic Services with an outlay of Rs. 578.96 crores would lead to improvement in the quality of life in the rual areas. A special mention may be made of the outlay of Rs. 5 crores for UNICEF assisted social input projects being undertaken in the nine districts of the State.

3.4. Key Targets of Production and Infrastructural Programmes:

- 3.4.1. An additional foodgrain production potential of 12 iakh tonnes is expected to be created during 1980-85 raising the base level production of 41.22 lakh tonnes to 53.50 lakh tonnes at the end of 1984-85. In the case of oilseeds the target is to raise the potential from 19.82 lakh tonnes to 26 lakh tonnes and that of cotton from the level of 19.43 lakh bales to 24.30 lakh bales by the end of 1984-85. The elements of the action strategy for increasing crop production are:—
 - (1) To increase the areas under high yielding varieties of food crops from the level of 18.76 lakh hectares in 1979-80 to 24.50 lakh hectares by the end of 1984-85.
 - (2) To raise the consumption level of chemical fertilisers (NPK) from 3.78 lakh tonnes at the end of 1979-80 to 6.70 lakh tonnes at the end of 1984-85.
 - (3) To bring an additional area of 3.51 lakh hectares under the soil conservation measures on watershed basis.
 - (4) To bring an additional area of around 4 lakh hectares under irrigation.
 - (5) To adopt the new strategy to increase production of pulses by bringing more areas as a mixed crop with Bajra, Jowar, Sugarcane, Cotton and Rice.
- 3.4.2. The Government of India have sanctioned a project of groundnut production on an extensive scale from 1980-81 in groundnut growing pockets in the State covering six districts viz. Rajkot, Junagadh, Jamagar, Bhavnagar, Amreli and Kachehh to encourage the cultivators to adopt modern methods of groundnut cultivation through technical guidance and financial assistance.
- 3.4.3. Irrigation potential created through major and medium irrigation projects is 10.12 lakh hectares at the end of 1979-80. It is proposed to create an additional irrigation potential of 2.60 lakh hectares by 1984-85. In case of Minor Irrigation the creation of irrigation potential of around 3 lakh hectares during the period 1984-85 has been targetted.

- 3.4.4. The installed capacity for power generation at the end of 1979-80 was 2384 M.W. The demand for power by the end of 1984-85 is projected to be 3186 M.W. needing an installed capacity of 4822 M.W. The net availability at the end of 1984-85 will be 3730 M.W. Plans for covering the gap as soon as possible after 1984-85 as also for the advanced actions for further growth in the demands have been included in the plan.
- 3.4.5. The addition of 7900 Kms. to the road net work has been targetted raising the total length to 51573 Kms. by the end of 1984-85. It is proposed to provide pucca road links to 3654 additional villages during the Sixth Plan period 1980-85. Thus, around 11066 villages are proposed to be connected with the pucca roads by 1984-85.
- 3.4.6. Under the Minimum Needs Programmes the targets proposed for the Sixth Plan 1980-85 are :—
 - (i) Appointment of 15000 primary school teachers to take care of additional enrolment and improving the functioning of 7000 single teacher schools.
 - (ii) Construction of 3000 school class rooms.
 - (iii) Providing electricity to all the remaining 7408 villages, and thereby covering all the 18275 villages in the State under the programme of rural electrification.
 - (iv) Providing safe drinking water facilities to all the remaining 5086 'No Source' villages.
 - (v) To connect 3654 villages with pucca roads raising the total number of such villages to around 11066.
 - (vi) Establishment of additional 25 primary health centres and 900 sub-centres, raising the number of primary health centres to 276 and that of sub-centres to 3400 by the end of 1884-85.
 - (vii) Assistance to be given to 3.12 lakh allottees of the plots in construction of durable pucca houses.
 - (viii) Acceleration of the programme of environmental improvement in slum areas, and
 - (ix) To extend the nutrition programme to the vulnerable group-additional beneficiaries being 4.25 lakhs under mid-day-meal and 4 lakhs under special nutrition programme.
- 3.4.7. A statement showing the selected physical targets proposed to be achieved by the end of 1984-85 is appended (Appendix 'B'). A broad outline of programmes is given in Chapter IX-Sectoral Programmes.



3.5. Employment:

3.5.1. The employment oriented programmes in the State Plan accounts for an outlay of around Rs. 1795 crores which would generate about 3.1 million person years of employment during the Sixth Plan period 1980-85.

3.6. Impact on poverty

3.6.1. The targetted growth rate of State economy during 1980-85 is 5 percent. It is assumed that beyond 1984-85 same rate of growth will continue and per capita income and per capita monthly expenditure will both grow at the rate of 3.4 percent annually. The Sardar Patel Institute of Economic and Social Growth, has worked out the proportion of the population below the poverty line in 1984-85 and 1989-90 in the rural and urban areas of the State as per table below. The estimation does not take into account any redistribution of income, during the plan period.

| Areas | Below poverty line | | | | | | |
|---------|--------------------|-----------------|---------------|--|--|--|--|
| | 1979-80 | 1989-9 0 | | | | | |
| 1 | 2 | 3 | 4 | | | | |
| | Pe | ercent | | | | | |
| Rural | 44.64 | 35.56 | 25 .36 | | | | |
| Urban | 50.09 | 40.78 | 31.43 | | | | |
| Total | 46.27 | 37.19 | 27.3 4 | | | | |
| | Absolute | number in | lakhs | | | | |
| Rural | 98.07 | 83.01 | 61.33 | | | | |
| Urban . | 47.3 3 | 43.42 | 36 .78 | | | | |
| Total | 145.40 | 126.43 | 98.11 | | | | |

3.6.4. It, however, needs to be mentioned that bousehold oriented approach in the Flan and the Minimum Needs Programme and the entire range of schemes for en playment generation will together [have a leneficial impact on the numbers below poverty line.

APPENDIX A Sixth Five Year Plan 1980-85 Sector/Sub-Sectoral Outlays

(Rs. in lakhs)

| Sr. No. | Major/Sub-Major Head of Development | | | | | | xth Plan Outlay | Percentage to total |
|--|--|---|-----------|-------------|-------------|-----|---|--|
| 1 | 2 | _ | | | | | 3] | 4 |
| 1. | Agricultural Research and Education | •• | •• | • • | •• | • 6 | 1000 | 0.27 |
| 2. | Crop Husbandry | •• | •• | •• | •• | •• | 31 00 | 0.82 |
| 3. | Land Reforms | •• | •• | •• | •• | •• | 1000 | 0.27 |
| 4. | Minor Irrigation | •• | • • | •• | •• | •• | 8 800 | 2.34 |
| 5. | Soil and Water Conservation | •• | | •• | •• | • • | 2894 | 0.77 |
| 6. | Irrigation Command Area Development | •• | •• | • • | •• | •• | 1877 | 0.50 |
| 7. | Animal Husbandry | •• | •• | •• | •• | •• | 1770 | 0.,47 |
| 8. | Dairy Development | •• | •• | •• | •• | •• | 205 | 0.05 |
| 9. | Fisheries | •• | •• | •• | •• | •• | 2000 | 0.53 |
| 10. | Forests | •• | •• | •• | •• | •• | 9000 | 2.39 |
| 11. | Investment in Agricultural Financial Institutions | •• | •• | •• | •• | •• | 350 | 0.09 |
| 12. | Marketing, Storage and Warehousing | •• | •• | •• | •• | •• | 170 | 0.05 |
| 13. | Community Davelopment and Panchayats | •• | •• | •• | •• | •• | 627 | 0.17 |
| 14. | Davelopment of Backward Areas | •• | •• | •• | •• | •• | 25 0 | 0.07 |
| .15. | Special Programmes for Rural Development | •• | •• | •• | •• | •• | 14407 | 3.83 |
| | | Tota | lI-Agrieu | 14 | ייי פי ו | | | |
| | | | í1∨RLIan | teals where | Mileg Delai | 064 | 47450 | 12.62 |
| II. | Co-operation | •• | ·•• | tente aud's | | 094 | 3200 | 0.85 |
| II. | Co-operation Water Development (Irrigation) | ••• | •• •• | eure and A | | | 3200 | 0.85 |
| | | •• , | · ••• | . • . | . | •• | 3200 | 0.85 |
| ΙΙΙ. | Wither Development (Irrigation) | | • | . • . | . | •• | 3200 | 0.85 |
| III. IV. | Wither Development (Irrigation) | •• | •• | | • | •• | 3200 100000 96484 | 26.60 |
| III. IV. | Water Development Power Development Village and Small Industries | •• | •• | | | •• | 3200 100000 96484 9596 | 0.85 26.60 25.68 2.55 |
| 1. 2. | Water Development Power Development Village and Small Industries Large and Medium Industries | •• | •• | | | •• | 3200 100000 96484 9596 6364 | 26,60 25.68 2.55 1.69 |
| 1. 2. | Water Development Power Development Village and Small Industries Large and Medium Industries | | •• | •• | | •• | 3200 100000 96484 9596 6364 | 26,60 25.68 2.55 1.69 |
| 1. 2. | Water Development Power Development Village and Small Industries Large and Medium Industries | | | •• | | •• | 3200 100000 96484 9596 6364 1150 | 26.60 25.68 2.55 1.69 0.31 |
| 1. 1. 2. 3. | Water Development Power Development Village and Small Industries Large and Medium Industries Mining and Metallurgical Industries | ······································· | | stries and | Minerals | •• | 3200 100000 96484 9596 6364 1150 | 26.60 25.68 2.55 1.69 0.31 |
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | Water Development Power Development Village and Small Industries Large and Medium Industries Mining and Metallurgical Industries Ports, Lighthouses and Shipping | Tot | | strice and | Minerals | •• | 3200 100000 96484 9596 6364 1150 17110 | 0.85 26.60 25.68 2.55 1.69 0.31 4.55 |
| 1. 2. 3. | Water Development Power Development Village and Small Industries Large and Medium Industries Mining and Metallurgical Industries Ports, Lighthouses and Shipping Roads and Bridges | Tot | | stries and | Minerals | •• | 3200 100000 96484 9596 6364 1150 17110 2600 22000 | 0.85 26.60 25.66 2.55 1.69 0.31 4.55 |

| 1 | 2 | | | | | | 3 | 4 |
|-----|--|--------|------------|-------------|-------------|--------|--------|--------|
| 1. | General Education | | •.• | •• | •• | •• | 5560 | 1.48 |
| 2. | Technical Education | •• | •• | •.• | •• | •• | 600 | 0.16 |
| 3. | Medical and Public Health | •• | •• | •• | •• | •• | 7000 | 1.86 |
| 4. | Social Input (UNICEF assisted Projects) | •• | •• | •• | •• | •• | 500 | 0.13 |
| 5. | Sowerage and Water Supply | •• | •• | •• | •• | •• | 15070 | 4.01 |
| 6. | Housing | •• | •• | •• | •• | •• | 8530 | 2.27 |
| 7. | Urban Development | •• | •• | •• | | •• | 2850 | 0.76 |
| 8. | Capital Project | •• | •• | •• | •• | •• | 3000 | 0.80 |
| 9. | Information and Publicity | •• | •• | •• | •• | •• | 85 | 0.02 |
| 10. | Labour and Labour Welfare | •• | •• | •• | •• | •• | 4000 | 1.96 |
| 11. | Welfare of Backward Classes | •• | •• | •• | •• | •• | 8000 | 2.13 |
| 12. | Social Welfare | •• | •• | •• | •• | •• | 450 | 0.12 |
| 13. | Nutrition | •• | •• | •• | •• | •• | 1665 | 0.44 |
| | | Total- | -VII : 890 | ial and Con | amunity Sec | rvices | 57316 | 15.24 |
| ı. | Services (Planning Machinery |) | •• | •• | •• | | 5 | |
| 2. | Statistics | | •• | •• | •• | •• | 250 | 0.07 |
| 3. | Training of Development Personnel | •• | •• | •• | •• | | 75 | 0.02 |
| 4. | Administrative Machinery for TASP | •• | •• | •• | •• | •• | 100 | 0.02 |
| 5. | Civil Supplies Corporation and Consumers Movemen | t | •• | •• | •• | •• | 150 | 0.04 |
| | | Total | -VIII; E | Conomio Se | rvices | | 580 | 0.15 |
| | IX-Dooratealised District Planning | •• | •• | ٠ | •• | •• | 20000 | 5.32 |
| | | | | GRAN | D TOTAL | | 376000 | 100.00 |

APPENDIX—B
Sixth Five Year Plan 1980-85 — Selected Targets and Achievements

| Sr. | | Item | | | | | Unit | | hievement at | 1980-85 |
|-----|------------|---------------------|----------------|--------------------------------------|-----------|------------|-------------------------------|--------|------------------|---------------|
| 40. | | - | | 1977-78 1979-80 (Base year level) | | · (Target) | | | | |
| 1 | | 2 | | | | | 3 | 4 | _5 | 6 |
| I. | Agricul | ltural Programme | B. | | | | | | | |
| | 1. Age | cicaltural Product | ion (Progressi | ve Poten | tial) | | | | | |
| | (a) | Food grains | •• | | • • | •• | Lakh tonnes | 38.74 | 41.22 (40.08) | 53 .50 |
| | (b) | Oil Seeds | •• | •• | •• | •• | Lakh tonnes | 19.15 | 19.82 (19.93) | 26.00 |
| | (c) | Cotton | •• | •• | | | Lakh bales (170 Kgs. each) | 19.42 | 19.43 (17.85) | 24.30 |
| | (d) | Sugarcane (in t | erms of Gur) | | | •• | Lakh terree | 3,46 | 2.52 | 4.50 |
| | 2. So | il Conservation or | Agricultural | Lands | | | Lakh hects. | 17.61 | (3.19) 18.79 | 22.30 |
| | 3. Li | ve stock Products | | | | | | | | |
| | (a) | Milk | •• | •• | -4-€ | •• | Lakh tonnes | 20.25 | 22.00 | 26.40 |
| | (b) | Eggs | •• | | •• | •• | Lakh nos. | 1980 | 2400 | 3600 |
| | (c) | Wool | •• | | • • | •• | Lakh Kgs. | 18.19 | 18.34 | 21.00 |
| | 4. Fis | sh Production | | | | | | | | |
| | (a) | Marine | •• | •• | | •• | Lakh tonnes | 1.77 | 2.07 | 3.45 |
| | (b) | Inland | •• | •• | •• | •• | Lakh tonnes | 0.13 | 0.16 | 0.65 |
| | | | | | | | Total :- | 1.90 | 2.23 | 4.00 |
| | 5. Co- | operation-Agricul | Itural Credit | | | | | | | |
| | (a) | Short and Medi | um Term Adv | BD068 | •• | •• | Rs. in crores | 138.76 | 161.60 | 211.00 |
| | (b) | Long Term Adv | vances | •• | •• | •• | Rs. in crores | 209.86 | 3.82 (Let) | ££.(((1 ct) |
| II. | Area u | nder Major and M | dedium Irrigat | ion. | 1 0 0 | 1 7 1 | × 40 + 1, 1, 1, 1 | | | |
| | (a) | Potential | •• | •• | •• | •• | Lakh hectares | 9.24 | 10.12 | 12.72 |
| | (b) | Utilisation | •• | •• | •• | •• | Lakh hectares | 5.01 | 5.29 | 7.58 |
| ш. | Power. | | | | | | | | | |
| | | Installed Capaci | ity | | •• | •• | MW | 1907 | 2384 | 8780 |
| | (b) | | | | | | | | | |
| | | (a) Villages Ele | ectrified | •• | •• | | No. | 8121 | 10867 | 18276 |
| | | (b) Pumpsets e | nergised | •• | •• | •• | No. in lakhs | 1.56 | 2.03 | 3.28 |
| IV. | Roads | (Excluding Nation | onal Highways |) | | | | | | |
| | (a) |) Surfaced | •• | •• | •• | •• | Kms. | 24872 | 28460 | 41360 |
| | (b) |) Unsurfaced | •• | •• | •• | •• | Kms. | 16104 | 16213 | 10213 |
| | | | | | | | Total :— | 40976 | 48673 | 51578 |
| V. | Genera | I Education-Enro | olment | | | | | | | |
| | (a) Cla | asses I to V percer | ntage of popul | ation in | age group | 6-11. | | | | |
| | | Boys | | •• | •• | •• | Percent | 115.00 | 118.77 | 114.88 |
| | | i) Girls | •• | •• | •• | •• | Percent | 82.00 | 84.86 | 105.88 |
| | | ii) Total | •• | •• | •• | •• | Percent | 99.00 | 102.14 | 110.00 |

| 1 | | 2 | | | | | 3 | 4 | 5 | 6 |
|-------|-----|--|----------|-----------------|---------|-----------|--------------|-------|-------|---------------|
| | (b) | Classes VI to VIII percen | tage of | population in | age gro | up 11-14. | | | | |
| | | (i) Boys | | •• | | • • | Percent | 56.00 | 58.01 | 83.33 |
| | | (ii) Girls | | •• | | | Percent | 34.00 | 35.44 | 56. 32 |
| | | (iii) Total | | •• | | • • | Percent | 45.00 | 47.05 | 70.29 |
| VI. | Hea | alth. | | | | | | | | |
| | 1. | Primary Health Centres | | | | | | | | |
| | | (a) Main centres | | •• | • • | :• | No. | 251 | 251 | 276 |
| | | (b) Sub-centres | •• | •• | •• | | No. | 2400 | 2500 | 3400 |
| | 2. | Rural Water Supply. | | | | | | | | |
| | | No. source Villages covere | d outo | f 9600 villages | | •• | No. | 2916 | 4514 | 9600 |
| VII. | Ho | using | | | | | | | | |
| | Rw | ral Housing Rural house sites-cum-h | its Cons | structed | | •• | No. in lakhs | 0.56 | 1.12 | 4.24 |
| VIII. | Tı | raining of Craftsmen | | | | | | | | |
| | (a) | No. of Institutions | •• | •• | •• | • • | No. | 20 | 22 | 27 |
| | (b) | Intake (i) Craftsmen | | •• | •• | •• | No. | 6460 | 8040 | 11876 |
| | | (ii) Vocationali | sation | •• | •• | •• | No. | •• | | 15000 |

Note:-Figures in brackets in Col. 5 Indicate actual Production.

CHAPTER-IV.

THE MINIMUM NEEDS PROGRAMME

4.1. Introduction.

(Rs. in crores).

- 4.1.1. The Minimum Needs Programme launched in the Fifth Plan had envisaged the allocation of adequate resources for programmes aiming at the upgradation of levels of social consumption of the poor covering Elementary Education, Rural Health Nutrition, Drinking Water Supply, Rural Roads, Rural Electrification, House Site plots for Rural Landless Labourers and construction of houses thereon and Environmental Improvement of slums in the urban areas. The programme had aimed at establishing throughout the country a network of contain essential services based on the criteria of uniformity and equality. The State Fifth Plan originally provided an outlay of Rs. 89.56 crores for Minimum Needs programme. However, this was revised to Rs. 52.01 crores. An expanditure of the order of Rs. 43.80 crores was incurred during the Fifth Plan 1974-78.
- 4.1.2. In the Fifth Plan some of the targets under the programme could not be fully achieved. The programmes of Elementary Education, setting up Primary Health Centres and Sub-centres, allotment of House Site Plots to the Landless Labourers had progressed satisfactorily; while the State had lagged behind in the case of Rural Water Supply, Rural Roads, and Environmental Improvement in urban slums.

4.2. Objectives of the Sixth Five Year Plan 1980-85

4.2.1. The Minimum Needs programme has been given due priority in the allocations of provisions during the Sixth Plan 1980-85. The activities covered under these programmes are proposed to be supplemented by the wider programmes in the various social services sector. It is also proposed to adopt a system approach in dealing with these social service programmes. The Minimum Needs Programme is expected to provide essential infrastructure and welfare services to the weaker sections and backward and remote areas of the State. The grammes formulated are also labour intensive and create substantial additional employment. It is proposed to pay considerable attention both to locational aspects of these basic services and their integration so as to confer optimal benefits on the target groups. Both these dimensions are proposed to be tackled within the frame work of local planning in the State. An outlay of Rs. 343.42 crores has been proposed for the Sixth Five Year Plan 1980-85 for the Minimum Needs Programme. The broad break-up of the outlay as under:-

| Sr. No. | Name of the Programme | Proposed Outlay 1980-85 |
|------------|---|-------------------------------|
| 1 | ٤ | 3 |
| 1. | Rural Electrification. (of the total outlay of Rs. 80.24 cror | 3.64 es.) |
| 2. | Rural Roads. | 166.59 |
| 3. | Elemantary Education including Adult Education. | 35.60 |
| 4. | Rural Health. | 20.09 |
| 5. | Rural Water Supply. | 65.00 |
| 3. | Housing Assistance to Rural. Landless Labourers. | 30.85 |
| 7. | Environmental Improvement of slums. | 5.00 |
| 8. | Nutrition. | 16.65 |
| | | |

4.2.2. The progress in the implementation of the Minimum Needs Programme upto the end of 1979-

Total..

343.42

Minimum Needs Programme upto the end of 1979-1980, the implication of the norms set up by the Planning Commission and the proposed programmes for the Sixth five Year Plan 1980-85, are broadly indicated in the subsequent paragraphs.

Elementary Education.

4.2.3. The objective continues to be the universalisation of elementary education. The norm for the Country, for the Minimum Needs Programmes for elementary education is to achieve 95 per cent enrolment in the age group 6-11 years and 50 per cent in the age group 11-14 years by 1985. The State having attained a higher level of enrolment aims to achieve the enrolment of 110 per cent in the age group 6-11 (classes I to V) and 70-29 per cent in the age group 11-14 (classes VI to VIII) by the end of the Sixth Plan, 1984-85.

4.2.4. The progress of the enrolment and the target is as under:—

| (Rice | in | parcentage) |
|-------|-----|-------------|
| uriy. | 111 | Directions |

| Item | Agə | group | Achievements | | target |
|--------|------|-------|-----------------|----------|---------|
| | | | 1978 -79 | 1979 -80 | 1984-85 |
| 1 | 2 | | 3 | 4 | 5 |
| Enrol: | ment | [6-11 | 99.80 | 102.14 | 110.00 |
| childr | en | 11-14 | 46.63 | 47.05 | 70.29 |

- 4.2.5. It is proposed to expand the coverage of elementary education during the Sixth Plan 1930-85. For achieving these objectives, an outlay of Rs. 35.60 eroses has been proposed for "Elementary Education" during the period 1930-85. The important targets set under this programme during the Sixth Five Year Plan period are:—
 - (1) Appointment of 15000 primary school teachers to take care of additional enrolment of 11.23 lakh children and improving the functioning of 7000 single teacher schools.
 - (2) Construction of 3000 school class rooms.
 - (3) All the remaining 711 villages having population of less than 200 but more than 100 will be provided schooling facilities.
 - (4) To supply 5.70 lakh pairs of uniforms and 25.00 lakh sets of Text Books free of cost to the tribal children enrolled in schools.
 - (5) To cover under non-formal education 2.24 lakh children in the age group 9-14 to minimise drop outs and wastage.
- 4.2.6. Special Education for Adults, particularly in the productive age group 15-35 yeeas would also be a part of the elementry education component of MNP. The National norm is to achieve 100% coverage of the illiterates in the age group 15-35 by 1930. In Gujarat against the projected population of around 62 lakhs at the end of 1984-85, in the age group 15-35 it is targetted to cover 35.30 lakh illiterate Adults during the Sixth Plan 1980-85.

Rural Health.

- 4.2.7. The Fifth Plan norms of establishing one Primary Health Centre (PHC) per Community Development block, one sub-Centre for every 10,000 population and the provision of drugs at Rs. 12,000 per annum for each PHC and Rs. 2000 per annum to each sub-Centre have been fully achieved in the State. There are 251 Primary Health Centres and as a result of the various, programmes under the health, family welfare, minimum needs programme and the multipurpose workers, schemes, in all 2500 sub-Centres are functioning in the State, at the end of 1979-80. At present 11 Primary Health Centres of the existing 251 PHC have already been upgraded into 30 bedded hospitals (now known as Community Health Centres).
- 4.2.8. The ultimate objective of Minimum Needs Frogramme so far Rural Health programme is concerned is that of (i) the setting up of one PHC for a population of 30,009 in plains and 20,000 in tribal and hilly areas, (ii) one sub-centre for apopulation of 5000 in plains and 3090 in tribal and hilly areas by 2000 A.D. In addition, it is also envisaged to have one community health volunteer for a population of 1090 or a village by 1990 and establishment of one Community Health Centre (CHC) for a population of one lakh or one C.D. Block by 2000 A.D. The CHC is a modified form of upguarded 30 bedded hospital which would provide for necessary speialisation of gynacology, paediatrics, surgery and medicine along with the provision of beds.
- 4.2.9. It is proposed to establish additional 25 PHCs and 900 sub-Centres raising the number of PHCs to 276 and that of sub-Centres to 3400. It is also proposed to upgrade 5 PHC into CHC. An outlay of Rs. 20.09 crores has been proposed for the Sixth Five Year Plan 1980-85.

Rural Water Supply.

- 4.2.10. Large areas in the State fall under the arid and semi-arid zones. Recent draughts have severely depleted the ground water resources. Villages along the coastline also face serious problem of potable water.
- 4.2.11. Of the 18,275 villages in the State, 9600 villages have been categorised as having "No Source" villages of drinking water supply by June 1977. At the end of March, 1980, 4514 villages (inclusive of 1000 villages covered by the end of the Fourth Plan) have been covered leaving a balance of 5086 villages to be covered under the rural water supply

programme. The National norm is to cover all the "No source" villages during the Sixth Plan 1980-85. The State Government attaches a high priority to this programme. The implementation machinery at the functional and apex levels has been strengthened to handle successfully the massive programme. The Government aims at covering all the remaining villages by the end of 1984-85. In addition to the State Plan outlay of Rs. 65 crores provided for the Sixth Five Year Plan 1980-85, an amount of Rs. 21 crores would be made available by the Government of India under accelerated Rural Water Supply Programme for enabling the State Government to achieve the proposed target.

Rural Roads.

4.2.12. The National norm under the Minimum needs programme is to provide road linkages to all villages with a population of 1500 and above and 50 percent coverage of villages with a population of 1000 to 1500, by 1990 and to cover 50% of the total number of villages by the end of the Sixth Plan 1980-85. Out of 3664 villages in the population range of 1500 and above 2441 villages have been connected by all weather roads and out of the 2964 villages have been connected by roads by the end of 1979-80.

4.2.13. The State Government aims at achieving the norms of the programme fully by the end of the Sixth Plan 1980-85. It is envisaged to cover all the remaining 1223 villages in the population range of 1500 and above and 781 villages in the population range of 1000 to 1500 during the Sixth Plan 1980-85.

4.2.14. The following table depicts the achievements and the targets.

| population range. | \mathbf{of} | 1979-80 (Villages connected) | |
|-------------------|---------------|------------------------------------|-------------|
| 1 | 2 | 3 | 4 , |
| 1500 and above. | 3664 | 2441 | 1223 |
| 1000 to 1500. | 2364 | 1402 | 7 81 |

An outlay of Rs. 166.59 crores is proposed for the Sixth Plan 1980-85 to a hieve the above target.

Rural Electrification.

4.2.15. Rural electrification is a eccie-coronic activity aiming at changing the pattern of living in rural areas and to accelerate the grewth of the rural economy. There are 18275 villages in the State out of which 10867 villages have been electrified till 1979-80. The National norm for the Minimum Needs: Programme is to cover 60% of the villages in each. State by 1990. However the State Government aims to electrify all the remaining 7408 villages by 1984-85 and thereby achieve the stage of 100 per centelectrified villages in the State. Special emphasis is also proposed to be given to the rural electrification programme in the tribal areas of the State. While electrifying all the villages of ${f the}$ State. harijan basties will also invariably be covered under the programme.

Housing Assistance to the Landless Labourers.

4.2.16. The scheme for the allotment of plotato the landless labourers in the rural areas has been under implementation in the State since July, 1972 as a Central Sector Scheme. This was continued as a State Plan Scheme under the Mirimum Netds Programme during the Fifth Plan. Under the scheme house sites measuring 100 sq. yards are provided free of cost to the families of landless labourers in the rural areas. 4.25 lakh plots have been allotted till the end of December, 1980. With a view to cover left out families, it has been decided to accept the applications from such families. upto 31st December 1981. Assistance to 1.12 lakh allottees have been given for construction of houses under the scheme till the end of 1979-80.

4.2.17. In respect of housing assistance, the Government has launched a massive programme of assisting the allottees of the free plots since 2nd October 1976. The scheme has been recently revised and it envisage: the cons ruction of a small but durable pacca house costing about Rs. 3000/with Government assistance by way of subsidy of: Rs. 1000/-, contribution from the District Panchayats Rs. 250, loan from banks HUDCO Rs. 1500 and Rs. 250 as beneficiary contribution in terms of labour.

4.2.18. The National norm under the Minimum Needs Programme for the Sixth Plan 1980-85 is to-cover all the remaining landless rural labour households for allotment of house sites and 25% of the eligible house holds for provision of assistance for construction of house. The State Government has prepared a programme of assisting 3.12 lakh allottees of Plots for construction of durable pueca houses

during the Sixth Plan 1980-85. It is further proposed to provide essential amenities like drinking water, street light, Roads, etc., on priority basis to the colonies of such beneficiaries. An outlay of Rs. 30.85 crores has been proposed for the Sixth Five Year Plan 1980-85.

Environmental Improvement of Slums

4.2.19. During the Fourth Plan, the Government of India had introduced a Central Sector Scheme for environmental improvement in the slum areas of cities with population of 8 lakhs and above. Only city was thus covered under Ahmedabad " programme. The State Government had introduced a similar scheme under the State Plan for cities having population of 1 lakh and above covering Vadodara, Surat, Rajkot, Bhavnagar, Jamnagar and Nadiad. The Central Sector Scheme was extended subsequently to cities with a population of 3 lakhs and above. Accordingly, the scheme covered Ahmedabad, Vadodara, Surat and Rajkot. In the Fifth Plan this programme was continued in the State Plan. From February 1980, the scope of this programme has however been extended to all urban areas with Municipal Corporations Municipalities. The scheme envisages the provision of financial assistance to local bodies for providing certain essential facilities and services like water supply, sewerage, storm water drains, community latrines, paving of streets and improvement of slum areas inhabited by Scheduled. Castes particularly scavangers.

4.2.20. The M.N.P. norm is to cover 100 percent urban slum population by 1990 under the Programme for environmental improvement of slum areas. By the end of 1979-80, 1,49,338 slum population have been covered. It is targetted to cover 3,33,333 slum population for which an outlay of Rs. 5 crores is proposed for the Sixth Plan.

Nutrition

4.2.21. The Minimum Needs Programme comprises of Special Nutrition Programme and Midday Meals Programme. The Special Nutrition Programme was introduced during 1970-71 and was subsequently included in the Fifth Plan as a part of the M.N.P. The programme envisages to provide 300 calorics and 10-12 grams of protein to

the children in the age group 0-6 years for 300 days in a year and 500 calories and 20-25 grams of protein to the pregnant and nursing mothers for 300 days. The programme also enaviages the integration for medical care, immunisation, health and reforral services and nutrition education with the provision of nutritional supplement. These servicesare delivered through the organiser at the feeding centres under the supervision of the primary health centres. At \mathbf{the} end of 1979-80, 550 feeding centres under the programme have been upgraded to Integgrated Health cum-Nutrition Centres. The Nutrition component of Integrated Child Development projects is also served. under the special nutrition programme. During the Sixth Five Year Plan 1980-85 an outlay of Rs. 10.15 crores has been proposed for the Special Nuttrition Programme, and it is proposed to cover additional 4 lakh beneficiaries.

4.2.22. The Mid-day meals programme for the age group 6-11 years was introduced in 1962-63. It provides Mid-day Meals to these Children for 200 days in a year and 300 calories and 10-12 grams of protein per child perday. It aims at increasing the enrelment in the Primary schools and raising nutritional status of children. It also seeks to provide supplementary feeding to the school going children in the age group of 6-11. The scheme is being implemented through primary schools with the assistance of food materials from CARE. An outlay of Rs. 6.50 crores has been proposed for the Sixth Five Year Plan 1980-85. The additional beneficiaries under this programme targetted to be covered is 4.25 lakks during the Sixth Plan 1980-85.

Monitoring of Minimum Needs Programme.

4.2.23. The Minimum Needs Programme has wital bearing on the quality of life of vulnerable sections of population. The Covernment attaches great importance to vigorous implementation and tight monitoring of the benefits conferred by this programme on the adivasis, harijans, and other socially, educationally and economically backward classes. It is, therefore, proposed to strengthen the monitoring arrangement at all the levels for this important programme. It is proposed to have appropriate monitoring machinery at each of the heads of departments level and at the District level.

4.3 The Total Spectrum

4.3.1. A total outlay of Rs. 343.42 crores is proposed for the period 1980-85 on various Components of the Minimum Needs Programme as under:—

| Programme | • | National Objective | National Target by 1985 | | rage targetted by -85 in Gujarat | Proposed outlay in the State Plan (Rs. in crores) |
|--|----|--|---|--------------------------------|---|---|
| 1 | | 2 | 3 | | 4 | 5 |
| Ele nentary Education | 1. | 100% enrolment in the age group 6-14 by 1990. It-would be supplemented with non-formal education. | 95% enrolment in the age group 6-11 and 50% in the age group 11-14. It would be supplemented with non-formal education. | age (Ci (ii) 709 gro | 0% enrolment in the e-group 6-11 lasses I to V) % enrolment at the age out 11-14 lasses VI to VIII) | 35.60 |
| | 2. | 100% coverage of adults in the age group 15-35 by 1990 through non-formal education | Target not fixed. | | cover 35.30 lakh ult illeterates. | |
| Rural Heelth | 1. | One Community Health Volunteer for a population of 1000 or a village by 1990. | To increase the number of Community Health Volunteers from 1.40 lakh as on 1st April, 1980 to 3.60 lakhs. | | 000 Cemmunity Helth orkors | * |
| | 2. | Establishment of one sub-centre for a population of 5000 in plains and 3000 in tribal and hilly areas by 2000 A.D. | To increase the number of sub-centres from 50,000 to 90,000 for 75% achievement of the objective. | of s | increase the number sub-centres from 2500 3400 | 20.00 |
| | 3. | One PHC for 30,000 population in plains and 20,000 in tribal and hilly areas by 2000 A.D. | To establish 600 additional PHCs and 1000 SHCs over and above 5400 PHCs and 1000 SHCs existing now for achieving about 45% of the number required. | | increase the number P. H. Cs. from 251 to 76 | 20.09 |
| | 4. | Establishment of One Community Health Cen- tre for a population of one lakh or one C. D. Block by 2000 A. D. | To establish 174 Community Health Centres, in addition to converting existing 430 upgraded PHCs into Community Health Centres. | tre- to | nmunity Health Cen- additional 5 P. H. Cs. be upgraded raising total number to 16. | |
| Rural Water Supply | | | Coverage of all the remaining problem villages by 1985 excepting in some difficult areas like hilly and desert regions. | ' No | the remaining 5086 Source' villages to covered. | 65.00 |
| Rural Rosis | | Linking up of all remaining villages with a population of of 1500 and above and 50% of the total number of villages | To cover about 50% of the total number of villages required to be covered to achieve the objective i.e. | ain | cover 1223 all the reming villages with po puon of 1500 and above. | 166.59 |
| | | with population of 1000-1500 by 1990. | additional about 20,000 villages. | | Villages in the popu- ion range of 1000-1500. | J |
| Racal Restrictantion | | At least 30% of the villages in each State and Union Territory to be electrified by 1990. | 40% of the villages required to be covered to achieve the objective i.e. additional 46,464 to be electrified. | 740 | cover all the remaining 8 Villages, thus achie- g 100% coverage. | 3.64 (of the tota outlay of Rs. 80.2 crores provided in the State Plan) |
| Horsing Assistance to raral Lan iless Labourers. | | Provision of housing assistance to all landless labour households by 1990. Assistance to include house-site construction materials, drinking water well for a cluster of houses and approach road. | To cover all the remaining households for allotment of house-sites and 25% of the eligible households i. e. about 3.6 million for provision of assistance for construction of houses. | lak ing (ii) Ho rea lak to add | ots already alloted 4.25 hs. To cover all remain- eligible families. ousing assistance al- dy provided to 1.12 ch allottees. Proposed provide assistance to litional 3.12 lakh alloses for construction of all durable pueca house | 30.85 |

| 1 | 2 | 3 | 4 | 5 |
|--|--|---|--|--------|
| Environmental Improvement of urban slums | 100% coverage of urban slum population by 1990. Facilities to include water supply, sewerage, paving of streets, storm water drains, community latrines. Areas inbabited by Sheduled Castes particularly seavengers would be given priority. | 40% of the remaining slum population i. e. additional 10 million slum population to be covered. | To cover Slum population of about 3.3 lakhs. | 5.00 |
| Nutrition | | SNP: 5 million children in 600 ICDS blocks and 5 lakh women to be covered by providing integrated services of feeding, Health, welfare, etc. | 4 lakh beneficiaries under SNP. | 16.65 |
| | | MDM: The existing level of beneficiaries i.e. about 17.4 million Children to be continued in the Nutrition integrated programme with other essential services | 4.25 lakh beneficiaries under M. D. M. | 10,00 |
| | | | TOTAL | 343.42 |

4.3.2.. The outlay proposed constitutes a substantial increase over the level of expenditure of about Rs. 44 crores during the Fifth Plan 1974-78 and the outlay of Rs. 211 crores for the Five Year

Plan 1978-83. This will be a decisive step toward extending the benefits of the Plan to the poor and the less privileged sections of the society.

CHAPTER V.

PROGRAMMES FOR THE DEVELOPMENT OF BACKWARD AREAS AND THE WEAKER SECTIONS OF THE SOCIETY

5.1. Introductory;

- 5.1.1. Reduction of the disparities in the levels of development as between different areas and different sections of the society is an important objective of planning. In the case of the less developed areas, appropriate growth strategies have to be evolved based on the identification of the lead sector of development, which in turn, is related to agroclaimatic conditions, natural resources endowments and techno-economic and social constraints. Equally important is the provision of welfare schemes meant to cater to the backward classes and vulenrable sections of the society such as the small and marginal farmers, land less agricultural labourers and rural artisans etc. It would be necessary to evolve specific programmes aiming at the welfare of these groups on the basis of a proper identification of their levels of development and the socpe for raising their living standards by way of income supplementation through fruitful economic activities. Efforts in the past at improving the economy of the backward areas and the levels of the living of the weaker sections have no doubt yielded results but the pace of progress has not been sufficiently fast nor has the spread of benefits been even.
- 5.1.2. The Planning Commission has set up a National Committee on the Development of Backward Areas under the Chairmanship of Shri B. Sivaraman, ex. Member, Planning Commission, to formulate appropriate strategy/stretegies for effectively tackling the problems of backward areas. The Committees' report is awaited.
- 5.1.3. So far as the backward areas are concerned. each such area poses a unique problem based on combination of various factor. Therefore the development of such areas becomes a complex exercise in spatial planning. The adoption of a suitable lostrategy based on a proper diagcationspecific nosis of the causes of backwardness and the assessment of the potential for development in each area. therefore, becomes an essential prerequisite. So far, special programmes have been initiated for speeding up the pace of development of mainly the tribal area and Drought Prone tracts. The Central Scheme for industrially backward districts provided for concessional finance from the financial institutions and cash subsidy subject to prescribed ceiling for dustries in selected districts. The plan for the period 1980-85 not only provides for accelerating the implementation of Tribal Area Sub-Plan and the Drought Prone Area Programme but also provides for new programmes like National Rural Employment Programme, reoriented Intagrated Rural Development Programme, Minimum Needs Programme and District Plans for Social Inputs. All such programmes will not only help in speeding up the Progress in backward areas but will also help considerably in the upgradation of the levels of living of the weaker sections of the society.

5.1.4. Gujarat has a large population of backward classess, the scheduled castes and the scheduled tribes constitute respectively 7% and 14% of the total population. The population of nomadic and denotified tribes is estimated around 7 lakhs. In addition, the State has a large number of the economically backward classes; apart from the small and marginal farmers, landless agricultural labourers constituting vast segments of the rural poor, who need special attention. The problems of the urban slum dwellers and the urban poor in general also demand special consideration. Specific programmes initiated for the welfare of distinct sections of the underprivileged groups have been under implementation having regard to the needs of individual sections. Mention may be made of the programmes for the scheduled castes and scheduled tribes, the special programmes for the small and marginal farmers and a variety of social welfare measures aimed generally at the weaker sections. Apart from continuing such programmes, the plan for 1980-85 provides for several new programmes for improving the socio-economic condition of weaker sections. The principal amongst them are 20 Point Economic Programme, setting up of Rural Workers Welfare Board, Financial Assistance for the maintenance of old aged Agricultural labourers, social inputs pogrammes for women and children housing for rural poor as well as the integrated rural development programme which is designed to help large segments of the poor. The programmes for the socially and educationally backward classes and the economically backward classes, as well as disabled persons have also been proposed Another significant step is the acceleration of special component plan for the scheduled castes. The new thrust on employment generation would not only increase the tempo of economic activities in backward areas but would also bring about a rise in the income level of the backward and the weaker sections of the people. Apart from the expansion of the employment generating programmes like minor irrigation, husbandry and dairy, soil conservation, afforestations and roads, the Plan 1980-85 provides for other new also. All such programmes aim at programmes upgrading of the levels of social consumption of the poor and increasing their income.

House hold Approach:

- 5.1.5. The State Government is introducing the family based programme for removal of poverty and providing social in puts to the persons living below poverty line. Essentially, the household based programme is not a new scheme, but a combination of various schemes or activities already been performed by the integrated Rural Development Agency, the District Industries Centre, the ITI, etc. what is new about the programme is—
 - (i) that the programme concentrates on the household as the unit;

- (ii) has a definite orientation towards raising the household income above the poverty line;
- (iii) is a time-bound programme with annual targets for the number of beneficiaries to be covered;
- (iv) Besides income generating activities, the programme covers social inputs to the identified areas, such as family welfarer, immunisation and in case of landless labourers, housing etc.,

The beneficiaries in this scheme will be mainly covered under the following programmes:—

- (1) Integrated Rural Development Programme;
- (2) National Rural Employment Programme;
- (3) Special Component Programmes for Scheduled Castes and Tribal Areas Sub-Plan;
- (4) Housesites and housing assistance for landless labourers.
- 5.1.6. The major thrust of the programme for 1989-85 will, in the circumstances, have to be on an optimal programme mix that will, on the one hand assimilate the gains achieved through the programmes under implementation so far and cover new ground in relation to specific needs.
- 5.1.7. The main programmes benefitting the the backward areas and the weaker sections have been summarised below.

5.2 Tribal Areas:

- 5.2.1. The centrally sponsored Tribal Development Block programme was under implementation in the State for a long time. There were 53 blocks at the end of the Fourth Plan. In persuance of the national policy of evolving an intergrated development programme for the tribal areas, the State formulated Tribal Area Sub-Plan and initiated its implementation substantially in the year 1976-77.
- 5.2.2. The tribal area sub-plan of the State covers 32 talukas with a majority of the tribal population. In addition 15 pockets of tribal concentration have been also included in the Sub-Plan. The list of the 32 talukas and 15 pockets is given in Appendix 'A'. The tribal area is situated mainly on the eastern hilly belt of the State, spread over eight districts, Dangs, Valsad, Surat, Bharuch, Vadodara, Panch-Mahals, SabarKantha and BanasKantha. The total area covered under the sub-plan is 27189 sq.kms. constituting 13.89 per cent of the total area of the State. The Tribal population of the sub-plan area-is 30 lakhs which is 68.18 per cent of the total population of the sub-plan are and 81 percent of the total tirbal population of the State.

- 5.2.3. The long term objectives of the Tribal Area Sub-Plan are :—
 - (1) To narrow the gaps between the level of development of the tribal and other areas of the State;
 - (2) To improve the quality of life of the tribal community;
 - (3) To tackle important socio-economic problems facing the tribal people.
- These objectives have guided the formulation of the Sub-Plan for 1980-85. Elimination of exploitation in all forms and speeding up of the process of socio-economic development are the focie of the plan. Steps have been taken continuously to save the tribals from exploitation in the spheres of land alienations, forest labour and in securing their essential consumption needs. It is proposed to consolidate during the Sixth Flan the gains of the protective measures initiated earlier. Bridging the gaps in the levels of development of the tribals through programmes capable of generating additinal incomes is another aspect of the upliftment of the tribal population.
- 5.2.6. The programmes at the field level under the sub-plan have been in operation only since 1976-77 It is, therefore, proposed generally to adhere to the priorities and strategies of the Sub-Plan which have been evolved only recently. Production oriented programmes and infrastructure development will continue to receive emphasis and the generation of larger employment opportunities will be accorded priority attention. The spread of social services in the tribal areas during the Fifth Plan had not been optimal and it is therefore proposed to assign considerable importance to the social services in the Sub-Plan 1980-85.
- 5.2.7. The Sub-Plan outlay for 1980-85 comprises of four elements (I) flow of funds from the State Plan sectors (2) special central assistance (3) programmes of central ministries and (4) institutional finance. The bulk of the programmes in the Sub-Plan are funded under the State Plan. Having regard to the high proportion of the tribal population in the State, the larger area covered by the Sub-Plan, the low levels of development of the tribal area and people and the need for mounting a massive effort for the upliftment in accordance with the development strategy, an outlay of Rs. 459.65 crores will flow to the Tribal Sub-Plan from the State Plan outlay of Rs. 3760.00 crores which is more than 14% of the State's outlay. This is expected to be supplemented by special central assistance as well as other central programmes of the Central Ministries and institutional finance. A broad sectoral breakup of the proposed

outlay of the State flow is given in the following table:—

(Rs. in crores)

| Sr. No. | Major Head of Development 2 | Flow From State Plan 3 |
|-------------|-----------------------------------|------------------------------|
| 1. | Agriculture and Allied Programmes | |
| | including Community Development, | |
| | Panchayats and Special Programme | s 129.74 |
| 2. | Co-operation | 8.57 |
| .3 . | Water Development | 91.28 |
| -4. | Power | 35.21 |
| 5. | Industries | 25.53 |
| 6. | Transport and Communications | 60.11 |
| 7. | Social and Community Services | 108.21 |
| -8. | Economic Services | 1.00 |
| | Total | 459.65 |

- 5.2.7. Bulk of outlay flowing from the State Sector is proposed to be provided for agricultural and allied programmes, water development, reads and social services, more particularly education and health. Schemes have been provided also for the primitive groups. Specific attention will be paid to the needs of the scattered triabal population residing outside the sub-plan area through suitable schemes in the general plan.
- 5.2.8. Within the outlay for the Sub-Plan a nucleus budget is also sanctioned every yaear which is placed at the disposal of the Project Administrator. This is being done in order to meet the specific local requirements of the project areas. The system of providing a nucleus budget will be continued during the plan period 1930-85.
- 5.2.9. Special projects for the welfre of tribals have been prepared to attract substantial institutional finance from the public sector undertakings, banks etc. Substantial institutional Finance is expected for implementation of programmes under Agriculture supporting services, cooperation and industries.
- 5.2.10. The State has already set up a Tribal Dovelopmont Corporation in October, 1972 to participate actively in the process of promoting the economic well being of the tribals. According to provisions of the Act, the State Government has to provide capital contribution and grant towards administrative exponditure. Adequate provision is proposed in the State Plan 1930-85. The Corporation provides soft loans cooppratives and share loans. A few schemes, portaining to cooperation, social welfare and cotttage and small industries aiming at tribal welfare have been transferred to the Corporation. The Corporation has also initiated the scheme for differential rate of interest. Under this scheme about 32,000 families have been benefitted till 1979-80. Various advanced additional loan of Rs. have 4.41 crores under this scheme for helping Supple-

mentary occupations. The activities of this corporation are proposed to be accelerated.

5.2.11. A number of measures for saving the tribals from the exploitation of vested interest are being taken. The plan also provides for a scheme like protection against unauthorised alienation of land held by tribals. Mention may also be made of the scheme for grant of subsidy for payment of interest on loans obtained from land development banks for purchase of occupancy rights under B.T. and A.L. Act, 1958. In the Sixth Five Year Plan target group oriented approach will be adopted for raising income level of the tribals living below the poverty line and number of measures have been proposed for the upliftment and welfare of the tribals.

5.3. Drought Prone Area Programme.

- 5.3.1. Scarcity is a recurrent feature of the Agricultural economy of the State. The National Irrigation Commission has identified 58 talukas in the State as drought prone. The Drought Prone Area Programme coveres 41 talukas in ten districts namely Amreli, Bhavnagar, Jamnagar, Banas Knatha, Ahmedabad, Kachchh, Mahesana, Panchmahals, Rajkot and Surendranagar (Appendix B). These talukas cover a total area of 52202 sq.km. which is 28.2% of the total area of the State and a population of 47.46 lakhs which is 17.8% of the total population of the State.
- 5.3.2. Stress under this programme is on intedevelopment to restore ecological balance to stabilise the agriculture base by the optimal utilisation of the land and water resources in the area and the development of supplementary occuaptions which are not entirely dependent on rainfall, soil and moisture conservation, restructuring of cropping pattern and pasture development and change in agronomic structure etc. are the other elements of the programme. The ultimate objective is to reduce through appropriate investment and technology, the severity of droughts and create a long term stable base for productive employment. A total outlay of Rs. 30.75 crores is proposed for the period 1930-85 for this programme to be shared between the Centre and the State.
- 5.3.3. Under this programme, it is proposed to cover 19289 hectares of land under minor and ground water irrigation, soil conservation in 18525 hectares, afforatation in 21045 hectares and soil and moisture conservation in 500 hectares. Besides, 2680 hectares will be covered under grass land development. It is also proposed to complete two drinking water supply scheme in these areas. 435 milk cooperative societies and 80 poultry units will be assisted under the programme. It is also proposed to provide financial assistance to 350 cooperative societies and about 11,000 small and marginal farmers under the programme during the plan 1980-85.

5.3.4. The State has vast areas having desert characteristics. Most of the desert areas are also border areas. A pilot project for development of desert areas has been initiated in selected talukas. In Gujarat, 11 talukas of the State viz. Sami and Hurij of Muhesana District, Lukhpat, Abdasa and Nakhutrana of Kachehh District and Kankrej, Vav, Tharad, Rudhanpur, Palanpur and Deodar talukas of Bunas Kantha District are covered by the project. The programme is sponsored and assisted by the Government of India. An outlay of Rs. 4.12 crores is provided for 1980-35 as the State's share. The programmes like ground water development, fodder development, afforestation, rural electrification, etc. are proposed to be undertaken for the development of desert areas under this project.

5.3.5. It is also proposed to expand the infrastructural facilities in the drought prone and desert areas as a necessary pro-condition for their development. Due priority is proposed to be given in the relevant sectors of the plan for the extension of infrastructural facilities to these areas.

5.4. Coastal Areas :

5.4.1. The State has a long coastline of around 1600 kms. The areas adjoining the coastline suffer from the problems of salinity ingress, resulting in permanent damage to agriculturural land and accenturting the problems of drinking water supply. Several Coastal areas also suffer from infrastructural and other deficiencies which come in the way of rapid development of these areas. There is also problem of water pollution. Thus, some of the problems of the coastal area call for specific attention. A programme of development of Khar lands is in operation. Another programme of prevention of salinity ingress in certain parts of Saurashtra where the problem has become very acute, has also been initiated and significant provision is made for attending to urgent works on the basis of a comprehensive plan formulated by a high level committee. In addition, a separate Working Group was also entrusted with the task of studying the various problems of coastal areas and deficiencies in the development and making suitable recommendations for accelereting the tempo of development in the needed direction. The report of the working group has been received and it is expected to be considered by the State Planning Board.

5.5. Industrially Backward Areas:

5.5.1. Ten districts (1) Amreli, (2) Banaskantha, (3) Bhavnagar, (4) Bharuch, (5) Junagadh,

(6) Kachchh, (7) Panchmahals, (8) Mehsana, (9) Sabarkantha and (10) Surendranagar have been declared by the Government of India as industrially backward for the purpose of concessional finance from financial institutions. Three of these districts, Surendranagar, Panchmahals, and Bharuch have been declared eligible for the central cash subsidy. Industries in these districts receive special benefits in respect of liberal finance on concessional terms for procuring developed plots/built up sheds, special rates in respect of purchase of machinery on hire purchase, preferential treatment for allotment of scarce and imported materials etc.

5.5.2. The Policy of location of industries as now adopted by the State Government not only Seeks to check the indiscriminate growth of industries in large urban complexes but is designed to encourage their dispersal in the rural and less developed areas. The basic objectives of the development of industrially backward areas have been kept at the centre of attention. Efforts are being made to divert the flow of resources so as to pull the industries for the development of backward areas. In the case of G.S.F.C., of the total assistance of Rs. 230 crores envisaged for the Sixth Five Year Plan as much as Rs 127 crores is expected to flow in backward areas. A further fillip to backward area development would be achieved through the New Incentive Scheme under which, the capital subsidy and sales tax benefits on liberal scale would be offered to industries to be set up in rural and backward areas so as to compensate them for economic burden and handicaps, such units have to bear, Under new scheme Sales tax exemption or Sales tax deferment will be allowed on a liberal scale to industrial units being set up away fron Metropolitan areas and large cities. The more backward a location, the larger will be the quantum of assistance quantum of assistance available. Adequate provision is proposed to be made in the Sixth Plan so that the trend of industries to be set up in backward areas is accelerated and paucity of resources does not in any way throttle the working of this effective instrument of backward area development. The package of incentives in the form of cash subsidy, sales tax exemption and interest free loan to new industries set up and commissioned after 1st November, 1977 are proposed to be continued and expanded during the period of Sixth Five Year Plan. G.I.I.C. has adopted the policy of locating its various projects in the backward areas of the State. Out of six projects already commissioned four are located in backward areas with a total investment of about Rs. 24 crores. The projects planned by G.I.I.C. will also have some plants in the backward regions. G.I.D.C. has adopted the policy of the decentralisation of industrial growth through the setting up of industrial estates. Out of 109 different locations in the State 53 i.e., 49% are located in backward areas. Durig the last three years, the development expenditure G.I.D.C. in backward areas has been raised to about 35%. It is also proposed to set up work shops in rural and backward areas during the Sixth Five Year Plan. G.I.D.C. has proposed an outlay of Rs. 60 lakhs for undertaking schemes for developing infrastructural facilities in rural and backward areas 17 District Industries Centres have started functioning in the State according to the new industrial policy of the Central Government. An outlay of Rs. 160 lakhs for the Sixth Five Year Plan 1980-85 has been proposed for undertaking intensive drive to industrialise the rural and backward areas. The State Government has introduced a scheme of cash subsidy and has adopted the concept of "growth centre". Since, the inception of the scheme, 5527 units have been registered till 31st March, 1980. Out of these units, 2647 units have been sanctioned subsidy of Rs. 10.40 The total investment in fixed assets is of the order of Rs. 81.49 crores, The State public undertakings viz., G.S.F.C., G.I.D.C., G.I.I.C., etc. will continue to play a significant role in the promotion of industrial development in the backward areas.

5.5.3. The Khadi and Village industries Programme is being expanded considerably. This includes the setting up of a number of Ambar Charkhas Parishramalayas and gramedyog wadies. This programme together with other programme of cottage industries will make significant contribution to the development of rural industries in the State including the backward areas. The new thrust on development and spread of industries in the rural and backward areas of the State will also result in generation of large employment opportunities and help improving the income levels of the poor. An outlay of Rs. 14.50 crores for 1980-85 has been propesed for the puspose.

5.6. National Rural Employment Programme :--

5.6.1. The National Rural Employment Programme has been introduced in Sixth Five Year Plan by replacing the food for work scheme. The objectives of the programmes are (i) generation of additional gainful employment for the unemployed and under employed persons in the rural areas, (ii) creation of durable community assets for strengthening the rural infrastructure which will lead to rapid growth of rural economy and steady rise in the income levels of the rural peor and (iii) improvement of the nutritional status and the living standard of the rural people. Under this new programme, Central Government will make available foodgrains free of charges and cash grants in the

ratio of 2:1. The foodgrains will be distributed to the labourers as a part payment of wages while the cash component will be utilised for the purchase of materials for the works to be undertaken. The value of foodgrains and cash component will be approximately 50% of the total cost of the scheme. The State is expected to provide remaining 50% as matching provision for the Programme. During the period 1980-85, an outlay of Rs. 4500 lakhs is provided in the State Plan. An equal amount will be made available by the centre as its share. The works of local importance in accordance with the objectives of the Programme are proposed to be undertaken and employment of 975 lakh mandays is expected to be generated during 1980-85.

5.7. Integrated Rural Development:-

5.7.1. A new programme for intensive development of blocks under the programme for "Integrated Rural Development" has been launched in the State since 1978-79. From 2nd October, 1980, the entire State comprising of 218 blocks stands covered under this programme. Integrated Rural Development Programme mainly aims at creating productive assets for the rural poor to help them to increase their level of incomes and to bring them above poverty line. Originally this programme was started from the last quarter of the year 1978-79 as a fully central scetor programme. Thereafter from the year 1979-80 and onwards the pattern of financial assistance for this programme has been charged to 50:50 as central and State share during the Sixth Five Year Plan, This pattern will be continued. Each block of the State will be allotted Rs. 5.00 lakes to be shared equally by the State and the Centre. Two other programmes., namely S.F.D.A. and S.F.A.L. are merged with Integrated Rural Development Programme. During the period 1980-85 an outlay of Rs. 3815 lakhs is provided in the State Plan. An equal amount will be shared by the Centre. The Programme will benefit about 5.50 lakhs identified families.

5.8. Accelerated Development of Backward Talukas:--

5.8.1. Special Programme is being implemented at present for the relatively more backward talukas for taking up specified categories of small works of local importance. A special provision of Rs. 50 lakhs is being made every year at the rate of Rs. 2.00 lakhs per taluka for 25 talukas. (Appendix-C) The amount is being placed at the disposal of the concerned District Panchayats as grant-in-aid for undertaking essential works in these talukas having due regard to the local needs under the specified programmes namely roads, minor irrigation, primary education, primary health facilities and rural water supply. An outlay of Rs. 250.00 lakhs is provided for the period of Sixth Five Year Plan 1980-85.

5.9. Labour Welfare :-

5.9.1. Rural Labour Welfare Board for Agricultural and rural Workers: It is Proposed to establish a Rural Welfare Board as an apex body at State level and district labour welfare boards at district level. The purpose of establishment of such board is to start various welfare activities such as educational recreational, cultural etc. through the welfare centres for the upliftment of agricultural and rural workers. An outlay of Rs. 60.00 lakhs is provided for the purpose for the period of Sixth Five Year Plan 1980-85.

5.9.2. Financial assistance for the maintenance of old age Agricultural labourers: The landless agricultural labourers are the most under privileged and malnourished section of the population. They face problems of unemployment. Low and uncertain income and nutritional deficiencies. There is no certainity of getting work excepting during the season that too for few days only. Most of them live in debt. On ataining the age of 60, they will have no physical capacity to do gainful manual work. It is therefore proposed to provide financial assistance to support such agricultural labourers. A provision of Rs. 85.00 lakhs is made during the Sixth Five Year Plan period 1980-85.

5.9.3. The implementation of Gujarat unprotected mannual workers Act 1979 has been brought into force. According to the provision of this act, it is proposed to constitute a statutory Board for the regulation of employment and welfare of unprotected workers. An outlay of Rs. 23.00 lakhs is provided for the Period 1980-85. Measures are also proposed to be taken for the welfare of migrant labour.

5.10. Rural Artisans.

5.10.1. It is essential to upgrade existing skill and develop new skills among traditional artisans. The needs of changing times necessitate entification of suitable technology and provide help to the artisans to acquire the same. The aim is to tie up effectively the training programe with the local requirements. It is proposed to suitably expand the exising programme wherever necessary. The State has facilities for the formulation of skills through different schemes and institutions viz., apprentice scheme, vocational and technical education schemes. ITIs and mini ITIs, courses run by the Directorate of the Cottage Industtries, etc. It is proposed to provide training facilities through private training institutions and will also play However with a vital role. theestablishment of big and medium industries and around 43,000 SSI for skilled and semiunits in the State, the demand skilled workers is expected to be of the order of 50,000 persons per year. Provision has been made for undertaking different programmes of skill formation and training.

5.10.2. Under the programme of financial assistance to artisans, it is envisaged to give loans to individuals at a lower rate of interest for purchase of raw materials and tools and equipments, for starting their business. The artisans belonging to scheduled castes and cheduled tribe will get the financial assistance at concessional rate of interest through the Scheduled Castes Economic Development Corporaration and Tribal Development Corporation. Besides benefit of the differential rate of interest on loan will be made available to all eligible artisans. An outlay of Rs. 220 lakhs has been proposed in the Sixth Plan and it is expected that 70,000 artisans and self employed persons will be benefitted.

5.11. Welfare of Backward Classes (SCs, STs, NTs, and DNTs)

5.11.1. A sizeable provision is being made for the supplementary sector of welfare of backward classes i.e. se heduled castes, scheduled tribes and denotified tribes. Several new schemes are also in cluded in the backward class welfare sub sector in the plan 1980-85. Programes in this sub-sector fall under three main groups viz. education, economic uplift and health, housing and other schemes. An outlay of Rs. 80 crores is provided under the State Plan. This is expected to be supplemented by the Government of India substantially. In the implementation of the schemes, preference will be given to land'ess. labourers and most vulnerable sections amongst the. backward classes. Apart from the Scheduled Tribe: Development Corporation which was set up earlier, the State Government has set up Seheduled Castes Economic Development Corporation in 1975 under the Societies Registration Act, 1960. The main objectives of this Corporation are to achieve economic amelioration to identify the problems of economic backwardness and to implement schemes for benefit of scheduled Castes either directly or through agencies. The Corporation has initiated the implementation of schemes aiming at the welfare of the schedules castes workers.

5.11.2. Special Component Plan for Scheduled Castes.

The Tribal Area Sub-Plan is being regularly formulated and implemented since 1976-77. A significant step is towards the formulation of a Special Component plan for the Scheduled Castes within the State Plan Frame. This envisages identification of schemes under various sectors of development which would be of benefit to the scheduled castes, quantification of funds from the suitable divisible schemes under relevant sectors and determination of specific targets in terms of the number of families or individuals who would benefit from these schemes. An outlay of about Rs. 259.46 crores is accordingly provided for 1980-85 for specific schemes under various. sectors constituting the special component plan for the scheduled castes. In addition scheduled castes will get the benefits of schemes, which are not clearly divisible.

5.12. Programme for Socially, Educationally and Economically Backward Classes.

5.12.1. The Government has accepted all the recommendations of the Socially and Educationally Backward Classes Commission (Baxi Commission) which has classified 82 castes, classes and groups as socially and educationally backward. A programme for their upliftment has been initiated since 1978-79. Government has also extended the benefits of various recommendations of the Commission except those relating to reservation in services and reservation in educational institutions to economically backward classes such as agricultural labourers, rural artisans, marginal farmers, unprotected and unorganised Jabourers and other persons who are self employed such as hand-cart pullers, small shopkeepers etc. subject to an income limit of Rs. 4800 per annum. An outlay of Rs. 17.50 crores is proposed in the plan 1980-85 for the socially and educationally backward classes and economically backward classes. An outlay of Rs. 2.50 crores has also been proposed for the welfare of minority communities.

5.13. Minimum Needs Programme.

5.13.1. Minimum Needs Programme launched in the Fifth Plan was envisaged for the allocation of adequate resources for programmes aiming at the upgradation of levels of social consumption of the poor covering elementry education, rural bealth. drinking water supply, rural roads, rural electrification, house sites for rural landless labourers and environmental improvement of slums in the urban areas. The programme had aimed at establishing a net work of certain essential services based on the criteria of uniformity and equality throughout the country. These programmes have been continued during the period of Sixth Five Year Plan 1980-85. The State Government has decided to implement very effectively the Minimum Needs Programme. Apart from providing essential infrastructural and welfare services to the weaker sections of the population, the Minimum Needs Programme is also labour intensive and can create substantial additional employment. Considerable attention is to be given both to locational aspects of these basic services and their integration so as to confer optimal benefits on the target group. The Sixth Plan envisages to accelerate the implemention of the .programme.

5.13.2. An outlay of Rs. 343.42 crores is proposed for the Minimum Needs Programme for the period 1980-85. The norms for the country for the Minimum Needs Programmes for Elementary Education' is to achieve 95 percent enrolment in the age group 6-11 and 50 percent in the age group 11-14 by 1985. The State having attained higher level of enrolment aims to achieve the enrolment of 110 percent in the age group 6-11 (Classes

I to V) and 70.29 percent in the age group 11-14 (Classes VI to VIII) by the end of Sixth Plan 1984-85. As regards "Rural Health", the norms set up for the country is one PHC for 30,000 in plains and 20,000 in Tribal and hill areas and one sub-centre for a population of 5000 in plains and 3000 in tribal and hill areas by 2000 A.D. In addition, it is also envisaged to have community health volunteer for a population of 1000 or a village by 1990 and establishment of one community health centre for a population of one lakh or one C.D. Block by 2000 A.D. There are 251 Primary Health Centres and as result of the various programme under the health, family welfare, Minimum Needs Programme and multi purpose workers schemes, in all 2500 sub-centres are functioning in the State at the end of 1979-80. During 1980-85, it is envisaged to and 25 establish additional 900 $\mathbf{sub}\text{-}\mathbf{centres}$ PHCs. It is also envisaged to upgrade five Primary health centres into 30 bedded hospitals during 1980-85. Under Rural Water Supply Programme, out of 18275 villages in the State, 9600 villages have been categoried as having "No Source" of drinking water supply by June 1977. Till 1979-80, 4514 villages have been covered. All the remaining 5086 villages likely to be covered by 1980-85. As regards 'Rural Roads" the norms set by the Government of India is to provide road links to all villages with a population of 1500 and above and 50 percent coverage of villages with a population of 1000 to 1500. Out of 3664 villages of the first category, 2441 villages have been connected by pucca all weather roads and out of 2964 villages of the second category 1402 villages have been connected by pucca roads by the end of 1979-80. The Government aims at achieving the norms of this programme fully at the end of Sixth Plan 1984-85. Under the Rural Electrification Programme, in Gujarat out of 18275 villages, 10867 villages have been electrified till March, 1980. 1500 Villages are likely to be electrified during 1980-81, raising the total number of electrified to 12367 villages by the end of 1980-81. It is proposed to achieve 100 percent village electrification by the end of 1984-85. The Minimum Needs Programme aims at the provision of housesites and housing assistance to all rural landless labour households. 4.25 lakh plots have been alloted till 31st December 1980. The scheme in respect of housing assistance has been reoriented and liberal provisions have been made. At the end of 1979-80 construction works of 1,11,866 houses were completed. It is proposed to provide assistance towards construction of 3.12 lakh houses during the Sixth Five Year Plan 1980-85. The Environmental Improvement programme in the Sixth Plan includes water supply, sewerage, paving of the streets and provision for the community latrines in the urban slums. By 1979-80, 149338 slum population have been covered. It is targeted to cover about 3.3 lakh beneficiaries during 1980-85. Under Minimum Needs Programme, 'Nutrition' covers two schemes namely, the Supplementary Nutrition Programme and Midday Meal Programme. At the end of March 1980, the beneficiaries covered under the SNP and MDM are 7.70 lakhs and 4.28 lakhs respectively. Additional likely beneficiaries to be covered are 4 lakh under SNP and 4.25 lakhs under MDM during 1980-85.

5.14 Housing for the Weaker Sections.

5.14.1. In addition to the scheme for assisting the beneficiaries of the programme of free house site plots and the scheme for environmental improvement of slum areas provided under the Minimum Needs Programme, other housing schemes are also proposed outside the Minimum Needs Programme for low income groups and economically weaker sections both in urban and rural areas. Provision is made to enable the Gujarat Housing Board to take up housing programme for the economically weaker sections and low income groups on a larger scale. The slum clearance board will also play a significant role in the sphere assigned to it. Under the site and services scheme, the minimum structure is proposed to be provided and the beneficiaries will themselves gralually improve the quality of the accommodation through their own efforts. A new scheme for economically weaker section in rural areas with HUDCO participation has also been proposed. Adequate outlay is proposed for the low income group housing scheme already under implementation in the rural areas. It is also proposed to provide assistance for the improvement of houses in rural areas particularly to weaker sections of the society.

5.15. District Plans for Social inputs.

5.15.1. As a part of the basic minimum needs approach and with women and children as a focal point, the State Government proposes to formulate district plans for social inputs with the assistance of UNICEF in nine districts of the state viz. Valsad, Surat, Vadodara, Bharuch, Panchmahals, Sabarkantha, Surendranagar, Junagadh ar d Kachehh. Meaningful programmes have been formulated for reducing child and materinal mortality among the families below poverty line in these talukas which are proposed to be covered under this programme. An outlay of Rs. 500 lakhs has been provided for the Sixth Five Year Plan 1980-85.

5.16. Education and Welfare of Physically Handicapped.

5.16.1 Various activities for the education, training and rehabilitation of the physically handicapped persons such as blind, deaf and dumb and orthopeadically handicapped are carried out in the State. Grants are also paid to voluntary agencies for carrying out such activities. The programme is proposed to be continued on an expanded scale during the period of Sixth Five Year Plan 1980-85.

5.17. Rehabilitation of Beggars.

5.17.1. Till now Receiving Centres for beggars had been established mainly in major cities viz., Ahmedabad, Vadodara and Surat. It is proposed to start Receiving-Cum-Detention Centres in a few other cities and pilgrim centres during the period of Sixth Five Year Plan 1980-85.

APPENDIX—A.

List of Talukas covered under Tribal Area Sub:Plan

| Sr. No | Name of | Taluka | Name of District | Sr. N | To. Name of | Taluka | Name of Distric |
|---------------------|--|--|--|---------------------------|--|--|---|
| 1 | 2 | | 3 | 1 | 2 | | 3 |
| 1 | Vijayanagar | | Sabarkantha | 17 | Jhagadia | | Bharuch |
| 2 | Khedbrahma | | Sabarkantha | 18 | Uchchhal | | Surat |
| 3 | Bhiloda | | Sabarkantha | 19 | Vyara | | Surat |
| 4 | $\mathbf{Meghraj}$ | | Sabarkantha | 20 | Mahuva | | Surat |
| 5 | Jhalod | | Panch Mahals | 21 | Mandvi | | Surat |
| 6 | Dahod | | Panch Mahals | 22 | Nizar | | Surat |
| 7 | Santrampur | | Panch Mahals | 23 | Songadh | | Surat |
| 8 | Limkheda | | Panch Mahals | 24 | Valod | | Surat |
| 9 | Devegadhbaria | | Panch Mahals | 25 | Mangrol | | Surat |
| 10 | Chhotaudepur | | Vadodara | 26 | Bardoli | | Surat |
| 11 | Naswadi | | Vadodara | 27 | Dharampur | | Valsad |
| 12 | Tilakwada | | Vadodara | 28 | Bansada | | Valsad |
| 13 | Dediapada | | Bharuch | 29 | Chikhali | | Valsad |
| 14 | Sagbara | | Bharuch | 30 | Pardi | | Valsad |
| 15 | Valia | | Bharuch | 31 | Umbergaon | | Valsad |
| - 4 | 37 1 1 | | Th) | _ | - | | - |
| 16 | Nandod | | Bharuch | 32 | Dangs | | Dangs |
| | - | Tribal Pocke Name of Taluka | ts covered under Tr Name of District | ribal Are | a Sub-Plan in ad | Name of | lukas. Name of |
| | List of | Name of | is covered under Tr | ribal Are | a Sub-Plan in ad | Name of | lukas. |
| Sr. No. | List of Name of Tribal Pocket | Name of Taluka | ts covered under Tr Name of District | Sr. | a Sub-Plan in ad Name of Tribal Pocket | Name of Taluka | Name of District |
| Sr. No. | List of Name of Tribal Pocket | Name of Taluka | Name of District | Sr. No. | a Sub-Plan in ad Name of Tribal Pocket | Name of Taluka | Name of District |
| Sr. No. | Name of Tribal Pocket | Name of Taluka 3 Ankleshwar | Name of District 4 Bharuch | Sr. No. 1 9 | a Sub-Plan in ad Name of Tribal Pocket 2 Bhatpur | Name of Taluka 3 Sankheda | Name of District 4 |
| Sr. No. 1 | Name of Tribal Pocket 2 Ankleshwar Kamrej | Name of Taluka 3 Ankleshwar Kamrej | Name of District 4 Bharuch Surat | Sr. No. 1 9 | Name of Tribal Pocket 2 Bhatpur Kareli | Name of Taluka 3 Sankheda Jambugam | Name of District 4 Vadodara Vadodara Vadodara |
| Sr. No. 1 2 3 | Name of Tribal Pocket 2 Ankleshwar Kamrej Palsana | Name of Taluka 3 Ankleshwar Kamrej Palsana | Name of District Bharuch Surat Surat | Sr. No. 1 9 10 | Name of Tribal Pocket 2 Bhatpur Kareli Bhikhapura | Name of Taluka 3 Sankheda Jambugam Jabugam | Name of District 4 Vadodara Vadodara Vadodara Panch Maha |
| Sr. No. 1 2 3 4 | Name of Tribal Pocket 2 Ankleshwar Kamrej Palsana Palej | Name of Taluka 3 Ankleshwar Kamrej Palsana Gandevi | Name of District Bharuch Surat Surat Valsad | Sr. No. 1 9 10 11 | Name of Tribal Pocket 2 Bhatpur Kareli Bhikhapura Kathola | Name of Taluka 3 Sankheda Jambugam Jabugam Halol | Name of District 4 Vadodara |
| Sr. No. 1 1 2 3 4 5 | Name of Tribal Pocket 2 Ankleshwar Kamrej Palsana Palej Atgam | Name of Taluka 3 Ankleshwar Kamrej Palsana Gandevi Valsad | Name of District 4 Bharuch Surat Valsad Valsad | Sr. No. 1 9 10 11 12 13 | Name of Tribal Pocket 2 Bhatpur Kareli Bhikhapura Kathola Mora | Name of Taluka 3 Sankheda Jambugam Jabugam Halol Godhra | Name of District 4 Vadodara Vadodara Vadodara Panch Maha |

APPENDIX-B

41 Talukas covered under the Drought Prone Area Programme

| D | istrict/Talukas | District/Talukas |
|----|-----------------|------------------------|
| 1. | Ahmedabad. | 5. Rapar |
| | 1. Viramgam | 6. Bhach a u |
| | 2. Dhandhuka | 7. Anjar |
| 2. | Amreli | 7. Mahesana |
| | 1. Rajula | 1. Sami |
| | 2. Lathi | 2. Harij. |
| | 3. Dhari | 8. Panch Mahals. |
| | 4. Khambha. | 1. Godhra |
| 3. | Banaskantha | 2. Jhalod |
| | 1. Tharad | 3. Limkheda |
| | 2. Dhanera | 4. Dahod |
| | 3. Radhanpur | 5. Lunawada |
| | 4. Wav | 6. Santrampur |
| | 5. Santalpur | 7. Shehra. |
| | 6. Deodar. | 9. Rajkot. |
| 4. | Bhavanagar | 1. Jasdan |
| | 1. Gadhada. | 2. Wankaner. |
| 5. | Jamnagar | 10. Surendranagar. |
| | 1. Okha-Mandal | 1. Dasada |
| | 2. Kalyanpur. | 2. Lakhtar |
| 6. | Kachehh. | 3. Wadhwan |
| | 1. Lakhpat | 4. Muli |
| | 2. Abadasa | 5. Dhrangadhra |
| | 3. Nakhatrana | 6. Halvad |
| | 4. Bhuj | 7. Sayla 8. Limbdi. |

APPENDIX-C.

A list of 25 Backward Talukas.

| Sr. No. | Name of Taluka. | District. | Sr. No. | Name of Taluka | District |
|------------|-----------------|---------------|------------|-------------------------------------|----------------------------------|
| 1 | 2 | 3 | 1 | 2 | 3 |
| 1. | Lilia | Amreli | 14. | Dhanera | Banaskantha, |
| 2. | Jambughoda | Panch Mahals | 15. | $\mathbf{v}_{\mathbf{a}\mathbf{v}}$ | Banaskantha |
| 3. | Shehera | Panch Mahals | 16. | Deodar | Banaskantha |
| 4. | Lunawada | Panch Mahals | 17. | Tharad | Banaskantha |
| 5. | Halol | Panch Mahals | 18. | Kankrej | Banaskantha |
| 6. | Vagra | Bharuch | 19. | Sami | \mathbf{M} ahesan \mathbf{a} |
| 7. | Hansot | Bharuch | 20. | Chanasma | ${f M}{f ahesana}$ |
| 8. | Gariadhar | Bhavnagar | 21. | Balasinor | \mathbf{K} heda |
| 9. | Malpur | Sabarakantha. | 22. | Bhesan | Junagadh |
| 10. | Bayad | Sabarkantha | 23. | Jabugam | Vadodara |
| 11. | Abdasa | Kachchh | 24. | Vaghodia | $\mathbf{Vadodara}_{\bullet}$ |
| 12. | Rapar | Kachchh | 25. | Olpad | Surat. |
| 13. | Kalawad | Jamnagar | | | 10.000 |

CHAPTER-VI

EMPLOYMENT AND MANPOWER SITUATION

6.1. Dimension of the Unemployment Problem:

- 6.1.1. In the context of the accepted major plan objective of progressive removal of poverty and unemployment, it becomes imperative to look at the magnitude of the problem and the impact of the current plan on it's mitigation.
- 6.1.2. The total labour force of Gujarat is estimated to be 134.42 lakhs in 1980 and is expected to increase to 147.16 lakhs in 1985 (Statement -I).
- 6.1.3. The rural-urban composition of the labour force is assessed as below for 1980 and 1985 (Statement-I).

| | | (In '000) | |
|------|-------|--|--|
| Year | Rural | Urban | |
| 1980 | 10322 | 3120 | |
| 1985 | 11165 | 3551 | |
| | | and the same of th | |

The percentage of urban workers to total workers which is 23.21 in 1980 is likely to be 24.13 in 1985.

- 6.1.4. The percentage of literacy in Gujart based on the census of 1971 was 35.79 and the change in this percentage will be reflected when the census results for 1981 are compiled.
- 6.1.5. The industrial categorywise distribution of workers based on 1971 census was as below:—

| Sr. No. | | Percentage to total workers. |
|------------|--|------------------------------|
| 1. | Cultivators. | 43.6 |
| 2. | Agriculture labourers. | 22.7 |
| | Live stock, forestry, fishing, hunting plantation, orchards and allied activities. | 2.0 o. 4 |
| 4. | Mining and quarrying. | -34.6 - |
| 5 . | Manufacturing: | |
| | A. Household industry. | 2.8 |
| | B. Other than house-hold industry | 9.3 |
| 6. | Construction. | 1.4 |
| 7. | Trade and commerce. | 7.0 |
| 8. | Transport, storage and communica- | |
| 23. | tion. | 2.9 |
| 9. | Other Service | 8.8 |

In the category of workers there is likely to be a sizable problem of under-employment especially in the rural areas as the figures in the next paragraph would reveal. Besides, there is a problem of unemployment too and the plan would have to cater to the net addition to the labour force during the plan period.

6.1.6. Till the published figures of the labours force/ employment-unemployment surveys carried out under subsequent round of National Sample Survey are available, broad magnitude of unemployment can be known on the basis of the projections based on the result of such survey carried out in 27th round of N.S.S. As a result of such projections the following brings out the present levels of unemployment and under employment.

| | | | In lakhs. |
|-----|--------------------|-------|-----------|
| (1) | Chronic unemployed | i | 1.77 |
| (2) | Under-employed | | 7.90 |
| | | TOTAL | 9.67 |

- 6.1.7. The urban-rural break-up of the chronic unemployed was 1.15 lakhs and 0.62 lakh respectively. This means that about 65% of the chronic unemployed are in the urban areas and 35% come from the rural areas.
- 6.1.8. In the category of the under employed only 1.92 lakhs belong to the urban areas while 5.98 lakhs residing in the rural areas. This gives a percentage of 24.31 for the urban areas and 75.69 for the rural areas.
- 6.1.9. In addition, the number of those joining the labour force during the plan period has to be taken note of. According to the participation rates of the 27th round of N. S. S., the total labour force in April, 1980 works out to be about 134.42 lakhs. On the basis of labour force participation rates of the 27th round of N.S.S. the total increase for the entire sixth plan period (1980-85) would be 12.74 lakhs with the average annual increase of 2.55 lakhs during the plan period. Thus the total labour force at the end of the plan period 1984-85 would be 147.16 lakhs based on the participation rates of the 27th round of the N.S.S.
- 6.1.10. The following table gives the forecastes of new entrants to the labour force in the beginning and at the end of the plan period and the total labour force at the end of the plan period according to estimates based on the 27th round of NSS.

| | | (In lakhs) |
|------|--|----------------------|
| Item | | Based on partici- |
| | | pation rates of |
| | | the 27 th |
| | | round of |
| | | N.S.S. |
| (1) | Estimated chronic unemployed and under employed at the beginning of the plan | |
| (2) | New entrants | |
| | (i) Annual | 2.55 |
| | (ii) For plan period | 12.74 |
| (3) | Total backlog plus new entrants [1+2 (ii)] | 22.41 |
| (4) | Total labour force. | |
| | (i) In 1980 | 1 34.4 2 |
| | (ii) In 1985 | 147.16 |

Educated Unemployed

6.1.11. The data obtained from the live register of the Employment Exchanges is given in the table below:—

| · · | (Figures in '000) As on 1st April, | | | |
|--|------------------------------------|-----|------------|-----|
| - | 72 | 74 | 78 | 80 |
| Matriculates and under Graduates | 67 | 92 | 186 | 205 |
| Diploma holders | 2 | 1 | 4 | 3 |
| Graduates and Post- graduates in Arts, Science, Commerce and Law. | 15 | 20 | 4 1 | 36 |
| Graduates and Post- graduates in Technical and Professional sub- jects. | 1 | 3 | 7 | 10 |
| Total | 85 | 116 | 238 | 254 |

- 6.1.12. The data suggests that the educated unemployment has been increasing in absolute number. The percentage increased per annum comes to 25%.
- 6.1.13. It will be interesting to know that about 52% of the educated unemployed are concentrated in Ahmedabad, Vadodara, Nadiad, Mehsana and Junagadh districts.
- 6.1.14. In deriving estimates of educated unemployed based on employement exchange registrations, the application of a correction factor becomes necessary for the following reasons (i) persons on the live registers might already be employed but might not have cancelled their registration after securing employment or may keep it going in order to have better openings, (ii) some of those actually seeking jobs migt not have registered their names, (iii) many candidates register even while persuing studies in view of the long time-lag between registration and the notification of vacancies.
- 6.1.15. In the year 1970 the State Bureau of Economics and Statistics had conducted a comprehensive survey of the educated unemployed in Bharuch district covering both rural and urban areas of the district and educated job seekers registered with employment exchanges as well as those not registered with the employment exchanges. Applying the correction factor revealed by the Bharuch survey the number of candidates on the live registers of the employment exchanges would stand revised as follows:—

(in '000)

| | As on 1-4-1980. | | |
|--|----------------------------------|--|--|
| | According to live register | Revised by applying correction factor. | |
| Matriculates and under graduates | 204.8 | 224.6 | |
| Diploma holders | 3.4 | 4.3 | |
| Graduates and Post of graduates in Arts, Science Commerce and Law. Graduates and Post | 36.2 | 39.7 | |
| graduates in technical and professional subjects., | 10.0 | 11.4 | |
| | 254.4 | 280.0 | |

6.1.16. Thus, the total number of educated job seekers at the beginning of the Five Year Plan (1980-85) is estimated at 2.80 lakhs.

Note.—The survey revealed that 76% of the educated persons in urban areas not registered with the employment exchanges, were found to be employed or were studying and not seeking work, while 9 percent of those not registered with employment exchanges were found to be seeking work and the remaining 15 percent were registered with employment exchanges. The survey also showed that in the urban areas, out of those registered (15% of the educated) with the employment exchanges, 50 percent were neither studying nor employed, 18 percent were employed and prosecuting studies and 32 percent were only studying. For the rural areas the survey indicated that of the educated persons, 68 percent who were not registered with the en ployment exchanges were employed or were studying and not seeking work, 13 percent who were not registered with the employment exchanges were seeking work and the remaining 19 percent were registered with the employment exchanges. Of the persons registered with the employment exchanges, 42 percent were neither studying nor were employed. The percentage of persons employed or employed and studying among the total number of the registered was 40, whereas the percentage of persons who were only studying among the total number registered was 18. In other words the actual number of educated job seekers, both in rural and urban areas, is about 10% more than the number on the live registers.

6.1.17. While computing the additions to the ranks of the educated job seekers during the plan period it has to be remembered that not all who complete a certain stage of education would be seeking work. In fact some employed persons take up courses leading to formal educational qualifications mainly with a view to further their career prospects. A sizable proportion of women securing degrees and diplomas do not seek jobs, especially after they are married, For example, in the case of female arts graudates who responded to the Census of Degree Holders (1971) it was noticed that out, of the \geq ,841 female graduates enumerated 4003 (25.27%) were unemployed and were not seeking jobs; only 2,977 (18.79%) were looking for jobs. In the case of science graduates also 1050 (26.49%) were not seeking jobs as against 790 (19.93%) doing so out of a total of 3964. Some post-graudate courses notably in engineering and medicine are pursued on account of the attractive stipends and/or part time mployment that go with studentship. Exactly what proportion of matriculates, graduates and post graduates do not seek jobs is difficult to determine in the absence of data on follow-up of hese categories of persons. Statistics from the pecial census of degree holders (1971) are admitedly not comprehensive. However, they yield he following percentages of unemployed persons seking and not seeking jobs.

| Category | Percentage of unemployed seeking jobs | Percentage of unemployed not seeking. jobs. |
|-----------------------|---|---|
| Arts Graduates | 9.5 | 7.8 |
| Commerce Graduates | 11.2 | 1.9 |
| Science Graduates | 14.8 | 6.8 |
| Diploma Holders | 9.5 | 1.0 |
| Engineering Graduates | 4.0 | 0.7 |
| Agriculture Graduates | 4.5 | 1.2 |
| Medical Graduates | 2.0 | 1.0 |

6.1.18. With allowance made for this factor, the number of educated persons for who mjobs would have to be found could be estimated as follows (rates observed in respect of female arts graduates have been assumed for matriculates in the absence of any other data).

| Category | Total out- turn (in- lakhs) | Percentage of persons not seeking work | mated job- seekers |
|---|---|--|--------------------------|
| Matriculates | 7.19 | 25.27 | 5.57 |
| Diploma holders in Engineering | 0.15 | 1.00 | 0.15 |
| Non-technical graduates and post-graduates. | 2.21 | 6.50 | 2.07 |
| Technical Graduates and post-graduates. | 0.36 | 1.00 | 0.36 |
| TOTAL;- | 9.91 | | 7.95 |

^{6.1.19.} The total number of educated job seekers (obtained by adding the backlog of 2.80 lakhs to the 7.95 lakh new entrants) would thus be 10.75 lakhs. during the plan period.

6.2 Employment Strategy in the plan:

- 6.2.1. It is clear from the foregoing paras that the strategy for rural areas with high incidence of under-employment will have to be different from the strategy for urban areas which have a high incidence of chronic unemployment.
- 6.2.2. An increase in agricultural production has been given top most priority in the rural areas of Gujarat. The percentage of irrigated areas in Guparat is less than the national average. Therefore, the foremost requirement of the State in developing agriculture is irrigation. The development of irrigation facilities would also require consequent attention being paid to the development of command areas of the irrigation projects. The development of the cirrigation in the rural areas will not only provide work to the educated technical, skilled and semi-skiilled persons but it will also provide sizable employment to the unskilled and uneducated. The development of communication, housing and forestry will also have a similar impact in tackling underemployment and hence emphsis would also be placed on soil and water conservation, animal husbandry and fisheries, the last two of which have a good stope for family oriented development. Employment potential for the unemployed and under employed of the rural areas would be augmented by the implimentation of Narional Rural Employment Programme (N.R.E.P.).
- 6.2.3. Wage employment will not be able to cater to the large number of unemployed and under-employed especially in the rural areas. Therefore, an emphasis will be placed on development of industries minerals and services in the small and self-temployment sectors.
 - 6.2.4. The skills possessed by a large number of the unemployed and the under-employed are not the ones which are marketable to-day. In order to divert the population from agriculture in rural areasand to make an impact on the educated unemployed the State desires to sizably increase the facilities for training in skill formation. This is intended to cater to the requirement of manpower for industrial development as well as for self-employment.
 - 6.2.5. In order to monitor the employment situation in the districts and the progress of the employment generating schemes, Government have decided to set up the District Employment Generation Councils consisting of peoples' representatives, as well as officials. These councils will prepare an integrated district employment plan which will be consistent with the district credit plan.

6.3. Employment Generation: Plan Investment:

6.3.1. In keeping with the requirement of massive employment generation under plan programmes the State's Plan for 1980-85 envisages a large investment on employment intensive schemes. The broad dimensions of these efforts are described below:—

| | VI Plan 1980–85 |
|---|--------------------|
| I. Total Outlay (Rs. in Crores). | 3760.00 |
| Outlay on schemes with a high employment component (Rs. in crores). | 1794.95 |
| II. Employment Generation:— | |
| (A) Uneducated: ('000 person years). | |
| Unskilled | 24 66 |
| Semi skilled and skilled | 305 |
| Total A. | 2771 |
| (B) Educated (Nos.):— | |
| Technical | 22955 |
| Non-Technical | 83732 |
| Total B. | 106687 |

(The total under item B above viz. 106687 would be 318 thousand person years).

- 6.3.2. The outlay on schemes with a high employment component forms 47.74% of the total of Rs. 3760.00 crores for the VI Plan 80-85. Sectorwise and sub-sector-wise estimates of employment generation are indicated in Statement.II. Sizable outlays have been provided on water development (Rs. 1000.00 crores), roads and bridges (Rs. 220.00 crores) minor irrigation (Rs. 88.00 crores), housing (Rs. 85.30 crores), Village and small industries (Rs. 95.96 crores), ferest (Rs. 90.00 crores), soil and water conservation (Rs. 28.94 crores) and scheme for the educated unemployed (Rs. 10.14 crores) which are employment intensive in charactor.
- 6.3.3. The employment estimates indicated above are exclusive of employment generation attributable to:—
 - (i) Central Government investment within the State;
 - (ii) Expenditure on Central Sector/Centrally sponsored Schemes.
 - (iii) Corporate public sector investment on of their own resources.
 - (iv) Private sector investments.
 - (v) Investments of local bodies and panchaya and:
 - (vi) Expenditure on the non-Plan account the State Government.

6.3.4. Similarly indirect employment resulting from plan investments and the activities of the Government and Semi-Government agencies operating in the State, are also not included in these estimates. The lack of a firm data base in this regard precludes the quantification of the employment that would be generated in the plan period from these investments.

Job prospects for Educated Technically Qualified Persons

- 6.3.5. The backlog of technical graduates, post graduates and diploma holders at the begining of the plan period is 15700, new entrants in these categories during the plan period would be 51000. The total number of jobs needed for qualified technical personnel would thus be 66700 during the plan period.
- 6.3.6. While direct employment opportunities arising under plan programmes would be of the order of 22955 for technical personnel, there are many categories of technical personnel for whom there is domand in the public as well as private sector. In addition to the establishment of industries based on petrolleum and gas there are good prospects of expansion of chemical, fertilizers and engineering industries in the State. Several industrial projects taken-up during the previous plan will also come to fruition in the near future. Cumulatively these developments are likely to provide employment opportunities to a majority of the technically qualified personnel not covered by the plan programme.

Job prospect; for the Educated Non-Technical Persons: -

- 6.3.7. The State Plan scheme would not by themselves normally generate sizable job opportunities for the educated non-technical persons. However keeping in view the very large number of the educated non-technical persons, the Sixth Five Year includes an innovative scheme for creating increasing number of employment opportunities for this class of people. Together with job created under other plan schemes job opportunities available for the educated non-technical persons will be of the order of 0.84 lakh. If the present trends of employment growth (2.7%) are maintained in the organised private sector 9000 new jobs are expected to be created annually for non-technical graduates and matriculates. This would work out to 45000 jobs over the five year period. To this may be added the normal replacement needs placed at 3%. At the rate of 18104 (assuming 62.6% of total employment going to this class of job seekers) annualy, over the five year pariod, this would work out to 90520.
 - 6.3.8. Thus total of 2.20 lakh jobs (consisting of 0.81 lakh from plan programmes, 45000 from private

sector and 90520 on account of replacement needs) would be available for the educated non-technical persons as against 10.08 lakh jobs that are needed to be created. This could take care of 21.8% of the total employment requirements for the educated non-technical persons (consisting of the backlog 2.64 lakhs and fresh entrants 7.44 lakhs).

An overview

- 6.3.9. Looking to the facts stated in paras 6.3.3. and 6.3.4, it can be observed that the estimates indicated above cover only a small segment of economic activities arising from investments in plan program nes, and have out substantial indirect emplyment. Considerable indirect job opportunities are also likely to arise from the expansion of irrigated agriculture, introduction of high yielding varieties and ancillary activities such as animal husbandry, dairy, poultry and fisheries. The employment potential in these spheres is really large.
- 6.3.10. Despite the limited coverage of the economic activities encompassed in the State Plan programmes, the investments in the sectors of water development and agriculture and allied activities are estimated to lead to employment generation of 2165000 person years for unskilled, semiskilled and skilled persons as also jobs for 27250 educated persons. The investment on power development would not only ease one of the bottlenacks in agricultural and industrial development but also would lead to direct employment of about 5000 person years for unskilled/semi-skilled/skilled workers and 1923 jobs for educated persons. The increase in transport and communication facilities would add to the required infrastructure as also a direct employment of 276000 person creation of years for uneducated and 4202 jobs for educated persons. In the industries sector suitable emphasis is hid on development of small and cottage industries. Training and institutional linkages are envisaged to be provided to promote self employment which will benefit the under privileged sections of the community. Skill formation training would be augmented to increase the supply of trained industrial workers as well as to reduce the number of in-experienced educated job seekers. The investment in this sector is likely to create 210000 person years of employment opportunities for unskilled/semiskilled/skilled persons.
- 6.3.11. The total requirement of person years of employment come to about 5.4 million. The Plan investment itself would create about 3.1 million person years of employment. This will take care of 57% of the total requirement.
- 6.3.12. The system of a decentralised district level planning already introduced would be made more effective by providing an employment focus in the formulation of the district plan The District Employment Generation Council with expert and popular

representation has been formed in each district to more accurately prepare an integrated district employment plan commensurate with the general plan as also the credit plan of the district.

Institutional Arrangements:

- 6.3.13. Planning with employment as one of the key objectives is admittedly a recent, as well as, a very challenging task, but it is a must for a country which has surplus manpower at the present stage of development.
- 6.3.14. Due to the recent special emphasis on this objective, institutional arrangement should exist at the National and at State levels and should be extended upto district level. Arrangements exist at the National and the State levels in the form of National Development Council and State Planning Board. However, as a generation of employment and beneficiaries who take advantage of such the district generation a-e atemployment institutional arrangement some this purpose at district level was considered necessary. District Employment Generation Councils have there fore been set up to oversee employment content in the district level plan schemes as well as to monitor its implementation and use the feed-back to improve the effectiveness of schemes from employment angle in furture. The staff to assist the District Planning Board and the Employment Generation Council will have to be strengthened to undertake this task. The District Employment Generation Council will ensure that district plans and the schemes lead to a higher employment generation, as well as potential for future employment generation.

6.4. Manpower:

- 6.4.1. In the planned economy it is necessary to balance demand and supply of technical manpower. Lack of suitably trained personnel is a major obstacle in mounting development programmes.
- 6.4.2. The availability and requirement of principal categories of skilled manpower during the Five Year Plan period(1980-85) are presented in Statement-III..
- 6.4.3. The migration in and out regarding which data is not available, though material has been over-looked in the computations referred to in the paras that follow.

Engineering Personnel:

6.4.4. Engineering personnel is one of the important categories of technical manpower. It is, therefore, desirable to have long term perspective planning in context to demand and supply of engineering personnel. Accordingly, the requirement and availability of degree and diploma holders in engineering have been estimated. The requirement has been worked out on two alternative assumptions

- viz., growth rate of 4.2 % based on observed trend during 1970-79 for non-agricultural sectors (excluing some minor-sub-sectors) and an alternate targetted growth rate of 6.1 % for non-agricultural sectors as envisaged in the Five Year Plan 1980-85. On this basis the requirement of graduates and diploma holders together at growth rate of 4.2 % and 6.1 % by the end of the Five Year Plan (1980-85) would be 69775 and 75047 respectively.
- 6.4.5. It appears that there will be a marginal shortage of 1033 graduates calculated on the basis of lower growth rate of 4.2%. The shortage would be 2004 graduates on the basis of higher growth rate of 6.1%. For diploma holders there would be a surplus of 3151 at lower growth rate of 4.2%; however there would be a shortage of 1150 at the higher growth rate of 6.1%.
- 6.4.6. Though the work of building up the the detailed estimates for various categories of technical manpower that would be required for the Narmada Irrigation Project has been entrusted to the Institute of Applied Manpower Research, New Delhi, the requirement of degree and diploma holders during 1980-85 for Narmada Irrigation Project as provisionally calculated by the Irrigation Department is placed at 1199 and 644 respectively. This requirement will further widen the gap between requirement and availablity for engineering graduares. While in the case of diploma holders it would bring down the surplus to 2507 at 42% while the shortage will also register a rise to 1794 at the growth rate of 6.1%.
- 6.4.7. The main proposals included in the Five Year Plan (1980-85) by the respective department are as under:—
 - (i) To increase 435 seats for degree & 1277 seats for diploma courses during the Five Year Plan (1980-85).
 - (ii) In order to meet the specialised manpower needs in various fields following post diploma courses with total intake of 160 seats are proposed to be introduced.

Foundary Technology, Plastic Technology, Energy System, Machine Tools Maintance, Interior Decoration, Dairy Engineering, Industrial Elecetronics, Bio Medical Instrumentation, Industrial Engineering.

(iii) To establish five new Industrial Training Institutes. It is also proposed to increase seats in the existing I. T. Is. Accordingly it is proposed to increase the intake capcaity from 8040 to 18000 during Five Year Plan Period (1980-85).

Medical Personnel :--

6.4.8. As on 31st December, 1980 the number of doctors registered with the Gujarat Medical Council was 14099 indicating a doctor population ratio of 1:2341 as against the norms of 3000 to 3500 prescribed by the Mudaliar Committee. These figures

should, however be viewed with some caution as they do not fully reflect the attrition due to migration, retirement or death. Although the total number of doctors in the State seems to be sufficient, still difficulties persist in securing the services of postgraduates/specialists for teaching jobs. On 31st March, 1980 nearly 25% of the posts were not manned. Similarly, there is shortage of doctors in rural and tribal areas. About 20% of the posts in rural areas were lying vacant on 31st March, 1980. In short, there is no overall shortage of doctors but the shortage seems to be selective.

- 6.4.9. The training and deployment of community health volunteers is major innovation in the filed of public health in the rural areas. The main object of the scheme is to provide training in the basic knwowledge of health, hygiene and first aid and treatment of minor ailment to the literate persons in the village. This scheme is being implemented in the entire State and training is given in all Primary Health Centres. About 19018 Community Health volunteers have been trained and are working in rural areas.
- 6.4.10. The multipurpose workers scheme is being implemented in all the districts in the State. The scheme aims at delivering of packages of health services in an integrated manner in rural areas. About 7254 multipurpose workers are in a position in the State. It is proposed to create 2211 posts of male and 1768 posts of female multipurpose workers during Sixth Five Year Plan (1980-85).
- 6.4.11. As far as Ayurved graduates are concerned, problem of unemployment seems to be quite acute. Backlog of unemployed ayurved graduates is increasing every year. In the beginning of the Five Year Plan Period (1980-85) there were 991 Ayurvedic doctors on the live registers of the employment exchanges. The outturn during the plan period (1980-85) is expected to be 1455. Given the limited opportunities in the Government Health Care System and negligible prospects of private practice in urban areas or emigration overseas, it appears that self employment in rural areas seem the one of the major outlet and the surplus is liekely to increase during the plan period.
- 6.4.12. As per the survey conducted by the Indian Pharmicists Associateion there were about 5000 unqualified Pharmacists in the State. As per the amendment of the Pharmacy Act, (1948) no person other than registered pharmacists shall prepare, mix or dispense any medicines on the prescription of the medical practitioner after 1-9-1934. It is planned to qualify 2100 unqualified pharmacists during the Five Year Plan Period (1989-85). Moreover, looking to the increasing 1—2683—12

demand of pharmacists in the State it is proposed to start diploma course in pharmacy with an intake capcaity of 30 students each at Adipur(Kachchha) Vallabh Vidyanagar and Bardoli (Surat).

Agricultural Personnel

- 6.4.13. For the implementation of the program e for agricultural production, soil conservation, command area development and Minor Irrigation, the demand of agricultural graduates is placed at 424. Against this, the supply during the plan period (1980-85) is expected to be 1352 which will leave a surplus of 928 agricultural graduates. A large number of such graduates is also likely to be absorbed in banking, fertilizers-industry and research work. Some of these would also go for self-employedment. It is expected that there will be a very negligible surplus, if any, at the end of the plan.
- 6.4.14. Similarly, the demand for agricultural diploma holders during 1980-85 is placed at 253 against which the supply is expected to be 1238 leaving a surplus of 935. A part of the surplus would be absorbed in the farming sector. As the entire outturn is from the Government Institutions, no difficulty is foreseen in matching the demand with the supply and the capacities of the institutions could be diverted towards creation of new course which may be devised after making surveys. Such courses could mainly be in the processing of agricultural produce for consumption purposes.
- 6.4.15. A major shift in the pattern of agricultural extension services by the introduction of training and visit system would have a significant effect on the number of extension functioneries. The major thrust would be towards an integrated approach for increasing crop production of major crops. The progaramme would require a VLW to maintain an intensive training and visit schedule for a group of families and would be a model for extension programme. The scheme which has been worked out and is being implemented require [3440 village level workers. 431 agriculturl extension agriculturl extension officers (one each for a group of VLWs) and 37 subdivisions having a Sub-Divisional Agricultural Officer, supported by additional Sub-Divisional Agricultural officers and two subject matter specialists. There will be three subject matter specialists in each district and four Zonal Joint Directors of Agriculture for technical guidance and supervision.

Animal Husbandry:

6.4.16. During the Sixth Five Year Plan 1980-85, major emphasis has been placed on cattle, poultry and sheep and wool development for increased production of important items of mass consumption such as milk, eggs wool etc. The programmes envisaged will need veterinary and animal husbandry personnel in good number to implement the schemes of cross breeding programme with sophisticated—

techniques. The reliance on supply of milch cattle as a means of improving the economic conditions of small/marginal farmers, lendless labourers, tribal and scheduled Castes members and enhancement of milk production are likely to augment the demnd for the veterinary services on a large scale. Moreover the enlargement of Milk chilling collection and processing activities are also likely to lead to a demand of veterinary services on far large scale. The estimated demand of veterinary graduates in public sector during 1980-85 is 240, the estimated supply would be 180 indicating marginal shortage of about 60 veterinary graduates. It is therefore decided to increase intake capacity by 20.

- 6.4.17. The demand of Livestock Inspectors during the Sixth Five Year Plan will also be increased which is estimated to be about 535 depending upon the various envisaged programmes. The present intake capacity of the course conducted by the Gujarat Agricultural University is 50. Present capacity will have to be raised suitably to meet with the demand. The Gujarat Agricultural University will be requested to make necessary arrangements for the same.
- 6.4.18. The total requirement of Field Assistants is placed at 228 during Five Year Plan period (1980-85). The training Institutions for Field Assistants are under the purview of the department of Animal Husbandry. At present the courses for cross breeding technique, sheep and poultry husbandry are kept in abeyance and the same will be conducted as per requirement as and when necessary to meet with the demand of sanctioned posts.

Dairying Personnel

6.4.19. In respect of dairying personnel, the supply of 225 graduates in Dairy Technology will be adequate to meet the demand (Government and Cooppratives) of 140 posts requiring the qualifications in Dairy Technology.

Forestry Personnel

- 6.4.20. The increasing emphasis on the programmes of afforestation, social forestry, Forest Development Corporation is leading to an increase in the demand for supervisory personnel.
- 6.4.21. At present there is shortage of Officers in the cadre of Rang-Forest Officers. The demand for Range Forest Officers during five year plan is placed at 395, the anticipated supply would be 240 leaving the deficit of 155. There is a full fledged college at Raipipla for training Range Forest Officers with the intake capacity of 40. To meet with the demand of Range Forest Officers the capacity is likely to be 60 from the next year. The demand for foresters/guards during the Five Year Plan period is about 2510. There is a training institute at Kakarapar imparting training to foresters. The present intake

capacity is 360. As this intake capacity is not sufficient to meet the future demand, the intake capacity will be increased to 480 during the Five Year Plan Period (1980-85).

Teaching Personnel.

- 6.4.22. Both the technical categories viz: Bachelor of Education (B.Ed) and Primary Teaching Certifificate (P. T. C.) are the surplus categories. This situation is likely to continue during the plan period (1980-85).
- 6.4.23. As against the supply of 25,000 trained teachers for primary schools during the Five Year Plan-period, the demand is likely to be 11.000 leaving a surplus of 14,000.
- 6.4.24. The anticipated supply of trained second-dary school teachers during Five Year Plan (1980-85) is expected to be 20985, as against the demand of 10275 leaving a surplus of 10,710.
- 6.4.25. This highlights the need to reduce the intake capacity and utilise the released capacity of the training institutions for in service training of the already engaged staff.

Changing the State's skill Profile

- 6.4.26. The State Government has already accepted the policy of 50% Vocationalisation for matriculates who are turned out each year. Accordingly the number of persons to be covered under vocatonal and technical training by the end of the Five Year Plan (1980-85) is about 1.10 lakhs. The training facilities available at present is for about 30,000 matriculate students; considering the target for the Five Year Plan (1980-85), this leaves the gap of about 80,000.
- 6.4.27. In the beginning of the Five Year Plan (1980-85) there were 22 ITIs in the State with a total intake capacity of 8040 seats. During the Five Year Plan period (1980-85) it is proposed to establish five new I.T.I.s. It is also proposed to increase seats in the the existing I.T.Is. Accordingly it is proposed to increase the intake capacity from 8040 to 18000 during the Five Year Plan Period (1980-85).
- 6.4.28. It has been decided to accelerate the imp lementation of the National Apprenticeship Training Scheme which is one of the items of the 20 points programme. Accordingly under this programme it is proposed to increase the sanction ed seats from 12000 to 21,000 during the Five Year Plan (1980-85.)
- 6.4.29. In addition, there are nearly 100 out of 184 talukas in the State which do not have any worthwhile training facilities for skill-formation. It is proposed to create additional training facilities for about 10,000 matriculates.

6.4.30. This training would be supplemented by 10+2 vocational system, Tystem in rural areas, training for cottage industries, the training being imparted by other departments and institutions towards the goal of 50% vocationalisation for the matriculates. Preference in admission will be given to those who have no member having any assured earning in their families in selection for training for skill-formation.

6.4.31. The expansion of the training facilities would require a commensurate increase in emphasis

on the promotion of self-employment. It is proposed to actively promote self-employment through entrepreneurship training, assistance in presenting bankable scheme and subsidy or margin-money assistance to the poor. Through these measures assistance or self-employment prosed to be stepped up consider ably to benefit nearly 200,000 persons during the plan which will include those who have been imparted training for skill-formation in addition to other aspiring entrepreneurs.

STATEMENT—I

Year-wise Labour-force by sex for rural and urban areas in Gujarat State

(In 000 RURAL URBAN TOTAL Year Total Total Total Male Female Male **F**emale Male Female 06

Note: For Age group 15-59.

STATEMENT-II

Broad estimates of direct employment generation during the Sixth Five Yrear Plan (1980-85)

| Sr. No. | Sector/Subsector | | osed outlay . in lakhs) | Estimated employment generation | | | | | | | |
|-------------|---|------------------|-------------------------------|---------------------------------|--------------|---------|-------------|--------------------------|--|--|--|
| 110. | | Total | For Employ | Thousand I | erson years; | | Educate | d (NO.) | | | |
| | | 10001 | ment intensive schemes. | Unskilled/ Uneducated | Semi-skilled | skilled | Technical | Non- Techni ca | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | |
| I. A | griculture and allied programmes | - | | | | | · | | | | |
| 1.1 | . Crop production | 3100.00 | •• | •• | •• | | 4500 | 421 | | | |
| 1.2 | . National rural employment programme | 4500-00 | 4500.00 | 178 | | | 14 | | | | |
| 1.3 | . Drought Prone area programme | 1950.00 | 1185.65 | 58 | | • | •• | | | | |
| 1.4 | . Minor Irrigation | 8800.00 | 8720.00 | 150 | 12 | 7 | 354 | 837 | | | |
| 1.5 | . Soil and Water conservation | 2894.00 | 2282.00 | 289 | 1 | •• | 244 | 114 | | | |
| 1.6. | Command Area Development | 1877.00 | 1475.50 | 71 | 1 | | | •• | | | |
| 1.7. | Animal Husbandry. | 1770.00 | •• | 1 | •• | •• | 822 | 418 | | | |
| 1.8. | Fisheries | 2000.00 | 1859.86 | 54 | 18 | 13 | 5903 | 247 | | | |
| 1.9. | Forest | 9000.00 | 8777 .90 | 214 | •• | 1 | 2342 | 1139 | | | |
| 1.10 |). Community Development and Panchyat. | 627.00 | 3 87 . 94 | (40) | •• | 1947.1 | | 2091 | | | |
| | al:-I-Agriculture and Allied Programmes. | 36518.00 | 29188.85 | 1015 | 32 | 21 | 14165 | 5267 | | | |
| II. V | Vater Development | 100000.00 | 100000.00 | 977 | 66 | 54 | 2173 | 5645 | | | |
| III. | Power Development | 96484.00 | •• | 3 | 1 | 1 | 1093 | 830 | | | |
| IV. I | ndustries and Minerals. | 17110.000 | 2835.00 | 210 | •• | •• | •• | •• | | | |
| V. T | ransport and Communications | | | | | | | | | | |
| 5.1. | Ports, Light houses and shippi | ng- 2600.00 | • • | 4 | 6 | 5 | 73 | 156 | | | |
| 5.2. | Roads and Bridges. | 22000.00 | 22000.00 | 190 | 46 | 13 | 352 | 741 | | | |
| 5.3. | Road Transport | 9000.00 | 9000.00 | 6 | 6 | •• | 103 | 2777 | | | |
| | Total V Transport and Communications. | 33600.00 | 31000.00 | 200 | 58 | 18 | 52 8 | 8674 | | | |
| VI. S | ocial and Community Services | | | | | | | | | | |
| 6.1. | General Education | 5560.00 | 2910.37 | •• | •• | •• | | 80355 | | | |
| 0.2. | Technical Education | 600.00 | 455.00 | •• | •• | •• | 113 | 135 | | | |
| 6.3. | Housing | 8530.00 | 7730.00 17 | 56 | 8 | 39 | 3249 | 11380 | | | |
| 6.4. | Capital Project | 3 000 .00 | 3000.00 | 57 | 6 | 6 | 28 | 55 | | | |
| 6.5. | Labour and Labour Welfare | 4000.00 | 2376.00 | •• | •• | •• | 1606 | 26391 | | | |
| Tota | l VI. Social and Community Services. | 21690.00 | 16471 .37 | 61 | 9 | 45 | 4996 | 68316 | | | |
| | Grand Total:- | 805402.00(×) | 179495 .22 | 2466 | 166 | 139 | 22955 | 83782 | | | |

⁽x) Exclusive of outlays to which direct employment is not attributable.

^{!--2683--13}

STATEMENT—III

Demand and suply of certain selected categories of Technical Manpower during Five Year Plan
(1980-81 to 1984-85.)

| D isciplines | Category of personnel | | Demand during F.Y.P. | Supply during F.Y.P. | Surplus(+) or Doficit(-) |
|---------------------|--|---|------------------------------------|----------------------|--------------------------|
| 1 | 2 | | 3 | 4 | 5 |
| Engineering | Dogree in Engineering* | a | 27952 | -3- | -1033 |
| | | ь | 2892 3 | 26919 | —2 00 4 |
| | Diploma in Engineering* | a | 41823 | | +31 51 |
| | | b | 46124 | 44974 | -1150 |
| Agriculture | B.So. (Agri.) | | 424 | 1352 | +928 |
| | Diploma (Agri.) | | 253 | 1238 | +985 |
| Forestry | Rango Forest Officer Foresters/guards | | 395 2 50 9 | 240 2040 | —155 —469 |
| Voterinary | Veterinary Graduates | | 239 | 180 | — 59 |
| | Livestock Inspectors | | 535 | 251 | 284 |
| | Field Assistant in Veterinary. | | 228 | ** | ** |
| | B.So. (Dairy Tech.) | | 140 | 225 | +85 |
| Teaching | Secondary School Teachers | | 10275 | 20985 | +10710 |
| -1- | Primary School Teachers | | 11000 | 25 000 | +14000 |

[•] For dagree and diploma the demand and supply figures indicate total number required and total availability as on 31st March, 1985.

^{**} There are 4 training centres with the intake expacity of 65 seats. Training is conducted as per the need of the department.

⁽a) Estimates at 4.2% trend growth rate in State domestic product for non-agricultural sectors (excluding some minor sub-sectors)

⁽b) Estimates at 6.1% targetted growth rate for non-agricultural sectors of State domestic product for Five Year Plan (1980-81 1984-85).

NOTH—The demand likely to arise on account of taking up the execution of Narmada River Projects is not taken into account in the Statement. However, estimates of engineering graduates and diploma holders, have been worked out by the Irrigation Department for Narmada Project and are placed at 1199 and 644 respectively.

STATEMENT—IVRequirement and availability of Engineering Personnel in 1980--81 and 1984--85

| Catagory | | Trind growth rate 4.2% | | | | | | Targetted growth rate 6.1% | | | | | | |
|----------|---------------------|------------------------|--------------------------------------|------------------------|----------------------------|-------------------------------------|------------------|----------------------------|----------------------------|------------------|----------------------------|----------------------------|--|--|
| | Position in 1930-81 | | | Positi | Position in 1934-85 | | | on in 198 | 0-81 | Posit | ion in 1 | 984-85 | | |
| | Rquire- mant | Av vila- bility | S irplus (+) or Deficit (-) | Riq tire- ment | Av sila- bilit y | Sirplus (+) or Deficit (-) | Roquire- ment | Availa- bility | Surplus (+) or Deficit (-) | Raquire- ment | Avail- a bilit y | Surplus (+) or Deficit (-) | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | |
| Graduate | 22233 | 22373 | +630 | 27052 | 28919 | 1033 | 22608 | 22978 | +370 | 28923 | 26919 | -2004 | | |
| Diploms | 33)66 | 35691 | +2625 | 41823 | 44974 | +3151 | 3:4473 | 35691 | +1218 | 46124 | 44974 | 1150 | | |
| Total | 55361 | 58669 | +3305 | 6 9 7 75 | 71893 | +2118 | 5 87.)81 | 58 66 9 | +1588 | 75047 | 71893 | -3154 | | |

STATEMENT-V.

Statement showing sanctioned Strength, actual admissions, Probable out-turn during 1980-81 to 1984-85, numbers on live registers and total availability during 1980-85.

| Category/Course | Sanc- tioned | Actual Admiss- | Esti | mated out- | tun during | tle Hen | faied | Tcte) - (4 to 8) | Total on L. R. as | Total Availa. |
|--|--------------------|-------------------|---------|------------|------------|------------|---------|---------------------|----------------------|-----------------------------|
| | strength (1979) | ion (1979) | 1980-81 | 1981-82 | 1982-83 | 1983-84 | 1984-85 | (2 30 0) | on 31-12-79 | bility 1980-85 (9+10) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Engineering Post-Graduate. | | | | | | | | | | |
| Civil | 76 | 45 | 38 | 40 | 40 | 40 | 40 | 198 | 2 | 200 |
| Mechanical | 46 | 26 | 14 | 16 | 15 | 15 | 15 | 75 | 2 | 77 |
| Electrical | 39 | 26 | 8 | 8 | 8 | 8 | 8 | 40 | •• | 40 |
| Textile Engineering | 10 | 3 | 2 | 2 | 2 | 2 | 2 | 10 | •• | 10 |
| Metallurgy | 10 | 5 | 2 | 2 | 2 | 2 | 2 | 10 | •• | 10 |
| Graduates | | | | | | | | | | |
| Civil | 530 | 575 | 551 | 555 | 555 | 555 | 580 | 2800 | 241 | 3041 |
| Mechanical | 440 | 425 | 394 | 394 | 395 | 395 | 395 | 1973 | 293 | 2276 |
| Electrical | 370 | 346 | 175 | 175 | 175 | 180 | 180 | 88 5 | 146 | 1031 |
| Chemical | 120 | 124 | 115 | 115 | 115 | 185 | 185 | 715 | 62 | 777 |
| Instrumentation Contro | ol 15 | 18 | 15 | 15 | 15 | 15 | 15 | 75 | 1 | 76 |
| Metallurgy | 40 | 31 | 25 | 25 | 25 | 25 | 25 | 125 | 10 | 195 |
| Electronics Communication. | 15 | 19 | 15 | 15 | 15 | 15 | 15 | 75 | | 75 |
| Textile Engineering | 20 | 44 | 20 | 20 | 20 | 20 | 20 | 100 | •• | 100 |
| Textile Technology | 40 | 52 | 35 | 35 | 35 | 35 | 35 | 175 | 16 | 191 |
| Production Engineerin | g 20 | 19 | 20 | 20 | 20 | 20 | 20 | 100 | 8 2 | 182 |
| Electronics | 20 | . , 42 . | . 30 | , 30 | 30 | 30 | 30 | 150 | 19 | 169 |
| Architecture | 70 | 65 | 89 | 90 | 90 | 90 | 90 | 449 | 31 | 480 |
| Textile Chemistry | 10 | •• | •• | 5 | 5 | 5 | 5 | 20 | •• | 20 |
| Architect Diploma (Degree level) | 10 | | 15 | 15 | 16 | 15 | 15 | 75 | | 75 |
| Post Graduate Diploma. | | | | | | | | | | |
| Air Conditioning and Refrigeration. | 5 | | 1 | 1 | 1 | 1 | 1 | 8 | | 5 |
| Planning | 20 | 16 | 14 | 14 | 14 | 14 | 14 | 70 | | 70 |
| Low Cost Housing | 5 | 3 | •• | •• | •• | • • | 2 | 2 | • • | 2 |
| Post Diploma. | | | | | | | | | | |
| Production | 40 | 40 | 35 | 3 5 | 35 | 3 5 | 35 | 175 | 1 | 176 |
| Power Plant | •• | 3 | 1 | 1 | 1 | 1 | 1 | 5 | •• | 5 |
| Television | 20 | 18 | •• | 14 | 14 | 14 | 14 | 56 | •• | 56 |
| Tele-Communication | 10 | 11 | •• | 7 | 7 | 7 | 7 | 28 | • • | 28 |
| Instrumentation contr | ol 120 | 22 | 13 | 20 | 20 | 20 | 20 | 93 | •• | 93 |
| Technical Sales Representative | 15 | 28 | 6 | 6 | 6 | 6 | 8 | 30 | | 30 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 9 | 10 | 1 |
|---|---------------------|-------------|----------|-----|-------------|-------------|------|----------------|------|-------------|
| Air Condutioning Refrigerations. | 25 | 26 | 10 | 1(0 | 10 | 10 | 10 | | | |
| Automobile Engineer | ing 10 | •• | •• | 3 | 3 | 3 | 10 | 5 0 | 2.7 | 50 |
| Construction Engineer | ring 10 | •• | | 7 | 7 | 7 | 3 | 12 | •• | 12 |
| Diploma. | | | | - | • | • | 7 | 28 | 66 | 94 |
| Civil | 945 | 1016 | 953 | 950 | 9 50 | 950 | 0.50 | | | |
| Mechanical | 675 | 758 | 730 | 730 | 730 | 730 | 950 | 4753 | 1567 | 6320 |
| Electrical | 5 5 5 | 609 | 430 | 440 | 440 | 415 | 730 | 3650 | 678 | 4628 |
| Chemical | 40 | 23 | 65 | 655 | 65 | 60 | 445 | 2160 | 596 | 2756 |
| Textile Technology | 45 | 20 | 25 | 255 | 25 | | 65 | 320 | 40 | 360 |
| Textile Chemisty | 45 | 52 | 110 | 110 | 110 | 25 | 25 | 125 | Б | 130 |
| Radio Engineering | 45 | 45 | 25 | 30 | 30 | 110 | 110 | 550 | •• | 550 |
| Electronics/Sound | 20 | 23 | 18 | 188 | | 30 | 30 | 145 | 25 | 170 |
| Automobile Engineeri | ing 90 | 83 | 99 | | 18 | 18 | 18 | 90 | •• | 90 |
| Printing Technology | 30 | 42 | 99 24 | 915 | 95 | 90 | 98 | 477 | 269 | 746 |
| Textile Manufacturing | • | 78 | | 24 | 24 | 25 | 26 | 113 | 10 | 123 |
| Technology of | 10 | 78 | 77 | 755 | 75 | 77 | 78 | 382 | 11 | 393 |
| Production/Oil Gas | 15 | 59 | 15 | 155 | 15 | 15 | 15 | 75 | | 12 |
| Metallurgy | 15 | 17 | 12 | 122 | 12 | 12 | 12 | 60 | | 75 |
| Architectural Assistantship | 60 | 67 | 34 | 40 | 40 | 40 | 40 | 194 | | 60 |
| Ceramic Technology | 15 | 18 | 13 | 122 | 12 | 12 | 12 | | 32 | 226 |
| Plastic Engineering | 80 | 25 | 30 | 310 | 80 | 30 | 30 | 61 | •• | 61 |
| Manmade Fibres Fabri | ic 25 | 33 | 20 | 220 | 20 | 20 | 20 | 150 | •• | 150 |
| Manmade Fibres wet | 3 0 | 33 | 25 | 25 | 25 | 25 | | 100 | 13 } | 238 |
| Production of Synthetic | | | | | 20 | 20 | 25 | 1 2 5 J | j | |
| esins Sech. of Producing | 15 | •• | 15 | 15 | 15 | 15 | 15 | 75 | •• | 75 |
| ertilizer | 15 | | 15 | 15 | 15 | 15 | 15 | 75 | 2 | |
| ndustrial Electronics | 30 | 105 | 35 | 355 | 35 | 35 | 35 | 175 | | 77 |
| roduction Engineering | 60 | 84 | 52 | 52 | 52 | 52 | 52 | 260 | •• | 175 |
| lectronics and Radio | .~ | • | | | | | 02 | 200 | •• | 200 |
| Ingineering | 35 | 38 | 32 | 30 | 30 | 30 | 30 | 152 | | 152 |
| Agricultural Courses | • | | | | | | | | | - |
| I. SC (Agri.) | [(a)* | 146* | 46* | 560 | 50 | 50 | 50 | 246 | 11 | 257 |
| I. V. Se. | (a)◆ | 17* | 3* | 3 | 1 | 2 | 2 | 11 | 1 | 12 |
| . Sc. (Diary) | (a)* | 2* | 2* | 2 | 2 | 2 | 2 | 10 | 6 | 16 |
| . Se. (agri) | 300* | 356≉ | 252* | 275 | 275 | 2 75 | 275 | 1352 | 630 | 1982 |
| . V. St. | 40* | 40* | 35* | 345 | 35 | 35 | 35 | 185 | | |
| . Sc. Diary) | 60* | 60≉ | 47* | 4.5 | 45 | 45 | 45 | 227 | •• | 18g |
| | 270* | 294* | 238* | 250 | 250 | 250 | 250 | 1238 | 1606 | 227 |
| ivestock Inspectors" burse barmacy Courses. | 50* | 51 * | 51* | 5-0 | 50 | 50 | 50 | 251 | 4 | 2844 |
| . Pherm. | 20 | 31 | 15 | 17 | 19 | 18 | | | 7 | 255 |
| -268314 | *** | | 20 | 1, | 1 7 | 17 | 17 | 83 | 2 | 85 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---------------------------------------|--------------|----------------------|------------|--------------|-------------|-------------|--------------|-------------|-------|------------------------|
| B. Pharm | 107 | 140 | 140 | 130 | 145 | 144 | 144 | 703 | 107 | 810 |
| Diploma in Pharmacy | 26 0 | 260 | 265 | 25 5 | 255 | 255 | 255 | 1285 | 239 | 1524 |
| B.S. A.M. | 243 | 232 | 295 | 290 | 2 90 | 290 | 290 | 1455 | 991 | 2446 |
| B. Pham (Ayu) | 25 | 25 | 18 | 13 | 15 | 6 | 10 | 62 | | 62 |
| Teachers Course | | | | | | | | | | |
| B. Ed. | 3 500 | 4420 | 3984 | 4271 | 4243 | 4243 | 4243 | 20984 | 6068 | 27 0 52 |
| P. T. C. | 4040 | 5435 | 5000 | 5 000 | 5000 | 5000 | 50 00 | 25000 | 10455 | 3 5 45 5 |
| Medical and Para- Medical Courses. | | | | | | | | | | |
| Post-Graduate Courses | | | | | | | | | | |
| M .D. | N.A. | N.A. | 110 | 110 | 110 | 110 | 110 | 550 | 1 | 551 |
| M.S. | N.A. | N.A. | 55 | 55 | 55 | 55 | 55 | 275 | | 275 |
| M.D.S. | N.A.* | 13* | 10* | 10 | 10 | 10 | 10 | 50 | | 50 |
| Graduate Courses | | | | | | | | | | |
| M.B.B.S. | 675 | 675 | 720 | 720 | 712 | 625 | 625 | 3402 | 57 | 3459 |
| B.D.S. | 5 0* | 49* | 43* | 45 | 45 | 45 | 52 | 22 3 | | 223 |
| B. Sc. (Nursing) | 60 | 26 | 25 | 30 | 3 0 | 30 | 30 | 145 | | 145 |
| Para Medical Course | | | | | | | | | | |
| Gineral Nursing (Diplomi) | 745 | 462 | 445 | 440 | 440 | 440 | 440 | 2205 | 70 | 2275 |
| Diploms in Homsopath | ny 130 | 130 | 7 5 | 74 | 73 | 75 | 7 5 | 372 | | 372 |
| Synitary Inspectors Course | 150* | 165* | 186* | 175 | 175 | 175 | 175 | 886 | 155 | 1041 |
| Health Visitor | 125 | 28 | 45 | 30 | 40 | 3 0 | 30 | 165 | 2 | 167 |
| Auxiliary Nurse Midwifery | - 355 | 278 | 225 | 225 | , 225 | . 225 | .225 . | .1125 | 92 | 1217 |
| I. T. I. Certificate Cour | 'se; | | | | | | | | | |
| Wireman | 528* | 6 0 6* | 251 | 284 | 3 55 | 355 | 355 | 1600 | 747 | 2347 |
| Fitter . | 890* | 898* | 427 | 54 0 | 675 | 675 | 675 | 3042 | 513 | 3555 |
| Tarner | 636* | 679* | 400 | 452 | 442 | 442 | 442 | 2178 | 494 | 2672 |
| Mach mist | 264* | 322* | 158 | 178 | 23 2 | 232 | 231 | 1029 | 244 | 1273 |
| Mechinic Grinder | 48* | 43* | 36 | 41 | 41 | 41 | 41 | 200 | .1 | 201 |
| Building Construction | 16 | 18 | 15 | 16 | 16 | 16 | 16 | 79 | 8 | 87 |
| Watch Clock Repairer | 32* | 0 3* | 13 | 14 | 14 | 14 | 14 | 69 | 11 | 80 |
| Electrician | 576* | 583* | 396 | 448 | 460 | 56 0 | 56 0 | 2524 | 511 | 3035 |
| Instrument Mechinic | 240* | 258* | 148 | 167 | 209 | 207 | 2 09 | 942 | 165 | 1-107 |
| Rafregerator Mechanic | 208* | 224* | 70 | 79 | 100 | 100 | 100 | 449 | 70 | 519 |
| Civil Dr ftsman | 288* | 299* | 69 | 78 | 105 | 106 | 105 | 462 | 193 | 655 |
| Mechanical Draftsman | 176* | 185* | 109 | 123 | 160 | 160 | 160 | 712 | 121 | 833 |
| Surveyor | 144* | 166* | 68 | 77 | 97 | 97 | 97 | 436 | 92 | 528 |
| Radio T. V. Mechanic | 144* | 89* | 36 | 41 | 45 | 45 | 45 | 212 | 1 | 213 |
| Pattern Marker | 48*. | 42* | 21 | 24 | 30 | 30 . | 30 | 135 | 37 | 172 |
| General Machaic | 192* | 185* | 76 | 85 | 105 | 105 | 105 | 476 | 64, | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---------------------------------------|------------|------|------------|-----|-----|-----|-----|------|-------------|--------------|
| Engineering-Cam- Electric Mechanic | 64* | 66* | 37 | 42 | 49 | 49 | 49 | 226 | | 226 |
| Rural Workshop Mechanic | 48* | 32* | 14 | 20 | 20 | 20 | 20 | 94 | 5 ′ | 99 |
| Maintenance Mechanic | 16 | 2 | •• | 2 | 2 | 2 | 2 | 8 | 11 | 19 |
| Electroplater | 16* | 16* | 8 | 9 | 9 | 9 | 9 | 44 | 13 | 5 7 |
| Motor Mechanic | 448* | 616* | 205 | 231 | 235 | 265 | 265 | 1131 | 76 8 | 1809 |
| Tool Dre Maker | 32 | 28 | 20 | 28 | 32 | 32 | 32 | 144 | 16 | 160 |
| Welder | 612* | 614* | 441 | 500 | 500 | 500 | 500 | 2441 | 516 | 295 7 |
| Sheet Metal Worker | 16* | 18* | 14 | 14 | 14 | 14 | 14 | 70 | 9 | 79 |
| Painter | 16* | 19* | 15 | 15 | 15 | 13 | 13 | 71 | 14 | 85 |
| Moulder | 96* | 55* | 55 | 65 | 65 | 65 | 65 | 315 | 37 | 352 |
| Carpentry | 64* | 32* | 20 | 24 | 25 | 25 | 25 | 119 | 18 | 137 |
| Mechanic (Tractor) | 176* | 169* | 55 | 56 | 65 | 65 | 65 | 315 | 11 | 326 |
| Machanic (Diesel) | 368* | 435* | 106 | 125 | 125 | 125 | 125 | 606 | 318 | 924 |
| Plumber | 48* | 35* | 45 | 47 | 50 | 50 | 50 | 242 | 48 | 290 |
| Hand Compositer | 32* | 35* | 20 | 22 | 25 | 25 | 25 | 117 | 11 | 128 |
| Shoungeaphy | 16)* | 165* | 3 0 | 35 | 35 | 35 | 35 | 170 | | 170 |
| Foot-Wear | 32* | 10* | 6 | 6 | 6 | 6 | 6 | 30 | ** | 30 |
| Book Binder | 16* | 11* | | 2 | 2 | 2 | 2 | 8 | 2 | 10 |
| Letter Press Mechanic | 32* | 29* | 30 | 32 | 35 | 35 | 35 | 167 | | 167 |
| Handi-Craft | 32* | 18* | 14 | 14 | 14 | 14 | 14 | 70 | | 70 |
| Armature Winding | 32* | 25* | 12 | 12 | 12 | 12 | 12 | 60 | 26 | 8 6 |
| Suit case Manufacture | 16* | | 12 | 13 | 15 | 15 | 15 | 70 | 4.0 | 70 |

⁽a) State are adjusted according to facilities.

^{*}Information is for the year 1980

N.A. = Not Available.

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STATEMENT—VIStatement showing probable out-turn during 1980-85, number on live registers of employment exchanges and total availability during
1980-85

| Category/Course | Estima | ted out-tu | rn during | the plan pe | eriod | Total | Total on | Total Availa- bility |
|---------------------------------|-------------------------------|--------------|-----------|--------------|----------------|----------|-----------------------|----------------------------|
| | 1980-81 | 1981-82 | 1982-83 | 1983-84 | 1984-85 | (2 to 6) | L.R. as on 31-3-80 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. Non Tochnical Post Graduates | 3840 | 4055 | 4270 | 4485 | 4 700 | 21350 | 2565 | 23915 |
| Arts | 2015 | 2105 | 2195 | 2285 | 2375 | 10975 | 1313 | 12288 |
| Science | 825 | 875 | 925 | 975 | 1025 | 4625 | 682 | 5 3 07 |
| Commerce | 1000 | 1075 | 1150 | 1225 | 1300 | 5750 | 570 | 6320 |
| 2. Non-Technical Graduates | 38705 | 41455 | 44205 | 46955 | 49605 | 220925 | 35553 | 256478 |
| Arts | 15625 | 16525 | 17425 | 18325 | 19225 | 87125 | 16192 | 108817 |
| Sejence | 4200 | 435 0 | 4500 | 46 50 | 4800 | 22500 | 4989 | 27439 |
| Commerce | 15480 | 16780 | 18080 | 19380 | 20680 | 90400 | 14295 | 10469 |
| Law | 3400 | 3800 | 4200 | 4600 | 4900 | 20900 | 127 | 2102_ |
| 8. S.S.C. | 1,51,072 (Ac tual) | 180000 | 200000 | 220000 | 24000 0 | 9,91,072 | 1,93,069 | 11,84,14 |
| | | | | | | | | |

"affluence does not always improve the quality of life and industry which provides us with our necessities and our luxuries is also largely responsible for the pollution of air and water. I hope our own industrialists will take active interest in ecology in ensuring clean living and in preserving the beauty of our environments whether it is natural beauty or man made monuments." -SMT. INDIRA GANDHI • Extract from the inaugural address delivered by Prime Minister Smt. Indira Gandhi on 25th March, 1972 in New Delhi at the 45th annual session of the Federation of Indian Chamber of Commerce and Industry.

CHAPTER-VII

IMPLEMENTATION OF TWENTY POINT PROGRAMME

- 7.1. The Twenty Point Programme aims at eradication of poverty. The programme is a pivot on which success of the programmes for the welfare of weaker sections depends. In order to boost up the pace of implementation and to ensure timely accrual of the benefits to the weaker sections of society, it is proposed to set up a High Power Committee at the State level with the Chief Minister as Chairman and a full time executive chairman with the rank of a Cabinet Minister.
- 7.2. The Sixth Five Year Plan 1980-85 provides for an outlay of Rs. 2077 crores for various programmes included in Twedty Point Programme, which constitutes nearly 55% of the total outlay for the Sixth Plan period.

Production Procurement and Distribution of Essential Commodities.

- 7.3. Government is vigilant on curbing the rising trend in the prices of Essential Commodities. Various administrative measures have been taken in this direction. Constitution of Secret Fund, formulation of Vigilance Committees, introduction of Reward schemes and strengthening of intelligence wing in the Civil Supplies Department are such measures which would ensure effective implementation of policy. In order to ease the availability of the essential commodities the State Government has established Civil Supplies Corporation which would help holding the price line in time of stress. It would also under-take procurements, storage and distribution of-essential commodities which would gradually take up a sale mix of items like Tea, Soap, Match Boxes and Soda-ash through Fair Price Shops. This would serve the weaker sections more particularly the tribals, small and marginal farmers and agricultural labourers in the rural areas. The Corporation would also open Fair Price Shops in difficult, and inaccessible backward areas so that, the weaker sections residing in these areas would get essential supplies time at reasonable prices. In order to promote consumer awareness and educate them for dissemination of the relevant information, efforts are being made through display of cinema-slides, advertisement in newspapers as well as booklets and pamphlets explaining rights under various orders relating to Essential Commodities Act, Prevention of Food Adulteration Act, Weights and Measures Act. etc. A provision of Rs. 1.5 crore is made in the Sixth Five Year Plan towards share capital as well as the consumer movement.

production to 53.50 lakh tonnes by the end of the Sixth Five Year Plan period. In order to bring the desired results, training and visits system has also been introduced in the agricultural sector. This would provide effective and timely guidance to the farmers at the village level, understand their problems as well difficulties and offer them technical guidance for solving their problems. In order to solve the problems of shortage of edible oil, Government has launched programme for summer groundnut cultivation which would promote more production and result in enhanced availability of edible oil. 5.43 lakh hectares of additional land would be covered by the end of 1984-85 under the programme. Similarly in order to provide reasonable price for the cotton, Government has provided Revolving Fund of Rs. 10 crores to the Cotton Marketing Federation which would enable them to obtain better prices of their produce.

Implementation of Agricultural Lands Ceiling Act.

7.5. In order to ensure speedier distribution of agricultural land among agricultural labourers, State Government has accelerated the implementating of Agricultural Land Ceiling Act. Additional 40 agricultural land tribunals have been set up raising the total number to 55. 17768 hectares of land, out of 18012 hectares of land declared surplus under the pre-revised Ceiling Act, has been distributed to 14730 beneficiaries. Out of them 1486 belong to schedule caste and 9937 to scheduled tribes with allotted area of 2443 hectares and 7778 hectares respectively. By January, 1981 another 27450 hectares of land has been declared surplus under the revised Ceiling Act. Possession of 8008 hectares is taken and 1593 hectares is disposed off on permanent basis.

Updating Record of Rights.

7.6. In order to update village record of Rights, eight Record of Rights teams are functioning in the State. The teams have completed their first round in 14 districts and have started second round in 12 districts of the State. The work has been completed in 16258 villages in first round and 9226 villages in second round. 67392 cases of concealed tenants have been discovered by these teams of which 58411 have been brought on record. 14619 cases of concealed tenants known as "Bhalamania" have also been discovered in Kachchh area. It is proposed to carry out work of updating the record in 5857 villages-2118 in the first round and 3739 in the second round-at an estimated cost of Rs. 110 lakhs.

Housesites to the landless labourers and Construction of Houses

7.7. For the benefit of eligible rural families last date for submission of application has been extended to 31st December, 1981, for housesites to the landless labourers. 4.28 lakh plots have been allotted to eligible families free of cost by the end of January, 1981 and 1,53,665 houses constructed on these plots. In order to ensure the intensification of this programme the scheme has been liberalised to provide pucca houses costing Rs. 3,000 per house and steps have also been taken for easy availability of institutional finance. Gujarat Rural Housing Board would get finance directly from HUDCO/Banks and disbursed to the beneficiaries through Taluka and District Panchayats. 3.12 lakhs houses are proposed to be constructed during Sixth Five Year Plan period and an amount of Rs. 3227 lakhs is provided for the purpose which includes Rs. 142 lakhs to meet with the cost of land acquisition.

Implementation of Minimum Wages Act

7.8. It is extremely necessary to ensure payment of legitimate wages to the workers more particularly in rural areas. The machinery of enforcement of Minimum Wages Act has been strengthened in the State in 73 talukas having population of agricultural labourers more than 10,000. A separate post of Rural Labour Commissioner is also created alongwith staff, which would look after the implementation of the Minimum Wages Act for agricultural labourers. Government has also appointed a Committee in September, 1980 to recommend revision of rates of minimum wages to agricultural labourers. The report from the Committee is awaited.

Irrigation Development

7.9. Water is considered a critical inputs for agricultural production. Increase in irrigation facilities is one of the important point under 20-Point Programme. Government also provides high priority for increasing irrigation potential and its optimal use during 1980-85 under the 20-Point Programme. As a result of major and medium irrigation projects the additional potential of 2.60 lakh hectares is proposed to be created during the Sixth Five Year Plan period raising the total potential to 12.72 lakh hectares at the end of 1984-85. Simultaneously utilisation is also proposed to be increased from 5.29 lakh hectares at the end of 1979-80 to 7.53 lakh hectares at the end of 1984-85. Stress has also been laid down to the development of minor irrigation. The outlay of Rs. 1068 crores has been provided in the Sixth Five Year Plan for Development of Irrigation, which includes Rs. 88 crores for minor irrigation.

Power Development

7.10. Power is important in the present energy erisis. Increase in consumption of power for industrial agricultural and domestic purposes requires to be properly planned so that the economic actvities may not suffer on account of power shortage. Existing installed capacity 2384 MW would be raised to 3730 MW by the end of 1984-85. In order to electrify the rural area of the State it is proposed to cover as many villages as possible under the rural electrification programme. 11879 villages have been electrified by the end of December, 1980. All the villages (18275) would be electrified by the end of Sixth Plan, which would cover all Harijan localities in rural areas.

Handloom

7.11. There are 20471 handlooms in the State. Of these 50 per cent are in the Co-operative field. The Gujarat Handloom Development Corporation provides assistance to handlooms outside the co-operative sector. An outlay of Rs. 470 lakhs is provided for the development of Handloom sector in the plan period 1980-85.

Implementation of Gujarat Rural Debtors Relief Act

- 7.12. Out of 41452 applications received under the Gujarat Rural Debtors Relief Act, 1976, 33194 applications were required to be published by the local bodies. Out of these 27800 applications have already been published and 19908 applications have been disposed off by the Debt Settlement Officer by the end of December, 1980 granting relief to 10763 debtors to the tune of Rs. 2.21 crores. The remaining applications would be expedited.
- 7.13. As a follow up action to meet the credit requirements of beneficiaries on account of implementation of the Act, alternative sources of finance are also being tapped. Since most of the borrowing by them are for the household expenditure arrangements have been made to provide them consumption loans through Farmers Service Societies/Large Agricultural Multi-purpose societies. Provision has been made of Rs. 30 lakhs for the risk fund subsidy to be given to the societies who are not able to recover the loans given for pure consumption purpose. Since the granting of pure consumption loans will not achieve the objective of rehabilitation of such groups, it has been decided to secure production credit for these beneficiaries from the commercial banks. Bankable schemes are therefore being prepared by the State Corporations to improve the economic condition of these people and make them self reliant.

Implementation of Apprenticeship Act

7.14. Under the Apprenticeship Scheme 12000 seats have been sanctioned by the end of 1979-80.

The utilisation of seats has increased from 8425 at the end of 1979-80 to 10392 by the end of January, 1981. Of the total number of seats utilised, 1001 seats have gone to scheduled castes, scheduled tribes and disabled, while 334 seats have gone to the minorities. Looking to the phenomenal growth of the industries it is proposed to sanction additional 5000 seats during the period of Sixth Five Year Plan 1980-85.

Workers' Participation in Industries

7.15. Under the scheme for Workers' Participation in the Industries, Joint Management Councils have been formed in 182 units under both the voluntary and statutory schemes of Joint Management Councils. An outlay of Rs. 5 lakhs has been provided for the implementation of schemes for the Sixth Five Year Plan period 1980-85.

Supply of Text Books

7.16. Students coming from the weaker section of the society are not able to purchase text books

for their studies at secondary and high secondary stage of education. The scheme envisages provision for free supply of text books to such students. It is proposed to supply 1.40 lakh sets of text books at an estimated cost of Rs. 35 lakhs during 1980-85.

Report of the Working Group of Reserve Bank of India

7.17. The State Government has begun the implementation of the recommendations of Working Group of the Reserve Bank of India set up under the chairmanship of Shri K. S. Krishnaswami. The work of identification of beneficiaries under Twenty Point Programme is in progress. Viable economic schemes for such beneficiaries are formulated in consultation with State development agencies. On the part of banks also the definition of "Priority Sector Lendings" is liberalised and most of the beneficiaries under Twenty Point Programme are now covered under the "Priority Sector Lendings" by banks. The current ratio of priority sector advances to the total advances by banks would be raised from 33-1/3 % to 40 % by 1985.

CHAPTER-VIII

DISTRICT PLANNING

8.1 Decentralisation of Planning Process.

- 8.1.1. Effective decentralisation of the planning process is one of the basic prerequisites for harnessing local resources and man-power more fully and for carrying the benefits of development to smallest area units and the poorest sections of the people and promoting beneficiary participation in the dynamics of growth. The most viable unit of planning at the Sub-State Level is the district at present. The need for a careful delineation of the sectors of development that can be effectively planned at the district level and devising a scheme of transfer of resources from the State to the districts in order to enable them to formulate their development plans within a given resource matrix have been fully recognised. In the Draft Sixth Five Year Plan prepared by the Planning Commission for the Period 1980-85 emphasis has been laid on grass-root planning by augmenting the capabilities of development administration both at the district level as well as the block level. Need for planning for rapid economic and social development in a democratic frame with people's willing participation has also been recognised. For effective implementation of the plan objectives, arrangements for the people's involvement in the planning process will require to be reviewed and strengthened.
- 8.1.2. The idea of District Planning was being entertained right from the Second Five Year Plan. With the introduction of the Panchayati Raj in 1963, certain powers as also number of district level schemes were transferred to panchayats alongwith funds and personnel. This could be considered as the first concrete phase in this direction. At the time of the formulation of the State's Fourth Five Year Plan and Fifth Five Year Plan, attempts were made to involve the District Panchayats in the formulation of the proposals. For this purpose, tentative ceilings were also indicated and the District Panchayats were requested to formulate proposals in respect of district level schemes within those prescribed ceilings and send them to the concerned working groups set up at State Level for formula-tion of the sectoral proposals. It was expected that while formulating their proposals, the Working Groups would take in to account the proposals received from the District Panchayats. However, many District Panchayats had sent their proposals very late and even in case where proposals were received, some of them were not found in order and were in far excess of the ceilings prescribed. Besides, the very process of finalising the State Five Year plan was also delayed for various reasons.
- 8.1.3 In the context of formulating the proposals for the earlier Five Year Plan for the period 1978-83,

efforts were made to get the proposals from the districts and integrate them at the State level. For this purpose, the District Planning Boards were requested to formulate proposals for district level schemes and send them to concerned Steering Groups which were set up at the State level for preparing the sectoral proposals for the State Plan. However, many of the District Planning Boards could not adhere to the time schedule. The period of the Sixth Five Year Plan was subsequently decided to be reckoned as 1980-81 to 1984-85. Besides, as the draft plans of the States were required to be discussed with the Planning Commission according to the time schedule prescribed by them, it did not become possible to delay the finalisation of the State's draft plan. Thus, for a variety of reasons, it did not become possible to ensure full integration of the proposals received from the districts in the State's Plan.

8.2. District Planning Boards

8.2.1. Thus efforts made in the past to associate the District Panchayats/District Plannng Boards in the formulation of the plan have not yielded satisfactory results for a variety of reasons. But, now having regard to the importance attached to the decentralisation of the planning process and with a view to making planning at District Level more effective and ensuring its integration with the State Plan, the District Planning Boards which were set up at the district level have been reorganised recently i.e. on 11th September 1980. The constitution of the re-organised District Planning Board is as under:-

(1) District Collector

Chairman

(2) President of the District Panchayat.

Co-Chairman

- (3) Taluka Panchayat Presidents
 of two or three talukas of the
 District (Two for small district
 and three for large district). Member
- (4) All M. P.s elected from the District. Member
- (5) All M. L. As elected from the District. Member
- (6) President of one of the Municipali: ties in the District. Member
- (7) Mayor of the Municipal Corporation (in the District having Municipal Corporation) Member

- *(8) The President of one of the Nagar Panchayats in the district. Member.
- (9) An expert from a Research Institution.

Member.

(10) A Representative of the District Lead Bank.

Member.

(11) Chairman-District Central Co-operative Bank.

Member

(12) District Development Officer

Member

(13) Project Administrator, Tribal Area Development Project

Member

(14) A Member of the State Planning Board

Member

(15) District Planning Officer

Member-

....

Secretary

(16) District Statistical Officer

Additional Member-Secretary

(17) Officer of the G.A.D. (Planning Division)

Observer

Minister(s) from the district as also a representative of the Reserve Bank of India are expected to be invited to attened the meetings of the Board.

*as may be nominated by Government.

Mo eover, a mall Executive Planning Committee for ensuring effective working of the District Planning Board has also been constituted as under:—

| (1) | District Collector | Chairman |
|-------------|---|------------------------------------|
| (2) | President of the District Panchayat | Co-chairman |
| (3) | District Development Officer | \mathbf{Member} |
| (4) | Project Administator, Tribal A ea Sub-Plan | Membe r |
| (5) | District Planning Officer | Member- Secretary |
| (6) | District Statistical Officer | Additional Member- Secretary |

8.2.2. With a view to assisting the District Planning Board in the work of formulation and monitoring the implementation of District Plans continuously, it has been decided to constitute the following Task

Forces on which members will be appointed by the concerned District Planning Board.

- (1) Agriculture and allied services including cooperation and irrigation.
 - (2) Small and cottage industries.
- (3) Social Services including primary education, adult education, rural health services, rural water supply, rural housing, environmental improvement of slum areas and nutrition.
- (4) Development of primary infrastructure facilities, such as rural electrification, storage and warehousing and roads.

The District Planning Boards of Surat, Bharuch and Valsad have been advised to set up a separate Task Force for Housing and other problems of Halpatis and Agricultural Labourers whose population is substantial in those districts.

- 8.2.3. A Steering Group has been set up at the State Level to provide proper guidance to the District Planning Boards in their task of plan formulation.
- 8.2.4. The functions of the District Planning Board are as under:-
 - (1) To prepare Perspective Plan, Five Year Plan and Annual Plan of the District, ensuring balanced development of the district by continuous study of the socio-economic and cultural environments of the district and keeping in view and assessing the local resources of the district and formulate the programme as an integral part of the frame-work of the broad policy of the State and satisfying the requirements of the local areas reasonably and realistically.
 - (2) To frame specific schemes in various fields keeping clearly in view their size and form with reference to the priorities fixed by the State Government and to pay special attention to the upliftment of the economically backward and weaker sections of the society in the district planning.
 - (3) To ensure that planning becomes realistic, willing and maximum participation and help of local bodies, industrial houses, and people from different strata of society becomes available in the formulation and implementation of the plan programmes.
 - (4) To undertake regular and effective review and evaluation of all the district level schemes and programmes being implemented in the district and on the basis thereof to strive continuously to remove bottlenecks and take remedial measures for the successful implementation of each scheme.

- (5) To undertake special monitoring and evaluaation of the implementation of Minimum Needs Programme from amongst the programmes mentioned above, as it is proposed with reference to the rural areas and its benefits accure mainly to the rural areas.
- 8.2.5. The District Planning Boards are thus to provide a main window to the rural poor. They are expected to ensure effective co-ordination through periodical review of all special programmes in the field of agriculture, the Minimum Needs Programme, the Tribal Sub-Plan, the Component Plan, and other sectoral programmes. The District Planning Boards have also been assigned an important role in formulating a large number of small but meaningful programmes out of the discretionary outlay which constitutes a sizeable part of the outlay on district level schemes.

8.3. Criteria for Districtwise Distribution of Outlay.

- 8.3.1. It has been aimed that 35 percent of the State Plan outlay should on an average be allotted for district level schemes during the period of the Five Year Plan and 20 percent of the ditroit plan outlay so allotted be earmarked as discretionary and incentive outlay. However, to begin with an outlay of Rs 1125 crores has been envisaged in the State's Sixth Five Year Plan for being alloted toward District Five Year Plans and an amount of Rs 200 crores therefrom is earmarked for being allocated to District as discretionary and incentive outlays taken to gather during the Sixth Five Year Plan period.
 - 8.3.2. For determining the districtwise distribution of the outlay for district plan which may be set apart from the State Plan, it has been decided to adopt the following criteria:

| | ± | • |
|----|---|---------|
| | \mathbf{Item} | Percent |
| 1. | Population (excluding Towns having population of 50,000 and above) | 40 |
| 2. | Population of scheduled castes, scheduled tribes and small and marginal farmers and population of agricultural labourers other than scheduled castes and scheduled tribes. | n 15 |
| 3. | Agricultural Backwardness | 10 |
| 4. | Irrigational Backwardness | 10 |
| 5. | Industrial Backwardness | 5 |
| 6. | Backwardness in the spheres of Roads and Drinking Water. | 10 |
| 7 | Backwardness in respect of the targets of other selected | |
| | minimum needs. | 5 |
| 8. | Incentive provision | 5 |
| | | 100 |

- 8.3.3. With a view to providing greater latitude to the District Planning Boards in suggesting such schemes as they may consider useful in the context of the local development needs, it has been decided to initiate a distinct feature of earmarking a specific outlay therefor. Accordingly, the part of the State Plan outlay allocable for district level schemes would be divided into the following three categories:--
 - (a) Provision for the normal district level schemes in the State plan to be proposed in the light of priorities and guidelines given by the State.
 - (b) Provision for providing complete latitude to the District Planning Boards in suggesting such schemes as they may consider useful having regard to the local needs and local potential.
 - (c) Provision as an incentive provision to raise additional financial resources at district level. In order that backward districts may also be able to derive adequate advantage of this incentive provision, proportion of additional financial resources to be raised by them has been kept low in the case of districts where half or more than half of the talukas are cove red under Tribal Area Sub-Plan or Drought-Prone Area Programme. Thus the proportion of incentive provision and the financial resources be raised by $_{
 m the}$ District concerned are as follows:--

| , | | ne of the | of incent | ive. | cial to | ceso: ed | of finanturces. to by the District. |
|---|----------------------------|---|-------------|----------------|--------------|-------------|-------------------------------------|
| | | 1. | 2 | | Concer | 160 | 3 |
| | 3. 4. 5. 6. 7. | Dangs Panchmaha Bharuch Valsad Surat Kachchh Banaskant Surendrana Remaining Districts | ha agar. | 5 er ent | 25 ercent | | rcent per cent |
| | | | | | | | |

8.3.4. Proposals made by the District Planning Boards for the district plan outlay in regard to the district level schemes from the normal plan, keeping in view the priorities and guidelines given by the State Government are expected to be incorporated by the concerned Heads of Departments and Administrative Departments in their Plan and Budetrny proposals, without effecting any change unless there are any special reasons therefore. In case

wthere there are special reasons to effect any change, the changes made are expected to be intimated to the concerned District Planning Board.

- 8.3.5. Provision for schemes to be formulated by the District Pianning Boards against the discretionary and incentive outlays allocated to them is being made under one budget head "314-Community Development-B-Community Development Programme" for operational convenience.
- 8.3.6. The District Planning Boards have been fully empowered to reappropriate between two subheads within the same minor head from the above provision for district level scheme in the normal plan during the year. Besides, the District Planning Boards are allowed to propose reappropriations upto 10 per cent of the provision made for the sector concerned and the Heads of Departments concerned have to incorporate the same in their proposals for reappropriations.

For schemes taken up against the discretionary outlay, the District Planning Boards can make reappropriations remaining within the ceilling for the discretionary outlay for the district. From the provision, for district level schemes in the normal Plan, no reappropriation shall be made towards schemes suggested under discretionary outlay.

8.4. Outlays in the district plan 1980-85.

- 8.4.1. The process of involving the District Planning Boards in the formulation of the District Annual Plans was initiated from the year 1980-81. To begin with, an outlay of Rs. 140 crores was initially allocated for the District Plans within the State Plan outlay for 1980-81. It was divided into three parts namely for district level schemes in the normal plan, and for schemes to be suggested by District Planning Board against the discretionary and incentive outlays respectively.
- 8.4.2 The final size of the State Annual Plan 980-81 now stands at Rs. 537.50 crores. Besides a provision of Rs. 28 crores towards discretionary and incentive outlays placed at the disposal of the District Planning Boards, the above State Plan outlay also includes an outlay of about Rs. 178 crores for District level schemes in the normal plan provided for by the respective departments in their development sectors and which are amenable for district-wise break-up.
- 8.4.3 Within the discretionary and incentive outlays, the District Planning Boards have been given the discretion to plan, having due regard to urgent and local needs of the District, mainly in selected fields such as Agriculture, Minor Irrigation, Cottage Industries and the programmes covered under the Minimum Needs Programme such as Primary Education, Adult Education, Public Health, Drinking Water Supply and Rural Roads.

The District Planning Boards have to formulate the schemes to be financed from this outlay. These schemes are sanctioned by them and got implemented through respective departments and agencies. It is this discretionary outlay that has aroused good deal of optimism among the District Planning Boards and by and large, efforts have been made by them to formulate meaningful programmes, providing missing links in the existing infrastructure at the village, taluka District level.

8.5. Formulation of District Five Year Plan for 1980-85.

8.5.1 The process of prepration of the Five Year Plan for 1980-85 and Aannual Pflan 1981-82 forhe Districts has also been initiated. Tentative outlays for different districts have been suggested to the districts for formulating their proposals for the Five Year Plan 1980-85 and Annual Plan 1981-82. General guidelines to be kept in view while preparing proposals have also been given. The administrative departments and the Heads of departments are also expected to provide necessary guidance to the District Planning Boards in the task of formulation of their proposals. The tentative outlays for District Five Year Plan for 1980-85 are indicated in the statement given in Appendix-I

8.6 District Planning Organisation.

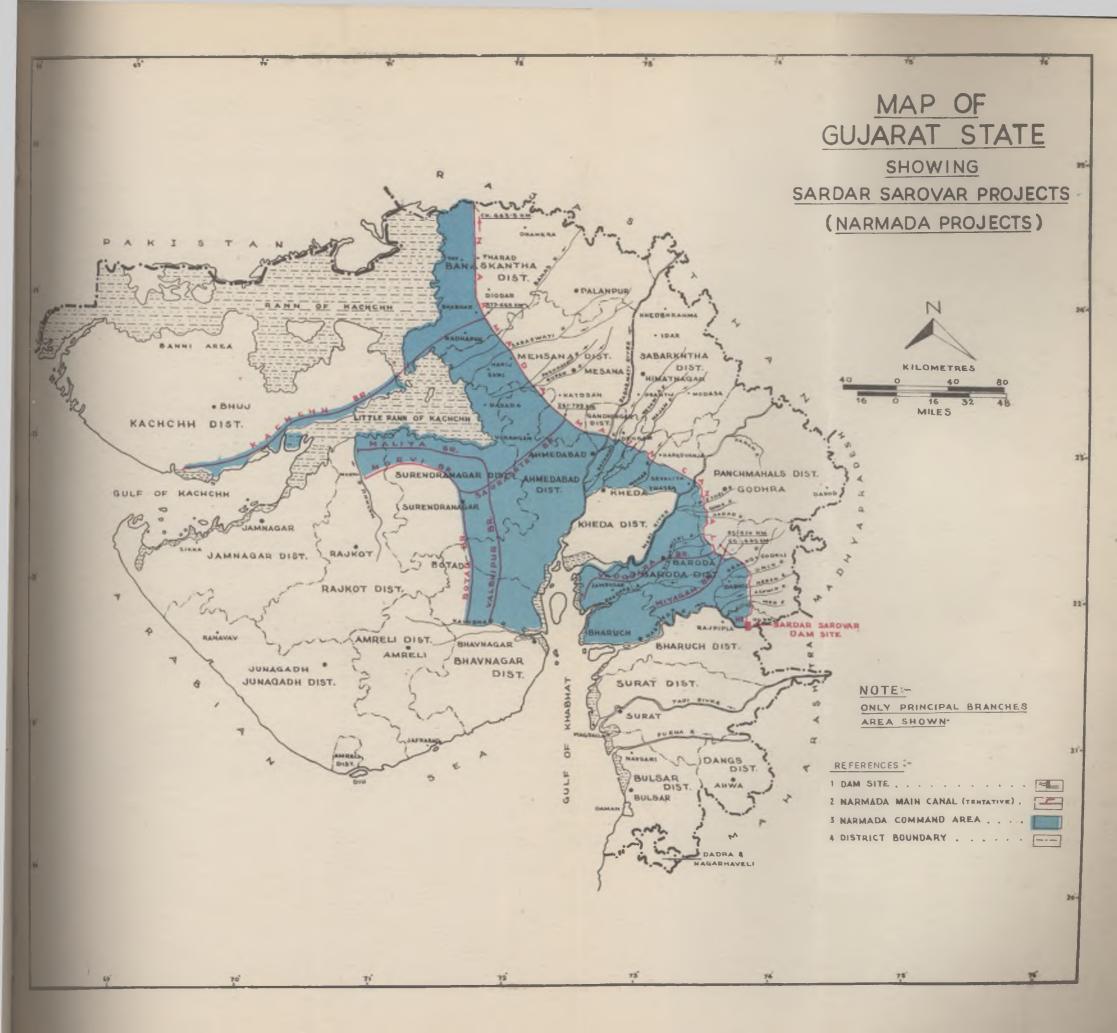
8.6.1 Till the end of the Fifth Plan there was no separate planning unit at the district level. There had been a lack of unified direction and effective synchronisation of district planning activities transferred to the Panchayats and those retained by the Government. Monitoring of the implementation of district level programmes had also suffered in consequence. The State Government has now appointed District Planning Officer in all districts ${f the}$ technical with a small staff under the Collector of District. The District Planning Officer also functions as the Member-Secretary of the District Planning Board. Steps have also been taken to bring about close co ordination between the work of the District Statistical Office under the District Panchavat and the District Planning Cellunder the Collector. District Statistical Officer has been appointed Member-Secretary of the Dis-Additional as Planning Board. In the context of the responsibilities now cast on the District Planning Board the organisation and the structure of the District Planning Cell will be reviewed from time to time and suitable strengthening and improvement will be effected as and when necessary. Strengthening planning machinery at the district level and at the block level, improving the data base, strengthening the capacity at the district level for rapid quantitative and qualitative analysis through electronic data processing are some of the measures which deserve consideration at the National level by devising suitable scheme under centrally sponsored programme.

APPENDIX—I

Statement showing Destrictwise allocations of tentative outlay for District Five Year Plans for 1980-85.

(Rs. in lakhs)

Districtwise distribution of total outlay for District Five Year Plans for 1980-85 Sr. No. Name of the District Outlay for district level Discretionary Incentive Total Funds to be raised outlay (Col. 3 to 5) outlay by the district to become eligible elig**ible** schemes in the for getting the incentive outlay shown in Col. 5 normal plan 6 2 3 4 6 7 1 278 832 6244 278.00 1. Ahmedabad 5134 566 188 4241 188.00 3487 Amreli 2. 3987 646 216 4849 72.00 Kachchh 3. Kheda 6937 1125 375 8437 375.00 4. 296 98 2216 1822 98.00 5. Gandhinagar 601 201 3709 4511 201.00 6. Jamnagar 277 7. Junagadh 5125 831 6233 277.00 404 134 3026 44.67 2488 8. Dangs 414 1240 9304 7650 138.00 Panchmahals 9. Banaskantha 5162 837 279 6278 93.00 10. 5087 825 275 6187 91.67 11. Bharuch 246 738 5535 246.00 12. Bhavnagar 4551 1065 355 7987 355.00 6567 13. Mahesana Rajkot 4051 657 219 4927 219.00 14. 331 15. Vadodara 6124 993 7448 331.00 332 **748**I 110.67 998 16., Valsad, 6151 278 278.00 832 6244 Sabarkantha 5134 17. 993 331 7448 110.33 18. Surat 6124 3904 57.67 19. Surendranagar 3210 521 173 15000 5000 112500 3564.01 Total . . 92500



CHAPTER IX

SECTORAL PROGRAMMES

1, Agriculture & Allied Programmes

- 1. The Agriculture Sector is the main contributor to the State income. More than 40 percent of the State income is contributed by the Primary Sector of agriculture, 65 percent of the working population depend on agriculture and allied pursuits for their livelihood. Agriculture and allied programmes play the most vital role in rural development. Agriculture, besides being a productive sector, possesses the greatest scope for absorbing the labour force.
- 2. Stress has, therefore, been laid on integrated rural development. Special efforts would be made to increase the share of more valuerable sections in the total agricultural production. Intensive programmes for Scheduled Castes and Scheduled Tribes have been launched with the objective of improving their productivity by supplying inputs at subsidised cost and to provide them better extension facilities. A dual scheme of better utilisation of water by the rotational system of irrigation in irrigated areas and special dry farming programmes in water-shed would also be implemented. Efforts would be made to raise out-put levels and employment intensity not merely in crop production but also in animal husbandry, dairying, horticulture, forestry and fisheries.
- 3. Special Programmes for rural development designed towards improving the social and economic status of rural poor especially vulnerable and weaker sections of the society would be impleented vigorously with a view to eradicate poverty and improving the quaity of life.
- 4. Out of the total plan outlay of Rs. 376000-lakhs proposed for the Sixth Plan 1980-85, an outlay of Rs. 50650 lakhs has been proposed for agriculture and allied programmes including Co-operation; the broad break-up of which is as under:—

| | (Rs. i | n lakhs) |
|------------|--|----------------------------|
| Sr. No. | Major/Sub-Major Head of Development | Outla ys 1980—85 |
| 1 | 2 | 3 |
| 1. | Research & Education | 1000 |
| 2. | Crop Husbandry | 3100 |
| 3. | Land Reforms | 1000 |
| 4. | Minor Irrigation - | 8800 |
| 5. | Soil & Water Conservation | 2894 |
| 6. | Command Area Development | 1877 |
| 7. | Animal Husbandry | 1770 |
| 8. | Dairy Development | 205 |
| 9. | Fisherics | 200σ |
| 10. | Forests | 9000 |
| 11. | Investment in Agricultural Financial Institutions. | ,350 . |
| 12. | Marketing, Storage and Warehousin | ng 176 |
| 13. | C. D. and Panchayats | 627. |
| 14. | Development of Backward Areas | 250 |
| 15. | Special Programmes for Rural Development. | 14407 |
| I. | Total: Agriculture & Allied Services | 47450 |
| II. | Co-operation | 3200 |

1.1. AGRICULTURAL EDUCATION AND RESEARCH

1.1.1. Introduction:

- 1.1.1.1. The Gujarat Agricultural University was established on 1st February, 1972 under the Gujarat Agricultural University Act, 1969. University aims at promotion of agricultural productivity in general and improving the economic conditions of the rural community in particular through integration of teaching, research and extension education. Keeping in view these broad objectives and State/regional needs of development in agriculture and allied sectors, the University started functioning from 1st June, 1972 with the transfer of teaching, research and extension education activities of the State Departments of Agriculture and Animal Husbandry and the Institute of Agriculture, Anand During the Fifth Five Year Plan, the University was engaged in its initial planning, organisation and institution building programmes for its growth and development in teaching, research and extension education.
- 1.1.1.2. In order to achieve the objectives of imparting education to the students, the University has three constituent colleges of agriculture at Anand, Junagadh and Navsari, one college of veterinary science and animal husbandry at Anand and one college of dairy science at Anand. All these colleges undertake under-graduate and post-graduate teaching. In order to regulate teaching in different areas and disciplines, the University has at present four faculties in operation namely the Faculty of (i) Agriculture (ii) Veterinary Science and Animal Husbandry; (iii) Dairy Science and (iv) Post-graduate studies . The Faculties of (i) Basic Sciences and Humanities; (ii) Home Economics; (iii) Agricultural Engineering and Technology provided in the Act and the First Statutes are yet to be established. The University is a multi-campus University and has four Campuses namely Junagadh, Anand, Navsari and Dantiwada, with its principal Campus at Sarder Krishinagar (Dantiwada) in the District of Banaskantha.
- system of education which was substituted by semester system. With the introduction of semester system, all the under-graduate and post-graduate courses were thoroughly revised and made more practical oriented as per the recommendations of Kothari Commission on Education, I. C. A. R.-Review Committee and National Commission on Agriculture for making agricultural, veterinary and dairy education more relevant to the needs of the society and linking of education with production having more emphasis on practical training. This has been supplemented by faculty competence-improvement, improvement in teaching and evaluation, implementation of U.G.C. scales of pay, library improvement and students welfare programme.

- 1.1.1.4. Considering the academic and research needs of the State, the University has established eight new departments namely Department of Farm Engineering at Junagadh, Department of Soil and Water Engineering at Navsari, Department of Agricultural Process Engineering at Anand and the Department of Rural Engineering at Dantiwada as well as Department of Plant Breeding and Genetics, Department of Nematology, Department of Bio-chemistry and the Department of Horticulture with the financial assistance from I. C. A. R.
- 1.1.1.5. The Gujarat Agricultural University had inherited under-developed Campus at Junagadh, Navsari and Anand. New main Campus at Dantiwada has been created after its establishment. All the four Campuses, 54 research stations and 25 extension educational institutions had inadequate infrastructural facilities such as staff quarters, approach roads, supply of electricity, drainage and water, farm buildings and structures, laboratories etc. The work of administrative building at Dantiwada with 387 residential quarters, shopping centre, bank building, guest-house, health centre, schools are completed. Development of other Campuses such as Anand, Junagadh and Navsari by proper designing and land scaping as well as minimum infrastructural developments have also been done during Fifth Five Year Plan.
- 1.1.1.6. The University is responsible alongwith teaching and research, for the agricultural extension education and training programmes through which research findings in the form of agricultural technolegy and package of practices are made available to farmers for their adoption and to solve theirproblems. The developments in the fields of extension education are the Extension Education Institute at Anand, the Sardar Smruti Kendra at Junagadh, Anand and Navsarı, the Krishi Vigyan Kendra at Deesa and the Tribal Research-cum-Training Centre at Devgadhbaria. All these centres serve as information and communication centres and training centres for farmers, extension and field workers and the students. The net-work of other extension training institutions are ten agricultural schools, one home science school, one school of baking, two farm mechanic-cum-artisan training centres, one livestock inspectors training centre, one bidi tobacco cultivation training centre, one poultry training centre, one applied nutrition centre. Add tionaly farm advisory sereices are also extxnded to farmers through 'Farmers Days', radio talks, demonstrations, operational research projects and publications of monthly "Krishi-Go-Vidya", GAU Research Journal and leaflets, booklets and pamphlets etc. All these activities serve for developing skills and productivity on the part of farmers, artisans, labourers and tribals engaged in the agriculture, animal husbandry and allied fields. The University has also participated actively in 'Lab-to-Land' programme of I. C. A. R.

With the introduction of the T and V (Belior) system in the State, the University has taken the responsibility for training subject matter specialists of the Department of Agriculture. Strong linkages between the University and development Departments of Government namely agriculture, animal husbandry, Panchayats etc. are developed for effective co-ordination and co-operation to strengthen the activeties of agricultural development in the State through dual representations in various bodies, committees, councils, training and extension programmes, visits and exchange of staff.

Research High-lights

Crop

Jo.

1.1.1.7. Research activities of the University Encompass the whole State of Gujarat and are carried out through 54 research farms located in varied agrolimatic conditions. Agricultural research at present ncludes mainly applied research problems with imphasis on inter-disciplinary, location specific and roblem oriented research. This includes research in cereals, pulses, m'llets, cotton, tobacco, oilseeds, ugarcane, fruit and vegetable crops, foraga crops pecies and medicinal crops. Besides, special emphasis as also been given to the research in the subjects of dry-farming, water menagement, agronomy,, lant protection, agricultural engineeing, agriculural economics, extension and statistics, animal usbandry, animal nutrition and reproductiveiology.

1.1.1 8. As a result of research efforts by the Iniversity from its inception, 49 improved varieties if different crops having better yield potential and unlity characters have been evolved and released or adoption by the farmers They are as under:

rop varieties evolved, released and recommended y Gujarat Agricultural University

Variet.es

| • | | |
|------------|------------------------------|--|
| 1. | Paddy | GAUR-1, GAUR-10, GAUR-100, GAUR-2, GR-3 and GR-11. |
| 2. | $\mathbf{W}_{\mathbf{heat}}$ | GAUW-10, A-28, GW-40, GW-18, LOK-1, |
| 3. | Bajra | GHB-J-1399. |
| 4 . | Jowar | CSH-5, CSV-3, GJ-103. CSH-6, CSH-8R, GJ-9. |
| 5. | Hill Millets | G-Nagli-1, G. Kodra-1, G. Vari-1. |
| 5. | Pulses | Uril-G-75, GAU-Muth-1, |

Urid-T-9.

| Sr.1 | No. Crop | Varities. |
|------|--------------------------|--|
| 7 | Spices and Condiments | Fennel YF-35, Coriander-GAU-C-1, Fenugreck-GAU-F-1, GAU-F-2, GAU-F-3, Garlie-GAU-G-1 and G-G-10. |
| 8. | Cotton | GAU-Cot-10, GAU-Cot-100, GAU-Cot-11. G-Cot-hy-6. |
| 9. | Tobacco | G-T-4. |
| 10. | Oilseeds | Groundnut-GAU-G-1, GAU-G-10 M - 13, Castor-GAUCH-1, GAU-C-1, Sesamum-G-Til-1, Mustard-Varuna. |
| 11 | Vegetables | Brinjal-G-6, Musk Melon-GMM1 and GMM-2. |
| 12 | Forage Crops | s Lucerna-GAU-L-2, Grass Dharaf-GD-1. |
| 13 | Medicinal Pla | nts Gujarat Isabgul-1. |

1.1.1.9. Gujarat State is pioneer in evolving hybrid in bajra, similarly Gujar t was the first State to develop and release castor hybrid. budded cotton combining characteristics of annual and perennial cotton was released and recommended for cultivation in tribal areas and for marginal farmers in Gujarat. Tobacco is one of the important cash crops of the State. The excellent research work on tobacco has helped to triple the yield of the crop after inception of the Research Station in 1954 largely due to evalution and adoption by the farmers of high yielding varieties and improved crop production and protection techniques. The most effective, economical and easy method for establishment of grafted mango by grafting Situ" grown mango seedling in dry regions of State has been evolved considering the several aspects of work and progress on horticultural crops. I.C.A.R. has now established a Horticultural Research Centre inGujarat at Vajalpur. In case of date research station has been located at Mundra in Kachchh and date suckers from abroad have been brought and planted there.

1.1.1.10. Cost of the seed in case of potato cultivation becomes the limiting factor as it has to be purchased from outside the State. With a view to supply cheaper seeds to farmers, University has taken-up research on seed production aspects.

1.1.1.11. Agronomic practices are also worked out for newly developed varieties. Fertiliser doses are modified and new recommendations based on cost

benefit ratio are made for economical use of fertilizers. More emphasis is given to non-monetary low cost inputs. For the purpose of economy work on Azolla and Bio-fertilizers is actively in progress. Schedules are also worked out for control of pests and diseases of the old and new crop varieties and recommendations are made with a view to provide plant protection umbrella.

- 1.1.1.12. Even-to-day the irrigation facilities are meagre in the State and only 16 % of the total cultivated area is under irrigation. 82% of the total area in the State comes under arid and semi-arid conditions of farming. Emphasis is, therefore, being given to evolve suitable technology, cropping patterns, crop mixtures and package of practices of soil-moisture, crops management to minimise risk in crop production which may in turn bring higher-production and income to the farming community of this region. Suitable crop variaties and other practices such as mixed cropping, contour bunding, land shaping and agronomical practices including fertilizer practices have been recommended.
- 1.1.1.13. Agricultural engineering plays a key role in increasing the farm efficiency and bringing down the production cost. Research in these disciplines is also undertaken as a result of which designing of low cost irrigation channels has been possible. Considerable progress in development of processing equipments like groundnut digger, groundnut sheller, castor decorticator and sprayig equipments has been made. Scheme for testing lift irrigation equipments and developing submercible motor pump suitable for the pumping water from open well with fluctuating water level have been successfully implemented.
- 1.1.1.14. In the fild of Animal Husbandry considerable progress has been made for increasing the milk yield per lactation and the decrease of mortality rate by developing suitable techniques for prevention carative measures. Similarly, the genetic improvement of indigenous breeds of cattle and under taking cross-breeding programmes for the development of desired herds are also in progress. Major achievements are that buffaloes can be successfuly bred during summer also and their pregnancy and milk-yield remain normal like buffaloes bred in winter. The experiment of bringing jersey cows has been successful. A bull mother farm for Jersey has been established and bulls are being supplied to different State Governments in India. In sheep breeding project, cross breeding of Patanwadi eves and exotic rams of Marino and Rambouillet breeds for improvement of wool yield and quality in local breeds is in progress.
- 1.1.1.15. A method for in-can-pasteurization of neera at 70°C for 30 minutes in a hot water bath followed by cooling to atmospheric temperature has

been developed which has made it possible to savlarge quantity of neera from spoilage and trans port of neera, from interior producing places to selling centres.

1.1.1.16. Farm forestry and energy plantation are the new areas where the University has undertaked research work which will not only help the farmed to increase their fuel resources but it will also help the State by only way of providing large number of products and energy materials to help tide over energy crisis.

Financial assistance from the I.C.A.R.

1.1.1.17. For University development, the University got financial assistance of about Rs. 400 lakh for various educational and research programmes University collaborated in 42 I. C. A. R. Co-ordinate Research Projects, Ad-hoc Projects and project of other agencies.

1.1.2. The strategy for development

1.1.2.1. Important considerations kept in vie. while formulating the Sixth Plan agriculture rese arch and educational proposal would be to achiev fundamental objectives of providing potentia employment, equitable distribution of benefits c development and enharcing rate of growth in agricu' tural sector at desired level, promoting self-reliance in agricultural and industrial production and balance development of all regions of Gujarat's eonomy. Whi analysing yield level of principal crops in the Stat it has to be recognised in case of a number of the the yields are well below then national leve The targets for the Sixth Plan for agricu'to production indicate the magnitute task of increasing production and consequently carri out research and education programmes is of an enomous magnitude. The identification of the gaps an needs in agricultural research and educatic would form the basis for investment proposals for supporting education and research at G.A.U.

1.1.3. Programmes for 1980-85

1.1.3.1. An out-lay of Rs. 1000/-lakhs is proposed for the Sixth Five Year Plan1980-85 for the programmes of Agricultural Education and Research A broad break-up of this outlay is given below.

Programme

1. Agricultural Education 554.00

2. Agricultural Research 346.00

3. State Share in I. C. A. R. 100.00 Schemes.

TOTAL:- 1000.00

1.1.3.2. The Gujarat Agricultural University aims at promotion of agricultural productivity in general and improving the economic conditions of the rural community in particular through integration of teaching, research and extension, Keeping in view these broad objectives and State/ regional needs of development in agriculture and allied sectors, the University has chalked out the programmes for the Five Year Plan as under:-

Agricultural Education

College Education

1.1.3.3. Education in Agriculture, Dairy and Veterinary has been throughly revised semester system and made more practical oriented as recommendations of I. C. A. R. Review Committee and National Commission on agriculture. The revision of cources and curricular structure in riew of the introduction of 10+2+4 system of education makes agricultural education more relevant to the practical needs of the society and linking of education with production. This necessitates increasing the practical content in the courses, introduction of electi ves and job-oriented courses, crop and animal production courses, and "Earn while you Learn"-This requires strengthening under graduate teaching by establishing and developing instlaboratories, equipments etc. farms, Post-graduate teaching and research in agriculture, veterinary and dairy disciplines have to be strengthened to accomodate latest scientific developments and greater element of basic sciences in the curricula. This will necessitate the strengthening of the existing departments and establishment of the new departments of agricultural meteorology, post-harvest technology, farm forestry, basic sciences and other departments to support and associate inter-disciplinary research programmes.

1.1.3.4. Establishment of Faculty of Home-Economics and College of Home Science would help to carry out teaching and research in different aspects of family science with a view to improve health of rural masses through improved technology food and nutrition, chi'd development, home and parm management and gainful employment of rural women.

Students' welfare programmes

1.1.3.5. Students' welfare programmes are designed for alround development of students personality and character through sports, games and students amenities like health contres, cafetaria, gymnasium, play-ground, students housing and dining facilities and schemes for physical education, cultural and accreational facilities and the schemes for students counselling. magazines, aid funds and placement pervices and establishment of book banks and production of new books. Special scholarships and fello whips are to be awarded to best students.

1.1.3.6. With a view to up-grade the quality of teaching and academic standards in the fields of teaching, in research and extension education, the University has to develop the programmes of human resources development for improvement of faculty competences through programmes of advance-training of teachers, workshops, seminars, conferences instructional and study tour, developing teaching aids and guest lectures.

1.1.3.7. Library as being an integrad component of learning, campus libraries have to be strengthened by liberalising the grants for books, journals, buildings and other facilities.

Extension Education.

1.1.3.8. The University is responsible alongwith teaching and research for the extension education and training programmes. It is necessary to make use ful research finding available to farmers quickly and to help them to solve their problems. Research results and findings in the form of agricultural technology and packages of practices should reach the farming; community for their adoption fully. This is possible through education and training of the farmers and personal engaged in the extentsion and development. departments. It is also necessary to strengthen thedemonstration, operational research projects and?. publications. Important programmes proposed in extension education and trainings are (1) Up-grading of existing agricultural schools (2) Up-grading of school of baking at Anend and establishment of schools of baking at other campuses (3) Up-grading of farm mechanic-cum-artisan training, (4) establishment of farm advisory services at main research stations and campuses, (5) Schemes for mobile ambulatory clinic. for voterinary and animal husbandry at Sardar-Krishinagar.(6) Strongthening of livestock inspectors, training, (7) establishment of home science schools up-grading of Sardar Smruti Kendras and establishing extension wing at veterinary college (9) establishment of tribal development centres and operational research project in extension education (10) corresspondence course etc.

Campus Development

1.1.3.9. The University is a multi-campus Univercity and has four Campuses namely Anand., Junagadh, Navsari and Dantiwada with its principal Campus at Sardar Krishinagar. The main Campus is baptised as Sardar Krishinagar and is being arected, deneve. New Campus at Dantiwada has been created after its establishment. All the four Campuses, 54 research stations and 25 extension education institutions need substantial amounts for their development for supporting research teaching and extension activities. Infra-structural facilities such as staff quarters, approach roads, supply of water, electricity and drainage, farm buildings and structures, laborataries schools and community facilities auditorium, guest

houses, land shaping, service complex centres, canteen and gymkhana etc. are required to be developed.

Agricultural Research:

- 1.1.3.10. In light of the basic aims of national planning and the responsibility of research related to agricultural production and rural development in the State, it is planned to conduct research on important problems in agriculture and allied sciences with a view to (a) increase agricultural productivity, reduce losses from diseases and pests, salinity and and drought conditions and (b) effect overall improvement in animal productivity through the evolution of better breeds of cattle and formulate appropriate nutritional, management and health cover practices for animal husbandry.
- 1.1.3.11. It is proposed to continue, expand and atrengthen the University's research activities which include:
 - ci) Crop improvements in food crops, oilseeds crops, cotton, tobacco, sugarcane, spices, condiments and medicinal crops, forage crops, horticultural and vegetable crops.
 - (ii) Research in agronomy and soil sciences.
 - (iii) Plant protection research.
 - (iv) Farm forestry research and energy plantations.
 - (v) Researches in social sciences and economics
 - (vi) Research in agricultural engineering:
 - (vii) Research in animal husbandry and veterinary sci noes.
 - (viii) Research in dairy sciences.

Research Gaps and Priorities

1.1.3.12. The four campuses of the University. Dantiwada (North Gujarat), Anand (Middle Gujarat), Navari (South Gujarat) and Junagadh (Saurashtra) serve the four broad agro-climatic regions of the State. Bosides these Campuses, the University has 8 main stations viz, Waghai for hill millets, Surat for cotton. Godhra for maize, Nawagam for rice, Vijapur for wheat, Mundra for date-palm, Targhadia for dry farming and Jampagar for millets and 41 sub-stations serving as testing centres The agro-climatic zone-wise information on location of these research farms and major crops grown is given in Annexure-I. From the past performance, the crop improvement particularly cotton, wheat, rice, bajra, tobacco, groundnut and sorghun has shown that good work has been done in these crops helping to increase per hectare production. However, what has been done is only touching the fringes of vast multitudes of the problems facing

agricultural production. It is, therefore, essential to take steps required to tackle the important problems on immediate basis. The research gaps and research priori'ies are therefore identified as under:-

- (1) Dry farming.
- (2) Mixed Farming.
- (3) Salinity and drainage problems.
- (4) Improving efficiency of water use.
- (5) Research on food crops viz rainfed wheat, transplanted rice, groundnut, bajra, maize and pulses.
- (6) Plant protection problems, white grub etc.
- (7) Inter-cropping and pest/disease control.
- (8) Micronutrient and second my nutrient deficieencies.
- (9) Use of salino ground waters.
- (10) Seed technology.
- (11) Social Sciences research.
- (12) Agricultural Engineering.
- (13) Agricultural Meteorology.
- (14) Improvement of tribal area economy

National Agricultural Research Projects:

1.1.3.13 The National Agricultural Reasearch Project (N.A.R.P.) has been formulated by the Indian Council of Agricultural Research for strongthening the regional research capability of the State Agricultural Universities with the assistance from the International Bank for Reconstruction and Development (I.B.R.D.). The main of N. A. R.P. is to strengthen the regional research capability as an important means of finding solutions to the location. Specific problems in different agro-climatic zones by intensification of research in (1) food grains, pulses and oilseeds grown under rainfed conditions, (2) farming systems involving croplivestock and crop-fish production systems, (3) soil and water conservation techniques(4) land use patterns for more efficient use of natural resources and ecological potential. The Gujrat Agricultural University has participated in the N.A.R.P. programmes. The appoximate allocation earmarked for each of the State Agricultural University under N.A.R.P. is Rs. 5 crores from which I.C.A.R. has already sanctioned sub-projects at Arnej, Targhadi and expansion of Directorate of Research The I.C.A.R. Research Review committee for G.A.U. has recommende

the strengthening of research stations in G.A.U. as ander.

- 1. Under N.A.R.P. support and ICAR support
 - (a) Four Regional Research Stations (Dantiwada, Anand, Junagadh and Navsari)
 - (b) Seven special stations (Surat, Arnej, Godhra, Targhadia, Jamnagar, Vijapur and Nawagam.)
 - (e) Four sub-stations (Bharuch, Derol, Bhachau and Dhari).
- 2. Under State Plan support
 - (a) one special station (Waghai) under tribal Plan
 - (b) Four sub-stations (Paria, Vadodara, Mahuva and Dohad.).
- 1.1.3.14 Necessary outlays have also been proposed for State Plan programmes and State liability for infrastructural facilities

Veterinary Sciences, Animal Husbandry and Dairy

1.1.3.15. Gujrat is well known for its milk cooperatives, milch breeds like Surti and Mahesani buffaloes and dual breeds of Gir and Kankrej cows. Pure breeding and cross breeding work for the improvement of cow initiated in the Fifth Plan through livestock research stations at Dantiwada, Navsari, Anand and Junagadh will be strengthened in respect of herd of 300 heads for progeny testing, breeding nutrition and animal health and new research for improvement of buffaloes and their management will be undertaken. Research work on poultry, goat, sheep and camel is also envisaged in the Sixth Plan.

- 1.1.3.16 Development of dairy industry through dairy research in technology of indigenous dairy products, recycling and utilization of dairy wastes and system improvement in the use of low level processing technology for rural needs will be initiated during the period 1980-85.
- 1.1.3.17 Acadamic programmes in the veterinary and Dairy sciences for under-graduate and postgraduate teaching and research will be continued and strengthened at Gujarat College of Veterinary Science and Animal Husbandry at Anand and Sheth M. C. College of Dairy Science at Anand during 1980-85. Considering the domands of veterinary graduates in teaching, research and extension, it has been decided to strengthen the veterinary seience college at Anand by increasing the intake capacity from 40 to 60 seats by providing additional facilities of class rooms, laboratories, hostel, staff and equipments. The Dairy Science College is also to be strengthened by expansion of Departments of Dairy Chemistry, Dairy Technology, Dairy Engineering and Dairy Microbiology to strengthen postgraduate teaching and research to meet the needs of dairy industry in the State and country.

STATEMENT

AGRICULTURAL EDUCATION & RESEARCH

List of Schemes included in the Sixth Five Year Plan 1980-85

(Rs. in lakhs)

| Sr. No. | No. and Name of the Scheme | Sixth Five Yea | r Plan 1980-8 |
|------------|--|----------------|--------------------|
| 140. | | Total | Capital Content |
| 1 | 2 | 3 | 4 |
| A. | Agricultural Education | | |
| | 1. AER-1 Post graduate degree training in India & Abroad | 20.00 | |
| | 2. AER-2 Grant-in-aid to G.A.U. for Education. | 418.00 | •• |
| | 3. AER-3 Development of Veterinary College | 71.00 | |
| | 4. AER-4 Development of Dairy Science College | 45.00 | •• |
| | TOTAL: (A) Education | 554.00 | |
| в. | Agricultural Research | | |
| | 5. AER-5 Grant-in-aid to G.A.U. for Research | 196.00 | •• |
| | 6. AER-6 Establishment of Livestock Research Station | 150.00 | |
| | TOTAL (B) AGRIL. RESEARCH | 346.00 | •• |
| c. | Assistance from I.C.A.R. | 1 | |
| | AER-7 State Share to I.C.A.R. Scheme | | |
| | (i) Agricultural Research Scheme | 82.00 | |
| | (i) Veterinary Research Scheme | 18.00 | |
| - | TOTAL (C) | 100.00 | 4 |
| | GRAND TOTAL (A+B+C) | 1000.00 | |

1.2 CROP HUSBANDRY

1.2.1.1. The total geographical area of the Gujarat State is 1,95, 984 sq. Kms. accounting for about 6% of the total geographical area of the Indian Union. Extreme variability in the distribution of total annual rainfall is the peculiarity of the State. Geographically the basic complex of the State varies from region to region. Soils in the southern regions are deep black (soils of basaltic origin), central and northern parts of the State have old aluviul and the Saurashtra region have medium black soils of basaltic origin. All along the coast the saline alluviul is found. The variations in rainfall and soil types can be largely attributed to geographical situation of the State. The State is located in the fringe of the area of South-West monsoon. The rainfall, therefore, is confined to 3 to 4 months only, starting from June to September with practically no precipitation in winter months. The annual normalrainfall varies from 349.4 mm. in Lakhpat taluka of Kachchh district to 2409.8 mm. in Dharampur taluka of Valsad district. Co-efficient of variability of rainfall even in Surat district which is situated in the so-called assured rainfall zone is 34.22 % while that in Dwarka taluka situated in Jamnagar district is as high as 88.38 %. Nearly 41 talukas in 10 districts of Gujarat are prone to scarcity or semiscarcity conditions. Some of the areas which are not prone to scarcity are often hit by floods. The scarcity and floods are two natural calamities which have retarded the economic growth of the State.

1.2.1.2. The land utilisation statistics show that in Gujarat, 54 % of the reported area is put under cultivated crops. The State accounts for 28.6% of the total cotton area and 22.2% of the total groundnut area in the country.

1.2.1.3. According to 1976-census, 30.60 percent of the holdings were irrigated either partly or wholly. Wholly irrigated holdings were only 9.50% covering 35.36% of the total irrigated area. 21.16% of the holdings were partly irrigated which accounts for 64.64% of the total irrigated area. Out of the total area irrigated, foodgrains account for 56% while the remaining 44% area is under commercial crops. Out of the total irrigated area as much as 67% is irrigated by surface wells, 18.16% by canals, 12.46% by tubewells, 1.58% by tanks and 0.88% by other sources.

1.2.1.4. The principal food crops of Gujarat are bajra, jowar, maize and wheat, while cotton, ground nut and tobacco are the main cemmercial crops. In South Gujarat, the deep black retentive soils are suitable for paddy, while in central northern parts, with less retentive soils and less rainfall, bajra. jowar and groundnut are the main crops. Since the soils and rainfall are generally poor in Saurashtra, natural tendency is to grow crops like groundnut, which mature with the available moisture from the rainfall. Cotton is the other important cash cropwhich is grown throughout the State. There has also been an expansion in the cultivation of tobacco in the middle Gujarat and spices like cumin and mustard in North Gujarat. Over the years there has also been a general shift towards cultivation of commercial crops like cotton and ground nut.

1.2.2. Review of Progress:

2.2.1. The production of fccdgrains and commercial crops have increased rapidly over plan periods as shown in the following table:

Area in lakh hectares Production in lakh tonnes Yield in kgs/Heet

| Sr. No | Plan Period | | Food] grains] | | Cotton | Tobacco | Sugar- |
|-----------|---|-----------------------|-----------------------|-------------------------------|-----------------------|----------------------|--|
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 |
| 1. | First Five Year Plan 1951-52 to 1955-56 | Area Prod. Y/H. | 55.86 18.75 336 | 11.93 4.40 <u>#</u> 362 | 13.72 8.83 109 | 0.60 0.41 683 | 0.1 9 0.57 518 2 |
| 2. | Second Five Year Plan 1958-57 to 1960-61 | Area Prod. Y/H. | 49.80 20.28 407 | 18.99 11.07 586 | 17.£0 11.17 108 | 0.81 0.86 (91 | 0.1 8 0.5 4 652 2 |
| 3. | Third Five Year Plan 1961-62 to 1965-66 | Area Prod. Y/H. | 47.96 25.79 538 | 23.44 13.58 581 | 17.57 15.23 147 | 0.86 0.83 965 | 0. 29 1. 65 55 94 |
| | Average of Three Annual Plans 1966-67 to 1968-69 | Area Prod. Y/H. | 51.90 28.11 542 | 21.57 11.31 524 | 16.89 15.48 156 | 0.91 0.93 1026 | 0.33 1.81 547 6 |
| 5. 1 | Fourth Five Year Plan 1969-70 to 1973-74 | Area Prod. Y/H. | 51.82 37.19 714 | 20.56 13.87 675 | 19.65 20.18 174 | 0.88 1.13 1284 | 0. 46 2. 53 5500 |

| 1 2 | | 3 | 4 | 5 | 6 | 7 | |
|---|-------|-------|-------|-------|------|------|--|
| 6. Fith Five Year Plan 1974-76 to 1977-78 | Area | 46.92 | 21.71 | 18.22 | 0.89 | 0.57 | |
| | Prod. | 35.82 | 18.03 | 17.69 | 1.40 | 3.40 | |
| | Y/H. | 763 | 831 | 165 | 1582 | 5937 | |
| 7. 1978-79 | Area | 45.80 | 23.53 | 17.59 | 0.75 | 0.58 | |
| | Prod. | 44.85 | 20.39 | 21.01 | 1.54 | 3.29 | |
| | Y/H. | 979 | 866 | 203 | 2060 | 5677 | |
| 8, 1979-80 | Area | 43.84 | 23.46 | 17.17 | 1.15 | 0.57 | |
| | Prod. | 40.08 | 19.93 | 17.85 | 1.75 | 3.19 | |
| | Y/H. | 914 | 850 | 177 | 1524 | 5610 | |

- Note.-1. Production of sugarcane is in terms of 'Gul'.
 - 2. Production of cotton is in lakh bales each of 170 kgs. lint.
 - 3. Total oilseeds include groundnut, sesamum, castor, rape and mustard.

1.2.2.2. Upto the end of Fourth Five Year Plan period, the increase in production of foodgrain (which was achieved alongwith a considerable shift in area towards other crops) is mainly due to considerable improvement in productivity levels, and not due to any extension of areas under these crops. As a matter of fact in the last 30 years there has been reduction in the food crops acreage to the extent of around 12 lakh hectares. The production of foodgrains had reached a record figure of 48.44 lakh tonnes in the year 1970-71.

1.2.2.3. The linear rate of growth of production of foodgrains for the period from 1949-50 to 1972-73 had been 7.1% though in the subrequent years; this rate of growth has declined due to recurrence of droughts, floods and heavy unsensonal rains. The linear and compound rates of growth have been 3.09 and 2.50 per cent respectively since formation of Gujarat State for all crops. Particularly, rapid growth has been achieved in case of sugarcane, tobacco and foodgrains. Lower rate of growth in general for all crops during Fifth Plan period can be attributed to recurrent droghts floods and unseasonal The fluctuations heavy rains during that period were more pronounced in case of foodgrains productions. Tas targe ted level of production of foodgrsins and cotton could not be reached. In case of surgacane also production was below the targetted level during the first three years but had exceeded in the year 1977-78. Oilseeds production during 1974-75 was lowest. It, however, hit an all time record during 1975-76 and also exceeded the target in 1976-77. But again during 1977-78, 1978-79 and 1979-80 it has remained stagnent.

1.2.2.4. This was the direct result of the adverse climatic conditions in 1974-75 which was a year of impreceented scarcity. During 1975-76 Bajra was badly affected by downey mildew resulting in a considerable fall in the yields of Bajra which normally accounts for 50% of the food crops grown in the kharif season and 30% of the crops in the whole year During 1976-77, monsoon was early and hence area under groundnut increased reducing the area under Bajri. Area under maize was increased but because

of untimely heavy rains, th crop was affected resulting in poor yield. Cotton suffered because of heavy rain in cotton growing area. In the case of oilseeds, the target was surpassed. However, the production remained lower compared to that in the year 1975-76, despite increase in area because of lower yields due to the delayed sowing of groundnut in the Western Saurashtra region, excessive rains affected the pod formation and rat meances in the groundnut growing area of Saurashtra. During 1977-78, the crops were badly affected due to untimely and incessant heavy rains. Oilseeds production also remained low for similar reasons. As regards cotton the climatic conditions in 1977-78 remained very unfavourable due to continuance of heavy rains. In 1978-79 the food growing crops were affected due to untimely and incessant heavy rains in some parts of the State. The cotton crop was affected due to low rainfall in cotton growing areas. In case of oilseeds. the major groudnut growing area of Saurashtra region suffered for want of last spell of rains in 1979-80, the food grains crops were affected on account of heavy rains and floods in the districts of Saurashtra and Kheda districts in Middle Gujarat. The standing crops, soils, and minor irrigation equipments were worst affected. The districts of Panchmahals, Surat. Valsad and Dangs were affected due to inadequate rains.

High Yielding Varieties Programmes

1.2.2.5. In increasing the foodgrains production in the State high yielding variaties programme has been continued. The progress made under this programme is given below:—

| | | | (lakh | hectares) |
|------|--------|------------|------------|------------|
| 0.40 | Crop | Level of a | chievement | at the end |
| | 8 + 12 | 1973-74 | 1977-78 | 1979-80 |
| | 1 | 2 | 3 | 4 |
| - | Paddy | 0.88 | 2.16 | 2.56 |
| 1 | Bajra | 11.03 | 10.46 | 10.46 |
| | Jowar | 0.11 | 0.32 | 0.38 |
| | Maize | 0.16 | 0.58 | 0.76 |
| | Wheat | 3.15 | 5.82 | 4.60 |

Fertilizers and Manures:

1.2.2.6. Fertilizers hold great potentialities for stepping up agricultural production. Nitrogenous fertilizers have particular importance as Nitrogen is considered to be the important limiting factor of the fertility of our soil. The cultivators are making increased use of fertilizers to increase the productivity. In view of large high yileding varieties programme, intensive agricultural programme, development of commrcial crops and the increase in irrigation potential etc., the level of comsumption of different fertilizers had been as under:—

(Consumption in lakh tonnes)

| Fertilizers | Level of achievement at the end of | | | | | |
|--------------------------|------------------------------------|---------|---------|--|--|--|
| (in terms of nutrieants) | 1973-74 | 1977-78 | 1979-80 | | | |
| 1 | 2 | 3 | 4 | | | |
| N | 1.39 | 1.70 | 2.24 | | | |
| P | 03.0 | 0.79 | 1.15 | | | |
| K | 0.19 | 0.28 | 0.39 | | | |
| Total | 2.18 | 2.77 | 3.78 | | | |

1.2.2.7. In addition to chemical fertilizers, organic manures like compost and green manures are necessary for improving soil structure. The area under green manuring which was 1.29 lakh hectares in 1973-74 has reached the level of 1.98 lakh hectares in 1979-80.

Plant Protection Measures

1.2.2.8. The State had 9 soil testing laboratories and 2 mobile soil testing vans having total capacity of analysing 1.60 lakh soil samples at the end of the Fourth Plan. This had increased to 14 static and 8 mobile soil testing laboratories by the end of 1979-80. The area covered under plant protection measures was as under:—

(Area covered in lakh hect.)

| | 1973-74 | 1977-78 | 1979-80 |
|--------------------------------|--------------|----------------|----------------|
| . 1 | 2 | 3 | 4 |
| Food crops Commercial Crops | 1.86 6.37 | 15.21 21.55 | 10.97 49.89 |
| Total | 8.23 | 36.76 | 60.86 |

1.2.2.9. The aerial spraying was also carried out and farmers were subsidised in operational charges and cost of insecticides. Around 1.23 lakh hectares were covered during 1979-80. and the consumption of pesticides was 6500 tonnes of technical grade materials.

Farmers' Training Programme:

1.2.2.10. This programme mainly include need based institutional training for farmers, farm women and youths in modernised agricultural technique and also one day training camps on cultivators' field *i.e.* outside the training institutions. At the end of the year 1979-80, 13 farmers' training centres were functioning in the State of which five were in tribal areas.

Dry Farming:

1.2.2.11. A scheme for dry farming in bunded area is being implemented since 1965-66 in five districts viz. Kachchh, Jamnagar, Banaskantha, Sabarkantha and Panchmahals as non-Plan scheme and merged in Training and visit system. Considering the importance of dry farming technology in major parts of the State, the scheme of dry farming technology is now functioning as integral part of watershed in all districts. The main features of this scheme are demonstration of package of practices under dry farming technology and subsidised distribution of improved implements and plant protection equipments.

Horticulture Development

1.2.2.12 Under the horticultural programme development of major crops like Banana, Mango and Ber is emphasised, besides imparting training and rendering services to farmers and urban people by way of fruit and vegetable nurseries, canning and kitchen gardening and certification of grafts. A scheme to develop cultivation of date palm in Kachchh and coconut development scheme in the coastal area districts have responded well in the State. Ber cultivation and Nilgiri Plantation in Watershed area will be specially attended to in the Sixth Plan.

1.2.3. Objective and Strategy:

- 1.2.3.1. During the Sixth Plan the major thrust will be on increasing production by (1) improving the productivity of the crops by way of adoption of modern technology and thereby to increase agricultural production;
- (2) raising the economic status of the farmers specially those of scheduled castes/tribes and the weaker sections of the farming community;
- (3) educating the farmers by way of training through the Training and Visit system, and farmers training contres.

The programmes to raise level of production for foodgrains as well as commercial crops including horticultural development will mainly be based on the following strategy:—

- (1) To increase the area under hybrid/HYV programme.
- (2) Systematic availability of main inputs viz. seeds, fertilisers and insecticides largely through the village cooperatives.
- (3) Increase production of groundnut using pre-sessonal irrigation for sowing, inter-furrow method of sowing for moisture conservation, closer spacing, supplemental irrigation, summer groundnut programme and additional area to be brought by way of introduction of groundnut crop in non traditional areas. Increase production of sessmum by introduction of early maturing Guj-1 variety and by taking this crop as an intercrop with main crop like cotton.
- (4) Increase production of pluse crops by taking them as mixed crops with other crops like castor and cotton, introduction of short duration variety of mung in summer after harvest of irrigated wheat.
- (5) Training of farmers will be organised through Training and Visit system and farmers training centres.
- (6) Integrated pest management progremmes for cotton, groundnut, pulses and sugarcane will be implemented to protect the crops from pest damages and thereby enhance the production of respective crops.

Supporting programmes to increase agricultural production will be:—

- (1) Adoption of soil and water conservation meausres on watershed approach.
- (2) Area under irrigation will be increased with implementation of latest management technology in water use management.
- (3) By effective implementation of special programmes like DPAP, and IRD, the productivity will be increased in the holdings of farmers belonging to weaker sections.
- (4) Providing credit support by way of input loan and assuring the farmers remunerative prices of their produce by providing organisational and financial support when prices of agricultural commodities fall below the support price.

1.24. Programme for Sixth Five Year Plan 1980-85

1.2.4.1. An outlay of Rs. 3100 lakhs has been proposed for the Sixth Five Year Plan, the details

of which are briefly given below:-

(Rs. in lakhs).

95.43

208.91

20.00

45.00

21.00

3100.00

| Sr. No. | Minor Head of Development | Sixth Plan 1980–85 Outlay. |
|------------|---|-------------------------------------|
| 1 | 2 | 3 |
| Croj | Husbandry. | |
| 1. | Direction and Administration | 999.49 |
| 2. | Multiplication and Distribution of Seeds. | 171.95 |
| 3. | Manures and Fertilizers. | 450.94 |
| 4. | Plant Protection. | 237.45 |
| 5. | Commercial Crops | 3 5 4.5 5 |
| 6. | Extension and Farmers Training | 304.00 |
| 7. | Agricultural Engineering. | 191.28 |

8. Agriculture Economics and Stati-

Production Targets.

Horticulture.

10. Other Expenditure.

11. Contingency Plan.

12. Nucleus Budget for TASP.

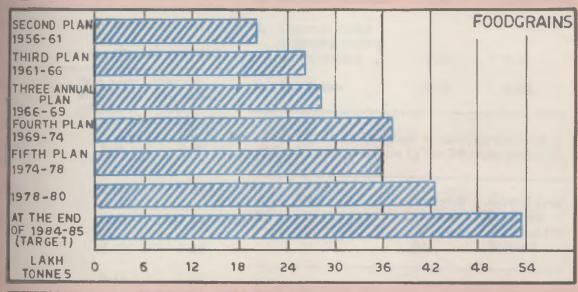
1.2.4.2. The targetted production for foodgrains and commercial crops for the Sixth Five Year Plan are as under:—

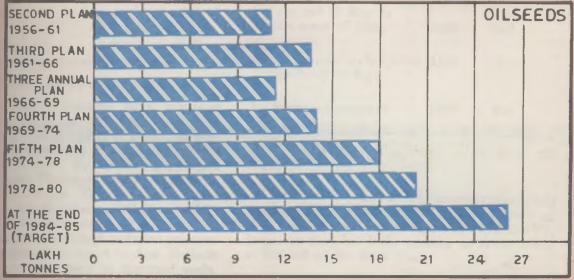
Total

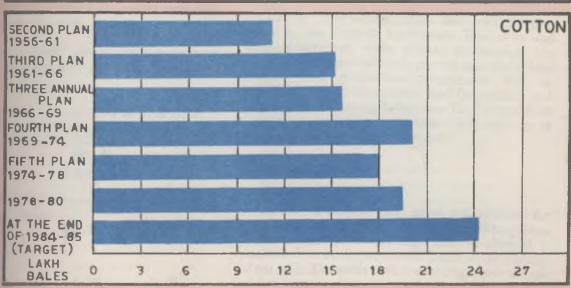
| Sr. No. | Crop | Unit | Base year Level | Target for 1984-85 |
|-------------|---------------------------------|------------------------------|--|--------------------------|
| • | ٥ | ۰ | Avg. of triennum ending 79-80 | |
| 1 | 2 | / 3 | 4 | 5 |
| 1 2 3 | Foodgrains Oilseed Cotton | Lakh tonnes | $19.82 \\ 19.43$ | 26.00 |
| 4 | Sugarcane (in term of gul) | (170kgs/each) Lakh tonnes | | 4.50 |
| 5 | Tobacco | -do- | 1.51 | 2.00 |

AGRICULTURAL PRODUCTION

ANNUAL AVERAGE







High Yielding Varieties Programme.

1.2.4.3. This programme will be expanded by providing sufficient quantity of certified improved seeds through the State Seed Corporation and Marketing Federation in time and at reasonable rates. The plan of coverage is as under:—

| Sr. No. | Crop | Base year level 1979–80 | Planned coverage 1984-85 |
|------------|-----------------------|-------------------------------|--------------------------------|
| 1 | HYV Wheat (Irrigated) | 4.60 | 5 .60 |
| 2 | HYV paddy | 2.56 | 3.80 |
| 3 | Hy. Bajra | 10.46 | 13.00 |
| 4 | Hy. Jowar | 0.38 | 1.10 |
| 5 | Hy. Maize | 0.76 | 1.00 |
| 6 | Hy. Cotton | 3.26 | 4.00 |
| 7 | Hy. Castor | 0.60 | 0.80 |

Intensive programme for Groundnut Production :-

I.2.4.4. In order to overcome short supply of edible oils and to save foreign exchange, Government of India have approved a project of groundnut production on an extensive scale in groundnut growing pockets in Gujarat State. Six districts, viz; Rajkot Junagadh, Jamnagar, Bhavnagar, Amreli and Kachchh are included in the project. The programme is proposed to run from 1980-81 summer, 1981-82 to 1983-84 at a total cost of Rs. 35.00 crores. It is planned to incourage the cultivators through technical guidance and financial assistance to adopt modern methods of groundnut cultivation such as improved seeds, optimum spacing, pest control management, sprinklor and supplementary irrigation.

1.2.4.5. The proposed programme for coverage ler different items during the plan period is as under:-

| ir. Item | | be covered h hecteres. |
|---------------------------------------|------------------------|---------------------------|
| i | 1979-80 (base year) | 1984-85 |
| 1 2 | 3 | 4 |
| Pre-monsoon sowin of groundnut. | o.30 | 2.00 |
| Supplemental irrigation to groundnut. | 0.20 | 3.00 |

| 1 | 2 | 3 | 4 |
|----|---|------|------|
| 3. | Summar groundnut | 0.68 | 2.00 |
| 4. | Coverage under improved veriety of Seasamum | 0.10 | 1.25 |
| 5. | Hy. Castor | 0.55 | 0.80 |

1.2.4.6. It is proposed to increase the level of production of groundnut by the following methods:

| Sr. No. | | Expected yield per hectare in Kgs. | Normal yield in rainfed area(Kgs.per hectare) |
|------------|---|------------------------------------|--|
| 1. | Pre-monsoon sowing be the end of May or 1st week of June. | y 1300 | 900 |
| 2. | Supplementary Irrigation probably in Sept. | ion 1300 | 900 |
| 3. | Summer Groundnut | 1800 | 900 |

Supply of Seeds:

1.2.4.7. It is planned to replace every year hybrid seeds in 100% area and self-pollinated crops on 20% area. Total requirement of Hybrid/HYV/Improved Seed has been assessed at 44765 tonnes at the end of the Sixth Plan.

1.2.4.8. Breeder/foundation seeds will be produced by the Gujarat Agricultural University and certified/improved seeds will be produced on the farms of the registered seeds growers and State Seed Farms. Seed production programmes will be organised by the Gujarat State Seed Corporation and Gujast State Marketing Federation. The National Seed Corporation and private producers will continue to function to supplement seed supply.

Fertilizers:

1.2.4.9. Fertilizers hold great potentialities for stepping up of agricultural production. Nitrogenous fertilizers have particular importance as nitrogen is considered to be the important factor of the fertility of our soils. The cultivators are making increased use of fertilizers to increase the productivity. In view

oflarge high yielding programme, training and visit system, farmers training centres, development of commercial crops, and likely increase in irrigation potential the consumption of fertilizer is planned as under:-

| Nutriant | Unit | Achivement 1979-80 | Target 1984-85 |
|-----------------|----------------|-----------------------|-------------------|
| Nitrogen(N) | Lakh tonnes | 2,24 | 4.00 |
| Phospherous (P) | ,, | 1.15 | 2.00 |
| Potash (K) | " | 0.39 | 0.70 |
| | Total:- | 3.78 | 6.70 |

Plant Protection:

1.2.4.10. Plant protection activity in the State is now implemented on need base. Scouting system has been introduced since last two years where scoute actually take counts of the pest population and guide the cultivators in spraying on threshhold value under **T&V** system. Subject Matter Specialists (Plant protection) have been provided in each district. It is planned to expand this programme during the Sixth Plan period as below:-

| Year | Area to be coveredum plant protes measures in (lakh l | der ection |
|------------------------|---|---|
| 1979-80 (base-year) | 60.86 | These targets are purely provisional— (subject to the inci- dence of pests from year to year) |
| 1984-85 | 87.04 | |

1.2.4.11. Technical grade material for manufacture of insecticides which will be required by the State has been estimated as under:-

| Year | Technical material in M. T. |
|---------------------|-----------------------------|
| 1979-80 (base year) | 7000 |
| 1984-85 | 12000 |

Increase in Pulse production.

1.2.4.12. In case of moong and tur improved varieties like Guj-Moong-1, Moong-2 and Tur 15-15 yield 25% more in comparison to local varieties. To increese pulse production efforts will be for repplacement of local varieties by improved ones and growing of pulse crops as mixed crops with the cotton or castor. Plan of action will be as under:-

(Area in lakh hectares)

| Sr. No | Item | 1979-80 (base year) | |
|-----------|--|------------------------|------|
| 1. | Coverage by improved Seed of Moong. | 0.10 | 1.00 |
| 2. | Coverage of improved Seed of Tur. | 0.08 | 2.00 |
| 3. | Mix cropping. | 0.80 | 4.00 |
| 4. | Summer Moong. | 0.20 | 0.75 |
| | | | |

Training of Farmers:-

1.2.4.13. The farmers are trained through reora ganisation and strengthening of extension service (Training & Visit System) and farmers training centres established in the districts.

Training & Visit System:-

The programme aims at improving the efficienc of the Services by (i) Intensifying contacts between extension workers and farmers (ii) Upgrading the standards of extension workers and (iii) improving the quality of technical package through better adoptive research.

- 1.2.4.14. The major thrust would be on implementation of intergated approach to increase croproduction of major crops like cotton, groundnu bajra, jowar, paddy and wheat for which extension services would regularly and systematically provided to farmers with up-to-date advise and demonstration of farming practices best suited their specific conditions which would have immediate impact on production and income.
- 1.2.4.15. The Village Extension worker atten the training held once a fortnight by subject matt specialists where he is provided with latest tec nology to be fed to the farmers during t next fortnight.

1.2.4.16. The extension technique is based on a systmetic pogramme of Eraining of full time agricultural workers combined with frequent visits by VEWs to farmers fields. The system enables a **VEW** to visit each group of farmers once a fortnight after he has received an intensive training in agricultural practices and recommendations which relate directly to farm operations during that fortschedule of visit enable close night. The fixed supervision and follow up-to achieve a visible impact on production, VEW concentrates on selected contact farmers. He also concentrates on important crops, focusing mainly on those practices which bring the best economic results and on making optimum use of available resource. Two pre-seasonal training services are organised every year for 2-3 days each wherein subject matter specialists and specialists of Gujarat Agricultural University participate. The subject matter specialists are trained for 2-3 days in a month at university campuses to keep them up-to-date in their know how of the subject. They also receive two weeks' training every year to refresh their knowledge at university.

Farmers' Training Centres

1.2.4.17. At present except Dangs and Gandhinagar all districts in the State are equipped with farmers' training centres. The farmers and farmwomen are trained in respect of latest developed technique in agriculture through institutional classes and one day camp organised at village level. Out of 17 Farmers' Training Centres, 5 are in tribal areas. Every year 3500 farmers are to be trained in each such centre.

Integrated pest managment programmes for Cotton, Groundnut, pulses and Sugarcane to enhance production of respective crops.

1.2.4.18. Since 1978-79 this programme is organised in the State more systematically and need based spraying is carried out as an integrated part of the Integrated Cotton Development scheme. Targets for aerial and ground spraying are fixed in advance for cotton, groundnut, pulse and sugarcane, To provide insecticide at a reasonable price and of quality, arrangements have been made through the District Sales and Purchase Unions. The operational charges and cost of inseccides are subsidised for aerial as well as ground sprays. Tractor mounted spraying is a newly introduced technique in the State and sprayers purchased under the scheme are subsidised at the rate of 50% for the public sector institutions and 33% for individual beneficiaries. The coverage is proposed to be as under :-

| Sr. | Crop | Year | Net area | Net area to be covered in lakh ha. | | |
|-----|--------------------|------------------------|----------|------------------------------------|-------|--|
| No. | | | Aerial | Ground | Total | |
| 1. | Cotton | 1979-80 (Base year) | 0.11 | 1.50 | 1.61 | |
| | | 1984-85 | 0.50 | 2.75 | 3.25 | |
| 2. | Ground- nut | 1979–80 (base year) | 0.33 | 1.48 | 1.81 | |
| | | 19 8 485 | 2.00 | 9.00 | 11.00 | |
| 3. | Pulses | 1979–80 (base year) | 0.07 | •• | 0.07 | |
| | | 1984-85 | 0.15 | 0.40 | 0.55 | |
| 4. | Su g creane | 1979-80 (base year) | 0.22 | •• | 0.22 | |
| | | 1984-85 | 0.35 | •• | 0.35 | |

Supporting Programmes:

Soil and Water conservation measures on watershed approach.

1.2.4.19. Agricultural production mainly depends on the development of soil and water resources. Prior to 1976-77, soil and water conservation measures were carried out in scattered way with the main objective of providing labour intensive works in scarcity affected areas. Now under the watershed approach, basides measures for soil and water conservation like contour bunding, nalla plugging, terracing, land leclamation, land levelling, other development activities such as improvement of pastures including farm forestry, Construction of farm ponds are also taken up in watershed unit. Dry farming is also now implemented in a watershed with the integration of extension wing of the department by adoption of 10% of the farmers from this area. Total 446 watersheds have been identified with an area of 13.87 lakh hectares and work has been started in 350 watersheds. It is proposed to cover an area of 22.30 lakh hectares by the and of 1984-85.

Increase in area under irriagtion

1.2.4.20. Water is a vital input in agricultural production. During the past plan periods large investments are made to provide more irrigation

facilities by constructing major and medium irrigation projects. The present need is, therefore to maximise utilisation of the irrigation potentialities. Command Area Development organisation functions to improve the present status of irrigation by way of constructing water channels, land levelling and providing guidance by extension machinery within the command area. Irrigation Agronomists of Agricultural University and of the department are stationed at Navsari. These officers guide the farmers regarding judicious use of irrigation water. It is expected that around 4 lakh hec ares of additional area will be brought under irrigation during the Sixth plan of which about 60% will be utilised for foodgrain crops.

1.2.5. Investigation and Survey work for Containgency Plan

1.2.5.1. The State is frequently visited by natural calamities like drought, floods. It is necessary to dovetail relief works with the plan projects in order to create community assets through such works. A scheme for investigation and survey work for preparing a self of paojects has been introduced since 1976-77. In that year the scheme was initiated in the districts of Kachchh, Banaskantha and Jamnagar. In the year 1978-79 the scheme was extended to the ditricts of Panchmahals, Surendranagar, Amreli and Bhavnagar. The scheme has been continued in Sixth Plan for which an outlay of Rs. 45 lakhs is provided.

STATEMENT

CROP HUSBANDRY

List of schemes included in the Sixth Five Year Plan 1980-85 (Rs. in lakhs). Sixth Five Year Plan 1980-85-Outlay No. & Name of the Scheme. Sr. No. Total Capital 1 2 Direction & Administration : AGR-1 Reorganisation and strengthening of extension services. 714.99 150.00 1. Establishment of World Bank Cell. 25.00 AGR-2Reorganisation & strengthening for TASP. 185.00 52.00 3. AGR-3 Creation of staff for tribal area sub-plan work. **52**.00 4. AGR-4 22.50 AGR-5 Planning machinery for agriculture development. 5. Total:-999.49 202.00 Multiplication & Distribution of Seeds. Strongthening of seed testing laboratories. 18.52 0.25 AGR-6 AGR-7 Strengthening of seed certification agency. 1.00 20.86 Production of hybrid cotton seed. AGR-8 Free distribution of seeds in Dangs district (GIA to Panchayats.) 2.31 9. AGR-9 Extension of seed multiplication farm providing irrigation facilities. 4.00 10. AGR-11 Distribution of seed, fertilizers and posticides at subsidised rate in tribal area... 54.49 11. 12. AGR-12 Subsidised supply of hybrid/high yielding varieties seed to tribal cultivators. .. 25.37 AGR-13 Establishment of seed cell. 5.00 Distribution of seeds to Harijan cultivators. A(3R-14 15.40 Distribution of seeds, fetilizers, pesticides at subsidised rate to SC 15. AGR-15 15.00 cultivators 10.00 AGR-16 Foundation seed corporation. Total:--171.95 0.25 Manure & Fertilizers : 17. AGR-17 Multicrop demonstration scheme. 20.00 18. AGR-18 Subsidised supply of fertilizers to tribal cultivators for TASP. 174.86 19. AGR-19 Subsidised supply of chemical fertilizers to SC/ST cultivators 39.00 Development of quality control of inputs fertilizer quality control laboratory. 20. AGR-20 26.42 AGR-21 Gobar gas plants. 7.50 22. AGR-22 for TASP. 40.00 Strengthening of soil testing laboratories and soil testing van in TASP. 23. AGR-23 66.18 . . 24. AGR-25 Strengthening of soil testing laboratories (normal) 12.40 Stregthening of soil testing laboratories, building works in TASP, office building and staff quarters. 25. AGR-25 59.31 59.31 26. AGR-26 Construction of fourth floor of Krishi Bhaven. 5.32 5.32

Total:-

450.94

64.63

| 1 | | 2 | <u> </u> | 3 | 4 |
|-------------|-----------|---|----------|--------|----------|
| Pla | nt Protec | otion: | | * | |
| 27. | AGR-27 | Training of extension staff in plant protection. | | 7.05 | |
| 28. | AGR-25 | Batablishment of Central Agriculture Input Testing Laboratory at Gandhir | agar | 22.75 | |
| 2 9. | AGR-29 | Assistance to farmers using pasticides for aerial spraying. | •• | 48.82 | |
| 3 0. | AGR-30 | To help farmers in eradication of pest & disease on crop in endemic areas by aero-chemical operation. | | 40.00 | |
| 31. | AGR-31 | Control of prodenia pest. | ,, | 5.00 | |
| 32. | AGR-32 | Subsidy on purchase of tractor mounted sprayers. | | 15.04 | |
| 33. | AGR-33 | Subsidy on ground spraying of insecticides. | ** | 22.00 | |
| 4. | AGR-34 | Distribution of pasticides and plant protection appliances under subsidy scheme in tribal area. | | 22.90 | |
| 35. | AGR-35 | Control of white grubs. | •• | 18.00 | |
| 6. | AGR-36 | Additional staff for plant protection. | •• | 6.85 | |
| 7. | AGR-37 | Establishment of plant quarantine station. | | 8.83 | 3 |
| 8. | AGR-38 | Damonstration of plant protection measures on cultivators fields. | | 3.01 | |
| 9. | AGR-39 | Encouraging co-operative societies for custom spraying. | | 5.20 | |
|). | AGR-4) | Subsidy on insecticides and plant protection appliances to S C cultivators. | | 12.00 | |
| | | Total:— | | 237.45 | 3 |
| mn | nercial C | rops: | | | <u> </u> |
| | A7R-41 | Intensive cotton production programme irrigated cotton. | •• | 15.50 | |
| . 1 | A 3R 43 | Intensive cotton production programme in tribal area | •• | 26.09 | |
| 3. . | AGR-43 | Scouting scheme for intensive plant protection measures on cotton in selected | d. | 00.11 | |
| * | ACID 44 | areas. Intensive oilseed development including summer programme in tribal areas. | | 38.11 | |
| | AGR-44 | Intensive oilseed development programme (Groundnut) | • • | 71.75 | |
| | AR-45 | | •• | 73.00 | • |
| | | Intensive production of groundnut summer programme. | •• | 15.00 | • |
| | GR-47 | Planning & monitoring for oilseeds processing | •• | 5.00 | • |
| | | Development of castor in Kachohh district. | •• | 5.90 | • |
| . A | GR-49 | Sugarcane development. | •• | 12.53 | • • |
| A | | Intensive cotton district programme in Bharuch, Vadodara, Surendranagar and Sabarkantha districts. | | 91.76 | |
| | | | | | |
| | | Total:— | •• | 354.55 | |
| tens | ion & Fa | rmer's Training : | | | |
| | GR-51 | Publicity through state transport. | •• | 3.00 | • |
| . A | an | Provision of audio-visual vans to districts. | | 4.70 | |
| | GR-52 | | | | |
| . А | • | Provision of audio visual vans to districts. for TASP. | •• 1000 | 32.30 | 12.00 |

| 1 | | 2 | | 3 | 4 |
|------------|----------------|---|-----------|-------------|---------|
| 55. | AGR-55 | Agriculture education tour by tribal cultivators. | | 2.31 | •• |
| 56. | AGR-56 | Establishment of farmers training centres, construction of institute building & staff quarters. | | 00.74 | |
| 7. | AGR-57 | Establishment of farmer's training centres under TASP. | | 90.76 | 20.00 |
| 8. | AGR-58 | Organisation of crop competition. | •• | 102.25 | 55.51 |
|). | AGR-59 | Organisation of crop competition under TASP | •• | 0.72 | •• |
| 0. | AGR-60 | Increased production of pulses. | •• | 1.35 | •• |
| l . | AGR-61 | Development of pulses. | •• | 24.31 | •• |
| 3. | AGR-62 | Strengthening of adoptive research programme. | •• | 26.30 | • • |
| •• | 14010 02 | programme. | | 10.30 | •• |
| | | Total:— | •• | 304.00 | 93.21 |
| gri | cultural Er | ngineering. | | | |
| | AGR-63 | Improved agricultural in elements at substitised rate to Harisan and backer | and I | | |
| | | organ carmers. | ora | 2.10 | |
| Ļ. | AGR-34 | Improved agricultural implements at subsidised rates to Harijan & backward class farmers for TASP. | | 6.15 | |
| | A GR-65 | Supply of bullocks/male buffaloes to SC cultivators at | | 0.10 | •• |
| | ACD AC | subsidised rate | ••• | 0.25 | •• |
| ·. | AGR-65 | Supply of bullock carts to SC cultivators at subsidised rate | • • | 0.25 | |
| • | AGR-67 | Supply of bullocks at subidised rate to tribal cultivators. | •• | 132.98 | |
| • | A3R-58 | Supply of bullock carts at 'subsidised rate to tribal cultivators. | | 44.50 | |
|). | AGR-69 | Standar lisation of agriculture machinery and implements. | •• | 5.05 | •• |
| | | Total:— | | 191.28 | |
| gri | iculture Ec | onomics & Statistics: | | | |
|) . | AGR-70 | Investigation in artificial rain making (Tribal area). | 1.7 | 39.28 | |
| ι. | AGR-71 | Strengthening of mechanical tabulation unit. (EDC cell) | | 6.00 | ••• |
| 2. | AGR-72 | Installation of rain gauges and collection of rainfall data. | ••• | 2.27 | ••• |
| 3. | AGR-73 | Study and investigation in agriculture activities | | | •• |
| 1. | AGR-74 | Pilot sample survey for letermining the cost of production Total | nt fouita | 7.60 | •• |
| | | and spread and studying offer marked practices. | il Irulus | 4.87 | |
| 5. | AGR-75 | Co-ordination programme at pre-harvest forecasting yield of crop of groundnut. | | | |
| в. | AGR-76 | Timely reporting of estimates of area and production of principal | •• | 4.57 | |
| | | crops. | | 15.71 | |
| 7. | AGR-77 | Improvement of irrigation statistics. | | 5.00 | |
| 3. | AGR-78 | Improvement of crop statistics. | | 10.13 | •• |
| | | Total:— | | 95.43 | |
| lor | ticulture: | | | | |
| 9. | AGR-79 | Supervision of development activities pertaining to vegetables, fruits grafts, Plants & floriculture. | other | | |
| 0. | AGR-80 | Subsidised supply of fruit grafts & plants. | •• | 8.97 | •• |
| _ | AGR-31 | Subsidised supply of fruit grafts and plants for TASP. | •• | 15.00 | |
| I. | AUD-31 | Substance supply of fruit grafts and plants for TASP | | 24.86 | |

| 1 | | 2 | | 3 | 4 |
|-------------------|---------------------|---|-----|---------|--------|
| 82. | AGR-82 | Development of fruit nurseries and supply of grafts and plants etc. | •• | 23.14 | ±-0 • |
| 83. | ▲ GR-83 | Development of fruit production for export of banana. | •• | 9.82 | |
| 94. | AGR-84 | Package programme on mango | | 19.67 | • • |
| 85. | AGR-85 | Development of fruit nurseries. | •• | 4.00 | • • |
| 86. | AGR-86 | Date palm production in kachehh district. | •• | 11.51 | • • |
| 87. | AGR-87 | Ber cultivation | •• | 13.25 | |
| 88. | AGR-88 | Establishment of community canning centres and kitchen gardening. | •• | 24.49 | •• |
| 89. | AGR-89 | Promotion of vegetable cultivation in tribal areas. | •• | 29.64 | |
| 90. | AGR-90 | Crop development scheme for potato (Dangs) | | 24.56 | •• |
| | | Total : | ··· | 208.91 | •• |
| Oth 91. | er Expend AGR-91 | | •• | 20.00 | |
| | | $egin{array}{ll} egin{array}{ccc} \egin{array}{ccc} egin{array}{ccc} \egin{array}{ccc} array$ | | 3055.00 | 363.36 |
| Con | tingency l | Plan: | | | |
| 92. | AGR-92 | Investigation and survey for preparation of a shelf of project. | | 45.00 | •• |
| | | Nucleus Budget (AFCD) | ••• | 21.00 | Uŝ |
| | | Grand Total (Crop Husbandry) | | 3100.00 | 363.36 |

1.3 LAND REFORMS

1.3.1. Gujarat has been consistently following the policy of elimination of exploitation and achieving social justice in agrarian society. The State has been in the forefront in taking a number of progressive measures such as Tenancy Act, Tenure Abolition Laws which have been effectively implemented. The first Land Ceiling Act was enacted as early as 1960 and its impelementation has been completed.

1.3.2 Review of Progress.

- 1.3.2.1 In the first phase of land reforms in the Gujarat State, legislation were enacted for abolition of intermediaries. In addition to Tenancy Act, thirty different tenure abolition laws were enacted for the purpose. The peasants were placed in direct relationship with the State and enabled to become owners of the land either on payment of occupancy price or without payment of occupancy price. The last tenure of Devasthan Inam was abolished from 15th November, 1969. This tenure was already abolished in Saurashtra and Kachchh areas of the State under the Barkhali Abolition Act, 1951 and the Bombay Inam (Kachchh) Area Abolition Act, 1958. All the areas of the State are thus covered by the Raiyatwari Tenure by now. The implementation of the said Acts resulted in the removal of over 5 lakh intermediaries and conferment of occupancy rights on about 9.79 lakh persons over an area of more than 46.56 lakh hectares of land.
- 1.3.2.2 The Tenancy Act regulating the relationship between the tenant and landlord giving security of tenure and other related protections to the tenant was amended from time to time to make it more and more in favour of tenants. The principles of Land to the Tiller 'and' purchase or quit' were made applicable as back as in 1957. To plug the loopholes and to do away with concealed tenancies, the Tenancy Act, 1973, has been amended. The provision regarding resumption for personal cultivation in favour of landlords has been removed.
- 1.3.2.3 Occupancy rights are conferred in respect of an area of 46.56 lakh hectares of land. As pointed out by the National Commission on Agriculture, Gujarat is one of the six States which has enacted such a legislation. In Saurashtra area prohibition of Leases Act is in force by which lease of agricultural land have been totally prohibited.
- 1.3.2.4 In the second phase, the Gujarat Agricultural Land Ceiling Act, was enancted in 1960 with a view to imposing ceiling on land holdings for distribution of the available surplus land among the eligible weaker sections. This Act was brought in force from 1st September, 1961. The family was adopted as unit for ceiling rigth from 1961. Having regard

- to the types of land, the mode of irrigation, productavity of land, the minimum income required to accrue to a family etc. the villages in the State were classified into different categories and ceiling limits were fixed for those catagories. This ciling legilsation has been fully implemented. About 18012 hectares of surplus land has been taken over under this pre-revised Act. Out of this, 17768 hectares of surplus land has been distributed to 14729 beneficiaries of which 10,000 hectares of land have been distributed to the scheduled caste and scheduled tribe beneficiaries.
- 1.3.2.5 Over and above this surplus land, 5.39 lakh hectares of Government waste land out of 5.86 lakh hectares of Government waste land have been distributed to 2.39 lakh persons, majority of whom beloging to the scheduled castes, scheduled tribes and other backward classes etc.
- 1.3.2.6 A bill to amend the Ceiling Act which was presented in the State legislative assembly in 1972 was passed in 1974 but could not be brought into force on account of litigation. The Revised Ceilling Act was brought into force from 1st April, 1976.
- 1.3.2.7 In view of the recommendation of the State Level Committee, the Covernment had! also issued the instructions that in the case of land already declared surplus, possession should not be taken over and in the case of lands where rossession has been taken over, they should not be disposed; off on permanent basis. This ban on disposal of land already declared surplus has now been lifted with effect from 5th March 1980. As a consequence possession of 7478 hectares of land has been taken upto 30th November, 1980, and in remaining cases. is. Out of the land taken, being taken over. possession of 1447 hectares is disposed off on a permanent basis while 1686 hectares is given on Eksali, basis, as the land declared surplus in Surat, Blaruch, Vadodara, Panchmahals and Surendranagar districts is to be kept reserved for affectees of the Narmada Reservoir Project. The ban on cases for declaration of surplus land having been lifted other 8000 hectares of land is likley to be declared surplus and distributed to eligible allottees primarily belonging to scheduled castes and scheduled tribes.
- 1.3.2.8 Most of the land in these areas will bepoor in quality and will require development. As the allottees will be mainly from the weaker sections of the community, assistance will have to be provvided for inputs, like seeds, fertilisers, insecticides etc. A scheme envisaging an assistance of Rs. 1000/-per hectare consisting of Rs. 500/- for land development and Rs. 500/- for inputs is already sanctioned

- 1.3.2.9 The Bombay Prevention of Fragmentation and Consolidation of Holdings Act, 1947 is in force in the State. Antifragmentation restrictions of the Act are applicable all over the State. While provisions regarding consolidation of holdings are applied to such villages in which Government decided to implement the consolidation scheme, the scheme has been made voluntary. The main restriction contained in Section 31 of the Act was a ban on transfer of holdings of land after the scheme is implemented. The said provison has now been amended so as to remove restriction on transfer of entire consolidation block. It would now be easier to achieve progress is consolidation of holdings.
- 1.3.2.10 Provisions are also made for the ongoing programmes of upto dating the record of rights and loans to tenant cultivtors for purchase of occupancy rights. Specific schemes for the tribal area viz. (1) Protection against unathorised alienation of land held by tribals and (2) Grant of subsidy interest payable by tribal tenure are also included in the plan.
- 1.3.2.11 The deemed purchasers under the B.T. and L.A. Act, 1948 have to pay the purchase price determinded by the ALT under the Act on annual instalments. It is proposed to introduce a new scheme to grant subsidy toward; financial assistances to the Scheduled Caste tenant purchasers to acquire their occupancy rights.

1.3.3 Programmes for the Sixth Plan 1980:85.

1.3.3.1. An outlay of Rs. 1000 lakhs for the period 1980-85 is proposed for the Land Reforms programmes a broad break-up of which is as under:—

(Rs. in lakhs)

| (i) Consolidation of holdings | 180.00 |
|--|---------|
| (ii) Resurvey and Revision survey. | 179.00 |
| (iii) Rewriting and Reconstruction of torn Land Records. | 86.25 |
| (iv) Introduction of Village site survey. | 124.24 |
| (v) Updating Records of Rights. | 110.00 |
| (vi) Implementation of Agricultural Land Ceiling Act. | 124.88 |
| (vii) Others. | 195.63 |
| Total: | 1000.00 |

Consolidation of Holdings:

1.3.3.2 The scheme has been implemented in 3320 villages covering 14.25 lakh hecatres by the end of the year 1979-80. During the Sixth Five Year

Plan period 1980-85 it is proposed to continue the programme in 900 villages covering 450 thousand hectares with an outlay of Rs. 180 lakhs.

Resurvey and Revision Survey of Villages.

1.3.3.3 Revision Survey is generally required to be undertaken every 30 years. Original Survey in certain areas of the State was undertaken some 80 to 90 years ago. The work in 959 villages has been completed by the end of the year 1979-80. During the Sixth Five Year Plan period it is proposed to continue the programme in 860 villages with an outlay of Rs. 179.00 lakhs.

Rewriting and Reconstruction of Torn Land Records.

1.3.3.4 The work of 111.73 lakh units and 22.14 lakh pages was completed at the end of the year 1979-80. In the Sixth Five Year Paln 1980-85 an outlay of Rs. 86.25 lakhs is proposed to complete the work of 60 lakh units and 15.00 lakh pages.

Introduction of Village Site Survey.

- 1.3.3.5 Village site survey activities is taken up under section 95 read with section 131/135/G of Land Revenue Code in the following categories of villages (1) Villages having population below 2000 inhabitants, and having more than 5000/inhabitants(2) villages situated within the periphery of 5/1 Kms.from the urban agglomeration, (3) villages situated within extended area of Surat Municipal Corporation and (4) villages situated in Tribal Areas.
- 1.3.3.6 The survey of village site is prequisite for orderly development of the villages for various development activities both by local Bodies and Government. It also provides the Records of Rights (property cards) showing clear right title and interest and liabilities on each property. Such survey is also useful for administrative purposes and determing N.A. Revenue, detection of encroachment and unauthorised N.A. use etc. It provides accurate maps for various purposes.
- 1.3.3.7 The work of introduction of village site survey was completed in 102 villages by the end of the year 1979-80. During the Sixth Five Year Plan period 1980-85, it is proposed to provide Rs. 124.24 lakhs for introduction village site survey work in 382 villages.

Gujarat Survey Training Institute.

- 1.3.3.8 Land Record Department carried ou survey and classification operations, measurement o lands, recommending assessment measurement for in troduction of village site/city survey and survey fo acquisiton purposes and uptodate maintenance c the Land Records.
 - 1.3.3.9 Looking to the magnitude of activitic undetaken it has become necessary to have traine staff. This has necessited creation of a separate organisaton for imparting training. A separate Gu

rat survey Training institute is proposed to be established with an outlay of Rs. 9 lakhs. The institute will train 400 persons during the period of Sixth Plan.

Record of Rights

Specific measures for Land Reforms-Record of Rights Scheme.

1.3.3.10 In order to discover concealed tenancies and to update the record of rights to ensure that position as on field tallies with the position as on record, a scheme to update the record of rights has been introduced from the Fourth Five Year Plan period.

Upto the end of the year 1979-80 the work was completed in 16258 villages in the first round and 9226 villages in the second round. In the Sixth Five Year Plan period, it is proposed to continue the programme at an estimated expenditure of Rs.110 lakhs to complete the Record of Rights work in 5857 (2118 in first round and 3739 in second round) villages.

Protection against unauthorised alienation of lands held by tribals.

1.3.3.11 The scheme for protection against unauthorised alienation of land held by tribals is introduced under the Tribal Area Sub-Plan since the year 1976-77 to detect alienation of land held by tribals. This is a detection scheme. The assent to the bill for proposed amendments in Land Revenue Code and inserption of New Section 73-A is received from Government of India and the bill will take the shape of enactment shortly. Upto the end of March, 1980 the detection work is completed in 3691 villages and 17005 cases have been detected and 8050 hectares of land in 6518 cases is restored to tribals. The scheme will be continued in the Sixth Plan period with an outlay of Rs. 13.04 lakhs.

rant of subsidy in interest payable to Tribal Tenants.

1.3.3.12 Under the Bombay Tenancy and Agriculture land Act, 1948 the occupancy rights are given to tenants on payment of purchase price of the land in order to finance the purchase price to economically backward class tenants. The Gujarat State Co-operative Land Development Bank used to advance loans to such tenant purchasers. As the rate of interest in such loans charged by the said Bank is to the tune of 11/1/2% which is higher than the rate of interest charged by the Government, a scheme to subsidise the difference of rate in interest is introduced in plan since 1976-77 and proposed to be continued in the Sixth Five Year Plan at an estimated expenditure of 1.37 lakhs. The beneficiaries of this schemes are only tribals.

Implementation of Agricultural Lands Ceiling Act.

1.3.3.13. In the year 1960 Gujarat Agricultural Lands Ceiling Act was enacted with a view to imposing ceiling on land holding and for acquisition of surplus land for distribution preferably amongst Cooperative Societies, Scheduled Tribes and Scheduled Caste persons, landless labourers and other individual agricultural labourers. This Act was materially amended with a view to bring the same in line with guidelines issued by Central Government and the amendment Act was brought into force with effect from 1-4-76 and the scheme was included as a plan scheme from the year 1976-77.

1.3.3.14. The ban on disposal of land declared surplus is lifted with effect from 5-3-80. Ban on disposal of cases resulting in declaration of surplus land is also being lifted. As a result the scheme is required to be continued during the Sixth Five Year Plan with an outlay of Rs. 42 lakhs.

About 18012 hectares of surplus land has been taken over under this pre-revised Act. Out of this, 17768 hectatres of surplus land has been distributed to 14729 beneficiaries, of which 10,000 hectares of land have been distributed to the scheduled caste and scheduled Tribe beneficiaries.

Financial Assistance to the assignees of surplus lands.

1.3.3.15. The new allottees of the surplus lands get financial assistance for land development and agricultural inputs. The entire amount of Rs. 1000/- is now to be treated as subsidy and the share of Central Government will be 50% in the scheme. Generally the allottees of surplus land belong to weaker section of the society and they need financial assistance for the above purpose. The benefit of the above scheme is not extended to the allottees of land holders in programme areas. However, provision of the State share is required to be made in the Plan.

1.3.3.16. The scheme introduced in 1980-81 will be continued during the Sixth Plan period with an outlay of Rs. 82.88 lakhs as State share. It is envisaged that about 8000 hectares of land will be provided financial assistance under the scheme.

Loans to tenant cultivators for acquiring occupancy rights under B.T. and A.L. Act.

1.3.3.17. In order to protect the rights of tenants on lands who are in arrears of payment of purchase price, a scheme has been introduced during the Fifth Five Year Plan for advancing loan to such tenant cultivators. In the Sixth Five Year Plan period it is proposed to continue the scheme with an outlay of Rs. 25.50 lakhs.

Financial assistance to grantees of Government Waste lands for development of lands etc.

1.3.3.18. With introduction of 20 point enconomic programme from the year 1975, Government waste land is being granted on a priority basis to the Scheduled Caste and Scheduled Tribe communities. These persons come from most economically weaker section and the lands granted being of the inferior quality they are not in a position to put the lands into effective cultivation and some of the lands have remained fallow. Government waste lands granted grantees during the last 4 years is as under:—

| Year | Scheduled Tribes | Hectares | Scheduled Castes | Hactares |
|------|---------------------|----------|---------------------|----------|
| 1976 | 3240 | 3774 | 3239 | 4893 |
| 1977 | 1650 | 2202 | 2550 | 4051 |
| 1978 | 720 | 1151 | 1501 | 2181 |
| 1979 | 184 | 317 | 720 | 8102 |
| | 5794 | 7444 | 8010 | 19227 |

1.3.3.19. Thus 26,671 hectares ofland in distrubuted of which approximately is situated in programme areas and will get required assistance under the various schemes applicable in the programme areas. In the remaining 66 Talukas the grantees holding about 6400 hectares of land who are not entitled to any such assistance will need assistance for development of land and for effecient cultivation. It is proposed to grant such assistance at the \mathbf{rate} of Rs. 1000 per hectare out of which Rs. 500/- will be for land development and Rs. 500/- for inputs. An outlay of Rs. 34.36 lakhs is provided for 1980-85 Sixth Plan.

Financial assistance to Tribal Tanant purchasers to acquire occupancy rights under the B. T. & A. L. Act. 1948.

1.3.3.20. The deemed purchasers under the B. and A. L. Act, 1948 have to pay the purchase pridetermined by the A.L.T. under the Act by annulinstalments. The interest @4% is added to to purchase price and the annual instalment is fixed accordingly. There is a general scheme for a vancing tagavi lean bearing 7% interest in operation in the State to pay up the arrears of instalments.

It is proposed to sanction a scheme of financial assistance to the Tribal tenant purchasers under the Tribal Area-sub-plan scheme to enable them to acquire occupancy rights; in respect of land for which purchase rights are conferred under the B. T. & A. L. Act. This will help in raising economic status of this weaker section of the tribal society. Under this scheme it is proposed to cover only those tribal tenants who are having less than 2 hectares of land and have no other source of family income. It is proposed to put interfect the above scheme with the proposed outlay of Rs. 51.44 lakhs for the Sixth Five Year Plan, benefiting about 35000 tribal tenant purchasers where marginal or small farmers.

Subsidy of financial assistance to Scheduled Cast Tenants, to acquire the occupancy rights under t B. T. & A. L. Act.

1.3.3.21. It is proposed to introduce a schen assistance to the scheduled casi of financial tenant purchasers under the Special Componer plan for Scheduled Castes to enable them to acquioccupancy right, in respect of lands for which pu chase rights are conferred under the B. T. & A. Act, which will help in raising the economic state of the weaker section of the Society. It is propose to grant this assistance to Scheduled Caste tenai purchasers having land less than 2 hectares an who have no other source of family income. is proposed to put into effect the scheme with total outlay of Rs. 24 lakhs during Sixth Five Ye Plan. This is likely to help 6000 Scheduled Cas tenant-purchasers who are also marginal or sme farmers.

STATEMENT

LAND REFORMS

List of schemes included in the Sixth Five Year Plan 1980-85.

(Rs. in lakhs) No. and Name of the Scheme Sixth Five Year Plan Sr. No. 1980-85 Outlays Tetal Capital 1 2 3 1 LND.1 Consolidation of Holdings 180.00 LND.2 Resurvey and Revision Survey 179.00 LND.3 Rewriting and Reconstruction of forn Land Records 86.25 LND.4 Introduction of village site survey 124.24 LND.5 Updating the maintenance work of Land Records of the District Б Survey Offices of the State. 13.00 LND.6 Reclassification of the lands of the villages of Jamnagar District 12.00 LND.7 Purchase of Zerox machines for supply of the copies. 8,17 LND.8 Scheme for Erection of BND marks in the Remaining surveyed villages of the Dangs District. 3.75 LND.9 Gujarat Survey Training Institute 9.00 LND.10 Updating Records of Rights 110.00 LND.11 Protection against unauthorised alienation of Land held by 11 13.04 LND.12 Grant of subsidy on interest payable by tribal tenants for 12 acquiring occupancy rights. 1.37 13 LND.13 Implementation of agricultural land ceiling Act. (a) Administrative set-up 42.00 (b) Financial Assistance to allottees of surplus lands. 82.88 LND.14 Loans to tenant cutlivators for acquiring occupancy rights under the B.T.&.A.L. Act 25.50 LND.15 (a) Subsidy to Tribal tenants for payment of purchase price for occupancy rights under the B.T. & A.L. Act. 51.44 (b) Subsidy to Scheduled Caste Tenants for payment of purchase price for acquiring occupancy rights under B.T. & A.L. Act. 24.00 16 LND.16 Granting financial assistance to Grantees of Government Waste Lands. 34.36 Total. 1000.00

1.4, MINOR TRRIGATION.

1.4.1. Introduction.

1.4.1.1. Water is inevitably the prime constituent or agriculture. Nearly 70 percent of the population of Gujarat depend on agriculture and agriculture is, therefore, the backbone of Gujarat's economy. The crops over most part of the State depend upon the vagaries of monsoon with hardly 16 percent of the cultivable lands provided with irrigation facilities. Irrigation water is the fundamental and indispensable input to increase agricultural productivity in as much as it has a potential to increase the productivity more than three times. Besides, it becomes worthwhile to incur expenditure on other inputs like seeds, fertilizers, land development etc., only if there is an assured water supply for agriculture.

Dispite its needs, Gujarat is, 1.4.1.2. of the States in the Country with relatively limited water resources for irrigation. Large areas of the State are attacked with scarcity often. The inadequary and uneven distribution of rainfall over large] parts of the State are responsible for recurrent droughts in one or other part of the State. About 23 percent of the area of the State receives average annual rainfall even less than 431 m.n. (17") and about 33 percent of the additional area receives less than 635 mm (25"). Banaskantha, Kachchh and also part of Mahesana, Surendranagar and Rajkot districts are characterised by arid and semi arid climato, the average rainfall in these areas varying from 250 mn. to 450 mn. Similarly, Panchmahals. Sabarkantha and parts of Bhavnagar and Ahmadabad distriots are also facing searcity conditions in 7 out of

10 years. The sources for water in all areas are by way of surface water & ground waters. In fact, some of the ground water resources have been badly depleted specially in Mahesana district, where control on the sources for tapping of ground water is called for. Same is the situation in the coastal parts of Saurashtra (Junagadh district) where the ingress of salinity from the sea coast into ground water has converted potentially fertile soils into marginally productive of unproductive soils.

1.4.1.3. Minor Irrigation programme includes ground water development through construction of dugwells, private shallow tubewells, deepening of public tubewells, boring and blasting for deepening of old and new dugwells, installation of oil engines, eleetric motors and surface water development through diversion schemes, storage schemes and lift irrigation projects having culturable command area not more than 2000 hectares. Bulk of the finance for minor rrigation programme for private wells and tubeiwells, pumpoets and also for public tubewells and lift irrigation schemes is obtained from financial institutions like ARDC etc., Public sector outlay utilised for surface water schemes. mostly giving subsidy to Harijan and Addivasi cultivators for construction of new wells, installation of pumpiets and pipelines, providing custom hire sarvices to cultivators for boring and blasting works.

2.4.2. Review f Progress.

1.4.2.1. The total irrigation potential created and utilisation achieved by the various minor irrigation works such as tanks and bandharas, tubewells, lift irrigation and wells are depicted in the table below:

(In lakh hectares)

| | | | Achievement at the end of | | | | | | |
|--------------|---------------------|-------|---------------------------|------------------|-------------|------------------|----------------|------------------|--|
| | Programme | | 1977–78 | | 1978-79 | | 1979-80 | | |
| | 1 | | Potential 2 | Utilisation 3 | Potential 4 | Utilisation 5 | Potential 6 | Utilisation 7 | |
| 1. 7 | fanks and Bandharas | | 1.17 | 0.72 | 1.19 | 0.76 | 1.28 | 0.80 | |
| 2 .] | Lube wells | | 1.00 | 0.65 | 1.11 | 0.65 | 1.24 | 0.65 | |
| 3 . I | ift Irrigation | | 0.37 | 0.26 | 0.42 | 0.28 | 0.45 | 0.29 | |
| 4. 1 | W ells | | 14.05 | 12.64 | 14.21 | 12.79 | 14.37 | 12.93 | |
| | | Total | 16.59 | 14.27 | 16.93 | 14.48 | 17.34 | 14.67 | |

1.4.3. Strategy and Priority adopted for the Sixth Plan.

1.4.3.1. The strategy and priority for the minor irrigation schemes under the Sixth Five Year Plan are as under:—

(1) Tribal and backward areas of the State have been accorded high priority in providing irrigation facilities during the Sixth Plan 1980-85. Efforts are also being made to provide irrigation facilities as far as practicable even to such areas where small pockets of such population exist.

- (2) Minor irrigation works can be completed within a period of 2, to 3, years and irrigation can start immediately, thereafter. With a view to get carly, results from investments already made, the schemes which are in an advanced stage are given high priority and outlay required to complete such schemes is provided fully.
- (3) New programme of modernisation of distribution system of the old and existing irrigation tanks is also proposed to be implemented. This will help in increasing the irrigation facilities in the backward areas.
 - (4) For balanced development of different areas priority will be given to new works in such areas which are backward in irrigation facilities or areas which have no other source of irrigation.
 - (5) Priority is proposed to be given in to areas classified as drought prone areas and inhabited by scheduled caste population.
 - (6) Areas which are not covered under the command of Narmada Project are also given preference.
- (7) Among different types of works under this programme of minor irrigation, priority is given for irrigation tanks and bandh ras which give direct and immediate benefits of irrigation. This is followed by percolation tanks and check dams which give indirect benefits by raising water levis in the wills in the nearby areas.
- (8) Investigation of hydrology in hard rocky areas.
- (9) Survey, research and development of ground water resources including recharge.
- (10) Stepping up mobilisation of institutional investment for ground water development to maximum extent possible through progressive simplification and streamlining the procedures for entertaining and processing of loan applications.
- (11) Strengthening the agricultural engineering section of the Agriculture Department for speeding up the work of micro level surveys, promoting research and developmental efforts to evolve cheap technology and extending to the farmers technical guidance and custom services in boring/drilling, selection of pumpsets and construction of wells and tubewells.

1.4.4. Programmes for the Sixth Plan 1980--85

1.4.4.1. An outlay of Rs. 8800 lakhs is proposed for the various programmes of this Sub-sector for the Sixth Plan 1980-85, the broad break up of which is asunder:—

(Rs. in lakhs.)

| | 7 |
|--|-------------------|
| Programme | Outlay 1980–85 |
| I. D. Programmes. | 24 |
| 1. Tanks and Bandharas | 6000.00 |
| 2. Tubewells | 2350.00 |
| A. F. & C. D. Programmes | |
| 3. Co-operative Lift Irrigation | 80.00 |
| 4. Boring-Blasting activities and assistance to backward classes | 370.00 |
| Total | : 8800.00 |

Minor Irrigation Works:

1.4.4.2. The spillover liabilities for the minor irrigation works at the end of March, 1980 accounts for Rs. 2974 lakhs. For continuing the present tempo of minor irrigation works and also to conform with the high priority of providing irrigation facilities, an outlay of Rs. 6000 lakhs is provided for the tanks and bandharas programme for the Sixth Plan 1980-85. This accounts for Rs. 2974 lakhs for spillover works and the balance of Rs. 3026 lakhs for the new works.

1.4.4.3. Priority will be given to the programmes for the tribal, backward, and drought prone areas and for such areas which are not covered under the command of Narmada Project. The State Government has strengthened its organisation by creating 8 divisions and 40 sub-divisions in addition to the existing minor irrigation project circle (Central Design Organisation) with two design units attached to it and two divisions for the field works, to investigate and design the schemes properly. It is proposed that about 0.35 lakh hectares of additional irrigation potential will be created during the Sixth Plan through tanks and bandharas programme taking the total potential to 1.63 lakh hectares at the end of 1984-85, whereas the utilisation will be increaced by 0.20 lakh hectares during the Sixth Plan, bringing the total utilisation to 1.00 lakh hectares by the end of 1984-85.

Tubewells

1.4.4.4. Tubewells are the most assured source of supply of water for irrigation. Tubewells tap the deep acquifers of ground water through slotted pipes lowered in drilled holes by lifting out water by pumps and distribution through pipe lines of open

channels. The State Government has reactivised the 'Gujarat Water Resources Development Corporation Limited (GWRDC), during the year 1975-76 for the speedy and effective development of ground water through tubewells. The Corporation has undertaken various surveys for irrigation purpose and has prepared a feasibility report of availability/suitability of underground water for drilling of about 3200 tubewells in the State during the Sixth Plan period. The GWRDC is given the institutional finance through the Agriculture Refinance and Development Corporation (ARDC). State Government provides 20 percent as share capital contribution to the GWRDC and the ARDC gives loans to the GWRDC for the remaining 80 percent of the estimated cost of the project which is refundable in a period of ten years.

I.4.4.5. By March 1980, the GWRDC had successfully drilled 785 tubewells under different programmes. Out of this, 376 tubewells were already commissioned by April, 1980, creating an irrigation potential of 0.24 lakh hectares taking the total potential to 1.24 lakh hectares at the end of 1979-80. It is proposed to carry out the works of 1920 tubewells during the Sixth Plan in addition to spill over of 409 tubewells. Thus during the Sixth Plan period, it is proposed to complete 2100 tubewells. It is estimated that an additional irrigation potential of 1.26 lakh hectares will be created during the Sixth Plan raising the irrigation potential to 2.50 lakh hectares by the end of 1984-85.

Dantiwada Project:

- 1.4.4.6. Due to shortage of surface water in the command area of the Dantiwada command and surplus available ground water in that area, it is proposed to undertake a new pilot project of construction of 200 tubewells in 67 clusters for the conjunctive use of water along the main canal and distributories in the upper reaches of Dantiwada Command Area at a total cost (including maintenance) of about Rs. 410 lakhs.
- 1.4.4.7. Renovation and modernisation of the existing tubewells, extension of pipelines of 300 tubewells and redrilling of 100 tubewells in Mahesana and other districts are also proposed to be carried out during the Sixth Plan period.
- 1.4.4.8. An outlay of Rs. 2350 lakhs is proposed for the tubewells programme for the Sixth Plan 1980-85 which comprises of Rs. 376 lakhs for the spill over liabilities (as on 31st March, 1980) and Rs. 1974 lakhs for the other new programmes/works.

Underground Hydrology:

1.4.4.9. The Gujarat Water Resources Development Corporation is now closely collaborating with the Physical Research Laboratory for quantitative assessent of ground water with radio-isotope tracer technique and with Indian Space Research Organisation in connection with satalite imagineries. This sphere involves fairly good amount of field work for ground truth checks. Recharge studies are also being planned in collaboration with UNDP and CCWB. This is very essential for the recently developed subjects of under ground hydrology.

Co-operative Lift Irrigation:

1.4.4.10 Lift irrigation schemes are taken up either on the banks of river or nalas where sufficient flow of water is available in monsoon and on private wells. Minor irrigation activities are organised in the form of co-operative lift irrigation societies The Government gives 45 percent of the cost of the scheme as subsidy which is raised to 75 percent in tribal areas. In order to encourage more and more to join | and to members of scheduled castes take benefit of the co-operative lift irrigation scheme the State Government gives 50 percent subsid-towards the share capital contribution. Further, i is proposed to give 50 percent subsidy towards repayment of capital cost in the form of water charge recovered from the scheduled caste members for fiv years since the commission of the scheme. It is proposed to organise 133 lift irrigation societie during the Sixth Plan taking the total runter o societies to 653 at the end of 1984-85 as cenjare to 520 at the end of 1979-80.

Grant of subsidy to SC/ST cultivators:

1.4.4.11 The State Government has been encouraging the construction of new wells and installation of pump sets to scheduled caste (Harijans etc.) and scheduled tribe (ST) cultivators for utilising irrigation potentiality and resulting in increasing the agricultural production. During the Sixth Plan 1980-85, it is proposed to provide assistance to 4500 cultivators for the construction of 2550 wells and installation of 4900 pumpsets. An outlay of Rs. 260 lakhs is proposed for this scheme for the Sixth Plan 1980-85.

Extension Activity Services:

1.4.4.12 It is proposed to provide necessary guidance, advisory service and training to cultiva tors for proper selection/utilisation of agricultura machinery. During the Sixth Plan 1980-85, it is proposed to train about 4920 cultivators under this programme. An amount of Rs. 40 lakhs is proposed for this scheme for the Sixth Plan 1980-85.

Boring and Blasting Operations:

1.4.4.13 The boring and blasting operation make it possible to dig and deepen wells expeditiously and thereby to increase water storage capacity in the wells. It is, therefore, necessary to carry our boring and blasting operations within the paying capacity of the cultivators, so that irrigation facilities tare improved and thereby increasing the agricultural production. An outlay of Rs. 70 lakhs is proposed for this scheme for the Sixth Plan 1980-85.

STATEMENT

MINOR IRRIGATION

List of Schemes included in the Sixth Five Year Plan 193)-35

(Re. m lelle).

| Sr. No. | No. and Name of the Scheme | Si ath The Year Than | | |
|---------------------|--|----------------------|---------|---------|
| | | - | Total | Capital |
| 1 | 2 | | 3 | 4 |
| I. D. Programmes | | | | |
| 1. MNR1 | Tanks and bandharas, check dams, percolation tanks etc., (Suraface irrigation) | | 6000.00 | 40.60 |
| 2. MNR—2 | Tubewells including ground water survey and investigations. | | 2210.00 | 2206 (6 |
| | Total : (I. D.) | | 111(((| 5-6-60 |
| II. A. F. and C. D. | Programmes : | , | | |
| 3. NNR-3 | Co-operative Lift Irrigation | | 80.60 | 10.4 |
| 4. MNR-4 | (1) Grant of subsidy to Berijans, (S. C.) & S. T. cultivators irrigation facilities (nontribal). | for | 60.00 | |
| | (2) —do— for TASP. | | 200.00 | ••• |
| 5. MNR-5 | (1) Extension Activity Services (nontribal) | | 11.00 | •• |
| | (2) Extension Activity Services for TASP. | | 29.00 | •• |
| 6. MNR—6 | Improvement of wells by boring and blasting. | | 76.60 | L.•• |
| | Total (A. F. & C. D.) | - | 41(.(6 | |
| | Grand Total: (Minor Irrigation). (I+II) | •• | 09.9333 | 1546.64 |

1.5. SOIL AND WATER CONSERVATION

1.5.1. Introduction :

1.5.1.1. Substantial areas of Gujarat State periodically experience droughts and floods leading to considerable loss in agricultural production. Ecological deterioration because of denudation of forests and excessive grazing has led to soil erosion. A large part of the State suffers from poor soil, undulating terrain and undependable rainfall. Irrigation facilities are extremely limited in the State. Soil rerosion by wind and surface runoff takes place continuously in different parts of the State on an extensive scale. Geographical area of the State according to area classification admeasures lakh hectares, of which the area reported for land utilisation purposes comes to 188.09 lakh hectares. Out of this, an area of nearly 126.51 lakh hectares still needs various soil and water conservation measures

1.5.1.2. In the past, the soil and water conservation works viz. contour bunding, terracing, nalla plugging, land reclamation, conveyance of water etc. were undertaken on a large scale, but the approach was limited on small catchment basis and scattered. In order to reap the benefits of erosion control and water conservation for complete harvesting of rainfoll water and making it fit for maximum use to increase agricultural production and to solve the various problems like flood prevention, gully control, land reclamation, improvment of pastures including village forests and farm forests, this programme is now planned to be undertaken on a water shed basis on large areas. This provides opportunities for stimulating economic growth and acts as catalyst to the whole rural development endeavour by benefitting the weaker sections of the society with adequate employment opportunities and thereby raising their level of income.

1.5.1.3. In all, 446 sub-watersheds in catchment areas of various river systems have been so far demarcated in the State covering an area of about 13.87 lakh hectares against the total area of 126.51 lakh hectares which needs watershed treatment. Though the entire work of demarcation and delination of various sub-watersheds is not completed, the total number of such sub-watersheds will approximately come to about 6325 in the State.

1.5.2. Review of Progress:

1.5.2.1. The physical progress achieved so far under soil and water conservation works and ravine land reclamation development programme is summarised below:—

| | | (| in lakh l | hectures; |
|----|---|----------|-----------------|----------------|
| Sr | | Achievem | ent at th | ne end c |
| No |) . | 1977-78 | 1978-79 | 1979-80 |
| 1 | 2 | 3 | 4 | 5 |
| 1 | Area covered under soil and water conservation works-contour bunding equivalent | | 18.14 (0.53) | 18.79 (0.65 |
| 2 | Ravine land reclams tion-area covered | 0.42 | 0.44 (0.02) | 0.48 (0.04) |

(Figures in brackets indicate the net achievement)

1.5.3. Objectives for the Sixth Plan:

- 1.5.3.1. The proposals for the Sixth Plan have been formulated keeping in view the following majo objectives:
 - 1. To provide optimum utilisation of available rainfall and thereby to reduce the severity of the impact of drought.
 - 2. To improve the capabilities for integrated planning and implementation.
 - 3. To reclaim ravines for economic land us like agriculture and forests and thereby to restor the ecological balance.
 - 4. To protect the coastal saline land agains ingress of tidal waters and improve the land for maximum agricultural production.
 - 5. To create awareness among the farmer about the adoption of scientific farming through utilisation of packages of practices and thereby increase the income of the weaker sections of the society.

1.5.4 Outlay for the Sixth Plan-1980-85.

1.5.4.1. An outlay of Rs. 2894 lakhs is propose for the soil and water conservation programmes. broad break-up of the outlay is given in the following table:—

(Rs. in lakhs)

| | Programme | 1980-85 Outlay |
|-----|--|-------------------|
| I. | AFCD Programmes | |
| 1. | Direction and Administration | 50.00 |
| 2. | Research | 5.00 |
| 3. | Education and Training | 10.00 |
| 4. | Soil Conservation | 1482.55 |
| 5. | Other Programmes (including ravine and kharland reclamation) | 946.45 |
| | Total (AFCD Programmes) | 2494.00 |
| 11. | I.D. Programme | |
| 6. | Ghed Area Development | 400.00 |
| | Grand Total (I+II) (Soil and Water Conservation) | 2894.00 |
| | | |

1.5.5. Programmes for the Sixth Plan 1980-85

Dissetisa and Administration (Soil Survey) :

1.5.5.1. Soil survey provides some basic information about the nature and characteristics of soil and their extent, locations, their use, capabilities etc. The most important and widely recognised practical utility of the soil survey is to provide a scientific and systematic study for the soil and water crop relationship to increase the agricultural production. There are 3 soil survey units with headquaters at Nadiad, Navsari and Bhavnagar functioning in the State. Under this programme, it is proposed to carry out survey in an area of about 6.00 lakh heactares during the Sixth Plan period. An outlay of Rs. 50.00 lakhs is proposed for the Sixth Plan 1980-85.

Research:

1.5.5.2. With a view to have investigation and studies of various types of problems like drainage, water logging, wind erosion etc. and to evolve new and modified techniques to deal with the various soil and water conservation treatment in the different types of soils, the programme of investigation and research has been proposed to be continued in the problematic areas viz. at Limbhoi (Sabarkantha), Akru (Ahmedabad) and at Radhanpur (Banaskantha) for which an outlay of Rs. 5.00 lakhs is proposed for the Sixth Plan 1980-85.

Education and Training:

1.5.5.3. Various soil conservation measures are proposed to be undertaken in the State such as watershed development, ravine land reclamation, kharland development, river valley projects etc. It is therefore, proposed to impart training to about 1000 persons in soil and water concervation techniques during the Sixth Plan to meet with the requirements of the trained/technical manpower. An outlay of Rs. 10.00 lakks is proposed for the Sixth Plan 1980-85.

Programme for Wind Erosion affected areas:

1.5.5.4. The northern districts of the State and the area of Kachchh suffers from wind erosion problem where the annual rainfall is about 375 mm. to 500 mm. The soils of these areas are generally sandy in nature which leads to a severe problem of wind erosion bringing about the denudation of crop To protect this land, the pilot projects for controlling wind erosion in such problematic areas have been established with nurseries, shelter belts. plantations etc. Under this programme, an area of about 860 hectares has been covered by the end of 1979-80. It is proposed to cover an area of about 1250 hectares by the end of Sixth Plan 1980-85. An amount of Rs. 14.76 lakhs is proposed for the pilot project for controlling wind erosion problem for the Sixth Plan 1980-85.

Soil Conservation Works:

1.5.5.5. soil and water conservation works are proposed to be carried out in all the 446 sub-watersheds already demarcated in the State. It is proposed to cover an area of about 3.51 lakh hectares (contour bunding equivalent) taking the total coverage to 22.30 lakh hectares by the end of 1984-85. The existing staff of the six divisions and 23 sub-divisions functioning in the State will be utilised for the soil and water conservation works. It is also proposed to undertake follow-up programme of dry farming practices in an area of about 5.00 lakh hectares in the Sixth Plan 1980-85.

Ravine Land Reclamation:

1.5.5.6. Ravine formation is the result of constant erosion over many centuries in the deep alluvial soils of the main rivers and their tributories. These ravines are known as 'Kotars'. Faulty agricultural practices, illicit cutting of vegetation for fuel and exposing the areas to the vagories of nature like wind storms heavy rainfall and floods etc. accelerates the process of erosion hazards. The ravine area extending from 1 to 8 kms. on both the banks of the rivers and their tributories is endangering the good fertile table land, village sites, roads etc. It is estimated that, in Gujarat, about 4 lakh hectares of area have been affected by the ravines on the various

rivers viz. Banas, Saraswati, Meshwo, Watrak, Mahi, Narmada, Tapi, Shetrunji, etc. and their tributories flowing in the district of Banaskan tha, Sabarkantha, Mahesana, Kheda, Vadodara, Panchmahals, Bharuch, Surat, Amreli etc.

1.5.5.7. The State Government has established the "Gujarat State Land Development Corporation" for undertaking the activity of ravine land reclamation expeditiously. To give impetus to this activity, the programme of advance survey and planning for preparation of projects in ravine areas has also been undertaken by the Corporation. It is proposed to give share capital contribution to the tune of Rs. 50 lakhs for the Sixth Plan 1980-85 to the Corporation to undertake its activities more effectively. Under this programme, it is proposed to cover an area of about 0.15 lakh hectares during the Sixth Plan period taking the total area covered to 0.63 lakh hectares at the end of 1984-85.

Khar Land Reclamation:

1.5.5.8. Gujarat is having a long coastline of about 1600 Kms. of length. A large part of this area adjoining the coastal line in the twelve districts of the State is affected by salinity. An area of about 3.00 lakh hectares is under the effect of salinity due to ingress of tidal waters. This has rendered the upper area of these kharlands infertile resulting in low agricultural production.

1.5.5.9. The Kharland Development Board, established under the Khar Land Act, 1963, undertakes protective works by constructing earthen embankments alongwith the cross drainage works to stop the ingress of tidal water. As per the provisions of the Khar Land Act, 1963, the expenditure on land reclamation is to be shared by the State Government and the beneficiary in the ratio of 40: 60, the Government share being the subsidy. It is also proposed to continue the mobile soil testing laboratory (in Ahmedabad district) to ascertain progressive reduction in salinity and to recommend correction measures to the farmers. The demonstrations will also be organised to educate the farmers on the lenefits of Khar land reclamation and methods of improvement of the areas under Ukai-Kakrapar and Shetrunji Irrigation Projects.

Preparation of Kyari for Paddy Cultivation:

1.5.5.10. Nearly 1.37 lakh adivasi cultivators are residing in the Surat and Valsad districts. In general, the agricultural lands of Surat and Valsad districts are suitable for paddy cultivation. With view to encourage adivasi cultivators to undertake paddy cultivation, Government has formulated a scheme from the year 1978-79, under which, one acre of the holding of a tribal cultivator is to be converted into kyari for paddy cultivation in these

2 districts. Necessary technical guidance will also be provided by the Government for this purpose. 50 Percent of the total expenditure or Rs. 500 (per acre) with ever is less, will be paid to the cultivators as a subsidy. During the last two years i.e. 1978-79 and 1979-80, the benefit has been given to about 8142 tribal families covering an area of about 3257 hectares. It is proposed to enxtend this benefit of about 30000 tribal families covering an area of about 12000 hectares during the Sixth Plan period 1980-85. An amount of Rs. 150 lakhs is proposed for this scheme for the Sixth Plan 1980-85.

1.5.6. Soil conservation works in catchnert siess of river valley Projects:

1.5.6.1. The centrally spersered selene (10:11) for carrying out soil conservation works in catchment areas of the river valley projects for the Ukai, Mahi and Demanganga Irrigation Projects is proposed to be continued during the Sixth Plan period. It is proposed to cover an area of about 10500 hectares under the various soil and water conservation measures during the Sixth Plan period. An outlay of Rs. 80 lakhs (State share) is proposed to be provided for this purpose. The remaining 50% outlay will be received from the Government of India (25% loan and 25% subsidy).

1.5.7. Development of Ghed Areas:

1.5.7.1. Ghed area is situated in about 1425. sq. kms. divided in two parts-Barda Ghed and Sorthi-Ghed in the north-west of Junagadh district. The Barda ghed comprises of 30455 hectares of the cultivable land while the Sorthi, ghed comprises of 79950 hectares. The ghed area is a vast deltaio region of the major west flowing rivers viz Minser, Bhadar, Ozat, Madhuvanti, Sabli etc. and is hounded by the Arabian sea-coasts on the south-west. All along the coasts, there is a lime stone ridge, the width of which varies from one furleng to one mile. The above rivers have made their way through this lime stone ridge and have formed outlets into the sea. As the riverbed gradients in this deltace area are very slight most of the rivers over flew their banks and inundate the countryside. The flood water causes innudation and erosion in the surrounding cultivable lands besides salty efflorescence in the soil. During the floods of 1980 menseen, this area was very badly affected.

1.5.7.2. In order to find out solutions to the aforesaid problems, the proposals are framed for widening and regrading of the existing cross and longitudinal drains, providing additional drainage facility and new outlets to the sea, strengthening the communication system and to provide electricity operated steel gates on the regulators to effectively prevent ingress of sea water. By taking these measures.

is expected to bring about 51230 hectares-38900 ectares of Sorthi ghed and 12400 hectares of Barda hed area-under cultivation. For the development these areas, two comprehensive master plans are repared, costing about Rs. 417 lakhs for Sorthi ghed at Rs. 904.31 lakhs (including Rs. 810 lakhs for edha Creek reclamation scheme which is partly inctioned and is posed to the World Bank for sistance) for the Barda ghed area. The master lans provide for quick drainage facilities, closing

of off-shoots, constrction of C. D. Works-cum-regulators on cart tracts, construction of percolation tanks and reclamation works etc. The preliminary works on the rivers viz. Minsar, Ozat and Madhuvanti are nearing completion.

1.5.7.3. An outlay of Rs. 400 lakes is proposed for the ghed area development programme in the Sixth Plan.

STATEMENT

SOIL AND WATER CONSERVATION

List of schemes included in the Sixth Five Year Plan 1980-85.

(Rs. in lakhs)

| k. io, | | No. and Name of the Scheme | | Year Plas 80–85 tlays |
|-----------|----------------------|--|------------------------------------|-----------------------------|
| ı | | 2 | Total 3 | Capital |
|) A. | F. C. D. Prog | rammes | | |
| I | Direction and | Administration | | |
| | 1. SLC-1 | Strengthening of Soil Survey Organisation | 50.00 | •• |
| п | Research 2. SLC—2 | Soil Conservation Investigations | 5.00 | •• |
| ш | Education ar | d Training | | |
| | 3. SLC-3 | Soil Conservation Training | 10.00 | 10.00 |
| TV | Seil Conserv | ation | ·································· | |
| | 4. SLC-4 | (1) Soil conservation including contour bunding, nala plugging, terracing etc. in non tribal areas | 942.55 | |
| | | (2) Soil conservation including contour bunding, nala plugging, terracing etc. in TASP. | 540.00 | |
| | | Sub-Total (Soil Conservation) | 1482.55 | • • |
| | Other Progra | ammes | | |
| | 5. SLC-5 | Afferestation and reclamation of ravine lands | 200.00 | • |
| | 6. SLC-6 | Advance survey and planning for watershed management | 30.00 | • • |
| | 7. SLC-7 | Pilot projects for soil conservation in watershed areas | 20.00 | • |
| | 8. SLC—8 | Pilot project for wind erosion problem | 14.76 | |
| | 9. SLC-9 | Reclamation of kharland under Kharland Act; | | |
| | | (a) Protection of reclamation measures | 169.93 | • |
| | | (b) Kharland Board (H. Q. staff) | 24.45 | • |
| | | (c) Mobile soil testing laboratory | 27.81 | • |
| | | (d) Drainage work in water logged alkaline and saline area | 8.50 | |
| | | Sub-Total—9 (Khar Land Reclamation) | 230.69 | |

| 1 | 1 | | 2 | | 4 |
|------|----------|----------|---|---------|--------|
| | 10. | SLC-10 | Share capital for Gujarat State Land Development Corporation | 50.00 | •• |
| | 11. | SLC-11 | (1) Kyari making for paddy cultivation in Surat and Valsad districts | 150.00 | |
| | | | (2) Kyari making for paddy cultivation in Dangs district | 50,00 | |
| | 12. | SLC-12 | Carrying out soil conservation work in River Valley Projects (centrally sponsored Scheme) | 80.00 | |
| | 13. | SLC-13 | Pilot projects for protection of table lands | 100.00 | •• |
| | | | Nucleus Budget for TASP (AFCD) | 21.00 | •• |
| | | | Sub-Total-V—(Other Programmes) | 946.45 | |
| | | | Total-(I)(AFCD Programmes) | 2494.00 | 10.00 |
| (II) | I. D. P. | rogramme | | | |
| | 14. | SLC-14 | Ghed Area Development | 400.00 | 400.00 |
| | | | Grand Total—(I+II) (Soil and Water Conservation) | 2894.00 | 410.00 |

1.6 COMMAND AREA DEVELOPMENT.

1.6.1. Introduction:

- 1.6.1.1. The basic need for Agriculture is water for irrigation. Agriculture is a crucial factor in the economic development of the country. Assured irrigation facilities are of vital importance to agriculture. A large investment made in the major and medium irrigation projects highlighted the need for the optimum utilisation of the irrigation potential. It is very important that integrated area development approach should be adopted to increase utilisation of irrigation water resulting in optimum agricultural production.
- 1.6.1.2. A special area development programme was initiated during the Fifth Plan for an integrated development of the command area of major irrigation projects. Initially the programme was to be shared by two specially constituted Area Development Authories and the Director of Agriculture. Third Area Development Athority is also constituted since January, 1980. The main activities are soil and water coservation, construction of field channels and drains, land levelling and shaping, kyari making, strengthening of cooperative net work to ease the aviability of agricultural inputs, strengthening of extension machinery, training pogramme and development of communicaton and marketing and processing facilities. The vairous activities in the sub-sector are funded from plan as well as non-plan provisions of the State budget and institutional finance.
- 1.6.1.3. Mahi-Kadana, Panam, Hiran, Kharicut and Fatewadi Projects are entrusted to Area Development Authority, Ahmedabad; Ukai, Kakrapar, Karjan and Damanganga projects are entrusted to Area Devement Authority, Surat. While Shetrunji project and certain projects situated in North Gujarat and Saurashtra have been entrusted to the Area Development Authority, Gandhinagar.

1.6.2 Review of progress and programme for 1980-85 Pilot projects for soil and water management.

1.6.2.1. The objectives under the programme are:-

- (i) To study the water losses by seepage and side and deep percolation in earthern and lined field channels.
- (ii) To demonstrate water use and management practices an l also the proper use of irrigation water, fertilizer and improved seeds for multiple cropping for maximisation of agricultural production.
- (iii) To impart training to the farmers in water use management practices and improved method of cultivation, farm technology for getting maximum agricultural production.
- (iv) To study the soil test crop response in block area of Command Area Development Auhtority, Mahi-Kadana.

Area Development Authority Mahi-Kadana A scheme for adoptive trials and Demostraiton-MahiKadana.

1.6.2.2 The Government of India had sanctioned the Pilot Project for a period of 3 years ending 31st March 1977. From 1977-78 it has been continued as follow up Pilot Project for Soil and Wtaer Managaement in Mahi-Kadana Command Area fully financed by State Government. From the year 1981-82 this follow up Pilot Project will be discontinued and a New scheme viz" Adoptive trials and Demonstratons" in Kadana Project will be introduced. For this saheme 50% Central Assistance would be available provided the scheme is approved by Government of India. For approval of this scheme the matter has been taken up with the Government of India. This New Scheme will be implemented in the left bank of the Kadana Project. 2 Blocks will be selected wherein water management activities will be undertaken. During the Sixth Plan a provision of Rs. 5.50 lakhs has been made for the scheme.

Area Development Authority, Shetrunji, Gandhinagar.

Shetrunji:

1.6.2.3. The project for Shetrunji has been completed during first three years *i.e.* from 1976-77 to 1978-79. Introduction of new crops, gypsum treatment and the crop demonstration plots are arranged and extension activities are done under this project. 56 demosrations were undertalen upto 1979-80. 431 demonstrations are targetted for the Sixth Plan.

Aca Development Authority Ukai-Kakrapar:

Ukai-Kakrapar:

1.6.2.4. A project for Ukai-Kakrapar is also sanctioned by Government of India. Due to perenial water, table has come up and it has adversely affected the fertile land reducing its productivity. The areas of Bardoli, Kamarej & Palsana Taluka in command area are adevrsely affected. The programme of field demotration, composite demonstration and construction of rains is undertaken and is in progress. As the neighbouring villages of these talukas are also affected with water logging problems, it has been decided to cover more villages of affected area. For effective drainage programme, the scheme is to be continued. The provision of Rs. 18.80 lakhs is made for small staff for carrying out demostration work for showing extension method to the farmers of CAD project. The details of the provisions are as under;

| | • | (Rs. in lakhs) |
|---------------|---|----------------|
| Mahi-Kadana | | 5. 50 |
| Shetrunji | | 3.00 |
| Ukai-Kakrapar | | 10.30 |
| | | 18.80 |

1.6.2.5. 37 bulldozers and 25 tractors are in operation for land levelling and kyari making work in Ukai-Kakrapar Command area. To moderinise the igricultural engineering section by providing proper workshop facility, uptodate tools, modern machinery, equipments for prompt repairs and sheds for machinery, the amount of 31.80 lakhs is provided for the Sixth Plan.

On Farm Development works:

1.6.2.6. The on farm development works consist of land levelling, field channels, kyari making, field drainge etc.

Area Development Authority Mahi-Kadana:

(1) Mahi-Kadana Project:

1.6.2.7. The culturable command area of the project was originally fixed at 2,73,000 Hectares on right bank canal and 13,000 hectares on left bank canal. The Command area has now been revised as 2,24,235 hectares (2,12,694 hectares on R.B.C. and 11,541 hectares on L.B.C.) land target for land levelling was fixed at 24,972 hectares and levelling work has been undertkaen upto March, 1980 for 24.662 hects. The target for the Sixth Plan is 1800 hecatares.

1.6.2.8. As regards field channel, 1,34,234 hectares have been covered upto March 1980. The target fixed for the Sixth Plan is 40000 hectares.

1.6.2.9. Field drains in the Kadana Project command area are to be constructed in 20,000 hectares. The works depend upon prior construction for main drains and lateral and sub-lateral drains. A master plan has already been snactioned by Government. The target for the Sixth Plan is 20,000 hectares.

1.6.2.10. The details of work done and the programme proposed for the Sixth Plan are given below:—

| Sr. ≌ o | Item | Unit | Achiv. upto March 1980 | for the Sixth Plan |
|-------------------|----------------|-------|---------------------------------|--------------------------|
| | Land levelling | Hect. | 24662 | 1800 |
| ١, | Field channel. | ,, | 134234 | 40,000 |
| j. | Field Drain | ,, | • • | 20,000 |

1.6.2.11. An outlay of Rs. 16.00 lakhs is provided or the Sixth Plan for OFD works under command rea development.

2) Panam Projects.

1.6.2.12. The details of works done and the rogramme proposed for 1980-85 are given below:—
2683—26

| Sr. No. | Item | Unit | Achieve- ment upto March 1980 | |
|------------|---------|-------|--|--------|
| 1 | 2 | 3 | 4 | 5 |
| Field | channel | Hect. | 6 58 | 35,000 |

1.6.2.13 The work has been started and it will gain momentum. This would be centrally sponsored scheme on the line of Kadana Project after 1981-82. An oultay of Rs. 100.00 lakhs has been provided as State share for the Sixtl Fian 1980-85.

(3) Other Projects.

1.6.2.14. Three new projects vtz. Heren, Kharicut and Fatewadi have been entrusted to Area. Development Authority. A provison for each project is kept to the tune of Rs. 14.00 lakhs during the Sixth Plan period. Field channel works in 2500 Hectares in each project will be taken up during the plan period.

Area Development Authority Shetrunji.

(1) Shetrunji Project:

1.6 2.15. On farm Develorment works in this roject consist of construction and remodelling of field channel works in 34800 hectares, land levelling works in 9606 hectares and field drain works in 4046 hectares.

1.6.2.16. The details of works done and the programme proposed for the Sixth Plan are given below:-

| Sr. No | Item | Unit | Project Target | Achieve- ment upto March 1980 | Target for the Sixth Plan |
|------------|-------------------|-------|-------------------|---|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Land levelling | Hect. | 9606 | 4270 | 4,000 |
| 2 . | Field channel | ,, | 34800 | 21539 | 13,261 |
| 3. | Field drains | " | 4046 | 300 | 3,200 |
| 4. | Soil Survey | ,, | 34800 | 19235 | 15,565 |

1.6.2.17. This is a centrally sponsored scheme and as per the revised pattern, the State share amounting to Rs. 53.00 lakes is provided in the Sixth Plan.

(2) Other Projects.

1.6.2.18 It is also proposed to take OFD works in Dharoi, Dantivada and other Major and Medium projects during the Sixth plan. The total outlay of Rs. 395.00 lakhs is provided for 1980-85.

Area Development Authority Ukai-Kakrapar:

(1) Ukai-Kakrapar Project.

1.6.2.19. Land Levelling by field channel circle Surat is being done in Ukai Left Bank cannal, block number 12 to 14 and this being voluntary, work is done to the extent of consent as available. The farmers are expected to carry out the land levelling once they see the water running into canals. The progress of achievements and the targets envisaged for the Sixth Plan are given belwow:—

| Sr. No | _ | Unit | Project traget | Achieve- ment upto March 1980 | Target for the Sixth Plan |
|-----------|---|-------|-------------------|---|---------------------------------------|
| 1. | Land leve- lling and Kyari making | Heot. | 116900 | 21700 | 77400 |
| 2. | Ravine channel | -do- | 468200 | 206400 | 285200 |
| 3. | Field Drain | -do- | 251300 | 57647 | 240700 |
| 4. | Drainage | Kms. | 6321 | 1 554 | 4700 |

(2) Damanganga Projects:

1.6.2.20 The Damanganga Project envisages supply of water to soothern part of the Ukai Kakrapar command. It is expected that the project will start giving water from 80-81 and will supply to 5000 hectares of land in the first year, field cannel and O.F.D. works are to becompleted before the water s released in the fields. Investigations are required to be made for doing the O.F.D. works and field channel work. For earrying out OFD works in this project Rs. 337.75 lakhs are provided in the Sixth Plan with the following targets.

| S.rNo. Item | Unit | Target for the Sixth Plan |
|-------------------|-------|---------------------------------|
| 1. Field channel. | Hect. | 29000 |
| 2. Field Drains | ,, | 11600 |
| 3. Land Levelling | ** | 16650 |

Karjan Project.

1.6.2.21. Similar planning is done for Karjan Project so as to synchronise all the activities and get the proper benefits. This scheme will start bearing fruits from 1983-84 only *i. e.*, from the 4th year of Sixth Five Year Plan. The programme proposed for the Sixth Plan is as under:—

| Sr. No. | Item | Unit. | Targets for the Sixth Plan. | |
|------------|----------------|-------|-----------------------------------|--|
| 1. | Field channel | Hect. | 8800 | |
| 2. | Field Drain | ** | 2640 | |
| 3. | Land Levelling | " | 3960 | |

Pilot Project for Reclamation of khar Land in Surat and Valsad Districs.

1.6.2.22. The Pilot Project for the reclamation of saline coastal land of 1760 hectares to increase agricultural production at the cost of Rs. 82 lakhs was taken up in 1972. The scheme envisages construction of protective earthern dams, reclamation of land by construction of internal drains, field channels, land levelling etc.

1.6.2.23. With the introduction of Modernisation Programme in Kakrapar Command the reclamation of Coastal land is to be carried out by the Superintending Engineer, Modernisation circle. The modernisation programme of Kakrapar command has been posed to the World Bank for I. D. A. credit assistance, and accordingly with the assistance of World Bank, the reclamation of coastal land will be carried out by Modernisation Circle, Surat. An outlay of Rs. 40.45 lakhs is provided for the Sixth Plan.

Ayacut Development Programme.

1.6.2.24. The Ayacut Development Programme was taken up in 27 villages near Kim in Ukai-Kakrapar command area development. The results have been encouraging. It has, therefore, been extended in 43 villages covering 8 villages from $20 \, \, \text{from}$ Hansot Taluka Taluka, and 15 from Mangrol Taluka. It is proposed to continue the scheme on existing basis during Sixth Five Year Plan with a view to demonstrate proper method of irrigated agriculture. 45 to 50 demonstrations of various agriculture practices are carried implemented out yearly. This programme is by Command Area Development Authority, Ukai Kakrapar. An outlay of Rs. 3.00 lakhs is provided for the Sixth Plan.

1.6.2.25. On the basis of ayacut development programme in Strat District, Government have sanctioned ayacut development scheme for the two districts in Rajkot and Stbarkantha to educate the farmers in irrigation farming for maximum utilisation of irrigation water. 90 demonstrations are proposed to be carried out yearly. This programme is implemented by the Director of Agriculture. An outlay of Rs. 11.30 lakhs is provided for the Sixth Plan.

Implements: Workshop at Navsari.

1.6.2.26. To train village farmers for the use and repairing of improved agricultural appliances and machineries, the cultivators are paid Rs. 150 per month as stipend under this scheme. In addition to this the repairing works of departmental trucks, jeeps, bulldozers and replacement of spare parts etc. are carried out in the workshop. Use of improved implements is necessary for effective water management. An outlay of Rs. 20.00 lakhs is provided for the Sixth Plan.

World Bank aided Scheme:

Command Area Development Authority Mahi Kadana:

Nater management activities in Panam Project :

- 1.6.2.27. As per the proposal contained in he Aid-memoire of Dr. Shanan, World Bank consultant, of May 14,1980 it has been decided o implement the programme of undertaking fater management activities pilot programme ith an outlay of Rs. 34.00 lakhs during the ixth Plan for the following activities:—
 - (1) To evaluate present design standards;
 - (2) To introduce a methodology for preparing seasonal and water allocations and for operating the net work according to determined schedules;
 - (3) To adopt scheduled deliveries to changing cropping patterns;
 - (4) To roster combined planning by agricultural engineering staff;
 - (5) To establish demonstration farms where farmers can observe efficient field irrigation;
 - (6) To train staff in adopting advanced methodology and operational procedure for other irrigation projects.

Training in Water Management

1.6.2.28. In order to build up a professional cadre of water management, a training programme in water management and land development for irrigated agriculture has been agreed to be financed by the World Bank. The expenditure involved period of five years is Rs. 3. The centre is to be located in the Mahi Kadana Command area which offer a good training ground for personnel involved in irrigation management. The centre will be established at Anand. The Programme of training varies from 6 to 9 months for new recruits, refresher course for those who are already serving the command areas such as Deputy engineers, sub-divisional Soil Conservation Officers and for the officers of the level of Executive Engineers and Deputy Director of Agriculture serving as Divisional Soil Conservation Officers. It is proposed to conduct one week workshop as well as three weeks refresher course. An outlay of Rs. 11.00 lakhs has been provided for the Sixth Plan, 1980-85.

Rotational System of Irrigation (Warabandhi) in Mahi Kadana Command Area.

- 1.6.2.29. The World Bank has agreed to finance the introduction of rotational water supply (Warabandhi) in the irrigation projects of Gujarat. The total area to be covered is 60,000 hects. out of which 30,000 hectares will be in Mahi-Kadana Command area.
- 1.6.2.30. Before the agreement was signed in April, 1980, 2000 hectares were already covered in Mahi-Kadana command area in the right bank as an experimental measure during 1978-79 Rabi season as well as 1979-80 Rabi season.
- 1.6.2.31. It is proposed to introduce warabandhi in an additional area of 9000 hect. in Kadana Project and the provision has been kept to the tune of Rs. 55.00 lakhs in the Sixth Plan.
- 1.6.2.32. As estimated expenditure for 60,000 hectares is Rs. two crores the approximate expenditure per hectare would be Rs. 333. The expenditureuse would be with regard to upgrading the distribution system by construction of cross regulators, installation of measuring devices and improvement of field channels and related control structures.

Introduction of Warabandhi system in Ukai-Kakrapar Command area:—

1.6.2.33. It is proposed to introduce warabandhi in selected areas of Ukai Kakrapar project The area proposed to be covered in Kakrapar is 8222 hectares and in Ukai 1200 hectares totalling to 9422 hectares in 1980--81. The work of upgrading the canals to the required

extent is also necessary so as to give water at F. S. I. in the entire system in one week/two weeks rotation period. It is proposed to incur the expenditure on establishment under plan. 50% central assistance is admissible under the scheme. The area under warabandhi is likely to be increased in the ensuing years. It is proposed to cover 50,000 hectares of area under warabandhi during the Sixth Plan period for which a provision of Rs. 46.50 lakhs is provided during the Sixth Five Year Plan.

Establishment of trial-cum-demonstration farms in Ukai-Damanganga Projects.

1.6.2.34. It is proposed to start four trial-cumdemonstration farms in command area of Ukai, Damanganga and Karjan project during the Sixth Plan. These T. C. D. farms are proposed on the lines of existing pattern of T. C. D. farm under Kakrapar project. It is proposed to procure 120 hectares of land for four T. C. D. farms. For construction of office building, laboratory building, staff quarters, purchase of agricultural equipments and for purchase of land etc., the provision of Rs. 53.60 lakh is made in the Sixth Five Year Plan. 50% central assistance is available and as such only state share is provided in the State Plan.

Strengthening of T. C. D. Farms.

1.6.2.35. There are sixteen T. C. D. Farms in the State. Most of them are situated in the command area of irrigation projects to carry out the trials and demonstrations of the research findings undertaken by the Gujarat Agricultural University. It is essential to conduct the trials of the findings by a well experienced and responsible manager and to demonstrate the same to the farmers of the area. A provision of Rs. 6.70 lakhs has been made during the Sixth Plan.

Establishment of New T. C. D. Farms in irrigation project.

1.6.2.36. The new medium irrigation projects are sanctioned. The construction of dams, canal system are initiated and in some of the projects irrigation potential is also created. The Narmada project is also initiated. It is necessary to establish trial-cum-demonstration farms in the command area of the projects well in advance according to

the climatic and soil conditions so as to find out the suitable crop pattern, water requirement methods of irrigation etc. for maximim utilisation of available water for sustained production. While proposing the T. C. D. Farms in different irrigation projects, the existing T. C. D. Farm and climatic soil conditions etc., of all the irrigation projects were considered. An amount of Rs. 89.40 lakhs has been proposed during the Sixth Plan period, of which Rs. 69.40 lakh has been provided for capital works.

Subsidy to Small and Marginal farmers:

1.6.2.37. This is a new scheme to be introduced during the Sixth Plan period. The State Government has decided to give subsidy to the small farmers upto 25 % of the expenditure incurred. The subsidy is 33% of the expenditure for marginal farmers. The Central Government has now suggested subsidy of 15 % of the expenditure to medium farmers. The expenditure on subsidy is shared with the Central Government in equal proportion. Presently, the entire expenditure is borne initially by the State Government. The benefit of subsidy is given at the time of recovery. An outlay of Rs. 80 lakhs is provided for subsidy for Sixth Five Year Plan. Under this scheme 1,20,000 farmers are likely to be benefitted during the plan period.

Special Loan Account for ineligible farmers:--

1.6.2.38. \mathbf{The} O. F. D. works at present financed by the State Government. are being Attempts are being made to avail of institutional finance. This is likely to materialise within a couple of years. There would be certain category of farmers who would, however, not be willing to obtain loan from bank for O. F. D. works or wouldnot be eligible for bank loans for a number of reasons such as title to land may not be clear, past default etc. A special loan fund account is, therefore, proposed to be opened and operated giving loan for O. F. D. to farmers. The Special Loan Fund Account would be, subscribed to by both the Central Government and the A. R. D. C. The outlay proposed for this purpose is Rs. 100.00 lakhs and it is expected that about 1170 farmers will be benefitted during the Sixth Plan Period.

STATEMENT

COMMAND AREA DEVELOPMENT

List of schemes included in the Sixth Five Year Plan 1939--85

(Rs. in lakhs)

| Sr. No. | | No. and Name of the scheme | Sixth Five Year outlay | r Plan 1980-85 |
|------------|--------|---|---------------------------|----------------|
| | | | Total | Capital |
| 1 | | 2 | 3 | 4 |
| 1. | CAD-1 | Establishment of Area Development Authority for Mahi-Kadana, Ahmedabad | 20.00 | |
| 2. | CAD-2 | Agricultural Support Programme for Kadana Project (J.D.A.'s Office). | 12.50 | |
| 3. | CAD-3 | Pilot Project for Soil and Water Management in Kadana Project. | 5.50 | _ |
| 4. | CAD-4 | On Farm Development Works in Area Development Authority of Mahi Kadana, Ahmedabad. | | |
| | | (1) Kadana Project. | 16.00 | |
| | | (2) Panam Project. | 100.00 | |
| | | (3) Kharicut Project. | 14.00 | -10 • |
| | | (4) Fatewadi Project. | 14.00 | |
| | | (5) Heran Project. | 14.00 | |
| 5. | CAD-5 | Training centre for Land Development and Water Management in Mahi Kadana Authority. | 11.00 | |
| 6. | CAD-6 | Water Management Area in Panam Project. | 34.00 | •• |
| 7. | CAD-7 | Warabandhi in Mahi Kadana Project. | 55.00 | •• |
| 8. | CAD-8 | Establishment of Area Development Authority for Saurashtra and North Gujarat Region, Gandhinagar. | 17.00 | •• |
| 9. | CAD-9 | Agricultural Support Programme for Shetrunji Project. | 11.00 | • • |
| 10. | CAD-10 | Pilot Project for Soil and Water Management in Shetrunji Project. | 3,00 | •• |
| 11. | CAD-11 | Establishment of Joint Director's Office at Gandhinagar. | 9.00 | |
| 12. | CAD-12 | On Farm Development Works in Saurashtra and North Gujarat region Area Development Authority, Gandhinagar. | | |
| • | | (1) Shetrunji Project. | 53.00 | •• |
| | | (2) Dharoi Project. | 140.00 | •• |
| | | (3) Dantiwada Project. | 64.50 | •• |
| | | (4) Hathmati Project. | 21.00 | •• |
| | | (5) Meshwo Project. | 20.50 | •• |
| | | (6) Bhadar Project. | 3.00 | •• |
| | | (7) Machhundri Project. | 18.00 | •• |
| | | (8) Sukhbhadar Project. | 18.50 | |
| | | (9) Kalubhar Protect. | 17.50 | •• |
| | | (10) Khodiar Project | 25.50 | •• |
| | | (11) VenuII Project. | 18.00 | •• |
| | | (12) MachhuI Project. | 7.50 | •• |
| | | (13) Sipu Project. | 11.00 | •• |
| | | (14) Watrak Project. | 30.00 | • • |

| 1 | | 2 | 3 | |
|------|---------|--|---------|------------------------|
| 13. | CAD-13 | Establishment of Area Development Authority Ukai Kakrapar Surat. | 23.50 | |
| 14. | CAD-14 | Opening of regional Soil and Water Management Pilot Project at Bardoli. | 10.30 | •• |
| 15. | CAD-15 | Pilot Project for reclamation of Khar Land in Surat and Valsad Districts. | 40.45 | 19.00 |
| 16. | CAD-16 | Ayacut Development Programme in Surat District. | 3.00 | |
| 17. | CAD-17 | Bunglow for Area Development Commissioner, Surat. | 0.70 | 0.70 |
| 18. | CAD-18 | Staff quarters for Area Development Commissioner, Surat. | 7.00 | 7.00 |
| 19. | CAD-19 | Office Building for the Office of Area Development Commissioner and Joint Director of Agroulture, Surat. | 14.30 | 14.30 |
| 20. | CAD-20 | Establishment of workshop at Navsari. | 20.00 | 2.70 |
| 21. | CAD-21 | Operational Staff for Bulldoser for carrying out Soil conservation works in Ukai Kakrapar Command Area. | 31.80 | 17.30 |
| 22. | CAD-22 | Establishment of T.C.D. Farm in Ukai-Daman Ganga Project. | 53.60 | 15.00 |
| 23. | CAD-23 | Introduction of Warabandhi in Ukai-Kakrapar command area. | 46.50 | •• |
| 24. | CAD-24 | On Farm Development works in Area Development Authority of Ukai Kakrapar, Surat. | | |
| | | (i) Ukai-Kakrapar Project. | 130.00 | •• |
| | | (ii) Karjan Project. | 54.10 | 5.20 |
| -0.0 | | (iii) Daman Ganga Project. | 337.75 | 180.75 |
| 25. | CAD-25 | Strengthening of TCD Farms. | 6.70 | •• |
| 26. | CAD-26 | Construction of Residential Buildings and Shed and Works in progress. | 20.05 | 20.05 |
| 27. | CAD-27 | Popularisation of improved Agril. implements. | 4.30 | •• |
| 28. | CAD-28. | Ayagut Development Programme in Irrigation Projects of seven districts of the State. | 11.30 | |
| 29. | CAD-29 | Irrigation Demonstration in the medium irrigation projects. | 8.25 | • • • |
| 30. | CAD-30 | Establishment of new T. C. D. Farms in Irrigation Projects. | 89.40 | 69.40 |
| 81. | CAD-31 | Subsidy to small and marginal farmers. | 80.00 | •• |
| 32. | CAD-32 | Special loan account for ineligible farmers. | 100.00 | 100.00 |
| | | | 1877.00 | 4 51. 40 |

1.7 ANIMAL HUSBANDRY

1.7.1. Introduction:

1.7.1.1. Animal Husbandry plays a very important role in the agricultural economy of the State. Cattle and buffaloes are the main source of drought power in the agricultural operations and rural transportation. They provide essential foods of animal origin like milk and meat. Large quantities of animal bye products are also provided by these animals. For many years to come, bullock and buffaloe will continue to be the main stay of agricultural opera-tions, particularly for small and marginal farmers. Even in future, despite the impact of modernisation, a large portion of motive power of rural transporta-tion will be bullock-based. As cattle and buffaloe raising involves intensive use of labour usually on the part of the members of a family more than any other enterprise, it offers very significant employment and income opportunities to the small and marginal farmers and agricultural labourers. A very large portion of female labour force finds scope for fuller employment in several operations connected with cattle and buffaloe rearing.

1.7.1.2. Gujarat is endowed with very good livestock wealt's. The livestock population as per 1972 and 1977 census is as under :-

(Figures in '000) Sr. No. 1972 1977 Census Category Census (Provisional) 1695 1 Cows above 3 years 1811 2 Buffaloes above 3 years. 2121 2047 3 Sheep and Goats 4931 4658 4 Total Livestock 15088 14374 5 Poultry 2736 3377

The important breeds of cattle are Gir and Kankrej which are duel purpose breeds. Amongst buffaloes, Surti, Mehsani and Jafrabadi are inportant milch breeds. The average milk yield per day per cow was 2.12 litres and for buffaloe, it was 3.36 litres as estimated from survey data during 1977-78. The total milk production during 1977-78 was estimated to be 20.25 lakh tonnes. The important breeds of sheep in the State are Patanwadi and Marwadi. Patanwadi sheep produces medium to fine variety of wool, whereas Marwadi sheep produces coarse grade wool suitable for carpet manufacture. The annual production of wool was estimated to be 18.19 lakh kgs. during 1977-78. The annual egg production was of the order of 198 millions by the end of 1977-78.

1.7.1.3 Having regard to the need for increasing the contribution of Animal Husbandry coupled with Dairying to the national income and also keeping in view the increasing shift in demand from cereal to livestock products, particularly from nutrition point of view and above all, in light of unquestionable utility of this sector in improving the economy of the small farmers and agricultural labourers, considerable stress is required to be laid on fullfilling developmental needs.

1.7.2. Review of Progress:

1.7.2.1 At the commencement of the Fifth Plan, there were 211 veterinty hospitals/dispensaries, 6 intensive cattle development blocks, 5 cattle breeding farms, 70 sheep extension centres, 2 sheep breeding and marketing centres, 9 poultry breeding farms (expansion) and 3 intensive poultry development projects.

1.7.2.2 During the Fifth Plan and thereafter the main thrust under the cattle development programme was on cross-breeding of local non descript cows with high yielding exotic bull semen of Holstein. Friesian and Jersev breeds for enhancement of milk production. To give impetus to this programme. one LN2 plant has been installed at Rajkot. Action for installation of one more LN2 plant in South Gujarat was initiated during 1979-80. Till the end of the year 1979-80, 83906 artificial inseminations were performed under this programme. Six units cross-breeding programme $_{
m in}$ non-ICDP areas in the districts of Valsad, Bharuch, Vadodara, Sabarkantha, Ahmedabad and Kachchh have been established.

1.7.2.3 The incomplete intensive cattle development blocks of the districts of Ahmedabad, Sabarkantha and Surat were expanded to make them full-fledged blocks. In addition, two new blocks were also established in the districts of Junagadh and Banaskantha with 40 livestock sub-centres each. There are 605 sub-centres functioning in the State under I.C.D. Blocks. Four cattle breeding farms were taken up under expansion programme for providing additional facilities, such as land development, purchase of cows, construction of farm bulidings, equipments, machineries etc.

1.7.2.4 Under the integrated gaushala development programme, 63 gaushalas have been assisted to take up scientific cattle breeding activities. Action for establishment of a buffaloe bull mother farm near Gandhinagar has been initiated. Under special development programme, rearing of 558 cross breed heifers has been subsidised till 1979-80. Under the Tribal Area Sub-Plan, 11176 milch animals were supplied at 50 percent subsidised rate to the Adivasis for supplementing their source of income till the end of 1979-80.

1.7.2.5. Under the poultry development programme, during the Fifth Plan1974-78, 6 new intensive poultry development projects were established at Valsad Vyara (Surat), Dohad (Panchmahals), Vadodara, Valia (Bharuch) and Himatnagar (Sabarkantha). In addition, 4 district poultry extension centres in the districts of Dangs, Banaskantha, Kachehh and were also established to promote Bhaynagar poultry production till 1979-80. National coordinated poultry breeding programme has been undertaken at Makarba (Ahmedabad) as per the technical programme advocated by the Central Government for evolving high laying strains of chicks and the same is being continued. Under the special development programme, 9185 poultry units, each of 50 birds have been established to assist the small and margiagricultural labourers till the nal farmers and end of 1979-80.

1.7.2.6. For providing residential facilities to poultry trainees, construction of hostel buildings at Makarba (Ahmedabad), Junagadh, Surat, Chanvai (Valsad), Dohad (Panchmahals) and Himatnagar (Sabarkantha) have been undertaken. Another significant development in poultry production programme is the establishment of Gujarat State Cooperative Poultry Farmer's Federation Ltd. during the year 1978-79 for providing better marketing of eggs and poultry.

1.7.2.7 Under the sheep and wool development programme, two intensive sheep development blocks were established at Bhuj (Kachchh) and Bhavnagar for the augmentation of wool production both qualitatively and quantitatively. Similarly, 2 district sheep and wool extension units have been established in the districts of Banaskantha and Jamnagar with 8 extension centres each. The existing district extension unit at Rajkot has been expanded by adding 2 more extension centres. Thus, there are 88 sheep extencentres functioning in the State. Under the special development programme, assistance was given for the establishment of 984 sheep units till the end of 1979-80. Gujarat Sheep and Wool Development Corporation has been provided the share capital contribution to undertake its activities.

1.7.2.8. Under the veterinary services and animal health programme, during the Fifth Plan, 15 veterinary dispensaries were modernised. 5 first aid veterinary centres and 10 veterinary mobile units were established. By the end of 1979-80, 5 more dispensaries were modernised, 3 first aid veterinary centres and 3 mobile units were also established. The expansion of Biological Pruduct Station (Animal Vaccine Institute) at Gandhinagar has also been undertaken. The institute has started manufacturing H. S. (A.P.) vaccine. By now, the institute has produced 5 lakh doses of vaccine (till 1979-80). Experimental productions of B.Q. and E.T. vaccines have also been undertaken. Under disease control programme, 2 epidemiology units-one for foot and mouth disease and another for other diseases are

functioning in the State. Under the foot and mouth disease control programme about 1.52 lakh doses of vaccine were utilised till 1979-80. Under the scheme for training of departmental personnel, the department has already deputed 8 officers for M.V.Sc. and 2 officers for post-graduate diploma training.

1.7.2.9. The programme of expansion of horse breeding farm at Junagadh and camel breeding farm at Dhori (Kachchh) has also been undertaken. Under rabari bharwad rehabilitation scheme, 35 multi-purpose socities and 22 vasahat societies have been assisted by the end of 1979-80. Integrated fodder develoment programme has been undertaken from 1977 under which assistance is provided for 1911 demonstration plots, 46 chaff cutters, 39 silopits etc., till the end of 1979-80. Under the fodder development programme, 494 gauchar plots under panchayats have been taken for gaucher development. Similarly, in 1100 acres, grassland improvement work has been undertaken in Banni area of Kachchh district. The grass production farm alongwith the buffaloe bull mother farm near Gandhinagar is also proposed to be continued.

1.7.3. Strategy of Development

are: (1) To improve the productive potential of livestock and poultry, weed out inferior and uneconomic and surplus animals and arrange for provision of feeds and fodder for the productive stock. Improved animal husbandry practices and better health cover form important component of the strategy. The policy is to adopt scientific methods of cross breeding of cattle to provide adequate feeds and fodder and animal health cover and to improve managament practices. (2) Large scale cross-breeding programme by using exotic breeds of sheep is also undertaken for repid increase in quality wool production. (3) The policy in poultry development is to attain self sufficiency in production of quality chicks and to augment production of eggs and poultry meat, (4) In the field of animal health, the strategy is to develop an effective service and to keep live stock free from hazards of animal diseases for ensuring optimum production.

1.7.4 Programme for the Sixth Plan 1980-85.

1.7.4.1. Consistent with the strategy referred to above the broad programme contents of the Sixth, Five Year Plan, 1980-85 would be:—

- (1) An overall scientific development of cattle and buffeloe for increased production of milk from 22.00 lakh tonnes at the end of 1979-80 to 26.40 lakh tonnes by the end of 1984-85.
- (2) Increasing wool production from 18.34 lakh kgs.in 1979-80 to 21.00 lakh kgs. till the end of 1984-85.

- (3) Increasing egg production from 240 millions in 1979-80 to 360 millions till the end of 1984-85.
- (4) Development of horses and camels by providing necessary service centres and;
- (5) Strengthening of veterinary services and disease control programme.
- 1.7.4.2. An outlay of Rs. 1770 lakhs is proposed for the Sixth Five Year Plan 1980-85. The bulk of the outlay is provided for the programmes of cattle development, poultry development, sheep and wool development and veterinary services and animal health programmes. The programmewise details are as under.

(Rs. in lakhs.)

| Sr. No. | \mathbf{P} rogramme | 1980–85 Proposed Outlay |
|------------|--|-------------------------------|
| 1 | 2 | 3 |
| 1 | Direction and Administration. | 70.00 |
| 2 | Veterinary Education and Research | 12.00 |
| 3 | Veterinary Services and Animal Health. | 271.00 |
| 4 | Investigations and Statistics. | 18.00 |
| 5 | Cattle Development. | 6 63.00 |
| 6 | Poultry Development. | 431.00 |
| 7. | Sheep & Wool Development. | 214.00 |
| 8 | Other Livestock Development | 41.00 |
| 3 | Feeds and Fodder Development. | 50 .00 |
| | Grand total | 1770.00 |
| | | |

Direction and Administration

H-2683-28

1.7.4.3. The objective of this programme is to strengthen the organisation of the Department to cope up with the increased work-load for batter administration and monitoring of the departmental activities at vatious levels. It is proposed to strengthen the planning cell, marketing cell and poultry branch of this Department by providing additional staff. It is also envisaged to strengthen the Offices of the District Animal Husbandry Officers by providing additional staff and other facilities.

The Government have also accorded sanction for the construction of office building 'Pashupalan Bhavan' at Ahmedabad. An outlay of Rs. 70 lakhs is proposed for the Sixth Plan 1980-85.

Veterinary Education and Research

1.7.4.4. Looking to the development and advancement in the field of veterinary and dairy sciences, it is necessary to train veterinary/dairy science graduates in various specialised fields in order to equip them with the advance knowledge. It is proposed to provide post-graduate diploma-training, M.V.Sc. degree and Ph.D. degree to 15, 25 and 2 Officers respectively and training abroad to 2 Officers during the the plan period 1980-85. An outlay of Rs. 12 lakhs is proposed for the Sixth Plan 1980-85.

Veterinary Services and Animal Health

1.7.4.5 Adequate health cover measures are to be ensured to improve the production of livestock. During the Sixth Plan, it is envisaged to strengthen the veterinary services by opening 9 veterinery discensaries and 80 first aid veterinary centres (including 40 under T.A.S.P.), 9 mobile veterinary units, 2 poly-clinics and 1 State Level Disease Investigation Laboratory at Gandhinagar. In addition, it is also envisaged to establish 8 health control units in tribal areas for providing useful diagnosis, treatment and guidance to the cattle owners. During the Sixth Plan, the Animal Vaccine Institute manufacturing of important envisages like H.S., B.Q., enterotoaxemia, Ranikhet disease, antirabic, fowl pox vaccines etc., in a phased manner. It is proposed to construct the building of Tissue Culture Laboratory. Under the disease control programme of foot and mouth diseases, it is about 2.00 lakh doses of proposed to purchase vaccine for protection of valuable animals during 1980-85. An outlay of Rs. 271 lakhs is proposed for the Sixth Plan 1980-85.

Investigation and Statistics

1.7.4.6 The State Government has undertaken the work of intergrated survey of livestock and livestock products on yearly basis. Further, as per recommendations of the All India Workshop on Animal Husbandry and Dairying Statistics, it is necessary to undertake the schemes for the estimation of structure and indices of cost of production of livestock products, feeds and fodder and monitoring and assessment of livestick development programme. An outlay of Rs. 18 lakhs is proposed for the Sixth Plan 1980-85.

Cattle Development

1.7.4.7 During the Sixth Plan 1980-85, it is envisaged to perform about 4.00 lakh artificial inseminations under cross breeding programme. A frozen semen bank is also proposed to be established at Rajkot.

The State has established 8 intensive cattle development projects (ICDP) for enhancement of milk production by coordinating all the related aspects of breeding, feeding, management, dairy extension, marketing etc., in the milk shed areas. Out of these 8 projects, 4 projects at Kheda, Ahmedabad, Sabarkantha and Mahesana are full-fledged projects. The remaining 4 projects at Vadodara-Bharuch, Rajkot, Banaskantha, and Junagadh are still incomplete During the Sixth Plan, it is envisaged to complete these 4 projects. It is envisaged to establish a new I.C.D. project covering Amreli-Bhavanagar districts. Is also envisaged to establish 15 livestock prodution centres for providing necessary extension services under the Tribal Area Sub-Plan during Sixth Plan 1980-85. The State had four cattle breeding farms at Morvi, (now being shifted to Bhutwad in Dhoraji taluka of Rajkot district,) Bhuj, Thara and Mandvi. The farm at Morvi is for Gir cattle whereas the farm at Mandvi (Surat) is for cross-breed animals. On an average, each farm maintains about 75 adult animal units. In order to take up progeny testing work, it is envisaged to increase the number of adult animals to 200 each so as to have tangible results.

1.7.4.8. In Gujarat, there are quite a good number of cattle breeding institutions/gaushalas which are engaged in cattle development work. The Government have introduced a new scheme of providing assistance to the institutions known as "Integrated Gaushala Development Programme". During the Sixth Plan, it is proposed to extend the benefit of this scheme to about 36 institutions. The scheme for supply of milch animals is being implemented through the Gujarat Tribal Development Corporation under the Differential Rate of Interest scheme. The beneficiaries are provided 50% subsidy for purchase of milch animals. During the Sixth Plan 1980-85, it is envisaged to assist the tribals for purchase of 19,500 milch animals. Similar scheme has also been introduced for the benefit of the scheduled caste members of the society and it is envisaged to assist the beneficiaries for purchase of 3333 milch animals during 1980-85. The scheme is proposed to be implemented through the Gujarat Scheduled Castes Economic Development Corporation. Necessary credit facilities will be made available by the Corporation to the beneficiaries. Under the scheme, it is also envisaged to assist the scheduled castes for construction of cattle sheds and purchase of fodder for their animals. Similarly other backward class members of the society as declared under 'Baxi Panch Award' are also proposed to be assisted for purchase of 560 milch animals during 1980-85.

1.7.4.9. A centrally sponsored scheme to assist SF/MF/ALS for rearing of crossebred heifers is proposed to be continued during the Sixth Plan. It is envisaged to assist rearing of 3700 cross-breed heifers during 1980-85.

1.7.4.10. There are good number of ashramshalas in the adivasi areas who are maintaining small dairy units. It is envisaged to assist such 6 ashramshalas for establishing/providing cattle breeding cum dairy farming units (demonstration units) in the adivasi areas. About 575 tribal beneficiaries are proposed to be provided short term training with animal husbandry practices during the Sixth Plan period.

1.7.4.11. An outlay of Rs. 633 lakhs is proposed under this programme for the Sixth Plan 1980-85.

Poultry Development

1.7.4.12. Main thrust under this development programme is on strengthening the infrastructural facilities and providing assistance to the weaker sections of the society for augmentation of eggs and poultry production in the State. There are 9 Intensive poultry development blocks (I.P.D.B.) in the State. During the Sixth Five Year Plan, it is proposed to establish 3 more blocks in the districts of Kheda, Mahesana and Rajkot. As the poultry production programme is to be launched on a very big scale in the coming years, it is proposed to strengthen the existing I.P.D.Bs. and district poultry extension centres by establishing 135 poultry service centres during 1980-85.

1.7.4.13. During the plan period 1980-85, it is envisaged to assist 4,000 beneficiaries for establishment of 8000 poultry units under special develop-ment programme. It will be ensured that at least 7% of the benefit will flow to the Scheduled Caste people. Similarly under the Tribal Area Sub-Plan, it is envisaged to assist 4025 beneficiaries for establishment of 8050 poultry units during 1980-85. Under this production programme other weaker sections are also proposed to be assisted for establishment of 600 poultry units. Thus, under this poultry production programme, in all, 8625 beneficiaries are proposed to be assisted for the establishment of 16650 poultry units. Under the poultry production programme credit facilities necessary will be made available to the beneficiaries of the weaker sections. It is proposed to train about 10,000 poultry farmers during the Sixth Plan and necessary stipend to the trainees will be provided during the period of training. The State has also established a State Poultry Farmers' Co-operative Federation Ltd. for better marketing of eggs and poultry. The activities of the Federation will be expanded during the Sixth Plan period by linking the poultry farmers' cooperative societies organised during the Plan period.

1.7.4.14 An outlay of Rs. 431 lakhs is proposed under this programme for the Sixth Plan 1980-85.

Sheep and Wool Development

1.7.4.15 There is sizeable sheep population in Gujarat. 88 Sheep extension centres and two intensive sheep development blocks have been established in the State for providing nesessary extension serviced to the shepherds. It is envisaged to establish two more I. S. D. Blocks in the districts of Rajkot and Banaskautha and two more sheep extension units having 14 sub-centers in the districts of Rajkot and Mahesana-Sabarkantha (composite). Four service centres for migratory sheep flocks are also proposed to be established during the plan period 1980-85 at Aliabet (Bharuch), Modasa (Sabarkantha), Viramgam (Ahmedabad) and Chotila (Surendranagar)

1.7.4.16 The scheme of cross-breeding of local Patanwadi sheep breeds with Russian Merino rams is to be continued. For this purpose, establishment of one more large scale sheep breeding farm in Bhavnagar district and establishment of 12 centres for crossbreeding are proposed in the districts of Kachchh, Bhavanagar and Jamnagar during the Sixth Plan period. It is proposed to establish one wool grading centre at Mahuva (Bhavnagar) or Deesa (Banaskantha) for marketing of wool during the plan period. Under special development programme (centrally sponsored scheme), it is proposed to assist the beneficiaries of the weaker sections for establisment of 3800 sheep units during 1980-85 Plan. Necessary credit facilities will be provided to the beneficiaries from the institutions through financial respective implementing agencies. It is proposed to expand wool analysis laboratory established at Morvi to enable to analyse 8000 wool samples during Sixth Plan 1980-85. the Necessary share capital contribution is also proposed to be provided to Gujarat Sheep and Wool Development Corporation for undertaking its activities. It is also proposed to establish one goat breeding farm with a view to increase the production level of milk in the indigenous breeds by infusing exotic blood from dairy breeds of goats.

1.7.4.17 An outlay of Rs. 214 lakhs is proposed under this programme for the Sixth Plan 1980-85.

Other Livestock Development

1.7.4.18 It is proposed to locate 4 horse breeding contres and 4 camel breeding centres for providing latural services. It is also proposed to establish one more horse breeding farm during the Sixth Plan. The programme of modernisation of slaughter houses at Ahmedabad, Vadodara and Surat is also proposed with a view to provide wholesome and hygenic meat or public consumption. It is also proposed to assist the Maldharies (Gopalaks) for the organisation of 13 multipurpose societies, 12 vasahats and 2 taluka gopalak sanghs during the Sixth Plan. In outlay of Rs. 41 lakhs is Proposed for the other

livestock development programmes for 1980-85 Sixth Paln.

Fodder and Feed Development

1.7.4.19. It is proposed to take up the integrated fodder development programme comprising of 18200 demonstation plots, 123 silo pits, 696 chaff cutters and seed multiplication work in 500 hectares during 1980-85 Plan. It is also envisaged to take up grass land development in 1150 hectares of land; possession of gaushalas and such other institutions during the plan period. Establishment of three village fodder development farms is also envisaged during the plan period 1980-85. An outlay of Rs. 50 lakhs is proposed under this programme for the Sixth Plan 1980-85.

1.7.5 Centrally Sponsored Schemes

1.7.5.1. The following four centrally sponsored schemes and one I.C.A.R. scheme are proposed to be continued during the Sixth Plan period 1980-85.

- 1. Assistance to SF/MF/ALS for poultry/sheep and pig production programme.
- 2. Assistance to small farmers for cross-breed heifers.
 - 3. Rinderpest Eradication.

Item

Sr. No.

- (a) Establishment of vigilance unit.
- (b) Rinderpest surveillance and containment vaccination programme.
- 4. Disease control programme for foot and mouth disease and;
- 5. I.C.A.R. Scheme: All India Coordinated Research Project for Study of Foot and Mouth Disease.
- 1.7.6.1 There is a good scope for increased employment generation under the Animal Husbandry. grogramme. It has been estimated that the animal husbandry programmes will generate employment for about 1996 persons during the Plan period. In addition, it is also estimated that there will be indirect employment as a result of $_{
 m the}$ following beneficiary oriented programmes.

1980-85

| | | No. (ben | of efici ar ies) |
|----------|--|-------------|----------------------------|
| 1 | Assistance for rearing of cross-breed heifers. | 1 | 3530 |
| 2 | Supply of milch animals. | | 23 3 90 |
| 3 | Establishment of poultry units. | | 8650 |
| 4 | Establishment of sheep units. | | 3700 |
| | | | 39 233 |
| | | | and the second second |

1.7.6.2 Thus, animal husbandry programme will benefit substantially a large number of weaker people in the economic activities during the plan period 1980-85.

STATEMENT

ANIMAL HUSBANDRY

List of schemes included in the Sixth Five Year Plan 1980-85.

(Rs. in lakhs).

| | | . m lakns). |
|--|----------------------|-------------|
| Sr. No. No. and Name of the Scheme | Sixth Plan 1980-85 | Outlays. |
| | Total | Capital |
| 1 2 | 3 | 4 |
| I. Direction and Administration | | |
| 1. ANH-1. Expansion of Directorate of Animal Husbandry. | 70.00 | 45.00 |
| Total. I | 70.00 | 45.00 |
| Total:I. H. Veterinary Education and Training | 10.00 | |
| | 12.00 | |
| 2. ANH-2. Development of Departmental Personnel. | 12.00 | |
| Total:—II. | 12.00 | |
| III. Veterinary Services and Animal Health | | |
| 3. ANH-3. Improvement of Veterinary Aid. | 176.00 | 65.00 |
| 4. ANH-4. Disease Control Programme. | 50.0 0 | 4.21 |
| 5. ANH-5. Strengthening of Biological Products Station. | 45.00 | 10.60 |
| Total :—III | 271.00 | 79.21 |
| IV. Investigation and statistics | | 13 |
| 6. ANH-6. Strengthening of Statistical Wing. | 15.60 | |
| 7. ANH-7. Estimation of Structure and Indices of Cost of Production of Live | estock Products. | |
| 8. ANH-8. Estimation of Area and Production of Feed and Fodder. | × - 1 | |
| 9, ANH-9. Establishment of Livestock Census cell in the Animal Husbandry | Department. 3.00 | |
| ANH-10. Monitoring and Assessment of Livestock Development Programme of Animal Husbandry and Dairying. | | |
| Total:—IV. | 18.00 | 1860 |
| V. Cattle Development | | 110 112 |
| 11. ANH-11. Artificial Insemination Scheme with Semen bank and Stud Farm. | 85.30 | 20.00 |
| 12. ANH-12. Intensive Cattle Development Programme. | 120.00 | 6.00 |
| 13. ANH-13. State Farm for Gir and Kankrej Cattle. | 45.00 | 12.00 |
| 14. ANH-14. Buffaloe Bull Mother Farm. | 20.00 | 10.00 |
| 15. ANH-15. Subsidy to cattle breeding Institutions and Gaushalas. | 80.00 | •• |
| 16. ANH-16. Supply of milch animals in Tribal Area. | 240.70 | |
| 17. ANH-17. Locations of Cross-bred bulls in Tribal Areas. | 12.00 | 1.00 |
| 18. ANH-18. Progeny testing Scheme in co-operation with Cattle Breeding In Gaushalas. | nstitutions and 2.00 | •• |
| 19. ANH-19. Training of Adivasis in Animal Husbandry Practices. | 10.00 | 7.00 |
| 20. ANH-20. Establishment of cattle Breeding-cum-Dajry Farming Centres at A | Ashramshalas. 3.00 | •• |
| 21. ANH-21. Assistance to Small Farmers for Cross-bred Heifers. | 25.00 | •• |
| 22. ANH-22. Establishment of Livestock Production Centres in Tribal Areas. | 20.00 | 10.00 |
| Total: V. | 663.00 | 66.00 |

| 1 | 2 | 3 | 4 |
|---------------------|--|---------------|---------------|
| L Poul | try Development | | , |
| 23. A | NH-23. Farmer's Training. | 24.00 | 12.00 |
| 24. <i>A</i> | NH-24. Coordinated Poultry Breeding Programme. | 43.00 | 16.00 |
| 25. A | NH-25. Expansion of Poultry Feed-Testing Laboratory. | 4.00 | 2.00 |
| 26. | NH-26. Intensive Poultry Development Projects. | 120.00 | 50.00 |
| 27. | ANH-27. State Egg Marketing Federation. | 20.00 | 12.90 |
| 2 8. 4 | ANH-28. Development of Economically Weaker Sections of the society by taking to Poultry Farming. | 140.00 | •• |
| 29. A | NH-29. Integrated Poultry Development Programme. | 80.00 | |
| | Total VI;— | 431.00 | 92.90 |
| II. She | ep and Wool Development | | |
| 3 0. A | NH-30. Intensive Sheep Development Blocks. | 80.00 | 2.94 |
| 31. A | NH-31. Pig Breeding Farm. | 0.20 | 0.20 |
| 32. A | NH-32. Strengthening of Sheep Breeding Farms at Patan and Morvi. | 4.00 | •• |
| 33. A | NH-33. Supervisory Unit for sheep Extension Centres. | 18.00 | 0.80 |
| 34. A | NH-34. Service centres for Migratory flocks. | 25.00 | 8.00 |
| 35. A | NH-35. Wool Grading Contres. | 8.00 | 3.00 |
| 36. A | NH-36. Share Capital Contribution to the Gujarat Sheep and Wool Development Corporation. | 11.60 | 11.00 |
| 37. A | NH-37. Wool Utilisation Unit. | •• | |
| 38. A | NH-38, Audio-visual Aid. | 4.00 | •• |
| 3 9. A | NH-39. Modernisation of Wool Analysis Laboratory. | 4.00 | •• |
| 40. A | NH-40. Sheep Breeders Co-operative Societies. | 20.00 | 20.00 |
| 41. A | NH-41. Large Scale sheep breeding Farms. | 21.00 | 5.00 |
| 42. A | NH-42. Formation of Wool Board. | •• . | • • |
| 43. A | NH-43. Establishment of Goat Breeding Farm. | 8.00 | 2.00 |
| 44. Al | NH-44. Location of Exotic Gross-breed rams. | 10.80 | 2.90 |
| | Total VII:- | 214.00 | 55.84 |
| , Othe | r Livestock Development | | * |
| AN | H-45. Expansion of existing Exhibition Unit. | 3.00 | |
| 5. Al | H-46. Expansion of Horse Breeding Farm. | 11.00 | 5.00 |
| 7. AN | H-47. Expansion of Camel Breeding Farm. | 4.00 | 1.00 |
| 9. AN | H-48. Rabari Bharwad Rehabilitation Scheme. | 15.00 | 12.00 |
| 9. AN | H-49. Modernisation of Slaughter Houses | 5.00 | 5.00 |
| . AN | H-50. Financial Assistance to Cattle Market. | 2.00 | 1.30 |
| i. AN | H-51. preservation of Milch animals (Expension Programme) | 1.00 | •• |
| | Total: VIII. | 41.00 | 24.3 0 |
| Fodder | and Feed Development. | | |
| 3, AN | H-52. Feed and Fodder Development Programme. | 50.0 0 | •• |
| | Grand Total-(I to IX) | 70.00 | 363.25 |

1.8 DAIRY DEVELOPMENT

1.8.1. Introduction:

States in the country in the field of dairy development. The State has covered a lot of mileage since 1948 when the first dairy was established at Anand. Today, it has 18 dairies-one in each district of the State except Dangs. Even Dangs will get a dairy by the end of 1981-82.

1.8.1.2. Dairying is one of the enterprises that 'has tremendous potential for gainful and productive employment of the rural population. It can provide a source of ancillary income to the rural poor.

1.8.1.3. There are 14 dairies under organised sector and 5 dairies under construction as shown in the appended Statement. These dairies have covered 6200 milk/Cooperative Societies having 804815 members. Out of these, 35 to 40 % are small and marginal farmers, landless agricultural labourers including members of Scheduled Castes and Scheduled Tribes.

1.8.1.4. Four dairy plants are being established in the districts of Valsad, Gandhinagar, Surendranagar and Bhuj (Kachchh). During the Sixth Five Year Plan, 1500 more societies are being organised and 9.00 lakh milk producers will be covered. In the remaining district of Dangs, Cooperative village milk societies have been formed and milk is being supplied to Sumul Dairy, Surat.

1.8.1.5. The Milk Producers are being financed to purchase milch animals under different special programmes like D.P.A.P., S.F.A.L., I.R.D. and different institutions like Tribal Development Board, Social Welfare Board and Scheduled Caste Economic Development Corporation etc. Milch animals are also being supplied under tribal area sub-plan through Animal Husbandry department as detailed below:—

| Year | No. of milch animals supplied. | Subsidy disbursed Rs. |
|---------|--------------------------------|-----------------------------|
| 1977-78 | 866 | 8,66,000 |
| 1978-79 | 924 | 9,24,000 |
| 1979-80 | 13,822 | 1,38,22,000 |

1.8.2. Review of Progress

1.8.2.1. At the end of the year 1979-80, 5 milk product factorics and 9 liquid milk plants with an installed capacity of 20.28 lakh litres/day and the milk handling capacity of 17.32 lakh litres/day were in operation (vide Annexuro-I). About 6200 primary co-operative societies covering more than 7.50 lakh milk producers have supplied the milk to the unions. Seven cattle feed factories with an installed capacity of 900 tonnes per day have also been established.

Operation Flood Programme-I

1.8.2.2. The Government of India with the assistance of World Food Programme of United Nations launched 'Milk Marketing and Dairy Development Scheme' known as "Operation Flood Programme". The project report was prepared by the National Dairy Development Board, Anand and approved by the Government of India. This project was started in July-1970 and six districts namely Kheda, Mahesana, Banaskantha, Sabarkantha, Vadodara and Ahmodabad were covered for the installation/expansion of feeder dairies and chilling centres. Dairy projects of Mahesana and Kheda were expanded from 3.5 to 5 lakh litres/ day and from 5 to 7 lakh litres/day respectively and two new dairies at Palanpur and Himatnaga. were established to handle 1.5 lakh litres/da) each. In addition to this cattle feed plants a Palanpur and Himatnagar were installed and cattle feed plants at Kheda and Mahesana were expanded Technical inputs, artificial insemination and grass land development facilities were also provided to the members of societies in these districts. An amount of Rs. 18.14 crores has been paid to th above district cooperative milk producers' union by the end of 1979-80. The programme is expec ted to be continued upto March, 1981.

Operation Flood Programme-II

1.8.2.3. This programme has been commen aed from 22nd October, 1979 in India. In Gujar State, out of 1 disticts, 19 districts (except Amre Bhavnagar and Dangs) are covered the two proposed Clusters. Cluster-I compris districts of Banaskantha, Sabarkantha, Khed Mahesna, Panchmahals, Vadodara, Surat, Bharuand Valsad. This project will be implemented Gujarat Co-op rative Milk Marketing Federatic The Chaster-II comprises districts of Kachel Junagadh, Jamnagar, Surendranagar, Ahmedabad and Gandhinagar. This Clusterproject wil be implemented by Gujarat Dai Development Corporation.

1.8.3. Objective and Strategy for the Sixth Plan

- 1.8.3.1. The main considerations kept in view while formulating the Dairy Development Programmes for the 1980-85 Plan are:—
 - 1. To ensure economic uplift of the weaker sections by encouraging them to take up dairying as a means of increasing their income;
 - 2. To increase the milk production by providing technical inputs to make all dairy plants economically viable.
 - To increase the actual milk handling capacity from around 17 lakh litres a day to 20 lakb litres a day; and
 - 4. To establish 4 liquid milk plants, 6 instant milk cooling centres and 10 chilling contres to cover more milkshed areas.

1.8.4. Programmes for the Sixth Plan, 1980-85.

1.8.4.1. An outlay of Rs. 205.00 lakhs is proposed for the Sixth Pha; the broad break-up of which is as under:—

| | | (Rs. in lakbs) |
|----|-----------------------------------|----------------|
| 1. | Dairy Development. | 195. 00 |
| 2. | Education, Research and Training. | 6.00 |
| 3. | Direction and Administration. | 4.00 |
| | | 205.00 |

Financial assistance to District Cooperative Milk Producers' Unions and Feeler Societies.

- 1.8.4.2. Under the scheme, financial assistance will be given to district cooperative milk producers unions to establish/expand the dairies chilling centres and cooling units. A subsidy at 30% will be given by the State Government and 70% loan will have to be obtained from the nationalised banks. In case of tribal area, 50% subsidy will be given by State Government to the unions and 50% loan will be obtained from the nationalised banks. In addition financial assistance will also be given to primary cooperative milk societies for purchase of cans, utensils etc. @Rs. 2000/- each and for managerial subsidy @Rs. 100/- per month per society for two years in tribal area.
- 1.8.4.3. An outlay of Rs. 60 lakhs has been proposed for the financial assistance to district cooperative milk producers' unions for the expansion/establishment of dairies/chilling centres. District cooperative milk unions which are not covered under Operation Flood Programme-II will be

- assisted. It is estimated that about 800 primary cooperative societies will be formed in the milkshed areas of the district unions and the dairies under Gujarat Dairy Development Corporation would supply milk to the organised dairy plants. The scheme will benefit small and marginal farmers, agricultural labourers and the tribal areas.
- 1.8.4.4. There are some towns in the State where it is not possible to establish dairies. It will ultimately be possible to meet the demand of such towns by bringing surplus milk from the established dairies. Consumers cooperative societies will be established to take up this activity. The societies will make their own arrangements for storage and distribution. Three such societies are proposed to be established during the plan period. Rs. 5 lakhs have been proposed to be given as financial assistance to consumers cooperative societies. The consumers of such towns will get the pasturised milk & milk products of the dairies at a reasonable rate.

Banni Development Scheme.

- 1.8.4.5. The area of Banni lies on Northern side of main land of Kachchh. It has reclaimed alluvial flat area of 328 sq. miles with a population of about 11,000. It is mostly inhabited by nomadic cattle breeders having good number of milch cattle of superior quality. The cattle owners depend only on livestock and their products. Banni area of Kachchh is well known for its pasture laid. In every five years, three years are of famine resulting in searcity of water and folder. It is, therefore, desirable to take grassland development, water storage, afforestation, poultry development, construction reclamation dam in this area. the Sixth Five Year Plan, Rs. 20.00 lakhs have been proposed to collect 5000 kgs. of grass seeds and land development in 2500 hectares.
- 1.8.4.6. Besides, it is proposed to set up milk producers' co-operative societies in villages of Banni as part of Operation Flood-II through which milk would be collected and sent to the dairy being established at Bhuj by the Gujarat Dairy Development Corporation.

Share Capital Contribution to Gujarat Dairy Development Corporation Limited, Gandhinagar.

- 1.8.4.7. Government has formed Gujarat Dairy Development Corporation with an authorised share capital of Rs. 200 lakhs in the year 1973. The main objectives of the Corporation are:—
- (1) To set up dairies/chilling centes/cattle feed factories in milkshed areas.
- (2) To develop existing weak dairies and to administer the dairies that are not economically viable.

- (3) To encourage organisation of primary milk societies on cooperative basis.
- (4) To hand over dairies set up or developed by the Corporation to district cooperative milk unions, when they are economically viable.
- (5) To look after collection and marketing of milk economically.
- (6) To evolve working arrangement with the existing milk unions within Gujarat Milk Grid and;
- (7) To take all such measures as may be necessary for fulfilment of the aforesaid objectives including sale and purchase of equipments, materials and construction of buildings/plants etc.
- 1.8.4.8. By the end of 1979-80, share capital of Rs. 339.38 lakhs has been paid and an amount of Rs. 50.00 lakhs is proposed to be paid during the Sixth Plan period.

Operation Flood Programme-II.

1.8.4.9. Operation Flood-II programme, in Gujarat State, has already commenced in October 1980. This programme is estimated at a cost of Rs. 57.19 crores comprising of Rs. 41.56 crores in Cluster-I and Rs. 15.63 crores in Cluster-II. To supplement this programme, it is likely that there will be State commitments to Operation Flood-II programme for which a provision of Rs. 10.00 lakhs is proposed in the Sixth Five Year Plan.

Financial assistance to District Cooperative Milk Producers Unions/G.D.D.C.for Milk Rooms, Spear Head Team, Transport Subsidy etc.

1.8.4.10. It is proposed to finance district cooperative milk producers' unions/G.D.D.C. for construction of milk rooms at society level where the milk from the members will be collected and samples tested and the milk despatched to the dairy. Cattle feed, cans etc. will be stored at milk rooms. Similarly the unions/G.D.D.C. will be financed for the

spear head team for milk enhancement programme. It is also proposed to finance the unions/G.D.D.C. in transport subsidy so that more societies can be formed and more milk is collected.

1.8.4.11. It is proposed to finance Rs. 50.00 lakhs to district co-operative milk producers' unions/G.D.D.C. during the Sixth Five Year Plan.

Strengthening of Organisation

1.8.4.12. The major portion of the funds allocated for dairy development in the State is placed at the disposal of Registrar of Cooperative Societies and Gujarat Dairy Development Corporation. It that the dairy section of the is necessary Directorate is strengthened to plan, scrutinise, guide, coordinate, monitor and maintain the liaison with other concerned agencies viz., Gujarat Dairy Development Corporation, Gandhinagar, National Dairy Development Board, Anand, Gujarat Agricultural University and Government of India. It is therefore, proposed to strengthen suitably the organisational out put during the Sixth Plan period. An outlay of Rs. 4 lakhs is proposed for the Sixth Plan 1980-85 for this programme.

Technician's Training Centre, Mahesana (Grant-inaid to National Dairy Development Board, Anand)

1.8.4.13. This important project which was started during the Fifth Plan period is to be continued during the Sixth Plan period. It will cater to the needs of providing technical and practical education needed for technicians of different dairy plants. The scheme will also ensure continued supply of technicians for cattle develoment and other animal husbandry programmes. The State Government will give grant-in-aid to National Dairy Development Board, Anand for funding this scheme. An amount of Rs. 6 lakhs is proposed for this purpose during the plan period. 300 Technicians of the Government will not have to pay the tution fees. The required technical personnal will be made available by this institute.

STATEMENT
Statement showing the Dairy Development activities in Gujarat State

| Sr. No | | Starting year of Dairy | Installed capacity of Dairy (litres in lakhs/day) | Quantity of milk handled during 79-80 (litres in lakhs(day) | | Members of co-op. societies | Chilling Centres | Handling capacity Lts/day | (zttle feed plant | I en erhe |
|------------|--|------------------------------|---|---|-------|-----------------------------------|---|--|-------------------------|----------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 13 |
| UN | LK PRODUCTS FACTORIES DER DISTRICT COOPERA- VE MILK PRODUCERS' UNI | ON. | | | | | | | | |
| 1 | Amui Dairy, Anand | 1948 | 7.00 | 4.88 | 893 | 3,08,000 | Kapadwanj Dev | 20,000 | 1 | As per Column No. 4. |
| 2 | Rajkot Dairy, Rajkot | 1963 | 0.40 | 0.20 | 143 | 6,000 | Wanka ner Vinchhiya | 5,000 5,000 | •• | |
| 3 | Sabar Dairy, Himatnagar | 1964 | 1.50 | 2.19 | 1030 | 86,700 | Khedbrahma Dhansura Shamlaji | 20,000 20,000 25,000 | 1 | |
| 4 | Dudhsagar Dairy, Mehsana | 2-4-65 | 4.50 | 4.05 | 915 | 1,26,000 | Vihar Harij Kadi Kheralu Hansapur | 80,000 25,000 25,000 45,000 25,000 | 1 | |
| 5 | Bons Dairy, Palanpur | 1969 | 1.50 | 1.30 | 804 | 75,850 | Khimana Dhanera | 20,000 20,000 | 1 | |
| CO | IRIES UNDER DISTRICT OPERATIVE MILK PRODU ION | CERS' | | | | | Diamera | 20,000 | | |
| 6 | Baroda Dairy, Baroda | 1965 | 1.00 | 0.84 | 578 | 69,928 | Bodeli | 20,000 | 1 | |
| 7 | Sumul Diary, Surat | 1967 | 1.50 | 1.54 | 581 | 81,400 | Bajipura | 20,000 | 1 | |
| 8 | Dhdudhara Dairy, Bharuch DER GUJARAT DAIRY | 1973 | 0.40 | 0.25 | 252 | 19,000 | Rajpipla Sagbara Dodiyapada | 4,000 4,000 4,000 | •• | |
| DE | VELOPMENT CORPORATION | <u>N</u> | | | | | | | | |
| 9 | Bhavnagar Dairy, Bhavnagar. | 1957 | 0.08 | 0.08 | 120 | 2,300 | •• | •• | •• | |
| i 0 | Jamnagar Dairy, Jamnagar | 1964 | 0.25 | 0.04 | 50 | 600 | Jam-kham- bhaliya | 4,000 | •• | |
| 11 | Junagadh Dairy, Junagadh | 1965 | 0.25 | 0.09 | 35 | 1,215 | •• | •• | | |
| 12 | Chalala Dairy, Chalala | 1979 | 0.20 | 0.06 | 80 | 2,132 | Rajula | 5,000 | | |
| 13 | Panchmahal Dist. Co-op. Milk Produ. Union, Godhra | 1980 | 0.30 | 0.21 | 176 | 6,995 | •• | *** | | |
| 7 | Abad Dairy, Ahmedabad | 1979 | 1.40 | 1.61 | •• | •• | •• | | •• | |
| DA | IRIES UNDER CONSTRUCT | TION | | | | | | | | |
| 5 | Ahmedabad Dist. Co-op. Milk Pro. Union Ltd. Ahmedabad | •• | • | | 170 | 6,745 | | | | |
| 8 | Valsad D.C.M.P.U. Ltd., Valsad | Dairy i | is under cor | struction | 149 | 3,500 | | | | |
| 7 | Gandhinagar -do- | | ** | | 54 | 3,700 | | | | |
| 8 | Surendranagar -do- | | ., | | 142 | 3,500 | | | | |
| 9 | Bhuj -do- | | ** | 1 | 28 | 200 | | | | |
| | Total | | 20,.28 | 17.32 | 6,200 | 8,04,815 | | 4,58,000 | | |

_2683—**30**

STATEMENT

DAIRY DEVELOPMENT

List of the schemes included in the Sixth Five Year Plan, 1980-85.

(Rs. in lakhs). No. and Name of the Scheme. Sr. Sixth Five Year Plan 1980-85 No. outlay, Total Capital 1 2 3 4 1. Direction and Administration: DMS-1 State Level Organisation 4.00 Dairy Development. Financial assistance to District Cooperative Milk DMS-2Producers' Unions and Feeder Societies 60.00 Financial assistance to Consumer's Coop. Societies. 5.00 DMS-3DMS-4 Banni Development Scheme. 20.00 Share Capital contribution to Gujarat Dairy Development DMS-5 Corporation. 50.00 50.00 State Committments to Operation Flood-II. 10.00 DMS-6 Financial assistance to District Cooperative Milk DMS-7 Producers' Unions for milk rooms, spear head team, transport subsidy etc. 50.00 Total-II 195.00 **50.0**0 III. Education, Research and Training: Technician's Training Centre, Mahesana (Grant in-aid to DMS-8 6.00National Dairy Development Board, Anand.) 205.00 50.00 Grand Total (I+II+III)

1.9 FISHERIES

1.9.1. Introduction

1.9.1.1. The State has an excellent marine and inland estuarine, brackish water, mariculture and coastal acquaculture potential resources for fisheries. The State enjoys an enviable position amongst all the maritime States of the Country in view of its longest coast line of about 1663 kms.from Lakhpat in Kachchh district to Umarga n in Valsad district (roughly one third of the Indian coastline). The State is also gifted with vast sea board forming about 1.65 lakh sq.kms. of fishable potential (cinshore, off shore and deep sea fishing areas.) Besides, the coastal belt of Gujarat provides large number of creeks and low lying potential resources of about 3.67 lakh hectares for tapping and launching mariculture, brackish water and coastal acquaculture programmes all along the coastline. There are also two prominent gulfs namely the Gulf of Kachchh and the Gulf of Khambhat engulfing the Saurashtra peninsula.

1.9.1.2. Five major river systems namely Narmada, Mahi, Tapi, Sabarmati and Banas and other sweet water swamps also form rich potential sources for development of inland fisheries in the State. Perennial village tanks covering of about 10,000 hectares are available for inland fish culture practices, besides about hundred irrigation reservoirs also offer considerable scope to support lacustrine fisheries in the State.

1.9.1.3. Our marine waters surrounding Saurashtra peninsula comprise the richest fishing grounds consisting of the most important commercial varieties of fish such as Pomfrets, Hilsa, Goldara, Perches, Sharks, Cat fish, Bombay ducks, Tuna besides availability of crustaceans namely Prawns, Shrimps, Crabs, Lobsters among our marine life. It has been now an established fact that the waters of Saurashtra offer rich fishing grounds on the west coast of India. Besides, optimum conditions do prevail in the Gulf of Kachehh for the growth and sustenance of real Pearl Oysters, Edible Oysters, Window Pane Oysters, Chanks and other small fish and turtles and sea weeds of commercial importance.

1.9.1.4. The full extent of our marine, fresh water and brackish water reasources so richly available in Gujarat have not been fully assessed so far. These are far from being fully exploited or developed. The fishing in the sea is generally confined to the coastal belt upto 25 fathoms and in certain areas upto 40 fathoms.

1.9.2. Review of Progress.

1.9.2.1. Fish production was 0.80 lakh tonnes in 1960-61. The same rose to the potential level of 2.46 lakh tonnes by the end of 1978-79. During 1979-80, 2.75 lakh tonnes of fish production was targetted but due to cyclonic monsoon, unfavourable

weather conditions, inadequate landing and berthing facilities in the State and especially due to acute shortage of diesel and price hike too in the fuel, fishermen were compelled to restrict their fishing voyages. As a result, fish landed in Gujarat during the year 1979-80 was 2.23 lakh tonnes (2.07 lakh tonnes marine fish and 0.16 lakh tonnes inland fish).

1.9.2.2. To assess and evaluate the pace of development so far, it is to discover the fact that under the main production oriented scheme namely mechanisation of fishing crafts which generate significant permanent self-employment of the fisherman, assistance was provided for mechanisation of 1946 fishing vessels (powered with 1050 inboard marine diesel engines and 896 outboard motors) and for construction of 947 wooden boats (hulls) in long spell of 23 years (1951-1974). Assistance for mechanisation of 1006 fishing vessels (powered with 853 inboard engines and 153 outboard motors) and for construction of 484 wooden boa's (hulls) was provided in a span of only four years (1974-78) of the Fifth Plan. Against this, assistance for 784 mechanised fishing vessels, 342 fully mechanised trawellers of 11.5 mt. size and above, interest free loan from the State and subsidised purchase of 440 inboard marine diesel engines, for the purpose besides two maxican trawlers imported for deep sea fishing only, was provided during a short spell of past two Annual Plans (1978-80), 12 fish seed farms for supporting inland fisheries including last 3 being completed during 1980-81 have been established. About 900 hectares of village tanks have been improved for inland pisciculture. Reservior fisheries have been taken up in 29 reservoirs. So far 1261 Fisher youths/girls have been trained in various aspects of marine fisheries and 1229 tribals have been imparted training in culture and capture fisheries in inland water sheets, which includes short term training of 15/30 days duration to 1023 tribals and weaker sections in the hinter land to take up village ponds/tank fisheries. Besides as against 64 fisheries co-operatives existing in 1974, 167 fisheries co-operatives have come into existence by now which include 60 co-operatives on marine fisheries side and 107 co-operatives in inland fisheries side including 46 societies in tribal areas.

1.9.2.3. In addition, the following supporting facilities have also been created during the last 29 years of the development programme- (1) Service stations at Veraval, Mangrol, Porbandar, Umargam, Valsad, Madhwad, Okha, Jamnagar and Salaya for installation and repairs of engines of the mechanised fishing vessels of the State.

- (2) Boat building yards through Government aid at Veraval, Porbandar, Mangrol, Umargam. Valsad and Jafrabad.
- (3) Ice factory and cold storages through Government aid at Kandla, Jamnagar, Porbandar, Veraval and Umargam.
- (4) Freezing plant, ice factory and cold storage at Bombay and a complex comprising of freezing plant, frozen storage, ice factory and cold storage at Veraval, processing unit for dry fish processing at Navabunder in Una taluka (Junagadh district) established by the Gujarat Fisheries Central Cooperative Association Ltd.
- (5) 3 Training centres for imparting training to fisher youths and girls in marine fisheries at Verayal, Porbandar and Valsad.
- (6) 3 Training centres-two at Ukai and one at Vansda to impart training on inland fisheries to adivasis and the people of weaker sections.
- (7) Research stations on marine fisheries at Okha with sub-stations at Sikka, Bhavnagar and Bharuch.
- (8) Research station in inland fisheries at Ukai.
- (9) Fish Farmer's Development Agencies at Surat and Godhra.
- (10) Achieving the level of exporting of fish and its by-products-3954 tonnes (worth Rs. 12.69 crores) in 1978-79.
 - 1.9.2.4. It is estimated that 59,000 fishermen including 3000 adivasis are involved in fishing industry permanently.

1.9.3. Approach and Strategy for the Sixth Plan

- 1.9.3.1. Keeping in view the vast potentiality and resources richly available in the State for furtherance of many production oriented schemes with Significant employment generation and to utilise this natural gift through balanced development of fisheries in the State, the Sixth Five Year Plan proposals have been formulated with the following objectives:
 - (1) to increase fish production;
 - (2) to strengthen the infrastructural facilities;

- (3) significantly improve the fish distribution channels, for ensuring fair returns to the fishermen, the adivasis and the weaker sections of the societies involved in fisheries;
- (4) to enhance the income of the backward and weaker sections of the society involving them in fisheries and fishing industry through a co-operative fold linked up with marketing activities all along the coastline and in the interior hinterland and to improve their socio-economic conditions;
- (5) to intensify survey of brackish water-mariculture and coastal acquaculture resources aiming at intensifying the scientific approach in fish farming, fish culture of selected varieties of commercial importance and increase fish production systematically;
- (6) to intensify efforts in inland reservoirs and tank fisheries;
- (7) to establish more fish seed production/rearing farms in the direction of self-sufficiency in prodution of quality fish seed so vital for inland pisciculture:
- (8) to improve village tanks and ponds suitably for augmenting fish production through composite fish culture of inland and exotic species; and
- (9) to further strengthen the integrated rural development programme involving tribals and weaker sections in fish farming along with cropping, animal husbandry, poultry, flowery, duckery, apiary and piggery development.
- 1.9.3.2. It is well known fact that those engaged in the fisheries sector as their permanent vocation for self-employment are mainly from the economically backward clasess. The efforts have, therefore, been made in the direction to improve the economic conditions of these poorer sections engaged in fishing activities by increasing the productivity as envisaged and expanding the opportunities for their self-employment in this sector giving them gainful income. Towards this end, the activities of the department continue to be concerned with financing the availability of inputs as much as by way of knowledge and skills as by finance, tools and equipments. Thus, opening of employment opportunities by way of imparting skills through training on modern methods and opening spheres of activities has been a part of this sectoral programme.

1.9.4. Outlays for the Sixth Plan

1.9.4.1. A broad distribution of the outlays

over the various programmes for the Sixth Five Year Plan 1980-85 is shown in the following table.

(Rs. in lakhs)

| Sr. No. | Programme | 1980-85 proposed outlay |
|------------|--|-------------------------------|
| ı | 2 | 3 |
| 1. | Direction and Administration. | 25.00 |
| 2. | Extension | 50.00 |
| 3. | Research, | 200.00 |
| 4. | Education and Training. | 89.91 |
| 5. | Inland Fisheries. | 636. 00 |
| 6. | Deep Sea Fisheries. | 76.4 0 |
| 7. | Processing, Preservation and Marketing. | 35 0.00 |
| 8. | Mechanisation and Improvement of Fishing Crafts. | 4 11 . 6 0 |
| 9. | Other Programmes. | 161.09 |
| | Total | 2000.00 |

1.9.5. Programmes for the Sixth Plan:

Direction and Administration:

1.9.5.1 This envisages the organisation and strengthening the ministerial staff such as Audit and Reconciliation Cell, Budget and Budget Performanc, Statistical Cell, Planning and Monitoring Cell, and Other Administraive Personnel Management.

Extension.

1.9.5.2 The staff is required for appropriate publicity and extension work to transmit the results concluded from various resources/projects and experiments to the fish farmers in the interior remote places and all along the coastal villages through various media viz. pamphlets, films, audio visual aid, projectors and personal contacts by the field staff. At the same time field staff is required to study the problems, success and failures of the performance actually done by the fish farmers in their own fields and solve them on the spot itself and in required cases to take such problems to the isboratory.

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Research :

1.9.5.3. Survey, investigation and exploitation programmes are taken up to support the production oriented programme of the fisheries subsector through various research and investigations. Three 49 footer survey vessels powered with 87 HP engines, with its base at Okha are to continue their operations for exploratory survey in various depths ranging from 25 to 40 fathoms off Saurashtra waters off Dwarka to Jakhau and in the Gulf of Kachchh to know habits and habitats of various marine lives. in the sea, to establish good fishing grounds and to expose them to the fishermen for commercial fishery to fully exploit such resources. Gujarat Aquatic Science Station at Okha with sub-stations at Sikka Bhavnagar, Bharuch, Mundra and Jodia are to continue various research studies on plankton off Gujarat waters, survey and availability of various flora and fauna in the Gulf of Kachchh, hydrographical survey and analysis of sea water, biological studies different oysters and marine life, problem on water pollution and its effect on marine life, survey rearing and culture of sea weeds, edible oysters, pearls

| | | -8 | |
|--|--|----|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

- 1. Dredging equipments and spares. 100%
- 2. Civil works under harbour and other 50% civil works under traditional fishermen sub-project.
- 3. Consultancy services

100%

- 4. Testing of fishing surveys and market 90% study.
- 5. ARDC loan for the procurement of mechanised fishing boats, out-board motors, canoes, net making machines and trucks etc.
- 1.9.5.17. The work on the project for Jakhau and Madhwad will be completed by the end of 1980-81and maintenance expenditure is to be provided for facilities such as ice factories, water supply, auction hall, working sheds and service stations which are being completed at these centres where insulated trailer vans for quick transport of fish are also provided.
- 1.9.5.18. Project at a cost of Rs. 129 lakhs for development of Porbandar as fishing harbour as approved by GOI on 50:50 share basis between GOI and the State has been taken up and the work is in progress.
- 1.9.5.I9. The works on initial landing and berthing facilities at Kolak, Umargam, Umarsadi is also in progress. It is envisaged that the work at Shivrajpur (Okha) will be intiated during 1980-81 on receipt of clearane from the GOI.
- 1.9.5.20 During the Sixth Plan 1980-85, it is proposed to further step up the second phase of the development of Veraval and to develop Umargam in South Gujarat as fishing port.

Marine Fisheries.

- 1.9.5.21 The Programmes envisaged under the marine fisheries programme are:-
- (1) Mechanisation of fishing crafts (2) Incentive for improvement of traditional fishing, (3) Financial assistance for improved designed boats, (4) Supply of modern requisites and (5) Establishment of service stations.
- 1.9.5.22. Under this programme financial assistance is given in the form of interest free loan @ Rs. 25,000 for a mechanised vessel of 11.5 metre and above from 1979-80 onwards. Prior to this it was granted for mechanised fishing vessels of 14.5 metres and above.
- 1.9.5.23. Also interest free loan for out board motorised canoe of 9 metre length @ Rs. 5,000 is given as per existing pattern. Subsidy is also granted only for inboard marine diesel engines and outboard motors to those who have their own fishing vessel or canoe respectively at 30% of the cost (Upto Rs. 20,000) and at 15% of the cost (upto Rs. 400). Subsidy for preparation of gill net, bag net and dol net is given @ 33% on bank loan upto Rs. 5,000 only as incentive for improvement of traditional fishing in the area where DPAP and central agency is not granting subsidy for the purpose whereas subsidy @ 5% is granted on the cost of cotton/monofilament twines and @ 10% on nylon twines under the scheme of supply of fishing requisites for non-mecha nised vessels in the State.
- 1.9.5.24 The progress of the main components viz., financial and physicial for mechanised fishing vessels, canoes fitted with outboard motors and inboard marine dieselengines increasing significant sustained self-employment of the fishermen on marine fisheries is given below:—

| Year | Expendi- | | | Physical | | | |
|--------------------|------------------------|---------------------------------|---|------------------------------|-----------------------------------|---------------------------|--|
| | ture (Rs. in lakhs) | Interest free loan | | | Subsidy on | | |
| | | Mechanised vessels (Nos.) | Canoes fitted with out- board motors (Nos.) | Inboard engines (Nos.) | Out- board motors (Nos.) | Wooden boats (Nos.) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1978 –7 9 | 94.91 | 125 | •• | 309 | | •• | |
| 979-80 | 82.48 | 217 | •• | 131 | •• | 13 | |
| 1980-85 (proposed) | 411.60 | 700 | 360 | 750 | 1400 | 500 | |

1.9.5.25. Service stations newly established during 1979-80 at Salaya, Jamnagar and Jafrabad will have to be maintained and establishment of additional service stations at Mota-Salaya and Shivrajpur (Jamnagar district) is envisaged in the Sixth plan. The service stations at Jamnagar, Jafrabad, Salaya, Veraval, Jakhau, Madhwad, Valsad, Umargam, Mangrol, Porbundar, Okha are required to render services to the mechanised fishing vessles for installation of engines and their repairs at scheduled rates.

Other Programmes:

- 1.9.5.26 This programme covers-
- 1. Scheme for strengthening of co-operatives and
- 2. Construction of office building and quarters.

Under item (1) Co-operative societies are organised and strengthened by grant of managerial subsidy and share capital contribution and matching contribution towards N.C.D.C. loans and

subsidy, whereas under item (2) staff quarters, office buildings and similar facilities are required to be provided as with the expansion of developmental activities, such facilities become essential on coastal area and in the hinterland where fisheries activities are expanded or initiated.

1.9.5.27 Managerial subsidy is granted at 100%, 75% and 50% respectively in the first, second and third year to the co-operative society. It is envisaged to grant managerial subsidy to 10, 8 and 10 co-operatives and share caepital contribution to 126, 15 and 25 co-operatives during 1980-85 Sixth Plan., at the respectiverates.

1.9.5.28 Works for construction of 129 quarters at various places are in progress and new works for 2 office buildings and 19 quarters are proposed during 1980-85 (Sixth Plan period). It is expected to complete work for 129 quarters which is in progress and to take up works of 145 quarters and two office buildings each at Jakhau and Umargam. To continue the activities it is proposed to provide an outlay of Rs. 161.09 lakhs for 1980-85.

STATEMENT

FISHERIES

List of Schemes included in the Sixth Five Year Plan 1980-85

(Rs. in lakhs)

| | No. and nar | ne of scheme | Sixth Five Year Pla 1980-85-outlay | |
|-----|-------------|--|---------------------------------------|---------------|
| No | | | Total | Capital |
| 1 | 2 | | 3 | 4 |
| I. | DIRECTION | AND ADMINISTRATION. | | |
| | 1. FSH-1 | Strengthening of supervision, planning and statistics. | 25.00 | |
| | | TOTAL-I. | 25.00 | • • |
| II. | EXTENSION | -4- | | - |
| | 2. FSH-2 | Strengthening of publicity and extension. | 50.00 | ., |
| | | TOTAL—Ĭī. | 50.00 | ••• |
| Ш | . RESEARCH | | | |
| | 3. FSH-3 | Survey, investigation & exploitation. | 200.00 | 104.22 |
| | | TOTAL—III. | 200.00 | 104.22 |
| IV. | EDUCATION | and training. | | |
| | 4. FSH-4 | Training of departmental personnel. | 18.00 | •• |
| | 5. FSH-5 | Training of fisher-youths. | 71 .91 | 45.31 |
| | | TOTAL—IV. | 89.91 | 45.31 |
| V. | INLAND FIS | HERIES | | · |
| | 6. FSH-6 | Fish seed production and augmentation of inland fisheries resources. | 525.00 | 172.44 |
| | 7. FSH-7 | Exploitation of inland fisheries resources. | 111.00 | 48.45 |
| | | TOTAL—V. | 636.00 | 220.89 |
| VI. | DEEP SEA | PISHERIES | | |
| | 8. FSH-8 | Deep sea fisheries. | 76.40 | •• |
| | | TOTAL—VI | 76.40 | • • |
| VII | . PROCESSIN | G, PRESERVATION & MARKETING. | | |
| | 9. FSH-9 | infrastructural facilities and fish based ancilliary industries. | 350.00 | 275.00 |
| | | TOTAL—VII | 350.00 | 275.00 |

| 1 | | 2 | | | 3 | 4 |
|-------|----------|---------------------------|----------------------------|---------|---------|------------------------|
| VIII. | MECHANIS | ATION AND IMPROVEM | ENT OF FISHING CRAFTS | | | . 0 |
| 10. | FSH-19 | Mechanisation of fishing | crafts. | | 358.00 | 193.00(Loan) |
| 11. | FSH-11 | Incentive for improvement | nt of traditional fishing. | | 4.00 | |
| 12. | FSH-12 | Financial assistance for | mproved designed boats. | | 25.00 | •• |
| 13. | FSH-13 | Supply of modern requir | ites. | | 5.00 | |
| 14. | FSH-14 | Establishment of service | stations. | | 19.60 | •• |
| | | | TOT | ALVIII. | 411.60 | 193.00 |
| IX. O | THER PRO | GRAMMES | | | | |
| 15. | FSH-15 | Programmes for strength | ening of cooperatives. | | 47.25 | 42.50 (Share (capit al |
| 16. | FSH-16 | Construction of building | and quarters. | | 113.84 | 113.84 |
| | | | тот | AL—IX | 161.09 | 156.34 |
| | | | GRANI | TOTAL : | 2000.00 | 994.76 |

1.10 FORESTS

1.10.1 Introduction

1.10.1.1. Gujarat happens to be one of the deficit States from the point of view of forest resources with only about 10 percent of its total land area under forests. Out of the total forest area of about 15.59 lakh hectares, less than half or about 8 to 9 lakh hectares only can support productive forests in the State. Till the end of 1979-80, hardly, an area of about 0.96 lakh hectares have been brought under man made forests of economically important species like teak, khair and bamboos. To get higher return in terms of yield value per hectare, it is necessary to convert the remaining area into man made forests. The need of such a conversion is all the more urgent as the present production of timber and fuel wood is only 33 percent and 5 percent respectively of the State's demand.

1.10.2. Strategy of the Plan:

- 1.10.2 1. The major thrust of the Forestry Programmes for the Five Year Plan 1980-85 will be towards ecological balance, employment generation, energy conservation and economic stability of the tribal population. This is proposed to be achieved by adopting the following strategy:
 - 1. Undertaking a massive programme of community forestry to meet the growing rural energy needs.
 - 2. Improving environment by protecting forests and undertaking massive afforestation in the degraded areas.
 - 3. Preserving nature, flora and fauna through the establishment and development of national parks and sanctuaries.
 - 4. Providing employment to the rural popualtion with special attention to the weaker sections of the society *i.e.* tribals, so as to give a permanent support to their economy, through forestry programmes and;
 - 5. Consistent with the above, increasing the productivity of forest products so as to march towards the goal of self sufficiency in meeting the economic, industrial and rural needs of the State.
- 1.10.2.2. The overall broad strategy for development of forestry sector in the State would be to increase tree growth wherever possible both inside and outside the forest areas. The core activity of the programme will, therefore, be the plantations including conservation measures and protective plantation. In consumance with the objectives and strategy enumerated above, the priorities are given to the production, conservation, community forestry, environment forestry

including nature c nservation and tribal welfare programmes accordingly.

1.10.3 Programmes for the Sixth Plan 1980-85

1.10.3.1 An outlay of Rs. 9000 lakhs for the Sixth Plan 1980-85 is proposed for this sub-sector. Bulk of the outlay is proposed for extension, forest conservation and development, plantation schemes and conservation of wild life programmes. The broad break up of the proposed outlay is as under:—

(Rs. in lakhs)

| - | Programme | Outlay 1980-85 |
|------------|--|-------------------|
| 1. | Direction and Administration | 110.30 |
| 2. | Research | 41.00 |
| 3. | Education and Training | 153.00 |
| 4. | Forest Conservation and Development | 630.90 |
| 5 . | Plantation Schemes | 657.40 |
| 6. | Farm Forestry | 188.70 |
| 7. | Communication and Buildings | 179.30 |
| 8. | Preservation of Wild life | 310.00 |
| 9. | Extension (World Bank assisted Project) | 6186.40 |
| 10. | Management of Zamindari (Acquisition of Private forests) | 40.00 |
| 11. | Other Expenditure | 503.00 |
| | Total | 9000.00 |

1.10.3.2. The broad programmewise details of the Sixth Plan 1980-85 are given in the following paragraphs.

Direction and Administration

1.10.3.3. The forests being exposed to adverse biotic factors, the protection measures assume great significance. It is proposed to help the local staff in apprehencing effenders by appointing more jodi-guards, establishment of mobile squarand mobile court to detect offences and deal the enquiry cases, to strengthen the planning and

statistical cell of the forest department for monitoring and evaluation of the various programmes during the Sixth Plan 1980-85.

Research, Education and Training:

1.10.3.4. With the increase in activities, the need for strong research support has become an essential requirement. A State Forest Research Institute has therefore been established at Rajpipla during 1979-80 to carry out research work. It is necessary to train the staff at various levels. A Ranger's Training College at Rajpipla, Training school for forests and field assistants at Kakrapar and School for training the adivasi youths in carpentary at Waghai has also been started for this purpose. It is proposed to strengthen these institutes to meet the requirements of trained personnel.

Forest Conservation and Development

1.10.3.5. Upto the end of 1979-80, soil and moisture conservation and afforestation works were carried out in about 0.78 lakh hectares. The target for the Sixth Plan 1980-85 is to cover an additional area of about 0.27 lakh hectares under this programme.

Plantation Schemes:

Afforestation on Desert Border :

1.10.3.6. Till the end of 1979-80, plantations have been raised in about 0.22 lakh hectares. The target proposed for the Sixth Plan 1980-85 is to cover an additional area of about 0.07 lakh hectares.

Arresting advancing salinity in the coastal area of Saurashtra (World Bank assisted scheme):

1.10.3.7. This is a World Bank assisted scheme. Under this scheme, till the end of 1979-80, the plantations have been raised in about 390 hectares and about 90 kms. of shelter belts. It is proposed to carry out plantations over an area of 8000 hectares during the Sixth Plan 1980-85.

Plantations by Fast Growing Species:

1.10.3.8. Plantations by fast growing species have been raised in about 0.37 lakh hectares till the end of 1979-80 and it is proposed to cover an additional area of about 0.10 lakh hectares during the Sixth Plan 1980-85.

Economic Plantations

1.10.3.9. Plantations have been raised in about 0.59 lakh hectares till the end of 1979-80. The target for the Sixth Plan 1980-85 is to cover an additional area of about 0.21 lakh hectares.

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Plantations on Coastal Areas

1.10.3.10. The object of this scheme is to stop the violent wind coming from the sea and also to stabilise the shifting of sand converting agricultural land into sandy waste. Till the end of 1979-80, plantations have been raised in about 7500 hectares and the target for the Sixth Plan 1980-85 is to raise tree plantations in about 3000 hectares.

Irrigation Plantations:

1.10.3.11. This scheme is started on pilot scale during 1979-80 and only 10 hectares of plantations were raised. It is proposed to raise irrigated plantations over an area of about 1400 hectares during the Sixth Plan 1980-85.

Energy Plantations:

1.10.3.12. The energy positions in the form of high density and short rotation forestry practices. The experimental energy plantations raised at Indroda in Gandhinagar has given very encouraging results indicating that it is feasible to raise high density plantations to yield higher returns to be harvested on a short rotation. During the Sixth Plan, it is proposed to raise energy Plantations over an area of 700 hectares at a cost of Rs. 23.60 lakks. Planning is continuing to bring forward a more substantial programme in irrigation project command areas.

Farm Forestry

1.10.3.13. Under this scheme, nearly 500 lakh seedlings were distributed by 1979 to public, free of cost, during the Vanmahotsava celebrations. It is proposed to distribute about 1000 lakh seedlings during the Sixth Plan 1980-85. It is proposed to rehabilitate degraded and marginal farm lands by farm forestry programme in ε n area of about 100 hectares during the Sixth Plan.

Communication and Buildings:

1.10.3.14. A good net work of reads not only adds to the value of the forest produce but also makes it possible to harvest in accessible areas in the interiors of the forests. This scheme aims at converting some of the existing cart tracts intomotorable roads and also the construction of new roads. Under this scheme, upto, the end of 1979-80. improvement/metalling of 481 kms. of roads has already been carried out. It is proposed to improveroads over a length of additional 56 kms. during the Sixth Plan. It is also proposed to provide for: the construction of 5 godowns to increase the storage capacity of grass. Forest subordinates are entitled to rent free residential quarters in remote places: Upto the end of 1979-80, about 2000 quarters were constructed and it is proposed to construct about 300 quarters for the forest subordinates during the Sixth Plan 1980-85.

Wild Life Preservation

1.10.3.15. A number of wild life sanctuaries and national parks have been established/expanded all ever the State for the proper protection, preservation and development of the rare and valuable wild life species such as asiatic lion, wild ass, black buck, chinkara, wild fowl etc. This includes the Gir sanctuary-cum-national park, wild ass sancturary of Kachchh, Velavadar national park, Nalsarovar bird sanctuary etc. It is proposed to accelerate the wild life preservation activities during the Sixth Plan 1980-85.

Community Forestry Project (World Bank assisted Project)

1.10.3.16. The objects of this scheme are to:

- (1) meet the most urgent requirements in forest produce of the rural plantations in the shortest time possible,
- (2) induce the village communities to actively participate in the plantation programme through appropriate extension and sharing of plantation benefits, and
- (3) provide additional labour opportunities particularly to the landless workers.

This project has started since November, 1979 and become operative from 1980-81 at an estimated cost of about Rs. 62 crores with the assistance of the world Bank over a period of five years i.e., 1980 to 1985. The project will cover the following activities (targets) during the Sixth Plan period:-

| Activity | Target 1980–85 |
|------------------------------------|-------------------|
| Strip Plantations | |
| Road side | 31,600 ha. |
| Canal banks | 2,000 ha. |
| Railway side | 3,400 ha. |
| Village Woodlands | |
| Irrigated | 2,880 ha. |
| Rainfed | 34,560 ha. |
| Forest Areas | |
| Reforestation of degraded forests. | 30,000 ha. |
| Tree Farms | |
| Plantations in Malki lands | 1,000 ha. |
| Seedlings for farm forestry | 1,500 lakhs |

Schemes benefitting the Tribals:

1.10.3.17. Various schemes are proposed to be continued for the welfare of tribals who depend on the forest for employment, housing, fodder, natural food etc. during the Sixth Plan 1980-85. These are providing amenities to forest labourers' co-operative societies, giving tagavi loans to the cultivators, welfare of kotwalias, opening/expansion of foodgrain banks, mobile shops, firewood depots, seed banks etc. Necessary share capital contribution will also be paid to the Gujarat State Forest Development Corporation for expanding its activities to ensure fair wages to tribals and augmenting the production of forest products.

STATISMENT

FORESTS

List of schemes included in the Sixth Five Year Plan, 1980-85.

(Rs. in lakhs).

| Sr. | No. at | nd Name of the Scheme | | Sixth Five Year Plan | an, 1980-85-Outlays |
|---------|-----------------|---|-------------------------|----------------------|---------------------|
| No. | | | | Total | Capital |
| 1 | | 2 | | 3 | 4 |
| i. Dire | ction & A | Administration. | | | |
| 1. | FST-1 | Appointment of Jodi Guards. | | 22.20 | •• |
| 2. | FST-2 | Establishment. of Mobile Squads | | 32.60 | |
| 3. | FST-3 | Establishment, of Mobile Court | | 13.40 | •• |
| 4. | FST-4 | Vigilance Squad. | | 17.00 | • • |
| 5. | FST-5 | Planning & Statistical Cell. | | 25.10 | |
| | | | Total:—I | 110.30 | •• |
| I. Reg | earch. FST-6 | Forest Research. | Total: II | 41.00 | |
| II. Ed | uçation & | Training. | | the wife of the or | 77.33 |
| | FST-7 | Training of Staff. | | 149.00 | •• |
| 8. | FST-8 | Estt. of Wood Workohop-cum-Production-or Centre at Waghai. | um-Carpenter's Training | 4.00 | •• |
| | | | Total:—III | 153,00 | •• |
| V. Fo | resi Conse | rvation & Development. | | | |
| 9. | FST-9 | Soil & maisture conservation & Afforestati | on in Denuded areas. | 426.20 | 426.20 |
| 10. | FST-10 | Afforestation of Desert Rorders. | | 82.10 | 82.10 |
| 11. | FST-11 | Arresting Advancing Salinity in Ceastal tra- | ot of Saurashtra. | 122.60 | 122.60 |
| V. Pla | ntation Sci | hemes. | Total: IV | 630.90 | 630.90 |
| | | Plantation of Fast Growing Species. | | 172.10 | 130.00 |
| | | Economic Plantation. | | 287.70 | •• |
| | | Plantajion on Coastal Border. | | 91.70 | 60.00 |
| 15. | FST-15 | Irrigation Plantation. | | 82.3 0 | 82.30 |
| 16. | FST-16 | Energy Plantation, | | 23.60 | 23.60 |
| | | | Total:—V | 657.4 0 | 295.90 |
| VI. Fa | ırm Forest | ry | | | |
| 17. | FST-17 | Farm Forestry. | | 128.60 | 128.60 |
| 18. | FST-18 | Behabilitation of Degraded Farm Lands. | | 57.9 0 | 57.90 |
| 19. | FST-19 | Malki Teak Plantation. | | ,2.20 | •• |
| | | | Total:—VI | 188.70 | 186.50 |

| l | 9 | 2 | | 3 | 4 |
|-------------|-------------------|--------------------------------------|--------------------------------|---------------|---------|
| I. C | ommunicat | ion and Buildings | | | |
| 20. | FST-20 | Davelopment of Communication. | | 23.3 0 | 23.30 |
| 21. | FST-21 | Construction of Grass Godowns. | | 16.00 | 16.00 |
| 22 | . FST-22 | Construction of Buildings. | | 140.00 | 140.00 |
| | | | Total: VII | 179.30 | 179.30 |
| ai. | Preservation | of Wild Life. | | | |
| 23. | F3T-23 | Wildlife Management and Conservation | n. | 104.70 | •• |
| 24 | . FST-24 | Establishment of Safari Park. | | 18.70 | |
| 25 | . FST-25 | Zooliogical and Public Garden. | | 5.50 | •• |
| 26 | . FST-26 | Establishment of Sanctuary at Jesson | · . | 17.50 | |
| 27 | . FST-27 | Establishment of National Park at B | ansda. | 15.30 | •• |
| 28 | . FST-28 | Asiatic Lions in Barda Forests. | | 40.00 | •• |
| 28 | . FST-29 | Establishment of Natural History M | useum at Gandhinagar. | 40.00 | •• |
| 30 | . FST-30 | Introduction of Black Buck in easter | rn part of Gir Forests. | 1.00 | . 5. |
| 31 | . FST-31 | Holding Nature Education Camp at | Hingolgadh. | 8.40 | •• |
| 32 | . FST-32 | Establishment of Marine National Pa | rk. | 40.00 | •• |
| 33 | . FST-33 | Establishment of Flamingo Sanctuary | in little runn of Kachchh. | 2.80 | •• |
| 34 | . FST-34 | Crocodile Breeding. | | 2.60 | • |
| 38 | . FST-35 | Establishment of Chinkara Sanctuary | at Narayan Sarovar in Kachchh. | 12.00 | • |
| 36 | 6. F3T-36 | Introduction of Wild Fowls in Dang | s Forests. | 1.50 | • |
| | | | Total:—VIII | 310.00 | # · |
| x. 1 | Extension. | r | | | |
| 3' | 7. FST-37 | Community Forestry Project (World | Bank assisted project) | 6186.00 | 6186.00 |
| 3 | | Plantation at Nalia/Bhuj, Kandala, | | 0.40 | 0.40 |
| | | | Total:—IX | 6186.40 | 6186.40 |
| ζ. № | (anagement | of Zamindari. | | | |
| 3 | 9. FST_39 | Acquisition of Private Forests. | Total:—X | 40.00 | 12.0 |
| KI. (| Other Exper | diture | | | |
| 4 | 0. F ST-40 | Demarcation and Survey. | | 39.80 | |
| 4 | 1. FST-41 | Improved Logging. | | 2.20 | |
| 4 | 2. FST-42 | Fire Protection. | | 24.70 | • |
| 4 | 3. FST-43 | Establishment of Checking Naka | J. | 22.50 | |
| 4 | 4. FST-44 | Forest Publicity. | | 19.60 | |
| | 5. FST-48 | Development of Victoria Park. | | 9.00 | |
| 4 | | | | | |
| | 6. FST-4 | Development of Botanical Garden. | | 11.00 | • |

| 1 | | 2 | | 3 | 4 | , . |
|-------------|--------|---|---------------|---------|---------|-----|
| 48. | FST-48 | Tagavi Loans. | | 4.10 | •• | 1. |
| 49. | FST-49 | Kotwalia's Welfare. | | 22.10 | •• | |
| 50. | FST-50 | Establishment of Grain Bank & Mobile Gra | in Slope | 4.50 | 4.50 | |
| 51. | FST-51 | Opening of Firewood Depots. | | 40.00 | •• | |
| 52. | FST-52 | Establishment of Seed Bank. | | 12.70 | •• | |
| 53. | FST-53 | Expansion of Saw Mill at Waghai. | | 5.00 | | |
| 54 . | FST-54 | Share Capital contribution to G.S.F.D.C. | | 31.00 | 31.00 | |
| 55. | FST-55 | Van Rakshak Dal. | | 3.90 | •• | |
| 56. | FST-56 | Development of Forest Settlement. | | 1.00 | •• | |
| 57. | FST-57 | Polythene bags manufacturing unit. | | 28.70 | | |
| 58. | FST-58 | Kabirvad. | | 0.90 | | |
| 59. | FST-59 | Development of Adivasi Children. | | 0.60 | •• | |
| 60. | FST-60 | Fodder Bank in Tribal Area. | | 5.10 | | |
| 61. | | State Share for Centrally Sponsored Schemes | | 189.00 | •• | |
| 62. | | Nucleus Budget. | | 25.00 | •• | |
| | | | Total:XI | 503.00 | 35.50 | |
| | | | GRAND TOTAL:— | 9000.00 | 7526 50 | |

1.11. INVESTMENT IN AGRICULTURAL FINANCIAL INSTITUTIONS

- 1.11.1.1. Progressive institutionalisation of the agricultural credit is the strategy adopted in the field of agricultural credit. The long term finance is provided to the agriculturists by Gujarat State Coop., Land Development Bank for construction of wells, repairs or deepening of old wells, pump sets(engines and motors), tractors, purchase of occupancy rights under the Land Refroms Act and other miscellaneous purpose.
- 1.11.1.2. The State Govt, is articipating in lending programme of the bank by making investments in its ordinary and special debentures. There was a progresive increase in the advances upto the end of the Fourth plan. But thereafter decline set in. This was due to heavy overdues at the branch level and epasequent ineligibility of branches of the bank for fresh loaning. The discussions with Reserve Bank have helped in indentifying the problems as obtaining in the short-term sector as well as long-term credit sectors. A scheme has been evolved with specific measures for relief viz., staggering of instalments upto 10 to 12 years in the short-term sector as also rephasing of instalments on the basis of identifying overdues according to their age and character for the long-term credit sectors, relief with regard to interest in general as wall as in
- principal for beneficiaries falling with in the catego of small farmers, Advasi cultivators, grant fresh credit on punctual performance etc., are i cluded as a part of the scheme.
- 1.11.1.3. Steps are being taken for boosting up t loaning programme of the Gujarat State Coop. Law Development Bank. Up to 1979-80 State Govt. h contributed Rs. 101 lakhs afor strengthening to capital base of the land development bank.

1.11.2. Programme for the Sixth Plan:

- 1.11.2.1. The total long term advances upto 197 80 is of the order of Rs. 211.80 crores. It is preposed to make additional long term advance of Rs. crores during the Sixth Five Year Plan bringing tournulative advaces to Rs. 266.80 crores. The Sta Govt. would provide support by purchasing debetures floated by the bank so as to enable it to carrout its loaning programme.
- 1.11.2.2. An outlay of Rs. 350.00 lakhs is provide for the Sixth Plan period 1980-85. Out of the total amount provided for the Sixth Plan, an amount of Rs. 40.00 lakhs will flow to the Tribal Area Su Palm 1980-85.

STATEMENT

Investements in Agricultural Financial Institutions.

List of Schemes included in the Sixth Fire Year Pian 1980-85.

(Rs. ir. lakhs)

| Sr. No. | Number and Name of the scheme. | Sixth Five Year | Plan outlay 1980 8 |
|------------|--|-----------------|--------------------|
| 140. | | Total | Capital |
| 1 | 2 | 3 | 4 |
| . AG | C.I: Investment in Debentures of Gujarat State Coop. 1 | Land Dev. Bank. | |
| . Au | | | 350.00 |

1.12. MARKETING STORAGE, AND WAREHOUSING

1.12.1. Development of adequate and efficient warehousing and marketing facilities is essential for the sustained growth of agricultural production. The programme of warehousing is meant to minimise the waste of agricultural produce by providing facilities for storage on scientific lines to the Agriculturists, Traders, and Co-operatives and thereby indirectly to help stabilization of prices of agricultural products. The programme of regulated markets is undertaken to help agriculturists to secure fair prices for their products and prevent malpractices on the part of the traders.

1.12.2. Review of Progress

1.12.2.1. State Warehousing Corporation is incharge of development of warehousing facilities. The storage capacity with the State Warehousing Corporation was 73000 M. Tonnes, at the end of 1979-80. The State Government gives share capital contribution to the Warehousing Corporation. A total amount so far given is of the order of Rs. 95.50 lakhs. The Central Warehousing Corporation is also expected to contribute an equal amount by way of share capital to the Corporation.

1.12.2.2. The Agriculture Produce Market Committees consisting of elected members are in charge of the regulated markets. There were 287

regulated markets including sub-yards by the end of 1979-80, out of which 70 were in tribal area. The State Government gives loan to the Agriculture Produce Market Committee for the purchase of land.

1.12.3. Programme for the Sixth Plan 1980-85

1.12.3.1. The storage capacity for Warehousing Corporation which was 0.73 lakh tonnes at the end of 1979-80 has been proposed to be increased to 1.83 lakh tonnes by the end of Plan. The storage capacity of the Co-operatives will be raised from 3.19 lakh tonnes at the end of 1979-80, to about 3.23 lakh tonnes by the end of Sixth Plan. It is proposed to regulate 20 more markets during the Sixth Plan bringing the total number of regulated markets to 307.11 market yards will be in the tribal areas. The commodities likely to be regulated will be cotton, groundnut, wheat and bajara. A Directorate of Agricultural Marketing is proposed to be set up. The main functions: of the Directorate would be to superwise the regulated markets, to anticipate problems of marketing agri-, cultural produce, to collect market information, analyse data, give information, undertake marketing survey and research and to give timely advice to the Government on measures necessary to protect the interest of the producers. An outlay of Rs. 170.00 lakhs is proposed for this programme in the Sixth Plan.

STATEMENT

MARKETING, STORAGE AND WAREHOUSING

List of Schemes included in the Sixth Five Year Plan 1980-85

(Rs. in lakhs)

| Sr. No. | No. 2 | and Name of the Scheme | Sixth Five 1980-85 | |
|------------|----------------|---|-----------------------|-----------------|
| | | | Total | Capital |
| 1 | | 2 | 3 | 4 |
| 1. | WRH -1. | Development of Regulated Markets Loan | 35.00 | 35. 00 |
| | | Subsidy | 35.00 | •• |
| | | Total . | . 70.00 | 35.00 |
| 2. | WRH-2. | State Warehousing Corporation Share capital | 55.00 | 55. 00 . |
| 3. | WRH-3. | Establishment of Directorate of Agricultural Marketing Staff subsidy | 25.00 | # • · |
| 4. | WRH-4. | Development of Rural Markets (Old centrally sponsored scheme Subsidy | 20.00 | •• |
| | | Grand Total | 170.00 | 90.00 |

1.13. COMMUNITY DEVELOPMENT AND PANCHAYATS

1.13.1. Introduction:

1.13.1.1. Community Development Programme was first introduced in 1952 as a process designed to create conditions of economic and social progress for the whole community with its active participation and involvement and the fullest possible reliance on the communitys' initiative. It has basically the object of securing better life, both in respect of standard of living and also mode of living. Significant achievents of the Community Development Programme can be seen in the field of agriculture, public health, co-operation, education, communication, animal husbandry, cultural activities etc.

1.13.2. Review of Progress:

1.13.2.1. The entire rural area of the State was covered by 250.00 C.P.A. Units of Community Development Blocks by the end of 1963. At the commencement of the Fifth Plan 62.50 C.P.A. Units of Community Development Blocks were in Stage II and the remaining 187.50 C.P.A. were in Post Stage II. All the 250.00 C.P.A. Units of Community Development Blocks were in the Post Stage II by the end of 1976--77.

1.13.2.2. With the inception of the Panchayati Raj in Gujarat from 1st April, 1963, the second phase of Community Development viz. creation of development and democratic institutions at district, taluka and village levels to take over the responsibility of development has been ushered in. The Panchayats have been assigned vast field of development alongwith adequate powers, resources and manpower.

1.13.2.3. The programme during the Sixth Plan will comprise of the maintenance of Post Stage II Community Development Blocks, imparting training to officials and non-officials associated with Panchayati Raj Institutions. For strengthening the administration at the village level a Programme of creating additional posts of Panchayat Secretaries is also taken up.

1.13.3. Programme for the Sixth Five Year Plan 1980-85:

1.13.3.1. An outlay of Rs. 627 lakhs is proposed for Community Development Programme, the distribution of which is as under:—

(Rs. in lakhs)

| Sr. No. | Programme/Scheme | Outlay for Sixth Plan |
|------------|-------------------------|--------------------------|
| 1 | 2 | 1980—85 ——— |
| 1 0 | 1 1 t Co. Donk Chams II | |

1. Corebudget for Post Stage II Community Development Blocks. 125.00

| 1 | 2 | 3 | | | | |
|-----------|---|--------|--|--|--|--|
| 2. | Additional Posts of Panchayat Secretaries. 355.0 | | | | | |
| 3. | Training, Education and Research in Panchayati Raj. | 42.05 | | | | |
| 4. | Planning Cell for District Plans. 4.20 | | | | | |
| 5. | Gram Safai Shibir. 45.1 | | | | | |
| 6. | Block Level Agency. 8.63 | | | | | |
| 7. | Padadhikari Sammolan. | 1.25 | | | | |
| 8. | Sarvodaya. | 25.75 | | | | |
| 9. | Rural Development through Voluntary Agencies. | 20.00 | | | | |
| | Total : 1 to 9 | 627.00 | | | | |

1.13.4. Core-budget for Post Stage-II. Community Development Blocks:

1.13.4.1. The entire rural area of the State has been covered by 250.00 CPA Units of Post Stage II Community Development Blocks. There is no schometic budget for Post-Stage II Community Development Blocks. A scheme of Core Budget was introduced in the Fifth Plan to provide funds for Post Stage-II Community Development Blocks to maintain the existing level of activities and to enable them to undertake community programme and local works which are not covered under the Sectoral Programmes of the Departments. It is proposed to continue this Scheme for Post Stage-II Community Development Blocks during 1980-85 also. An outlay of Rs. 125.00 lakhs has been provided for 1980-85 at the rate of Rs. 10,000/-per CPA Unit of C. D. Blocks

1.13.5. Additional Posts of Panchayat Secretaries:

1.13.5.1. As against 12857 Village Panchayats in the State as on 31st March, 1978 10766 posts of Panchayat Secretaries are existing at the end of 1980. It would be necessary to strengthen basic minimum administrative structure of the village level by providing one Panchayat Secretary for each village Panchayat. To achieve the goal of one independent Panchayat Secretary for each Village Panchayat by the end of 1984--85, about 2091 posts of Panchayat Secretaries shall have to be created. It is, therefore proposed to create 2091 additional posts of Panchayat Secretaries during 1980-85, for which an outlay of Rs. 355.00 lakhs is provided.

1.13.6. Training, Education and Research in Panchayati Raj:

1.13.6.1. For improving the administration of the Panchayati Raj institutions the Institute of Rural Development and Panchayati Raj, Junagadh is imparting training to Officials as well as non-officials associated with Panchayati Raj Institutions. It is necessary to provide funds for hostel buildings, staff quarters and water supply facilities at this Institute. The old institute building also requires some additions and alterations. It is also proposed to continue a training course for Office bearers of District Taluka Panchayats and Panchavats. Panchayats under the auspices of Gujarat Pradesh Panchayat Parishad, Gandhinagar. An outlay of Rs. 42.05 lahls has been provided for this scheme.

1.13.7. Gram Safai--Shibirs:

1.13.7.1. In order to encourage people in rural areas for maintaining cleanliness and public health through better sanitation and to provide the facilities like sockage pits, smokeless chulas, bath rooms, ventilations, latrines etc. Gram Sıfai Shibirs are organised by Taluka Panchayats with the Participation of village people and village youths, official functionsaries and University students. Panchayats provide financial help in organising such shibirs from their own funds. It is targetted to organise 940 such shibirs (One shibir per year per taluka for five years during 1980-85. This Scheme is to be continued during the Sixth Five Year Plan with an outlay of Rs. 45.12 lakhs.

1.13.8 Planning Cell for District Plans:

1.13.8.1. Having regard to the need for ensuring better co-ordination and supervision as also for guiding, and helping the Panchayati Raj Institutions in forlmulating Plan programmes and watching, reviewing and monitoring programmes implemented at the district level a special planning cell has been created in the office of the Dovelopment Commissioner. It is proposed to continue and strengthen the Cell during the Sixth Plan for which an outlay of Rs. 4.20 lakhs has been provided.

1.13.9. Padadhikari Sammelan:

1.13.9.1. The objective of the Scheme is to create active interest among the non-officials associated with Panchayati Raj and to increase their knowledge and familiarise them in the sphere of administration, general rules and regulations, planning etc. For the efficient working of the Panchayati Raj Institutions such Sammelans are held at the district level. For District level Sammelan Rs. 30/- per delegate is paid for the duration of 2 to 3 days session. The total number of participants is to be 100. Contingency grant of Rs. 200/- per Sammelan is also allowed. For State level Sammelan the number of delegates is 200 for 2 to 3 days and Rs. 50/- per delegate is

provided with contingency grant of Rs. 500/- per Sammelan. The participants are selected from among the Sarpanchas and Panchayat mambers as well as representatives of Social Organisations. An outlay of Rs. 1.25 lakhs has been provided for this scheme during the Sixth Five Year Pla.

1.13.10. Block Level Agencies:

1.13.10.1. The High Level Committee Rikhavdas Shah Committee) on Pachayats has also recommended creation of a Post of Assistant Taluka Development Officer in talukas having a population of more tha two lakhs keeping in view the need for administrative strengthening of the taluka level in order to supervise and co-ordinate all the programmes implemented in the taluks. The State Government has in the first instance created 13 posts of Assistant Taluka Development Officers in the talukas having population exceeding two lakhs viz. (1) Kheralu (2) Vijapur (3) Gandhinagar (4) City Taluka-Ahmedabad (5) Nadiad (6) Anand (7) Petlad (8) Borsad (9) Kapadwanj (10) Godhra (11) Santrampur (12) Devgadh-Baria (13) Navsari.

An outlay of Rs. 8.63 lakhs is provided for 1980-85 Plan to maintain the posts which are created.

1.13.11. Rural Development Participation of Voluntary Agencies:

1.13.11.1. Looking to the importance of Rural Development, the Central Govt. has given a toppriority to the programme of rural development. In addition to the official agencies the Voluntary Agencies have been invited to assist according to their capacity as well as their resources. In order to encourage them in a bigger way in this venture of rural development, the Govt. of India have incorporated two new Sections i. c. 35 CC and 35 CCA in the Income Tax Act, 1961 according to which the expenditure incurred on the programme of rural development would be deductable in the process of computing the income of the applicant voluntary agency. The programme of rural development is to be executed subject to the prior approval of the prescribed authority State Level Committee, which consists of the Commissioner of Income tax as Chairman and a Special Secretary to the Govt. of Gujarat as a member.

1.13.11.2. The State Govt. has also paid special attention to the programme of Integrated Rrural Development undertaken by voluntary agencies. A high-powered Committee under the Chairmanship of Hon. Governor to formulate general policy guidelines, has been set-up.

1.13.11.3. A Special Cell at Ahmedabad namely Integrated Rural Development Programme created under the Agriculture, Forests and Cooperation Department is functioning for monitoring and liaisoning the rural development activities being

undertaken by Voluntary Agencies. The Cell also guides the Voluntary Agencies in the preparation of projects, in selection of villages and also in scrutinising the applications sent to the State Level Committee.

1.13.11.4. The programme is entirely implemented by Companies, Trusts, Co-operatives etc. Upto March

1980 about 81 institutions have got approval of their rural development program and adopted 1475 villages of the State.

1.13.11.5. In order to carry out the activities of the Cell, an outlay of Rs. 20 lakhs is proposed for the Sixth Five Year Plan 1980-85.

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Community Development and Panchayats

List of schemes included in the Sixth Five Year Plan 1980-85

| | | ····· | | (| (Rs. | in lakh.) | |
|----|-----------------|---|-------------|----------------|---------------|-----------|----------------|
| Sr | | and Name of the Scheme | Sixth Five | Year outlay | | 1980-85 | |
| No | 0. | | | Total | | C | apital |
| 1 | | 2 | | 3_ | | | 4 |
| 1 | CDP-1 | Planning Cell for District Plan. | | 4 | .20 | | |
| 2 | $\mathrm{CDP}2$ | Training, Education and Research | | 42 | 2.05 | | 14.46 |
| 3 | CDP-3 | Additional Posts of Panchayat secretaries | | 355 | 5. 0 0 | | •• |
| 4 | CDP-4 | Community Development | ** | 125 | 5.00 | | •• |
| 5 | CDP-5 | Sarvodaya | | 25 | 5.75 | | •• |
| 6 | CDP-6 | Rural Development Undertaken by Volunta | ry Agencies | 20 | 0.00 | | • •. |
| 7 | CDP-7 | Gram Safai Shibirs | | 48 | 5.12 | | # 14700 |
| 8 | C DP -8 | Strengthening of Block Level Agencies | | ; | 8.63 | | |
| 9 | CDP-9 | Padadhikari Sammalan | | | 1.25 | | • •- |
| | | Trata | 1 : | | | | |
| | × | Tota | u | 62 | 7.00 | | 14.46 |

1.14. SPECIAL PROGRAMMES FOR RURAL DEVELOPMENT

main thrust of the development activities is on rural development, providing employment through investments in infrastructure and social over heads for eradication of poverty and improving the quality of life. In addition to the outlays proposed in the sectoral programmes benefitting the rural areas, specific provision is also made for Special Programmes which would largely aim at assisting the rural poor. An outlay of Rs. 14407 lakhs is proposed for the Sixth Five Year Plan 1980-Major elements of this programme are (1) Works programme for creating supplementary employment opportunities through National Rural Employment Programme, (2) Resource and income development for the rural poor through Integrated Rural Development, (3) Special area development programme through Drought Prone Area and Desert Development Programme, (4) Abhinav Gram Nirman Karyakram etc. The programmewise details of the outlays are as under:-

(Rs. in lakhs)

| Sr. No. | | ixth Plan 1980—85 Outlay. |
|------------|--|------------------------------------|
| 1 | 2 | 3 |
| 1. | Integrated Rural Development | 3815 |
| 2. | National Rural Employment Programme. | 4500 |
| 3. | Drought Prone Area Programme (including Desert Development Programme). | 1950 |
| 4. | Antyodaya. | 492 |
| 5. | Block Level Planning for Employment. | 700 |
| 6. | Strengthening and Supporting Spec Programme Organisation. | oial 500 |
| 7. | Local Development Works Programme. | 1250 |
| 8. | Abhinav Gram Nirman Karyakram | 1050 |
| 9. | Off-season Unemployment Relief Works. | 150 |
| | Total | 14407 |

An outline of each of the above programmes is given in subsequent paragraphs.

1.14.1. Integrated Rural Development programme.

1.14.1.1. A new programme for integrated development aiming primarily at assisting the rural poor under the programmes for Integrated Rural Development has been launched as a Central scheme in this State from the year 1978-79. The Government of India allotted 100 blocks at the beginning of the programme i.e. from the year 1978-79. During the second year of the programme, 3 more blocks were added and, thus, 103 blocks were functioning in the State under the programme. From the October, 1980, i.e. the first year of the Sixth Five Year Plan, the entire State, comprising of 218 Blocks, is covered under this programme and earlier similar programmes of SFDA, SFAL merged into it.

1.14.1.2. The main objectives of the programme are to raise families in the identified target groups above the "poverty line" and to create substantial additional opportunities of employment and income in the rural sector. In fact, the programme is to be seen as an instrument for achieving some of the major objectives of the Sixth Plan. The target groups consist of the poorest among the poor in our rural areas, small and marginal farmers, agricultural and non-agricultural labourers, rural artisans and craftsmen, many of whom would be belonging to scheduled castes and scheduled tribes. The anti poverty objective of the IRD programme is proposed to be achieved by enabling the poorest families to acquire productive assets, technology and skills as would make their economic activities viable.

1.14.1.3. Originally, this programme was started from the last quarter of the year 1978-79 as a fully central sector programme. There after, from the year 1979-80 and onward, the pattern of financial assistance for this programme has been changed to 50:50 as Central and State shares. During the Sixth Plan, this pattern of financial assistance will be continued. During the year 1978-79 and 1979-80 the programme has benefitted 24734 and 75,000 rural poor families respectively.

1.14.1.4. The programme in the blocks would be implemented by the staff of the DPAP/SFDA/SFAL Agencies already established in every district of the State. With the special integration of the programmes, the Agencies implementing them are uniformly designated as "Rural Development Agencies" in all the Districts of the State. The Rural Development Agencies in each District will be expected to draw up a development plan for each Block which by drawing up resources available from various schemes and institutions, which would consist of exploita

tion of the opportunities available in the block area and also development of the rural households depending upon the background and need of individual hoseholds. The Block Plan would also include the setting up of activities such as Dairies which would support the individual poor households and the arrangement for meeting their credit requirements through Binks.

Programm: for the Sixth Five Year Plan-1989-85.

- 1.14.1.5. From the 2nd October, 1980 this programme is being implemented in all the Blocks of the State and as suggested by the Government of India each Block of the State will be allotted Rs. 5/- lakhs to be shared equally by the State and Central for the year 1980-81, Rs. 6/- lakhs for the year 1981-82 and Rs. 8/- lakhs for the remaining three years of the Sixth Plan.
- 1.14.1.6. An outlay of Rs. 7630 lakhs is envisaged for the Sixth Plan to be shared equally by the Centre and the State. Therefore, State Plan provides for an amount of Rs. 3815 lakhs as State's share, About 5.50 lakh identified families of the rural poor at the rate of 600 families per Block per year are likely to be benefitted under different schemes as will augment their income.

1.14.2. National Rural Employment Programme.

- 1.14.2.1. National Rural Employment Programme, introduced in November, 1980 has replaced the Food for Work scheme and has become the part of Sixth Five Year Plan. The Programme will have the following objectives:—
- (i) generation of additional gainful employment for the unemployed and under employed persons both men and women in the rural areas;
- (ii) creation of durable community assets for strengthening the rural infrastructure, which will lead to rapid growth of rural economy and steady rise in the income levels of the rural poor;
- (iii) improvement of the nutritional status and the living standards of the rural people.
- 1.14.2.2. Under the new programme, the Central Government will make available, depending upon available stocks, foodgrains free of charge and cash grants in the ratio of 2:1. The foodgrains will be distributed to the labourers as a part payment of wages not exceeding 2 Kgs per head per day. The central and the State will share the programme cost on 50; 50 basis.
- 1.14.2.3. All on going Plan/Non Plan schemes as well as new item of the schemes which result in the creation of durable community assets in rural areas, will fall within the perview of this programme. The community works like rural roads, medium and

minor irrigation works, flood and drainage works, soil andwater conservation, plantation, school buildings, drinking water wells, village ponds etc. can be taken up under the programme.

- 1.14.2.4. The programme is basically aimed at providing employment to the rural poor, raising their economic status, generating community assets thereby strenthening the rural infrastructure. Though the Rural Development Agency of the District will be in charge of the programme, Panchati Raj Institutions will be intimately involved in the implementation of the programme. A State Level Streering Committee headed by the Chief Minister will look after the overall progress in the implementation of the programme, while a District Level Steering Committee will be in charge of planning and execution of the programme, determine the allocation of the resources to the blocks/panchaya's and official agencies executing the work in the districts.
- 1.14.2.5. During the year 1980-91, 22,500 Mts of foodgrains and Rs. 287.90 lakhs of cash grants are allotted to the State Government under the programme. The new programme has been introduced by Government of India since November, 1980. Before that the State Government had already utilised about 22,500 Mts of foodgrains. Hence new programme will be implemented from 1981-82 in the State.
- 1.14.2.6. This programme will be implemented in accordance with guidelines of Government of India during the Sixth Five Year Plan. An outlay of Rs. 90 crores is envisaged for this programme, to be shared equally by the Centre and the State. Accordingly, State Plan provides an amount of Rs. 45 crores as State Share. As a result of implementation of the programme, employment potential of about 975 lakh mandays is likely to be generated during Sixth Five Year Plan.

1.14.3. Drought Prone Areas Programme.

- 1.14.3.1. The programme aims at mitigation of the effects of drought through integrated area development in agricultural and allied sectors of the rural economy. The strategy is to improve the economy of these areas through a package of infrastructural and on-farm development activities with the objective of optimum utilisation of land, water, human and livestock resources of the selected areas. The main thrust of the efforts is in the direction of restoration of a proper ecological and occupational balance in the areas. The main programme components are:—
 - (i) Development and management of water resources;
 - (ii) Soil and moisture conservation measures;
- (iii) Afforestation, with special emphasis on social forestry and farm forestry;
- (iv) Development of pasture lands and management of sheep development.;

- (v) Livestock development and dairy development;
- (vi) Restructuring of cropping pattern and changes in agronomic practices; and
 - (vii) Development of subsidiary occupations.
- 1.14.3.2. The programme is in operation in 41 selected talukas of the ten district of Ahmedabad, Amreli, Banaskantha, Bhavnagar, Jamnagar, Kachchh, Mahesana, Panchmahals, Rajkot and Surendranagar.

Programme for Sixth Five Year Plan 1980--85

1.14.3.3. The pattern of central assistance during Sixth Plan continues to be on 50:50 matching basis. Annual financial allocation is Rs. 15 lakhs per taluka. As 41 taluks of the State are covered under the programme, a total annual allocation comes to Rs. 615 lakhs. A total programme of Rs. 3075 lakhs is thus to be provided of which the State share is of Rs. 1537.50 lakhs. Main highlights of financial and physical programme are as under:—

| Sr. | | Outlay Stat | | re Physic | al targets | |
|-----|---------------------------------------|------------------|-------------|---|------------|----------|
| No. | 2 | (Rs. in lakh | ra) | Item 4 | Unit 5 | Target 6 |
| 1. | Minor Irrigation | 983.30 | (1) | Direct irrigation potential | Hect. | 10289 |
| 2. | Afforestation | 406.16 | (2) | Indirect irrigation potential | Hect. | 10461 |
| | | | | (i) Current Plantation | Hect. | 21045 |
| | | | | (ii) Soil and Moisture conservation. | Hect. | 500 |
| 3. | Soil Conservation | 362.10 | (1) | Area Covered under S. C. measuries | Heot. | 18525 |
| | | | (2) | Farm Ponds | No. | 1280 |
| 4. | Drinking Water Sup | pl y 1.00 | 1 | Water supply Scheme to be contd. | No. | 2 |
| 5. | Animal Husbandry and Dairy | 715.93 | (1) | Estt. of Milk Co-operative Socieites. | No. | 435 |
| | | | (2) | Supply of Milch animals | No. | 4785 |
| | | | (3) | Sheop Societies | No. | 26 |
| | | | (4) | Chilling/cooling Plants | No. | 9/2 |
| 6. | Agriculture | 28.00 | (1) | Domonstration | No. | 107 |
| | | | (2) | Supply of Improved Agricultural Implements | No. | 780 |
| 7. | Co-operative and Credit Management | 4.52 | (1) | Subsidy for enrolment of new members from SF/MF | No. | 350 |
| | | | (2) | Share Capital loan to SF/MF | No. | 1641 |
| 8. | Organisation and | 395.36 | | | | |
| | Management Uncommitted | 178.66 | | | | |
| | | 3075.00 | | | | |

Desert Development Programme:

1.14.3.4. The main objective of this programme is integrated development of the desert areas by increasing the productivity, income level and employment opportunities for the inhabitants through optimum untilisation of physical, human, livestock and other biological resources. While striving to achieve this ultimate objective, the programme would emphasise prevention of further deterioration of the desert areas and arrest the spread of desertic conditions. The pattern of central assistance is 50%.

1.14.3.5. The programme was introduced in the State in 1977-78 and is in operation in the following eleven talukas of the State.

| Sr. No. | District | Taluka |
|------------|-------------|--|
| 1. | Banaskantha | 1. Deodar 2. Tharad 3. Kankrej 4. Radhanpur 5. Santalpur 6. Wav |
| 2. | Mahesana | 1. Sami 2. Harij |
| 3. | Kachehh | Abdasa Nakhtrana Lakhpat. |

Programme for the Sixth Plan-1980-85

1.14.3.6. According to the present indications, an outlay of Rs. 825 lakhs is envisaged for eleven talukas under this programme for Sixth Plan period. The State share is of Rs. 412.50 lakhs. The preparation of draft plan for Sixth Plan period is entrusted to the DPAP Agencies.

1.14.4. Antyodaya

1.14.4.1. The State Government had launched the Antyodaya Programmes from 1st May, 1979 for the upliftment of the poor families in rural areas. In view of the introduction through out the State of the Integrated Rural Development Programme with similar objectives, an outlay of Rs. 492 lakhs for the economic programmes benefitting 20,000 families is provided in the State's Sixth Plan.

1.14.5. Block level Planning for Employment

1.14.5.1. Keeping in view the magnitude of the problem of unemployment and underemployment and the need for a suitable action programme, 20 talukas were selected for comprehensive block level planning for employment generation during the year 1978-79. 20 more talukas were added during the year 1979-80.

- 1.14.5.2. The work of preparation of Block level Plan was entrusted to the Voluntary Agencies and other institutions for undertaking the socioeconomic survey in the selected talukas, compile an inventory of skills and resources available in the talukas and prepare a comprehensive block level plan indicating viable projects for employment intensive programme.
- 1.14.5.3. On account of introduction of IRD Programme in all the Blocks of the State no new talukas are to be added under this programme during the plan period. During the Sixth Five Year Plan 1980-85 efforts would be made for undertaking suitable schemes which would create favourable conditions generating forces for increased income and employment in the selected 40 talukas. An amount of Rs. 700 lakhs is proposed for the Sixth Plan.

1.14.6. Strenghening and Supporting Special Programme Organisation:

1.14.6.1. The development projects for small farmers and agrricultural labourers on pattern of central sector SFDA/MFAL projects had been started by State Government since 1974-75. Now, since IRD Programme is being implemented in the whole State with effect from 2nd October 1980 no need is felt for continuance of the State Programme during the Sixth Plan. However, the provision for additional field level staff at taluka and village level is required to be made so as to enable the Agencies to effectively implement the special programmes particularly IRD programme which is now extended to all the parts of the State. Besides this, it is also contemplated to undertake study and research for IRD and other special programmes for rural development and to organise seminar and workshops as and when necessary for implementation of rural development programmes smoothly and effectively. More over, for the wider publicity of this programme, it is considered necessary to employ various media which would create awareness about the programme.

1.14.7. Local Development Works Programme

1.14.7.1. The Local Development Works Programme was being implemented during the earlier Five Year Plans. It was designed to enthuse interest in the Plan Programme among vide sections of community and to draw forth local initiative. It had received encouraging response from the local bodies and the people but had suffered dilution with the revision of the Community Development Programme in 1959. With the establishment of Panchayati Raj in April 1963, a number of district level schemes have been transferred to the Panchayats which also resulted in relegating the programme to the background.

1.14.7.2. In view of the emphasis on rural development particularly rural infrastructure and generation of large employment opportunities in rural areas, it was considered necessary to review the Local Development Works Programme in reoriented form on a large scale in rural areas. The programme was designed to achieve the important objective of encour-

aging intiative and participation and involvement of Panchayati Raj bodies in the process of planning and implementation. The programme provides employment opportunities to the needy in the rural works through investments in infrastructure and social overheads. Accordingly, a suitable programme was formulated and introduced in the State during 1978-79.

1.14.7.3. With the introduction of National Rural Employment Programme and the Integrated Rural Development Programme, the programme content of the Local Development Works will be suitably integrated during the course of the Sixth Plan.

1.14.8. Abhinav Gram Nirman Karyakram

1.14.8.1. The programme of Abhinav Gram Nirman envisages to provide basic civil amenities in the villages viz., (1) construction/conversion of latrines with biogas linkages, (2) improvement of houses with roof tops, smokeless chulas, ventilation. bathrooms etc., (3) stone/brick paving of the streets with water drain, and (4) cultural community centre cum-work place etc. The programme has generated unprecedented enthusiason among the people and has raised good deal of hope and aspirations among the people of the rural areas of the State. The programme is extended to all the 16221 villages in the State having population of 200 and above. Under this programme, varying amount of assistance is provided to villages in different population ranges. The villages are categorised as having population of 200 to 1000, 1000 to 2000 and 3000 and above which

are given grant of Rs. 30,000/- (Rs. 10,000 per year), Rs. 50,000 (Rs. 15,000 for first and second year each and Rs. 20,000 for the third and last year) and Rs. 1,00,000/-(Rs.30,000 for the first and second years each and Rs. 40,000 for the third and last year). Up to the end of 1979-80, 1700 villages were covered under this programme. An outlay of Rs. 1,050.00 lakhs is proposed for the Sixth Five Year Plan.

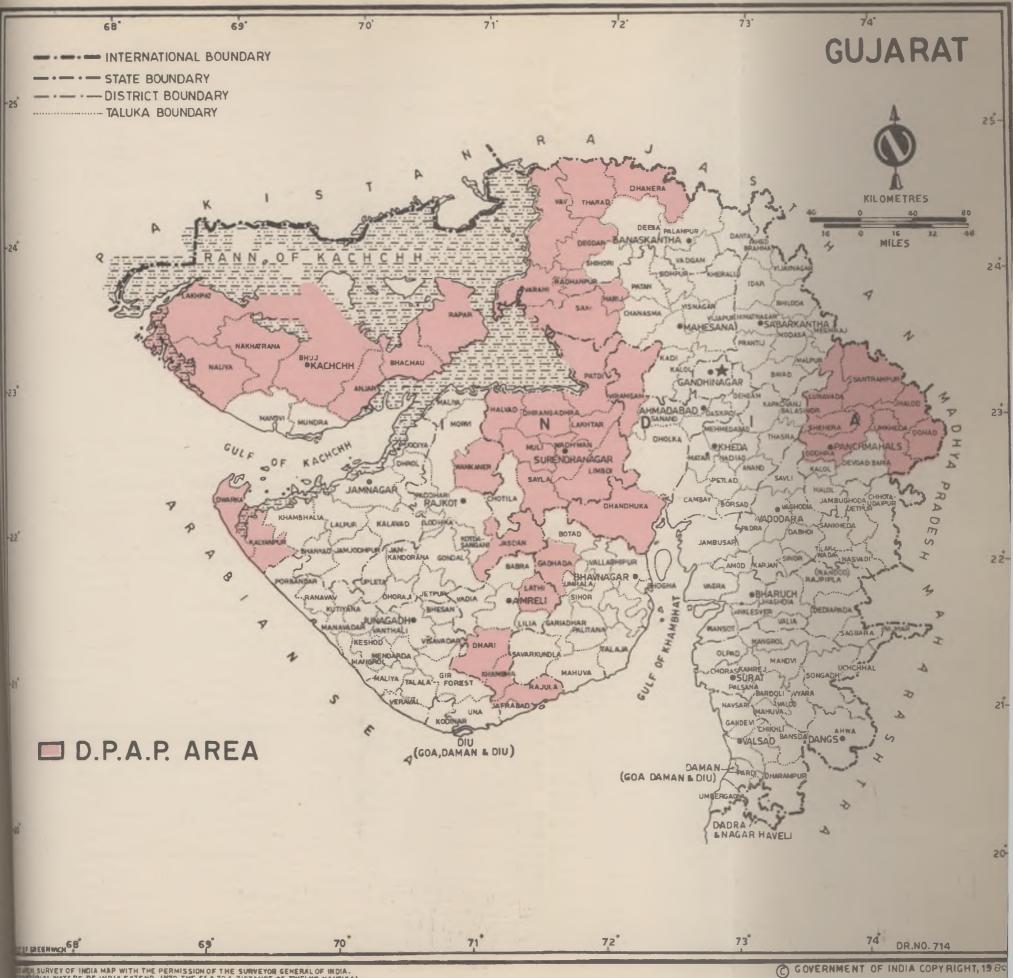
1.4.9. Off Season Unemployment Relief Works

1.14.9.1. The schmee was introduced in the year 1978-79. The aim of the scheme is to provide employment to the agricultural labourers, small and marginal farmers affected by lean agricultural situation. The scheme was introduced in the districts of Banaskantha, Panchmahals, Vadodara, Bharuch, Ahmedabad Surendranagar, Mahesana and Kheda Rajkot, in the first spell of the financial year 1978-79 covering the period from 1st April, 1978 to 15th June 1978 and 2.19 lakh mandays of employment were generated. During the second spell of the scheme commencing from 15th January 1979, Districts of Amreli, Rajkot, Panchmahals, Bhavnagar and Surendranagar were covered. Employment provided was 4.50 lakh mandays. The scheme has been introduced during the lean agricultural situation in the districts of Sabarkantha, Banaskantha, Panchmahals and Valsad with effect from 16th October, 1979.

1.14.9.2. An outlay of Rs. 150 lakhs is proposed for the Sixth Five Year Plan 1980-85, which is likely to generate employment for 15 lakh mandays.

ANNEXURE-I
List of taluka included under Drought Prone Areas Programme

| Sr. No. | District | Talukas | | | |
|------------|-------------|---|-----|---------------|---|
| 1 | 2 | 3 | _1 | 2 | 3 |
| 1. | Ahmedabad | (i) Viramgam (ii) Dhandhuk a | | | $egin{aligned} (vi) & \mathbf{Bhachau} \ (vi) & \mathbf{Anjar}. \end{aligned}$ |
| 2. | Amreli | (i) Rajula (ii) Lathi | 7. | Mahesana | (i) Sami (ii) Harij |
| | | (iii) Dhari (iv) Khambha | 8. | Panchmahals | (i) Godhra (ii) Zalod |
| 3. | Banaskantha | (i) Tharad (ii) Dhanera (iii) Radhanpur (iv) Way | | | (iii) Limkheda (iv) Dohad (v) Lunawada (vi) Santrampur (vii) Shehra |
| 4. | Bhavnagar | (vi) Santalpur (vi) Deodar. (i) Gadhada | 9. | Rajkot | (i) Jasdan (ii) Wankaner |
| 5. | Jamnagar | (i) Kalyanpur (ii) Okhamandal | 10. | Surondranagar | (i) Dasada (ii) Lakhtar (iii) Wadhwan |
| 6. | Kachchh | (i) Abdasa (ii) Lakhpat (iii) Nakhtrana (iv) Rapar (v) Bhuj | | | (iv) Muli (vii) Dhrangadhra (vi) Halwad (vii) Sayala (viii) Limbdi. |



STATEMENT

SPECIAL PROGRAMMES FOR RURAL DEVELOPMENT

List of Schemes included in the Sixth Plan-1980-85

(Rs. in lakhs)

| 8r. | No, a | nd Name of the Scheme | | Outlay-1 | 980-85 |
|----------|-------|--|------------------|-----------------|------------|
| No. | | | | Total | Capital |
| 1 | | 2 | | 3 | 44 |
| 1. | IRD-I | Integrated Rural Development Programme | | 3815.00 | |
| | | | Total | 3815 00 | |
| 2. | NEP-1 | National Rural Employment Programmes | | 4500.00 | 100 |
| | | | Total | 4500.C 0 | |
| | | (a) Drought Prone Areas Programme | | | |
| 3. | 1RD-2 | Minor Irrigation | | 491 . 65 | |
| 4. | IDR-3 | Afforestation and Pasture Development | | 203.08 | |
| 5. | IRD.4 | Soil Conservation | | 181.05 | • • • |
| 6. | IRD-5 | Drinking Water Supply Schemes | | 0.50 | |
| 7. | IRD-6 | Animal Husbandry and Dairy Development | | 359.95 | |
| 8, | IRD-7 | Agricultur• | | 14.00 | |
| 9. | IRD-8 | Co-operation and Credit Management | | 2.26 | *1 |
| 10. | IRD-9 | Organisation and Management | | 197.68 | |
| 11. | | Uncommitted | | 89.33 | |
| | | | Tetal: DPAP | 1537-50 | |
| | | (b) IRD-10 Desert Development Programme | | 412.50 | |
| | | | Total: (a) + (b) | 1950.00 | |
| 12. | ANT-I | Antyodays | | 492.00 | 492.00 |
| | | | Total | 492.00 | 492 . 00 |
| 13. | BLP-1 | Block Level Planning for Employment | | 700.00 | •• |
| | | | Total | 700.00 | - |
| 14. | SFP-1 | Strongthening and Supporting Special Programme Organisation | | 500.00 | |
| | | | Total | 500.00 | |
| 15. I | LDW-1 | Local Davelopment Works Programme | | 1250.00 | - 1 |
| | | | Total | 1250.00 | |
| 16. | AGK-1 | Abhinav Gram Nirman Karykramm | | 1050.00 | |
| | | | Total | 1050.00 | , |
| 17. | URW-1 | Off Season Unemployment Relief Works | | 150.00 | |
| | | | Total | 150.00 | <i>;</i> . |
| | | G | RAND TOTAL | 14407.00 | 492.00 |

2. CO-OPERATION

2.1. Introduction.

- 2.1.1. Co-operation is conceived to be an instrument for encouraging decentralisation and local initiative in our development process with the overall purpose of having a society based on democracy and socialism Co-operative development has, therefore continuously been accorded a significant place in the successive plans
- 2.1.2. Gujarat has a long tradition in co-operative movement. It got considerable impetus after the commencement of planning and passed through various levels of development in a way developed its own autonomous character. The movement has become diversified and is no longer confined to the sphere of agricultural credit, consumers' credit, marketing processing and storage. It has extended itself to numerous other fields of socio-economic activities. A number of co-operative federal organisations have also come up and developed
- villages by primary agricultural co-operative credit societies, the progress in certain parts is lagging behind. The number of such societies as on 30th June, 1971 wss 8438. Continous efforts are being made to make the PACs viable. This number has decreased to 7896 as on 30th June, 1978 and further to 7647 as on 30th June, 1979. During the Sixth Plan 1980-85 it is proposed to reduce the number of agricultural credit societies by 1000.

Credit Co-operatives.

- 2.1.4. Credit co-operatives perform the task of providing credit to the agriculturists to improve their economic conditions and lift them out of the vicious circle of indebtedness and exploitation for which co-operation was introduced in India in the early years of 20th cantury. For supporting the massive agricultural programme, the State tried to create strong credit structure. It consists of primary agricultural co-operatives. district central co-operatives, co-operative and State level co-operative Bank. The State's assistance to these co-operatives is in the form of loans and grants for undertaking special tasks and share capital contributions. The main programmes under the credit co-operatives are briefly detailed below:
 - (a) Outright grant is given by the State to primary agricultural credit societies at the rate

- of 4% of the additional short and medium term loans given to weaker sections (small and marginal farmers). The Co-operative Bank is given outright grant for the said purpose at the rate of 2% of the additional agricultural short term and medium term loans given to weaker sections. This amount is utilised to create a special bad debt reserve.
- (b) Share capital loan is given to PACs by Government to be passed on to the small and marginal farmers to encourage them to become members. An amount of Rs. 30 per prospective member is granted to be repaid within 2 years.
- (c) Branch subsidy to Central Co-operative Bank is given in case the Bank suffers losses in opening branches in 26 economically backward and under-developed talukas for the first 3 years based on the loans advanced by the Bank.
- (d) The State Agricultural credit relief and guarantee fund is created to serve as a strong reserve at the Government level for writing off arrears of debt due to the co-operative credit institutions when such arrears assume a magnitude which threatens stability of co-operative credit structure and when such arrears have arisen from causes such as wide-spread or chronic famine beyond the control of co-operative credit institutions concerned.
- (e) Government contributes to share capital of agricultural credit institutions viz Apex Cooperative Banks, Central Co-operative Banks, PACs so as to supplement their owned funds. It also adds strength to their capital base, to enable them to borrow adequately from higher financing institutions for carrying out the lending programme.
- (f) Agricultural Credit Stabilisation Fund is created at the Government level to give loans to the State Co-operative Bank at the rate of 15% of the conversion of the short term loans into medium term and medium term loan into rephasement and a similar fund is created at the level of Land Development Bank also.

According to the accepted co-operative discipling laid down by the Reserve Bank of India, agricultura primary co-operatives are not given fresh finance. Ho

ever, with a view to giving relief to the agriculturistmembers affected by natural calamities like drought,
floods p sts etc. stabilisation arrangements have
been introduced for the last several years. The short
term loan of the affected agriculturist members are
converted into medium term conversion loans, and
fresh finance is also given to them. If the natural
cala nities occur during consecutive year or years,
Rephasement and Re-scheduling facilities are also
being given. Thus regular members of agricultural
primaries who have been incapable of repayment
of their loans on account of natural calamities like
famine drought etc. are not necessarily treated as
wilful defaulters and the flow of co-operative credit
is kept open to them.

(g) Consumption finance to weaker sections

Risk fund to PACs and Co-op. Bank

Consequent on the steps taken by the State Government to eradicate the indebtedness of the weaker sections of the community from non-institutional sources, the State Government has decided to give consumption finance upto Rs. 500 to a member through the agricultural co-operative primaries so that their dependence on non-institutional sources for this kind of finance may be eradicated. Looking to the risk involved in advancing consumption finance to weaker sections, contribution to risk fund by the State Government to the Co-operative Agricultural Societies at 7.5% and Central finance-agencies at 2.5% of the total consumption finance provided by them to weaker section of society is granted.

- (h) Redemption of frozen debts.—Under this scheme Government grants loans to scheduled caste and small and marginal farmers up to Rs. 500 plus interest repayable in 10 annual instalments to PACs so that the debt on account of natural calamities do not prevent the flow of credit to them.
- 2.1.5. Out of Rs 240 crores outstanding at the level of primary societies, some 50 % thereof namely, Rs. 120 crores would be classified as overdues. In the long-term sector (Land Development Bank) out of outstanding of Rs 65 crores, some Rs 42 crores are overdues. The discussions with Reserve Bank have helped in identifying the problems as obtaining in the short-term sector as well as long-term credit sectors. A scheme has been evolved with specific measures for relief viz staggering of instalments upto 10 12 years in the short--term sector as also rephasing of instalments on the basis of indentifying overdues according to their age and character for the long-term credit sector, relief with regard to interest in general as well as in principal for beneficiaries falling within the category farmers, adivasi cultivators, grant of fresh credit on punctual performance etc, are included as a part of the scheme

2.2. Review of Progress

- 2.2.1. Total number of Primary Agricultural Co-operatives (PACs) stood at 7647 at the end of 1979 out of which 2535 were viable and 2735 were potentially viable and 2377 were non viable. The membership of PACs stood at 18.57 lakhs at the end of 1979-80. Of these 13.24 lakhs were estimated to belong to weaker sections. 41 Farmers Service societies and 51 LAMPs have been registered.
- 2.2 2. Short and medium term advances of PACs are estimated to be of the order of 165 crores by the end of 1979-80, out of which Rs. 13.50 crores is estimated for weaker sections.
- 2.2.3. The total loans advanced by the Land Development Bank during 1979-80 was of the order of Rs. 3.82 crores. Percentage of overdues outstanding against short term and medium term credit is 37.59 and the leng term advance is 61% in the year 1978-79. An amount of Rs. 4.66 lakhs has been spent for risk fund. 39 branches were opened by the Central Co-operative Banks in economically backward and undeveloped talukas and Rs. 7,500 is given as subsidy in the year 1979-80. Agricultural Credit Relief Guarantee Fund reached the level of Rs. 70 lakks by the end of the year 1979-80. An amount of Rs. 68 lakhs has been spent on stabilisation arrangements for the co-operatives (short term and medium term). An amount of Rs. 66.94 lakhs was contributed by Government as share-capital to the CFAs, FSS, LAMPS, PACs in the year 1979-80.

Farmers Service Societies (FSS) and Large Sizes Multi-purpose Societies (LAMPS)

- 2.2.4. By the end of the year 1979, there were 40 Farmers Service Societies registered of which 23 were in tribal areas. The total membership of these societies was 60589 of which 58849 were from Scheduled Castes and Scheduled Tribes. Total share capital of these FSS was Rs. 60.57 lakhs of which the Government share capital is Rs. 13.81 lakhs. During 1979 the lean advanced to members was Rs. 217.54 lakhs of which Rs. 7.03 lakhs were to scheduled castes and Rs. 89.99 lakhs to scheduled tribes.
- 2.2.5. By the end of 1979, there were 58 LAMPS registered in tribal areas for providing integrated credit including consumption credit, agriculture and consumer requisites and arranging for marketing of minor produce (forest), agriculture produce and other products of other ancillary occupations. The existing primary credit Societies in the areas of

FSS and LAMPS were to be amalgamated with them or liquidated to ensure the objectives of meeting the requirements of the weaker sections. The membership of those LAMPS was 42257 of which 29936 were members belonging to scheduled castes and scheduled tribes. The share capital of these 53 LAMPS was Rs. 41.32 lakhs of which the share capital contribution of Government was Rs. 5.54 lakhs. During 1979 the loan advanced was Rs. 113.27 lakhs of which Rs. 6.04 lakhs were to scheduled castes and Rs. 45.66 lakhs to scheduled tribes. At the end of 1979 the loan outstanding was to the extent of Rs. 136.39 lakhs of which loan overdues was Rs. 56.07 lakhs.

2.3. Programme for Sixth Five Year Plan

2.3.1. An outlay of Rs. 3,200 lakks is provided for the Sixth Five Year Plan 1980-85. This will be supplemented by the special central assistance for Tribul Area Sub-Plan. The broad break-up of the outlays provided for 1980-85 plan is as under.

(Rs. in lakhs)

| Sr. No. | Programme | Sixth Five Year Plan 1980-85 outlays |
|------------|--|---|
| 1. | Direction and Administration | 50.00 |
| . 2. | Credit Co-operatives | 1,952.80 |
| 3. | Labour Co-operatives | 6.00 |
| 4. | Farming Co-operatives | 5.20 |
| 5. | Warehousing and Marketing Co-operatives | 83.50 |
| 6. | Processing Co-operatives | 100.00 |
| 7. | Co-operative Sugar Mills | 500.00 |
| 8. | Consumers' Co-operatives | 40.00 |
| 9. | Co-operative Training | 109.00 |
| 10. | Other Co-operatives | 362.50 |
| | Total | 3,200.00 |
| | | |

2.3.2. The number of Primary Agricultural Societies is to be brought down to 6647 by the end of the is Sixth Plan by means of liquidation, amalgamation, reorganisation etc.

Membership for the PACs is proposed to be increased by about 50,000 every year reaching the level of 21 lakhs by the end of 1984-85. Six more LAMPs are to be organised by the end of-1984-85. Short term and medium term advances are to be increased to Es. 315 crores by the end of 1984-85; of which Rs. 23 crores is estimated to be for weeker sections. The long term advances are proposed to be increased to Rs. 55 crores by the end of 1984-85. The consumption finance to the weaker sections of the society is projected to reach the level of Rs. 300 lakhs for the Sixth Plan for which an amount of Rs 44.90 lakhs as risk fund is provided. An outlay of Rs. 250 lakhs for the sixth plan is envisaged for the scheme for Redemption of frozen debts. An amount of Rs. 50.00 lakhs towards subsidy is provided for Agricultural Relief and-Guarantee Fund and Rs. 250 lakks loan for stabilisation fund arrangement for flow of co-operative credit (short and medium term).

2.3.3. An amount of Rs. 1,139.90 lakhs for share capital contribution to agricultural credit institutions as Government share capital contribution is earmarked for the Sixth Plan. (Rs. 899 lakhs for Apex and District Co-operative Banks and Rs. 2'0.90 lakhs for Service Societies).

Labour Co-operative Societies

2.3.4. Labour Co-operatives are organised by the labourers in order to prevent exploitation by contractors and also to enable them hrough self help and by the P. W. D. authorities to earn better wag s. Government gives subsidy and share capital contribution to the societies. Government gives work contracts without inviting tenders to the labour contract societies keeping in view the classification given to the societies for this purpose. Share capital subsidy of Rs. 40 per member limited to Rs. 4,000 per society is being made available to scheduled castes members to enable them to become members of labour contract co-operatives. At the end of 1978 there were 743 societies with a total membership 48,681. This figure rose to 830c ntract societies with a total membership of 58,000 at the end of 1979. These societies have executed contract work to the extent of Rs. 726 lakks and have paid wages of Rs. 293 lakks, of which the wages to members was to the extent of Rs. 193 lakhs. The value of consumer goods distributed by the labour societies was to the tune of Rs. 4 lakks by these societies in the year 1979.

Farming Societies

2.3.5. Farming co-operative societies are established to help agriculturists with the small holdings to adopt better techniques of agricultural production

lelteraise their income. There were 371 co-operative iming societies by the end of June 1980. Out ful farming co-operatives 23 are joint farming possitives, in which the land is owned individually of the remaining 318, are Collective Farming kutes in which the ownership of the land rosts in the societies. Most of the Collective Farming media are formed on the Government waste lands dib members by and large belong to backward in The command area is estimated to be 600 histories of which net area under cultivation attented at 18,860 hoctares. The value of agribril produce is estimated at Rs. 108 lakhs for user 1979. It is proposed to organise 50 new aprative farming societies during the Sixth Five ar Plan. This sector can be said to have achvieved "mted measare of success.

firshousing, Marketing and Processing.

13.6. The Co-operative marketing structure in & State consists of the Gujarat State Co-operative liketing Society at the apax level, District purhas and sales union at the District level and Taapurchase and sales union at primary level. These spentives are engaged in the distribution of agri-Miral inputs and marketing of crops. Some marhig co-operatives are engaged in processing too. b mable the marketing societies to undertake the miass and sale of agricultural produce, the sale ilutilizers and other inputs, State Government pu share capital contribution on matching basis is subsidy for price fluctuation fund of the value the agricultural produce purchased directly from the all and marginal farmers. During 1979-80 an writef Rs. 3.28 lakhs as price fluctuation fund has angiven to the marketing co-operatives for carrying # these activities based on its purchases. Target rule of agricultural produces is estimated to be 110 crores by the end of 1984-85. The total unity of god areas of marketing societies and rural dras put together is 3.19 lakh tonnes at the end the year 1979-89. It is proposed to increa e the m to 3.35 lakh tonness by the end of the Sixth In Yoar Plan .

th. Processing co-operative Societies are thished to encourage the agriculturists to must their produce through their own co-operative cities so that their produce may fitch better in Government gives share capital on a matching into agricultural processing units.

but Factories

tts. Sugar Co-operatives are given share capital per to the extent of Rs. 160 lakhs. There are 15 co-

operative sugar factories having 90100 members in the State, out of which 13 are in production, while two are under the stage of erection viz at (i) Talaja, Dist. Bhavnagar and (ii) at Zorvavra, Dist. Surat which are likely to start functioning during 1981-82 or so. Government has so far contributed Rs. 1420 lakhs as share capital till the end of June, 1930. It is proposed to establish one or two more cooperative sugar factories during 1980-85. In order to rehabilitate the sugar industry and strongthen the base as per the recommendations of the study group under the chairmanship of Shri Baveja, it is proposed to provide financial assistance to such units. Further, it is also proposed to encourage existing sugar cooperatives to establish sugar by-product industries such as bagass and moleses in suitable area for which financial assistance is also proposed to be provided. An outlay of Rs. 500 lakhs is proposed for the Sixth Plan.

Ginning & Pressing Co-operatives.

2.3.9. At the end of 1979 there were 111 ginning and proving cooperatives—covering most of the cotten ginning areas in the State with a total mebership of 1.12 lakhs. Its share capital is estimated to be Rs. 232 lakhs of which Government share capital contribution is Rs. 21 lakhs. During 1979 the cotten ginned is estimated at 15.45 quintals and 3.58 lakh bales pressed valued at Rs. 37.50 crores.

Cooperative Rice Mills.

2.3.10. There were 43 rice mills in the State at the end of 1979-80. Five more are proposed to be organised during the Sixth Plan.

Marketing Societies.

2.3.11. There are 18 District Purchase and Sale Unions and 171 Taluka Purchase and Sale Unions in the State. Further, there are 141 other co-operativo marketing societies like cotton sale, vegetables and fruits sale soscieties etc. and the Apex Marketing Federation at the State level. Thus, there are in all 331 marketing societies. Cotton is the main eash crop of Gujarat and co-operative cotton marketing societies work on pooling system. During the last 4 years or so, the marketing and processing of groundnut on co-operative basis has developed in the Saurashtra region. Taluka Purchase and Sales Union of Gondal, Jetpur and Rajkot Lodhika have taken this activity. Further, the Apex Marketing Society has also recently entered this field having its oil mill at Rajkot.

2.3.12. The Gujarat State Co-operative Marketing Federation is the sole distributor of fertiliser of Gujarat State Fertiliser Company and of pool Fertilisers & IFFCO for distribution of fertilisers in the State. During 1979-80, it has distributed fertilisers worth Rs. 104 crores through the Co-operatives. Thus, the Co-operatives are increasingly involved in the distribution of agricultural inputs.

Consumers Co-operatives.

2.3.13. Consumers Co-operatives are meant to supply essential articles to the consumers at the fair price. These consumers co-operatives which have 50 and more members of Schedule Castes are given special benefits. The Government gives share capital contribution to the rural consumers co-operatives and other co-operatives i.e. PACs/FSS/IAMPS etc. who

undertake consumer activities in addition to the other activities. In the State, in all district End quarters and urban areas consumer stores has been organized. In rural areas, the village primars and their federations, as a matter of policy, a encouraged to undertake consumer activities in the areas.

2.3.14. Ty the cid of 1979-80, 1015 prin siyes sumers co-operatives, 24 wholesale co-operative stem and one State Federation of Consumer were organised with an estimated membership of 2.85 lakhs. The retail sales a consumer goods in urban and rural area is estimated to reach 195 crores of which Rs. 140 crores in rural areas during the Sixth Five Year Plan period. It wholesale sale by the State Level and Central who sale stores is estimated to reach Rs. 65 crores a the end of 1980-85.

STATEMENT

Co-operation.

List of Schemes included in the Sixth Five Year Plan 1980-85.

(Rs. in lakhs).

| | | | | | (rks. 1n 1akns). |
|-------------|-------------|--|----------------|---------------|------------------|
| Sr. No. | | No. and Name of the Scheme. | | Sixth Five | Year Plan outlay |
| 140. | | | • | Total | Capita l |
| 1 | | 2 | | 3 | 4 |
| I-A | Dire | ction and Administration. | | | |
| | (1) | COP-1 Expansion of Administrative and supervisory staff. | | | |
| | | (a) Staff Subsidy. | | 35. 00 | |
| | (2) | COP-2 Expansion of Statistical Staff | | | |
| | | (a) Subsidy. | | 10.00 | •• |
| | (3) | COP-3 Training of Staff. | | | |
| | | (a) Subsidy. | | 5.00 | •• |
| | | | Total:—I. | 50.00 | |
| [- B | Cred | it Cooperatives: | - | | |
| | (4) | COP-4 Village cooperatives. | | | |
| | | (a) Out Right grant (Subsidy) | | 15.00 | 0.4 |
| | | (b) Revitalisation. | | 2.00 | • • |
| | | (o) Share Capital (Loan). | | 1.00 | 1.00 |
| | | | Total-II(B)-4. | 18.00 | 1.00 |
| | (5) | COP-5 New Redemption of frozen debt. | • | e Company of | 5.6 |
| | | (a) Loan. | | 250.00 | 2 50.00 |
| | | | Sub-Total—5 | 250.00 | 250.00 |
| | (6) | COP-6 Risk fund for consumption finance. | • | | |
| | \- / | (a) Subsidy | | 3 0.00 | |
| | | (-, 3 | _ | 3 0.00 | •• |
| | | | Sub-Total-6 | 30.00 | |
| | (7) | COP-7 Central Cooperative Bank/Land Development Bank. | | | |
| | | (a) Branches (Subsidy) | | 11.40 | •• |
| | | (b) Outright grant to cooperatives. | | | |
| | | Subsidy. | | 3.50 | •• |
| | | | Sub-Total7 | 14.90 | |
| | (8) | COP-3 Agricultural Relief and Guarantee Fund. Subsidy. | _ | 50.00 | •• |
| | | | Sub-Total—8 | 50,00 | |
| | (9) | COP-9 Stabilisation fund arrangement for flow of Co-op. credit | _ | | |
| | | (Short and infedium term.) | | 950 00 | |
| | | T. APPENDS | | 250.00 | 250.00 |
| | | | Sub-Total-9 | 250.00 | 250.00 |

| | | | | | | | • | |
|-------------|------------|--------------|----------------------------------|----------------------------------|------------------|------------|---------------|-------------|
| 1 | | | 2 | | | | Total | Capital |
| (10) | COP-10 | Cred adva | it stabilisation fund to | State Co-op. Land Developme | nt Bank for long | term | | 7 |
| | | (a) | Loan | | | | 50. 00 | 50.00 |
| | | (b) | Subsidy. | | • | | 150.00 | |
| | | | | | | _ | | •• |
| | | | | 8 | ub-Total-(10). | ••_ | 200.00 | 50.00 |
| (11) | COP-11 | Shar | e Capital contribution to | o Agricultural credit institutio | ns. | | | |
| | | (a) | Share capital. | | | | | |
| | | | (1) Apex and Distr | rict. | | | 899.00 | 899.00 |
| • | | | Co-op. Bank. (2) Service Co-oper | atives. | | | 240.90 | 240.90 |
| | | | • | | | | | 240.80 |
| | | | | S | Sub-Total:(11) | ٠ | 1139.90 | 1139.90 |
| | | | | т | otal :II-B. | | 1952.80 | 1000 00 |
| III. | Labour Co | -onera | tives: | | | – | 1002.00 | 1690.90 |
| (12) | | _ | ur co-operative societies | 1 | | | | |
| () | - | (a) | Share capital | | | | 2.53 | 0 ×0 |
| | | (b) | Loan. | | | | | 2.53 |
| | | (o) | Subsidy. | | | | 3.47 | •• |
| | | (0) | Juliuy. | | | | 3.47 | • |
| | | | | Т | 'otal—(III) | | 6.00 | 2.53 |
| IV F | arming Co- | perati | ves. | | | | | |
| (13) | COP-13 | Co-op | erative Farming Socys. | | | | | |
| | | (a) | Share capital. | | | | 1.50 | 1.50 |
| | | (b) | Loan | | | | •• | |
| | | (0) | Subsidy. | | | | 3.70 | |
| | | | | η | total (TV) | , - | | |
| | | | | | otal. (IV) | ••- | 5.20 | 1.50 |
| V. W | arehousing | and M | farketing Co-operatives. | | | | | |
| . (14) | COP-14 | Apex | marketing societies | | | | | |
| | | (a) | Share capital. | | | | 6.00 | 6.00 |
| | | | | o | mb Midal 14 | | | |
| | | _ | | | ub-Total-14 | ••- | 6.00 | 6.00 |
| (15) | COP-15 | | riot marketing sooys. | | | | | |
| 662 I ± | | (a) | Share capital. | | | | 5.00 | 5.00 |
| 4- E | | | | ٤ | Sub-Total-15 | | 5.00 | 5.00 |
| (16) | COP.—16 | Prin | nary marketing societies | 3 | | _ | | |
| | | (a) | Share capital | | | | 10.00 | 10.00 |
| | | | | | 0-1 M-4-1 10 | - | | |
| | | | | 110 | Sub-Total—16 | · <u>·</u> | 10.00 | 10.00 |
| (17) | COP.—17 | | ot marketing society. G | IOGO WIE. | | | | |
| | | (a) | Subsidy. | | Cul M-4.3 4= | - | 6.25 | |
| | | | | | Sub-Total-17 | | 6.25 | •• |

| 1 | | | 2 | | Total 3 | Capital 4 |
|----------|----------------|-------------------------|----------------------------------|--------------------------------|-------------|--------------|
| (18) | COP-18- | Price flucti | uation fund. | | | |
| | (a |) Subsi | dy. | | 40.00 | 9. |
| | | | | Sub-Total—18 | 40.00 | |
| (19) | COP.19 P | rimar y m a | arketing socys. Godowns. | | | |
| | (: | a) Subs | sid y. | | 6.25 | •• |
| | | | | Sub-Total-19 | 6.25 | |
| (20) | COP.20- R | tural socys | s. Godowns. | | | |
| | (a |) Loan | • | | • | •• |
| | (1 | b) Subs | sid y. | | 10 00 | •• |
| | | | | Sub-Total-(20) | 10 00 | |
| | | | | Total -V | 83 50 | 21.00 |
| VI. P | rocessing co-c | peratives: | | | | |
| (21) | COP-21 - 0 | ther proc | essing societies. | | | •• |
| | (8 | s) Shar | e capital. | | 100.00 | 100.00 |
| | (1 | b) Subs | idy. | | | •• |
| | | | | Total VI | 100.00 | 100.00 |
| VII. (| Co-operative | sugar Fact | tories:— | | | |
| (22) | COP.22—Co. | operative | sugar factories | | | |
| | (8 | s) Shar | e Capital. | | 480.00 | 480.00 |
| | C | b) Loan | n. | | 5.00 | 6.00 |
| | (| o) Subs | sid y. | | 15.00 | |
| | | | | Total VII | 500.00 | 485.00 |
| VIII. | Consumers C | lo-operativ | 7es:— | | | |
| (23) | COP-23—Dis | stribution narketing | of consumer articles in resocys. | ural areas through village and | | |
| | (4 | a) Shar | e capital. | | 2.55 | 2.55 |
| | (| b) Loar | n. | | 1.80 | 1.80 |
| | (| o) Subs | sidy. | | 0.65 | •• |
| | | | | Sub-Total-23 | 5.00 | 4.35 |
| (24 |) COP-24-U | rban oone | rativa. | | | |
| , | (a) Share | - | · - · - · | | 14.65 | 14.65 |
| | (b) Loan. | _ | | | 13.63 | 13.88 |
| | (o) Subsi | | | | 6.52 | 19.05 |
| | | | | M. J. M. J. J. S. J. | | |
| | | | | Sub-Total (24) | 35.00 | 28.48 |
| | | | | Total VIII | 40.00 | 32.83 |
| (IX) | Education | • | | | | ÷ |
| (25) | COP-25C | lo-operativ | ve Training and education | ı . | | |
| | (a) Subsi | dy. | | | 100.00 | |
| | | | | Total (IX) | 100.00 | |
| | | | | moral (tak) | 100.00 | •• |

| 1.7 | | | Total | Capital |
|-------|---|---|---------|----------------|
| 1 | 2 | | 3 | 4 |
| (X) (| Other Co-operatives. | | 4 | |
| (26) | COP-26-Auto Rickshaw and Redda pullere. | | | |
| | (a) Share Capital | | 2.00 | 2.00 |
| | | Sub-Total-26 | 2.00 | 2.00 |
| (27) | COP-27-Transport society. | | | |
| | (a) Share Capital | | 0.50 | 0.50 |
| | | Sub-Total-27. | 0.50 | 0.50 |
| (28) | COP-28-Rural Electricity Socys. | | | |
| | (a) Share Capital | | 10.00 | 10.00 |
| | | Sub-Total-28. | 10.00 | 10.00 |
| (29) | COP-29-Share capital contribution to co-operative participation in share capital of Kribco (Hajira) b | s for contribution towards y co-operatives. | | |
| | (a) Loan. | | 350.00 | 350.0 0 |
| | | Sub-Total-29 | 350.00 | 350.00 |
| | | Total X | 362 .50 | 362.50 |
| | | Total:-Cooperation. | 3200.00 | 2696.26 |

3. WATER DEVELOPMENT (IRRIGATION)

3.1.1. Water is a crucial factor in the economy of the State. Hardly 16 % of the land under cultivation is irrigated. Agriculture in the State is a consequence highly dependent on the vagaries of the nsoon. Parts of ten districts in the State are drought prone out of a total of Nineteen districts. The State's agricultural output an the Gross Domestic Product are subject to so ere fluctuations between a good year and a drought year. Harvesting the State's water Potential and utilizing it to the

maximum are, therefore, of great importance for the development of the State.

3.1.2. Gujarat is one of the States with limited water resources. As against a national figure of 55 % for the ultimate potential for irrigation, the State has an altimate potential of only 43 %. The overall estimates of the irrigation potential of the State are given in the table below:—

| Item | | Potential estimated | Ultimate irrigation potential (Lakh hect.) |
|--|---|---------------------|--|
| | 1 | 2 | 3 |
| Surface | Waters | | |
| 1. M s | ajor and medium schemes based on surface waters (without Narmada) | 10.56 | 14.64 |
| 2. Minor schemes based on surface waters | | 1.90 | 2.49 |
| | | 12.46 | 17.13 |
| 3. Na | armada Project | 9.00 | 15.26 |
| | Total : Surface Waters : | 21.46 | 32.39 |
| 4. Bas | sed on ground waters | (1 | 18.00 Tentative.) |
| | | 21.46 | 50.39 |
| | | | |

3.1.3. As against the ultimate potential possible the status of development as on 30-6-1980 is was as under:—

| | | Item | | Harnessed potential estimated (lakh Ha.) | Utilisation (lakh Ha.) |
|---|-----|-----------------------------|-------|---|--------------------------|
| | | 1 | | 2 | 3 |
| ł | 1. | Major and Medium schemes | | 10.12 | 5.29 |
| 1 | 2. | Minor Schemes: | | | |
| | | (a) Based on surface waters | | 1.28 | 0.80 |
| | l-e | (b) Based on ground waters | | 15.53 | 13.60 |
| | | | Total | 26.93 | 19.69 |
| | | | | | - |

- 3.1.4. Whereas the harnessing of Ground Water resources is nearly 83 % of ultimate potential, the harnessing of surface water resources is only of the order of 35.2 % of the ultimate potential. Irrigation in the State is heavily dependent on ground water resources probably overdrawing in some areas, while with regard to surface water only about one third of the ultimate potential is harnessed. Therefore, in the Sixth and subsequent Plans, the emphasis will be on the development of surface water resources.
- 3.1.5. Even in the matter of utilisation of potential created by medium and major irrigation projects, there is a tremendous leeway to make. As against 10.21 lakh hectares of potential created hardly 5.29 lakh hectares are utilized which works out to just 51 %.

3.2. Review of Progress.

- 3.2.1. The Fourth Plan started with 13 spillover schemes. During the course of the Fourth Plan, the State Government had taken up as many as 49 new irrigation schemes, 5 of them major and 44 medium schemes. Two medium schemes could be completed fully and the Ukai project was put on road to completion, the dam works having been fully completed by June, 1972 and a good headway made with canal works. Altogether, 11 major and 47 medium schemes had spilled into the Fifth Plan. In the interest of consolidating the position in respect of creation of irrigation potential the State Government accorded the highest priority to expedite the completion of all schemes at an advanced stage which spilled over to the Fifth Plan. During the course of the Fifth Plan (1974-75 to 1977-78) in all 13 medium schemes were fully completed. Besides, 4 major schemes and 10 medium schemes were also substantially completed. Construction of several schemes both major and medium has been brought to such an advanced stage that with some investment in the Sixth Plan period 1980-85, the same can start yielding physical benefits early in the plan.
- 3.2.2. The overall position of irrigation development in the State is such that most of the major projects and medium projects on important rivers will be completed soon with the result that during the course of Sixth Plan, the State will have to undertake all the remaining schemes in a phased manner with the streess on optimisation of additional potential generation from the existing projects also.
- 3.2.3. The following table depicts the level of irrigation potential and utilisation in the various plan periods commencing from the First Plan.

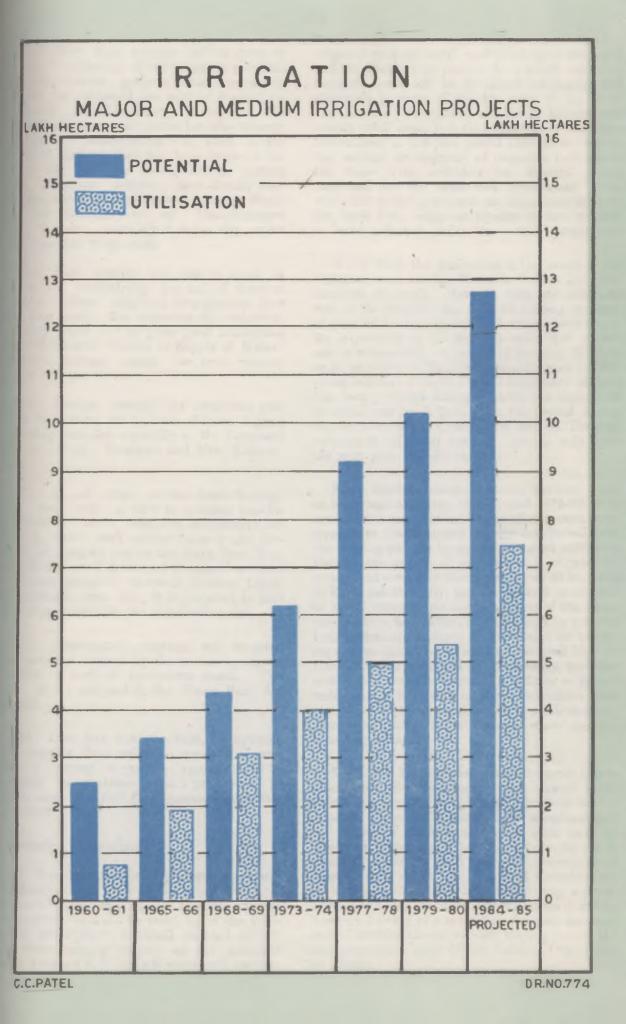
(lakh hectares)

| Sr. No. | | Irrigation potential created (after rea- ppraisal) | |
|------------|---|--|------|
| 1 | 2 | 3 | 4 |
| 1. | At the end of the First Plan (1951-56) | 0.23 | • • |
| 2. | At the end of the Second Plan (1956-61) | 2.48 | 0.66 |
| 3. | At the end of the Third Plan (1961-66) | 3.41 | 1.90 |
| 4. | At the end of the Three Annual Plans (1966–69) | 4.40 | 3.11 |
| 5. | At the hend of the Fourt Plan (1969-74) | th 6.22 | 4.01 |
| 6. | At the end of the Fifth Plan (1974-78) | 9.24 | 5.01 |
| 7. | At the end of 1978-79 | 9.53 | 5.03 |
| 8. | At the end of 1979-80 | 10.12 | 5.29 |

3.2.4. It will be seen from the above table that the tempo of irrigation development picked up in the Fourth Plan increased during the Fifth and subsequent two annual plans. It is proposed to maintain and increase the tempo of irrigation development during the Sixth Five Year Plan 1980-85.

3.3. Approach and Strategy.

- 3.3.1. Water development is one of the key sectors in Gujarat's economy. A substantial outlay of Rs. 1000 crores which represents 26.6% of the total outlay in the State Five Year Plan has been proposed in this sector.
- 3.3.2. The outlay for the various projects has been so planned that the rate of irrigation development through major and medium projects is sustained and at the same time considerable headway is made with the Narmada Project so that benefits from this project are derived progressively from the initial years of the Seventh Five Year Plan. Thus, the Sixth Five Year Plan effect has to serve as a transition from effective development of irrigation through major and medium irrigation projects other than Narmada to the realisation of benefits from Narmada Project in the Seventh Plan period. The main potential creating projects other than Narmada are expected to be essentially completed or put on way to completion during the period.



- 3.3.3. Very high proirity will be given to full utilization of the irrigation potential the created by various projects already completed. This will be achieved not only by drawing up an effective multidisciplinary strategy for full utilization of irrigation water but also through modernization. A start in the comprehensive direction of modernization has been made by the State in the last few years. Eleven existing schemes have already been mediumirrigation taken up under this programme through World Bank Aid. Modernization of Ukai-Kakrapar alsoproject is taken up in a big way under World Bank Aid programme.
- 3.3.4. High priority will also be given to increasing the productivity per unit of water in the areas where irrigation arrangements have already been made. For achieving this objective, the strategy which will be given great importance is the "Rotational System of Supply of Water" (Warabandh System) which has been recently introduced in the State.
- 3.3.5. Another strategy for increasing productivity is tackling the problem of water logging by providing drainage especially in the Command Areas of Ukai Kakrapar and Mahi Kadana Projects.
- 3.3.6. As a part of anti-water logging strategy and with a view to optimize benefits from available water resources, conjunctive use of ground water with surface water is also proposed to be adopted during the Sixth Five Year period. In the well developed command areas of Mahi Kadana complex, Fatewadi System, Dantiwada command area etc., it is proposed to drill augmentation tubewells for conjunctive use.
- 3.3.7. Concentrated attention will be given to the problems created by the increasing ingress of salinity in parts of Saurashtra coast. This project is partly included in the World Bank Aid Programme.
- 3.3.8. Last but not the least, for optimizing the benefits from irrigation resources already reated, a project--to--project approach will be be adopted, the problems in each project will be identified and analysed and methods of solving them evolved.

3.4. Perspective of Development

3.4.1. While emphasis on the ongoing projects has to continue as a part of the overall strategy, it has also to be realised that since adequate number of new projects could not be taken up in the Fifth Plan, the development remained confined mostly to the major ongoing projects on the principal rivers viz. Tapi and Mahi and a few scattered medium

- irrigation projects which were taken up in the Third and the Fourth Plan periods. As a result, irrigation facilities could not be developed adequately and effectively in some of the dry parts of the State like Kachchh, Saurashtra and North Gujarat and certain tribal areas. It is the endeavour of the State Government in the plan period 1980–85 to balance the regional development of irrigation facilities in the State with emphasis on drought prone, backward and dry areas and tribal areas. Thus, while the on-going projects are being completed in the Sixth Plan, adequate pipeline of new schemes is being inducted under the overall programme.
- 3.4.2. With the declaration of the award of the Tribunal, work on the Narmada Project has been launched effectively. However with the enormous size of the project (Rs. 2755.00 crores) the flow of physical benefits cannot start unless sizeable outlay is provided in the plan. In order that project can be substantially completed in the next 12 years or so, an outlay of Rs. 300 crores-net (gross Rs. 531 crores inclusive of share of other beneficiary States) has been provided during 1980-85. No benefits of potential can be derived from the project during the course of the five year period 1980-85. The large investment will start yielding returns only from the next plan 1985-90 onwards.
- 3.4.3. Though certain investment has been made on new projects during 1978-79 and 1979-80, it is necessary to maintain the tempo of irrigation development so that optimum benefits are derived from the existing projects by way of improved utilisation through the process of modernisation, warabandhi system and extending the channel from 40 ha. chak to 8 ha-chak-Similarly, problem created on account of use of waters in the command areas of the major projects have to be effectively countered by comprehensive drainage schemes. The problems are assuming a large dimension in some of the areas like the Ukai Kakrapar command. Simultaneously, problems arising on account of intrusion of salinity in ground waters along the coast of south Saurashtra have also to be effectively tackled by way of check dams, percolation tanks, larger storages where feasible, spreading channels etc.
- 3.4.4. The 1980-85 span is also the most opportune period for accelerating flood control works considering the fact that reservoir projects on the principal rivers have already been completed and the vulnerable down stream flood areas can be effectively protected by integrated measures (with regulated discharges from reservoirs) consisting of embankments, sluices etc. The flood distress areas are as large as 9.01 lakh hectares affecting a population of 40 lakhs. The State Government has therefore, taken-up framing of a revised master plan for flood control covering the entire State keeping in view the recommendation made by the National Commission on Floods.

3.5. Key considerations;

- 3.5.1. The key considerations in formulating the proposals are as under:
 - (i) Early completion of all on-going major and medium schemes spilling into the Sixth Plan, for deriving full benefits therefrom.
 - (ii) Launching Narmada project in a big way so that partial benefits start flowing before the end of the Seventh Plan.
 - (iii) Taking maximum advantage of available external foreign assistance by vigorous implementation of such aided schemes.
 - (iv) According high priority to the new medium irrigation schemes benefitting the drought-prone, backward and tribal areas.
 - (v) Accelerating the pace of modernisation of existing earlier plan schemes and effecting conjunctive use of surface and ground waters, and thereby utilising fully the water resources harnessed.
 - (vi) Taking up in a big way drainage works in the command areas of Ukai-Kakrapar and Mahi-Kadana Projects.
 - (vii) Implementing vigorously the works for preventing salinity ingress in coastal areas.

- (viii) Boosting the tempo of studies, investigation and research relating to irrigation, drainage, and flood control works.
- (ix) Construction of irrigation channels upto 8 ha. chak instead of 40 ha. chak for better efficiency of water management.
- (x) Implementation of Warabandhi system for equitable distribution of water for better use of available water.
- (xi) Accelerating the tempo of Flood Control Works.
 - (xii) Anti-Sea erosion works.
- (xiii) Modification and improvements to the existing schemes due to revision in hydrology.
- 3.6. Programme for the Sixth Five Year Plan 1980-85.
- 3.6.1. Keeping in view the strategy narrated above and for achieving the physical targets based on the key considerations enumerated above, an outlay of Rs. 1000 crores is provided for the Sixth Five Year Plan (1980-85) as detailed below:—

(Rs. in crores)

| Sr. | Programme | Spillover liability as on 1-1-80 | Estimated cost of new programme | Total | Outlay pro- posed for Sixth Plan 1980–85 |
|-----|---|--|---------------------------------|----------------|---|
| ı | 2 | 3 | 4 | 5 | 6 |
| 1. | Major Projects in progress as on 1-4-76 | 14.99 | | 14.99 | 14.99 |
| 2. | World Bank Projects- | | | | |
| | (a) Medium Line of Credit | 281.06 | | 281.06 | 276.05 |
| | (b) Major Composite Group of Projects | 283.80 | •• | 283 .80 | 230.29 + 12.00* |
| 3. | On-going Projects | *Share of Union Territoric | | | 242.29 |
| | (a) Major | 6.71 | | 6.71 | 6.71 |
| | (b) Medium | 23.53 | | 23.53 | 23.53 |
| | | 30.24 | | 30.24 | 30.24 |
| | Total: 1 to 3 | 610.09 | • • • | 610.09 | 551.57 + 12.00 |
| 4. | Narmada Project | 2703.52 | 44. | 2703.52 | 300.00 |
| | Total 1 to 4 | 3313.61 | ••• | 3313.61 | 851.57 +12.00 |

| .1 | 2 | 3 | 4 | 5 | 6 | |
|-----|---|---------|----------------------|---------|------------------|---|
| 5. | Warabandhi System | •• | 41.00 | 41.00 | 17.00 | |
| 6. | Extension of Irrigation canals from 40 Ha. chak to 8 Ha. chak | • • | 41.00 | 41.00 | 15.50 | |
| 7. | Modernisation of canals (other than World Bank) | 23.00 | • • | 23.00 | 8.00 | |
| 8. | Water Davelopment Services | 20.00 | | 20.00 | 17.00 | |
| 9. | Flood Control and Anti-erosion works | 9.50 | 20.50 | 30.00 | 20.00 | |
| 10. | New schemes of 1978-80. | 173.89 | | 173.89 | 34.87 | |
| 11. | New Schemes of VI Plan | | 199.63 | 199.63 | 3 06 | |
| 12. | | | 40.00 (Tentative) | 40.00 | 10.00 | |
| 13. | Drainage | 21.00 | | 21.00 | 17.00 | |
| 14. | Prevention of Salinity Ingress (other than World Bank) | • • | 37.00 | 37.00 | 6.00 | |
| | Total of 5 to 14 | 247.39 | 379.13 | 626.52 | 148.43 | _ |
| | Total of 1 to 14 | 3561.00 | 379.13 | 3940.13 | 100.00 +12.00 | _ |

3.6.2. During the Sixth Five Year Plan 1980-5, it is estimated that an irrigation potential of 3.60 lakh heatares would be created bringing the level available irrigation potential to 12.72 lakh hectares t the end of 1984-85. Similarly, the target for rrigation utilisation is 2.24 lakh hectares bringing he level of utilisation of irrigation potential to .53 lakh hectares at the end of 1984-85.

.7 Details of the programme.

3.7.1. The overall programme for the Sixth ive Year Plan is divided into different groups s shown in the proceeding paras. They are discussed · detail as under :-

lajor Schemes which were in progress as on 1st April **976.**

Out of the 3 schemes considered under this roup 2 schemes viz. Kadana and Ukai would be empleted by 1981-82 in all respects and the third sheme viz. Sabarmati would be completed during 982-83. An amount of Rs. 14.99 crores is provided these schemes during the first three years of the

ther on-going major and medium projects.

) Major Projects:

3.7.3. Only 2 projects viz. Mahi (Stage-I) and hich a nominal amount of Rs. 1.08 erore would be eded, are considered. A provision of Rs. 5.63 ores is also provided towards our share in Mahi ajajsagar Project.

) Medium Projects:

akrapar which are practically completed and for

3.7.4. Out of 31 schemes covered under this group, 13 schemes estimated at Rs. 28.02 crores are at a very advanced stage of construction and a nominal provision of Rs. 2.90 crores is required for completing them. Out of these 13 schemes 3 are in tribal in drought prone area. areas and one projects are Kalindri, Baldeva, Pigut, Vaidy, Phophal, Bagad, Shinghoda, Chhaparvadi, Ambajal, Raval, Godhathad, Hiren (S) and Rajawala.

3.7.5. Out of the remaining 18 schemes, 14 schemes are in progress through contracts. For completing provision of 14 schemes, these a 14.17 crores is provided. Of the 14 schemes in progress, 10 schemes benefit tribal or drought prone areas. These 14 projects are Rami, Nara, Amipur, Godadhari, Bhukhi, Jangadia, Mitti, Lakhigam, Kabu tari Sankara Umaria etc.

3.7.6. The remaining 4 schemes which are at various stages are eithter in tribal or drought-prone area. A provision of Rs. 5.46 crores is provided for these schemes. These projects are Harnav-II Wankleshwar Bhay, Dam on Nani-Vahial and Dholi.

3.7.7. All these on-going medium projects are proposed to be completed during the Sixth Plan period. Total provided outlay for schemes is Rs. 23.53 crores for Five Year Plan, 1980-85.

Narmada Project.

This project is the life-line of Gujarat. Speedy implementation of this project is assured in the State Manifesto. A minimum provision of Rs. 300 crores is provided for this project during the Sixth Plan period towards the share of Gujarat for irrigation sector. The gross outlay for this project including the share of other beneficiary States is Rs. 531 crores.

World Bank Projects.

3.7.9. Assistance from World Bank/US aid, under two different groups (i) Medium Irrigation Projects and (ii) Major Composite Projects is available at present. Further as the Narmada Project, is an inter-State project calls for investment of exceptionally large magnitude, the State Government has requested the Government of India to take early steps to pose it for World Bank Assistance. Government of India has appointed a Planning Group to prepare a Memorandum for posing the project before the World Bank. Recently, an Identification Report has been prepared and submitted to the World Bank.

Project for a Group of Medium Irrigation Schemes.

3.7 10. This group includes in all 34 schemes, 11 of which have been completed but are proposed for moderanisation. Of the remaining 23, 18 are continuing schemes while 5 are new ones. The total estimated cost of these 34 projects works out to Rs. 364.12 crores. These medium projects will benefit 8 drought prone talukas in the districts of Kachehh, Panchmahals, Banaskantha, Bhavnagar and Surendranagar. An agreement for credit assistance of 85 million dollars has been signed with the World Bank in July, 1978, and for 30 million dollars with USAID in August, 1978 for the medium irrigation projects. An outlay of Rs. 276.05 crores is provided for these projects under Sixth Five Year Plan.

Major Composite Projects

**3.7.11. Projects of Damanganga (with JAD works), Ukai-Kakrapar (CAD components including moderanisation), Heran and Karjan and Saurashtra coastal project have been accepted for assistance.

The total estimated cost of these projects is around Rs. 334 crores. The agreement has been signed in May, 1930 for 175 million dollars for these repojects. An outlay of Rs. 230.29 crores is provided for the Sixth Five Year Plan.

Drainage

3.7.12. With the rapid progress of irrigated agriculture in the State, especially in the tracts with deeper and relatively impermeable soils, the problem of desirage has assumed special importance. Drainage has a special role to play in important projects like Ukai-Kakrapar and Mahi-Kadana. Master Plans for desirage for Ukai Kakrapar and Mahi-kadana are envisaged costing Rs. 1059 lakhs and Rs. 1409 lakhs respectively. An outlay of Rs. 1700 lakhs is provided looking to the resources available.

Modernisation of Existing Irrigation Channels

3.7.13. In tune with the national policy and in terms of requirement of this State, modernisation of

the earlier plan projects specially canal system has been given higher priority in view of the need to utilise the available water resources optimally and at a relatively smaller capital investment. This programme is, therefore, included under the World Bank Programme under Medium Line of Credit and also under Major Composite Project. The details are as under:—

Sr. Name of the Programme Outlay
No. provided for
Sixth Plan
(Rs. in crores)

World Bank Programme

- 1 Ukai-Kakrapar Modernisation under Major Composite Project 31.40
- 2 11 Projects under Medium line of Credit 55.26

Total.. 86.66

3.7.14. Over and above the schemes mentioned above, the modernisation of the remaining schemes is also taken up. These works are estimated to cost Rs. 23 crores. An outlay of Rs. 8.00 crores is provided for the programme during the Sixth Five Year Plan.

Water Development Services

3.7.15. The tempo of the irrigation activities can be maintained only if a shelf of schemes, properly investigated and processed upto construction stage are kept ready well in advance. Unfortunately this aspect had not been given due importance in the earlier plans, perhaps, because of the availability of good storage sites affording construction of economical schemes, smaller size of the outlay earmarker for the water development sector etc. For furthed evelopment of irrigation, suitable sites for locating the schemes will have to be searched out, suitable design solution for overcoming the complicated site problems if any, will have to be evolved. This is a time consuming process and will be possible by a proper set up of investigation personnel.

3.7.16. There are at present three investigation circles entrusted with this work. The Governmen of India has directed that adequate provisions should be made for investigation of schemes in the Fiv Year Plan. The Research Institute, at Vadodara is doing a pioneering work in the field of engineering A number of research projects are also undertaked by this Institute for which the State Government has to participate with the Government of India. The various hydrolic model studies pertaining to Narmad Project are being carried out by this Institute.

3.7.17. Looking to the type and size of the problems involved, an outlay of Rs. 17 crores for the Sixth Five Year Plan is provided for this programme. The break-up of outlays for this programme is as under:—

(Rs. in crores)

| (1) | Survey and Investigation | 12.00 |
|-----|--------------------------|-------|
| (2) | Research. | 5.00 |
| | Total | 17.00 |

Flood Control and Anti-Erosion Schemes

3.7.18 The National Commission on Floods under the Chairmanship of Shri Jaisukhlal Hathi has made in all 207 recommendations for preparing and maintaining flood control schemes. These recommendations are kept in view in framing the revised Master Plan which is under finalisation for submission to the Government of India for approval. The woks which are already in progress and which are proposed to be taken-up during the Sixth Plan period are as per the Master Plan. The Technical Advisory Committee at the State level has to approve each work before it could be taken up for execution.

3.7.19. At the end of 1979-80 in all 184 works with a spillover amount of Rs. 9.5 crores were in progress. For this programme, an amount of Rs. 20 crores is provided for Sixth Plan.

Prevention of Salinity Ingress

3.7.20. Continuous heavy withdrawals of ground waters for the purpose of irrigation and water supply (ground water being the only source for the purpose) of Saurashtra combined with decreased recharges wave created problems of ingress of salinity in the ground waters in the areas and the problem has assumed serious dimension. Currently, an area of as much as one lakh hectares is affected with a population of about 2.8 lakhs. The number of wells affected comes to 12562. This programme is included in the World Bank Programme under Major Composite. Group of Projects. The cost of the remaining works is estimated at Rs. 37 crores. Against this, an outlay of Rs. 6 crores is proposed for the remaining works to be carried out (other than World Bank) during the Sixth Plan period.

vew Programmes

3.7.21. Besides, the framework of the plan also includes the following inevitable programmes:—

(a) Warabandhi System.

3.7.21.1. Equitable distribution of water to the cultivators is the primary need of the time more so when the water resources are scarce and the benefits have to be distributed equally to all. To ensure this, the State has recently introduced the system of "Warebandhi" or "Rotational water supply System." For efficient implementation of this system on all the existing schemes, minor structural improvements will be required to be made in the existing canal system. An outlay of Rs. 17 crores is provided for the Sixth Five Year Plan for this purpose.

(b) Extension of irrigation channels from 40 Ha. Chak to 8 Ha. Chak

3.7.21.2. One of the reasons for low utilisation of the water potential created is the difficulty experienced by the small farmers in providing field channels upto their fields. This difficulty could be overcome by extending the existing point of supply to the fields so as to reduce the present area of 40 hectares chak to manageable area of 8 hectares chak. The Planning Commission has also directed in October, 1979, that irrigation channels upto 8 hectares chak instead of 40 hectares chak will have to be constructed at project cost. Accordingly an outlay of Rs. 15.50 crores has been provided for this programme.

(c) Modifications and improvements to the existing schemes due to revision in hydrology.

3.7.21.3. It has been observed that since last few years there is a significant change in the rainfall pattern especially in Saurashtra and Kachohhregions. Sudden heavy intensity of rainfall of short duration has also been observed. This has necessitated the revision of the hydrological studies of all the existing medium schemes which in turn may result in the modification of the spillways/damsections. The cost on the modification is still to be worked out. However, looking to the resources position of the State, it is proposed to phase out the works in such a way that schemes which need immediate attention will be taken up during this plan and the remaining schemes during the Seventh Plan. A provision of Rs. 10 crores is provided for this programme during the Sixth Plan period.

(d) New Schemes of Sixth Plan.

3.7.21.4. In all 51 schemes estimated to cost Rs. 199.63 crores are under various stages of formulation. Of these, 18 schemes estimated to cost Rs. 116.13 crores are either in tribal or drought proper areas. In order to maintain the tempo of development in these areas during the Seventh Plan also, it will be advisable to make a beginning on these works during the last year of the Sixth Plan. A lump-sum provision of Rs. 3.06 crores is therefore provided for the works under this programme during the Sixth Plan.

3.8 Irrigation Development in the Tribal Areas

- 3.8.1. In view of the Physiographical and topographical characteristics, the tribal areas of the State offer potentially good exploitable sites for irrigation development. The area is so located that some of the major principal dam sites of the State like Ukai, Kadana, Damanganga, Sukhi, Heran, Karjan and O.sang fall in these areas. In addition a good number of medium irrigion projects and minor irrigation projects (tanks and bandharas) can be favourably located in these areas. Irrigation development in these areas would provide effective means for the amelioration of the economic conditions of the tribals.
- 3.8.2. In 5 years period, 1980-85, there will be in all 25 projects spilling over under the tribal area sub-plan from March, 1980. Of these 8 being the pre-Fifth Plan projects, and the other 8 will be the projects taken up in Fifth Plan period, and 9 projects taken up during 1978-80. All the 16 projects of pre 1978 period are planned to be completed before March, 1985. Out of the remaining 9 schemes under Tribal Area Sub-Plan, one scheme namely Sidhumber will be a major project. It will benefit exclusively the tribal area. The total benefits that will be derived in the Sixth Five Year Plan would come to 2.60 lakh hectares of which projects under the tribal area sub-plan would yield 0.21 lakh hectares. An outlay of Rs. 78.80 erores is provided for Five Year Plan 1980-85.

3.9. 20-Point Programme of Creation of Irrigation Potential

- 3.9.1. Creation of irrigation potential through planned programme and increasing utilisation thereof is one of the important programmes of 20 point economic programme. Over and above the creation of irrigation facilities through irrigation projects, the Sixth Five Year Plan also provides modernisation of the existing irrigation projects for increasing the irrigation facilities. The target of creating additional irrigation potential during the Sixth Five Year Plan 1980-85 is fixed at 2.60 lakh ha. Thus the total irrigation potential of 10.12 lakh hectares created at the end of June, 1980 shall increase to 12.72 lakh hectares at the end of the Sixth Five Year Plan.
- 3.9.2. Over and above the creation of irrigation potential, the State has also taken steps for increasing the utilisation of the created irrigation potential. Two new programmes have been proposed for this purpose (1) Varabandhi system for equitable distribution of water which will also help in saving of water thereby increasing utilisation (2) Extending the irrigation channels from 40 ha. chak to 8 ha. chak. Total outlay of Rs. 32.50 crores is provided for these two programmes.

- 3.10. Strategy for increasing the utilisation of irrigation potential during the Sixth Five Year Plan period.
- 3.10.1. By the end of June, 1980 the irrigation potential as shown below has been created in the State through various categories of schemes. The level of maximum utilisation achieved against each is also indicated.

(in lakh hectares)

| Sr. No. | Type of Schemes | Irrigation potential created | Maximum utilisation |
|------------|---|------------------------------|------------------------|
| 1 | 2 | 3 | 4 |
| 1 | Major and Medium Irri gation Schemes | 10.12 | 5,29 |
| 2 | Minor Irrigation Schemes | 1.28 | 0.80 |
| 3 | Tubewells | 1.25 | 0.65 |
| | Total | . 12.65 | $\overline{6.74}$ |

Lag in Utilisation:

3.10.2. The State Government is fully seized of all the serious implications of the problem of under-utilisation. The major areas have been already identified and remedial steps are being taken from time to time by holding frequent periodical review meetings at high levels in Government. It is found that particularly Ukai-Kakrapar and Mahi-Kadana projects are the major defaulters in this behalf as the area covered by these projects forms more than half the area covered by all the projects of the State, taken together. The State Government has also appointed a High Power Committee for takingeffective and timely steps for increasing the level of utilisation. It is observed that on an average, compared to the created or planned irrigation potential, the annual irrigation achieved comprised of 20 percent in Kharif, 25 to 50 percent in Rabi and 5 to 10 percent in hot weather seasons. As against this pattern of actual performance, the sanctioned projects by an large provide for a cropping pattern with 40 to 60 percent irrigation in Kharif. Therefore more emphasis is required to be laid on increasing the actual irrigation during kharif season.

Moreover, it is proposed to tak-up the following steps in a phased manner:

- (i) Introduction of warabandhi system i. e. (Rotational water delivery system).
- (ii) Introduction of water co-operatives and selling water on volumetric basis.
- (iii) Sanctioning water applications inspite of areas of water dues by relaxing canal rules from time to time.

- (iv) The activities such as on-farm development works undertaken by Command Area Development Authorities.
- (v) Conversion of large tracts of Grass lands under Kakrapar and Damanganga projects into irrigation lands.
- (vi) Giving seasonwise optimum targets of annual irrigation and reviewing the performance at the end of every irrigation season at the level of Chief Engineer etc.
 - (vii) Modernisation Programme.
- (viii) Extension of irrigation channels from 40 Ha. chak to 8 Ha. chak.
- (ix) Λ water management institute is being set-up for training of personnel in this field.

3.11. Outline of important projects

An out line of some of the improtant irregation projects is given below:—

Ukai

3.11.1. All principal components are essentially completed by March, 1980. An expenditure of only Rs. 178 lakhs spills into the plan 1980-85. This is mainly on account of pending liabilities, remaining works of distribution system and the works relating to problematic reach of the right bank canal and the under-ground distribution system for the flood plain areas of the Narmada. Full potential of 153 thousand hectares is developed by the end of June, 1980. An outlay of Rs. 178 lakhs is provided for the Sixth Plan.

Sardar Sarovar (Narmada) Project

3.11.2.1. Narmada is one of the major west flowing rivers in the country. It is an inter-State river passing through the States of Madhya Pradesh, Maharashtra and Gujarat. It has a total catchment area of 27,610 sq. miles upto the sea. The Narmada is the single largest source of flow irrigation in the ate. For, even if all the water resources including ground water in the State are harnessed and utilised, it has been estimated that without the waters of

Narmada, Gujarat will be able to ultimately irrigate only 30.00 percent of the cutivable area, with Narmada waters this percentage can be raised to 43.

3.11.2.2. The Narmada Water Disputes Tribunal has assessed the total availability of utilisable quantum of water upto the Navagam Dam site in the state has 28 Maft. After allowing 0.5. Maft for Rajasthan and 0.25 Maft. for Maharashtra and 18.25 Maft, for Madhya Prapesh the Tribunal has decided the following pattern of allocation to Gujarat.

| Water | CCA proposed | Intensity | |
|------------|------------------|------------|--|
| allocation | for Irrigation | proposed | |
| 9.00 Maft. | 52.36 lakh acres | 70 percent | |

- 3.11.2.3. The main feature of the Sardar Sarovar Project is that the Navagam Dam is to be constructed to FRL 455 ft./MWL 460 ft. across the river Narmada near village Navagam of Nandod taluka in Bharuch district and a canal system to provide irrigation benefits to an area of about 15.26 lakh hectares, annually on full development. The Tribunal has also permitted construction of a canal off take with F. S. L. 300 ft. from Navagam Dam which would serve the command areas in Gujarat and in Rajasthan.
- 3.11.2.4. Hydro-power would also be generated at the Navagam dam site. It is proposed to have installation of 4 units each of 200 MW in the river-bed power house and 4 units each of 50 MW in the canal bed power house to generate in the initial stage 571 MW at 100 percent LF. and 104 MW at 100 per cent L. F. in the ultimate stage. The power generated and costs thereof shall have to be shared between Madhya Pradesh, Maharashtra and Gujarat. Gujarat is entitled to 16 per cent of the power benefits from this project.
- 3.11.2.5. The project report is prepared and submitted to C. W. C. for clearance in February, 1980. Approximate estimates place the cost of the dam and power house at Rs. 371 crores and the canal system at Rs. 2639 crores with fully lined canals upto 3 hectare blocks. Approximate sharing of the cost amongst the beneficiary States will be broadly as under:—

(Rs. in orores)

| Unit | Cost | | Allocation | of cost | |
|------------------------------|--------|-------------------|------------------|-------------------|-----------------|
| | | Gujarat | Maharashtra | Madhya Pradesh | Rajasthan |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Dam. | | | | | |
| (a) Chargeable to Irrigation | 162.87 | 154.31 (18/19) | | | $8.56 \ (1/19)$ |
| (b) Chargeable to power | 208.13 | `33.31 (16%) | $56.20 \ (27\%)$ | 118.62 (57%) | 190 |
| Total | 371.00 | | | | |

| - 11 | | | | | | · · · · · · · | · · · · · · · · · · · · · · · · · · · |
|------|-------------|-------|-----------|--------------------|----------------|----------------------------------|---------------------------------------|
| | 1 | | $\dot{2}$ | 3 | 4 | 5 | 6 |
| II. | Power House | | 360.00 | 57.60 (16%) | 97.20 (27%) | 295,20 (57%) | |
| III. | Canals | | 1600,00 | 1478.39 (92.4%) | | •• | 121.61 (7.6) |
| | | | | Considering | | s II canals as s. 1600 Crores | I |
| | | Total | 2331.00 | 1723.61 | 153.40 | 323.82 | 130.17 |

- 3.11.2.6. It is further estimated that an outlay of Rs. 424 crops would be needed for the comand area development. Thus, the overall outlay on Sardar Sarovar Project would be Rs. 2755 crops.
- 3.11.2.7. A twolve year programme of construction of the dam, power house and canal system has been contemplated. Through partial storage in the reservoir, it is proposed to develop irrigation in gross command areas of about 2 million across in the Seventh year. The dam and hydro power works are proposed to be completed by the 8th year. The works on the canal system are proposed to be completed by the twelfth year. Command area development works are proposed to be taken-up from the fourth year and completed by the fifteenth year.
- 3.11.2.8. Setting up of an autonomous corporation with full powers for the speedy execution of Narmad. Project is under consideration. Inter-State aspects of the project would be looked after by a Narmada Control Authority, for which Tribunal has suggested three high ranking engineer members from the Central Government and one from each State to constitute this authority.
- 3.11.2.9. The benefits likely to flow from this project to Gujarat are briefly as under:—
 - (i) 38 percent of the total drought affected area in the State would get assured irrigation from the Narmad. Waters.
 - (ii) Annual agricultural production would be augmented by 82 lakh tonnes valued at about Rs. 400 crores;
 - (iii) Water available from this project will also help to meet the domestic industrial requirements of water for villages, towns and cities of Gujarat located within the command area. Water requirements of some cities outside the command could also be expected to be met with from this project;

- (iv) The completion of this project and up stream projects including Narmada sagar, would also parely help flood control and benefit village and towns down stream of Navagam D.m.
- 2.11.2.10. As per the decision of the Tribun' further detailing in respect of dam, power house canals and construction schedules thereof etc. ha been under-taken. In the meanwhile, the require ments of fund for the Sixth Five Year Plan 1980 & have been worked out. According to the project schedule that is in view an outlay of atleast Rs. 53 crores will be needed for this project. Deducting the share of other beneficiary States, the net development outlay needed for the period 1980-85 is Rs. 30 crores which is provided in the State Plan. Upo March 1980 an expanditure of Rs. 51.48 cross is incur ed on this Project. Government of India ha appointed a Planning Group for proparing a memrandum for posing this Project before the Well Bank. The identification report has been prepared and forwarded to World Bank Authorities.

Kadana Project :

3.11.3. This has been a World Bank aids Inter-State project involving submergence in Rajat than. The revised estimated cost of the projet stands at Rs. 91.20 crores. The project has also been essentially completed. The expenditure spilling in the Plan period 1930-85 is only Rs. 353 lakk The spill-over in the plan 1939-85 is mainly a account of expenditure required to be incurred to the balance works of radial gates, additional spillway, payments to Rajasthan for properties effected by back water (including rehabilitation) and also a certain spillover on account of project liabilities A provision of Rs. 353 lakhs is Provided for the project in the plan 1930-85. The coresponding physical benefits will be, however larger propotionately because of the development of potential due to Kadana in the Mahi command. The patentil benefits in the Mahi State-II command due to Kadus Project will be 13905 hactares and 74595 hectars in command of Mahi Stage-I.

LITTLE RANN OF KACHOHA OKHAMANDA PORBANDA CES. PLETED UP TO END GOA , DAMAN & DIU. LUDED IN VI IN F.Y. GOA DAMA AREA DADRA & NAGARHAVELL

MAP OF GUJARAT STATE

SHOWING

MULTIPURPOSE, MAJOR & MEDIUM IRRIGATION SCHEMES

| | SCHEMES COMPLETED UP TO END | | SCHEMES IN PROGRESS INCLUDE | Z NI C | I Th FY PLAN 1980-85 |
|-----------|-------------------------------|----------------------|-----------------------------|------------|----------------------------|
| | MAJOR | | MAJOR. | | |
| 1 | SHETRUNII (PALITANA) | 8 70 | UKAI 78 WATRAK | | |
| 2 | DANTIWADA | # 7I | KADANA 79 SUKHI. | | |
| 3 | KAKRAPAR. | 72 | NARMADA SO HEREN TI | | |
| 4 | MAHI STAGE | 73 | SABARMATI BI KARJAH | | |
| 1 | | 7.4 | SIPU 82 ORSANG. | | |
| 1 | | 75 76 | DAMANGANGA 510HUMBER | | |
| | MEDIUM | 77 | BAJAJ SAGAR (RAJ.) | | |
| 5 | BHIMADAD | | MEDIUM | | |
| 6 | SURAJWADI | 85. | VER II | 1B L | NYARI II |
| 7 | GAJOD | 87 | HARNAV II. MACHHAN-NALA. | 152 | MEN. |
| 6 | SANANDRO VER I | N- 88 | RAMI | 153 | JHUJ PHULPARI |
| 10. | DOSWADA | * 89 | SALDEVA. | 155 | KAZIPUR. |
| 10 | PUNA | Di | VAIDY | 156 | ANI. |
| 12. | MAROL PATADUNGRI | mb. | SUKHBHADAR, | 158 | KANIYAD |
| 14 | HERAN I. | 20 | SHINGODA | 159 | FALLA (KAHKAWATI). |
| 18 | MACHHUNDRI E | 9 25 9 24 9 25 | CHAPARWADI (JEPUR). | IE I | VERADI. KALAGHOGHA |
| 17 | MUNJIASAR | 24 | MACHHUNDRI II | 162 | BAIYAWA. |
| 15 | GONDLI. | 97 | VENU I | 163 | SARAN |
| 19 | OZAT | 99 | SHADAR (PANCH.) | 165 | LIMBAL) |
| 21 | AJI I. SAKROLI. | low | KALUBHAR | 166 | DARED MALANA. |
| 22 | 5A50I | 101 | AMIPUR | 167 | LOLIYANA |
| 23 | GHEE MALAN | 109 | GHODADHAROI | 168 160 | HATHIWAN |
| 25 | HARNAV I | 104 | HIRAN - II | 170. | FULKA |
| 26 | MOTI- FATEWADE | 105 | JANGADIA BHUKHI. | 171 | KHARI - T |
| 27 28 | KARAD MACHHU I | ¥ 107 | WANKLISHVARBHEY. | 173 | SARANGPURGALLA (NINGALA) |
| 25 | HIRAH - I | 108 | RAJAWAL | 174 | AJI IX |
| 30 | BHOGAVO I | 109 | MITTI | 175 | |
| 31 | DEMI | 111 | HADAF MAZAM | 176 | KHARI - KHIJADIA SATALI |
| 82 | LIMBDI - BHOGAVO | 112 | GUHAI | 178 | KAREN. |
| 34 | BRAHMANI I | 115 | LAKHIGAM. KABUTARI | 179 | SEL DEDUMAL (HATHABAHI). |
| 85 | RANGHOLA. | 115 | SANKARA | 181 | KHAKHARIA. WADI - THEBI |
| 97 | KANKAWATI | 106 | KELIA | 181 | HAMIRPUR. |
| 20 | BHOGAVO-II | 11.7 | DHOLI | 183 | MACHHU III. |
| 45 | FULZAR. SHETRUNJI (NHODIAR) | 119 | SHEDHI-BRANCH | 184 | SODAVADAR JASPUR MANDVA |
| Al | GHELO (MADDIAK) | 120 | VRAJANI. | 186 | ISWARIA. |
| 42 | SUVI | 122 | DATARDI OZAT | 167 | OZAT IL |
| 48 | SAPDA ROJKI | 123 | SONMATI. | 188 | USEN IL |
| 44 | HATHMATI. | 124 | DAI (MINBAR). | 190 | UBEN |
| 44 | MESHWA | 125 | LAKHANKA | 198 | GODA THAD |
| 47. | SHADAR VARTU | 127 | KARMAL | 192 | IVANIVARIAL. |
| 45 | NIRUNA | 128 | DEMI II | | |
| 80 | RUDRAMATA GOMA | 130 | PHOPHAL | | |
| 54 | MACHHU II | 131 | RAIDY | | |
| 63 | GAJANSAR | 132 | MATHAL | | |
| 35 | SORTHI ZANJHE SARI | 134 | EDALWADA | | |
| 84 | DHATARWADI | 135 | CHOPADVAV. | | |
| 8.7 | KALINDRI | 137 | KHAMBHADA. | | |
| 55 | FULZAR II | 138 | BAKROL | | |
| 60 | CHARI | 139 | MUKTESHWAR. | | |
| 61 | CHHAPARWADI (L). | 140 | SANGAVADI | | |
| 62 | KASVATI | 142 | BAHGAVADI. | | |
| 6.5 GA | SARAS WATI | 143 | MALGADH | | |
| 65 | AMBAJAL | 144 | BERACHIA | | |
| 66 | BAGAD | 145 | FATEHGADH MITHAPUR | | |
| 68 68 | NARA RAISING OF KAKRAPAR WEIR | 145 | SAMADHIALA | | |
| 65 | RAISING OF MOJ DAM. | 148 | RAMANTH | | |
| | 11.01 | 149 | DON BRAHMANI-II. * SCH | EME | NEARING COMPLETION. |
| | | ,50 | DAZAMARI L | -21/12/4 | |
| | | | | | |

Sabarmati (Dharoi) Project

3.11.4. Wasna Barrage is already completed and the feeder canal would be completed soon. project would be completed by June, 1982 in all respects. The outlay provided in the plan period (1980-85) is Rs. 968 lakhs which would cater mostly to direct canal systems on either bank. The benefits that would be derived from this project during the course of the plan period would be 35570 hectares, out of the total potential of 56680 hectares, the balance being alread achieved by June, 1989. The larger benefits accruing during the plan period 1980-85 are due to the investment made in the Fifth Plan and the two subsequent Annual Plans which have brought the projects to an advanced Stage. Total expanditure till the end of March, 1980 is Rs. 5432 lakhs.

Panam Project :

E 3.11.5. This is a World Bank aided project. The revised cost of it as per World Bank has been estimated at Rs. 4136 lakhs. The expenditure incurred upto March, 1980 is Rs. 2508 lakhs. The spill over in the plan 1980-85 would be Rs. 1628 lakhs, which is mainly in respect of the canal distrioution works. The scope of the works has changed because of financing of the project by the World Bank and extending Government canals upto 8 Iectare blocks on an average. The target of potenial has increased from 26,440 hectares to 53420 ectares. The remaining works of the canal are lanned to be completed by June, 1982, Irrigation otential of 20020 hectares is created by June, 1980. 'his project would be the largest single potential reator in the plan 1980-85 and is expected to be empleted by June, 1932.

ahi Stage-I

3.11.6. The spillover in the plan 1980-85 is the order of Rs. 79 lakhs which is fully provided, he project would be completed in all respects by arch, 1981. Full irrigation potential of 1,86,000 ectares is created by June, 1980. The outlay project for 1980-81 is for completion of miscellaneous ks. Further potential of Rs. 74,595 hectares has achieved due to the Kadana Project in the shi-Stage-I command areas.

hi Bajajsagar

3.11.7. This project is being executed by the vernment of Rajasthan. An outlay of Rs. 563 hs would be needed in the Plan 1980-85. The bject would be completed during 1982-83. The redule for the completion of this project was June, 32 which will not be materially affected.

4rak Project

3.11.8. This is also a spillover project. The lover will be to the extent of Rs. 1528 lakhs out

of the total estimated cost of Rs. 24.09 lakhs. Some physical benefits were to be derived during the Fifth Plan but as a result of change in the scope of the project, this could not materialise even by June, 1980. The entire benefits have thus, spilled into the plan period 1980-85. Thus the physical benefits during the period 1980-85 will be 18350 hectares. An expenditure of Rs. 881 lakhs is incurred upto March, 1980. This is also a World Bank aided project. An outlay of Rs. 1528 lakhs is provided for 1980-85 Plan.

Projects of Narmada Basin

3.11.9. The three major Projects of the Narmada basin in Gujarat which were initiated only in the last year of the Fifth Plan i. e. 1977-78 are Karjan, Sukhi and Heran.

Karjan

3.11.9.1. The Project was originally estimated to cost Rs. 3,640 lakhs with an irrigation potential of 61,970 hectares. The scope of the project has been revised because of assistance from the World Bank so as to extend Government canals upto eight hectares outlet blocks on an average. The cost is therefore increased from Rs. 3,640 lakhs to Rs. 8,960 lakhs and the planned potential has also been increased from 61,970 hectares to 77,530 hectares. Out of the total revised cost of Rs. 8,960 lakhs, cost allocable to irrigation component is Rs. 7,368.84 lakhs and the remaining cost is meant for command area development activities and construction of roads in the command area. It may be stated that the project envisages construction of the highest dam (93.70 metric) built so far in the State. The dam would be composite one, flanks would be of masonary and central portion would be of concrete. An outlay of Rs. 7,120 lakhs is provided in the plan 1980-85 as against the spillover amount of Rs. 7.838 lakhs. An important strategy would be to push-through canal works simultaneously with dam works. Out of the potential of 77,530 hectares 23,330 hectares is proposed to be achieved during the plan 1980-85. This is a World Bank project covered under major composite group. An expenditure of Rs. 11.23 lakhs is incurred till the end of March, 1980.

Heran

3.11.9.2. This project was originally estimated to cost Rs. 2,526 lakhs. The scope of the project has been revised because of assistance from the World Bank so as to extend Government canals upto eight hectares outlet blocks on an average. The cost of the project is therefore increased from Rs. 2,526 lakhs to Rs. 5,064 lakhs and the planned potential has also been increased from 36,420 hectares to 39,507 hectares. Out of the total cost of Rs. 5,064 lakhs cost allocable to irrigation component is Rs. 3954 lakhs, while remaining cost provides for C. A. D.

activities and construction of roads. Out of the potential of 39507 hectares about 15,000 hectares is proposed to be achieved during the plan, 1980-85. An outlay of Rs. 4,450 lakhs has been provided for the plan 1980-85. This is a World Bank aided project covered under major composite Group. Total expenditure of Rs. 472 lakhs is incurred till the end of March, 1980.

Sukhi

3.11.9.3. The project was originally estimated to cost of Rs. 2,311 lakhs. The scope of the project has been revised because of assistance from the World Bank to as to extend Government canals upto 8 hectares outlet blocks on an average. The cost has therefore increased from Rs. 2,311 lakhs to Rs. 3,578 lakhs and the planned potential has also been increased from 21,250 hectares to 25,200 hectares. Out of the total of Rs. 3,578 lakhs the cost allocable to irrigation component is Rs. 3,249 lakhs, while the remaining amount provides for construction of roads in the command area. The expenditure spilling into the plan period 1980-85 is Rs. 2,207 lakhs. Full outlay is provided in the Plan. The project is proposed to be completed by the end of June, 1983 as per the programme given to the World Bank.

Damanganga

3.11.10. An expenditure of Rs. 5647 lakhs spills into the plan period 1980-85. Out of the estimated cost of Rs. 9,684 lakhs, an amount of Rs. 5,500 lakhs is for the Dam and Canal works. This is an Inter-State project benefitting areas of Gujarat and Union Territories of Dadra, Nagar Haveli and Daman. The dam will be completed by June, 1982. The Canal Works have been taken up right from the beginning of execution of the project so that the benefits can accrue soon after completion of the dam works. The physical benefits will begin to accrue from the third year, of the plan and will be fully realised during the plan period with only a small spillover in the plan 1980-85. Thus, an irrigation potential of 50,000 hectares would be created in the plan 1980-85. This project would be the second largest potential creator in the plan period 1980-85. This is also included under thecomposite project accepted by the World Bank for assistanco.

Sipu

3.11.11. This is a World Bank aided project located in the dry tract of Banaskantha District. Essentially, the project would attain maturity in the plan 1980-85. The National Agricultural Commission has made a special mantion of this project as having potentialities of an anti desertification project. It is therefore proposed to give it a high priority. An outlay of Rs. 1,700 lakhs is provided during the plan period 1980-85.

Total irrigation patential of the Project is about 32,100 hectares. An expenditure of Rs. 104 lakhs has been incrured upto March, 1980.

Zankhari

3.11.12. This project is estimated to cost Rs. 3,443 lakhs. Although included in the Fifth Plan, no work could be commenced. It is proposed, to take up and complete this project substantially during the plan period 1980-85. The project had been submitted to the Planning Commission after compliance of the various technical remarks relating to hydrology and other basic aspects. The possibility of reducing the extent of forest area going under submergence is being examined. An outlay of Rs. 3,318 lakhs is provided in the Sixin Fian, The project will be solely benefitting the tribal area of Songadh taluka in Surat District.

Sidhumber

3.11.13. This is a new project of 1978-80. It is estimated to cost Rs. 1,824 lakhs with an irrigation potential of 11,340 hectares. The project report with estimates will be submitted to the Government of India shortly for clearance. The project is located in South Gujarat and will benefit solely the tribal area of Dharampur Taluka in Valsad District.

Medium Schemes

3.11.14. During the Fifth Plan, out of 56 cm going medium schemes 13 were completed while the remaining 43 schemes were in progress at the end of the plan. During the subsequent two annual plans 1978-79 and 1979-80, 66 new medium scheme. lexcluding 5 schemes of World Bank Programme estimated to cost Rs. 187 creres and with an ulti mate irrigation potential of 1.12 lakh hect. wer: taken up. Out of these new schemes 7 schemes viz. Samadhiala, (ii) Brahmani II, (iii) Fulpar (iv) Baiyawa, (v) Khari-II, (vi) Khari Khijadi and (vii) Khakhariz are proposed to be dropped as they are not feasible. At the beginning of the Sixth Plan, i. e. 1980-85, 113 medium scheme (including 18 under World Bank aid) were in pro gress with a spillover amount of Rs. 304.46 crores A total outlay of Rs. 170.68 crores is provide for these schemes with the target of completin only a few schemes during the plan period. I order to continue the tempo of irrigation develorment during subsequent plans beyond 1985, re medium schemes with an estimated cost of Rs. 199.6 crores are proposed to be launched during the Sixt Plan and an outlay of Rs. 306 lakhs is provide for the same during the Sixth Plan so that th works can get momentum right from the beginnir of the Seventh Plan and can maintain the temp of irrigation development beyond the Sixth Pla-

STATEMENT

Water Development (Irrigation)

List of schemes included in the Sixth Five Year Plan 1980-85

(Rs. in lakhs)

| Sr. | | Number | and N | ame of the Sch | ieme | | | Sixth Five Year Plan | 1980-85 outlays |
|-----------|---------------------------|------------|------------|----------------|-------|-------------|-------------|-------------------------|-------------------------|
| No. | | | | | | | | Total | Capital Contant |
| I | | | | 2 | | | | 3 | 4 |
| 1 Mul | tipurpose P | rojects | | 10 | | | | | |
| 1. | IRG—1 | Ukai | | •• | •• | •• | •• | 178.00 | 175.00 |
| 2. | IRG—2 | Narmada | | •• | •• | •• | •• | 30000.00 | 30000.00 |
| 3. | IRG3 | Kadana | •• | •• | | •• | 111 | 353.00 | 353.00 |
| 4. | IRG—4 | Sabarmati. | | •• | •• | •• | •• | 968.00 | 968.00 |
| 5. | IRG5 | Damangang | а | | •• | •• | •• | 4870.00 +1200.00(UT) | 4870.00 +1200.00(UT) |
| 6. | IRG6 | Panam | •• | •• | •• | •• | •• | 1628.00 | 1628.00 |
| 7. | IRG—7 | Bajajsagar | •• | •• | •• | •• | •• | 563.00 | 563.00 |
| | | | | | | | (Total (I) | 38560.00 | 38557.00 |
| (11) | Irrigation I | Projects | | | | | | | |
| | | (a) Major | Project | 8 | | | | | |
| 8. | IRG—8 | Mahi Stage | — I | •• | | •• | •• | 79.00 | 33.00 |
| 9. | IRG- 9 | Kakrapar | •• | •• | •• | •• | •• | 29.00 | 29.00 |
| 10. | IRG—10 | Watrak | •• | •• | • • • | •• | • • | 1528.00 | 1528.00 |
| 11. | IRG11 | Sipu | •• | | •• | 1 | •• | 1700.00 | 1700.00 |
| 12. | IRG—12 | Karjan | •• | •• | | •• | | 7120.00 | 7120.00 |
| | | | | | | TO | TAL (a) | 10456.0 | 10410.00 |
| | | (b) Mediu | т Ртој | ecis | | | | | |
| 3. | IRG13 | Kalindri | •• | •• | •• | •• | •• | 4.00 | 4.00 |
| 14. | IRG—14 | Ver—II | •• | •• | •• | •• | •• | 352.00 | 352.00 |
| 15. | IRG—15 | Harnav—II | · | •• | •• | •• | •.• | 121.00 | 121.00 |
| 16. | IRG-16 | Machhaunal | a | •• | •• | •• | •• | 289.00 | 289.00 |
| 17. | IRG-17 | Rami | •• | •• | •• | •• | •• | 85.00 | 85.00 |
| 18. | IRG—18 | Baldeva | | •• | •• | •• | •• | 25.00 | 25.00 |
| 19. | IRG-19 | Pigut | | | •• | •• | | 29.00 | 29.00 |
| 20. | IRG-20 | Vaidy | | ., ·· | •• | •• | | 4.00 | 4.00 |
| | IRG <u>—2</u> 1 683—43 | Phophal | •• | | •• | •• | •• | 8.00 | 8.00 |

| 1 | | 2 | | | | | 3 | 4 |
|-------------|-----------|----------------------|-----------|------|------------|------------|----------------|----------|
| 22. | IRG-22 | Sukhbhadar | •• | •• | | | 404.00 | 404.00 |
| 23. | IRG-23 | Bagad | | | •• | •• | 4.00 | 4.00 |
| 24. | IRG-24 | Shinghoda | •• | •• | •• | •• | 45.00 | 45.00 |
| 25. | IRG—25 | Chaparwadi (J) | •• | •• | •• | •• | 53.00 | 53.00 |
| 26. | IRG-26 | Ambajal | •• | | •• | •• | 3.00 | 3.00 |
| 27. | IRG-27 | Raval | •• | •• | •• | •• | 58.00 | 56.00 |
| 28. | IRG-23 | Machhundri | •• | • • | •• | •• | 364.00 | 364.00 |
| 29. | IRG—29 | Venu—II | •• | • • | | •• | 722.0 0 | 722.00 |
| 30. | IRG—30 | Nara | 4. | | •• | ,, | 62.00 | 62.00 |
| 31. | IRG-31 | Deo | •• | .•• | , | •• | 1326.00 | 1326.00 |
| 32 . | IRG-32 | Sani | | •• | •• | •• | 129.00 | 129.00 |
| 33. | IRG—33 | Ghodathad | •• | | | •• | 6.00 | 6.00 |
| 34. | IRG-34 | Bhadar (P) | | •• | •• | •• | 1101.00 | 1101.00 |
| 35. | IRG35 | Kalubhar | •• | •• | •• | •• | 377.00 | 377.00 |
| 36 . | IRG-36 | Amipur | | •• | •• | •• | 247.00 | 247.00 |
| 37. | IRG—37 | Jivapur (Und) | •• | •• | | •• | 1171.00 | 1171.00 |
| 38. | IRG—38 | Ghodhadharoi | | •• | •• | •• | 76.00 | 76.00 |
| 39. | IBG-39 | Hiran(8) (New) | •• | | ,, | •• | 28.00 | 28.00 |
| 4 0. | IRG-40 | Jangadia | | . •• | | . • • | 40.00 | 40.00 |
| 41. | IRG-41 | Bhukhi | | | | 9). | 98.00 | 98.00 |
| 42. | IRG-42 | Wankleshwar Bhey | | | •• | | 45.00 | 45.00 |
| 43. | IRG-43 | Rajwal | •• | •• | | •• | 25.00 | 25.00 |
| | | | | | TOTA | L (B) | 7309.00 | 7309.00 |
| | | | | | TOTAL (II) | (A+B) | 17765.00 | 17719.00 |
| (B.T. | New Scher | ne of Fifth Plan | | | | | | |
| (272 | , | (1) Multipurpose P | rojects | | | | | |
| | | (2) Irrigation Proje | | | | | | |
| | | (A) Major Projects | | | | | | |
| 44. | IRG14 | Heran (Vadodara) | •• | •• | •• | •• | 4450.00 | 4450.00 |
| 45. | IRG—45 | Sukhi | •• | • • | ¥. | •• | 2207.00 | 2207.00 |
| 46. | IRG-46 | Zankhari | •• | •• | | •• | 3318.00 | 3318.00 |
| ŦV. | | | •• | •• | ጥ ጥስጥ. | AL (A) | 9975.00 | 9975.00 |

| 3 4 50.00 50.00 189.00 189.00 707.00 707.00 1408.00 1408.00 350.00 350.00 27.00 27.00 65.00 65.00 147.00 147.00 575.00 575.00 191.00 81.00 309.00 309.00 91.00 91.00 | | | | ani Vahial S) () | Mitti (Kache Dam on Na Hadaf (PWS Guhai Mazam (S.K Lakhigam | IRG—47 IRG—48 IRG—49 IRG—50 IRG—51 | 47. 48. 49. 50. |
|--|---------------|----------|----------------------|------------------------|--|--|--|
| 189.00 189.00 707.00 707.00 1408.00 1408.00 350.00 350.00 27.00 27.00 65.00 65.00 147.00 147.00 575.00 575.00 191.00 191.00 309.00 309.00 | | | | achh) ani Vahial S) () | Mitti (Kache Dam on Na Hadaf (PWS Guhai Mazam (S.K Lakhigam | IRG—48 IRG—49 IRG—50 IRG—51 | 48. 49. 50. |
| 189.00 189.00 707.00 707.00 1408.00 1408.00 350.00 350.00 27.00 27.00 65.00 65.00 147.00 147.00 575.00 575.00 191.00 191.00 309.00 309.00 | | | | ani Vahial S) () | Dam on Na Hadaf (PWs Guhai Mazam (S.K Lakhigam | IRG—48 IRG—49 IRG—50 IRG—51 | 48. 49. 50. |
| 707.00 707.00 1408.00 1408.00 350.00 350.00 27.00 27.00 65.00 65.00 147.00 147.00 575.00 575.00 191.00 191.00 309.00 309.00 | | | ·· ·· ·· ·· ·· ·· ·· | s) (.) | Hadaf (PWs Guhai Mazam (S.K Lakhigam | IRG—49 IRG—50 IRG—51 | 49 . 50 . |
| 1408.00 1408.00 350.00 350.00 27.00 27.00 65.00 65.00 147.00 147.00 575.00 575.00 191.00 191.00 309.00 309.00 | | | ·· ·· ·· ·· ·· | (.) | Guhai Mazam (S.K Lakhigam | IRG—50 IRG—51 | 50. |
| 350.00 350.00 27.00 27.00 65.00 65.00 147.00 147.00 575.00 575.00 191.00 191.00 309.00 309.00 | | | | c.) | Mazam (S.K Lakhigam | IRG—51 | |
| 27.00 27.00 65.00 65.00 147.00 147.00 575.00 575.00 191.00 191.00 81.00 81.00 309.00 309.00 | | | | | Lakhigam | | 51. |
| 65.00 65.00 147.00 147.00 575.00 575.00 191.00 191.00 81.00 81.00 309.00 309.00 | | | | | _ | IRG52 | |
| 147.00 147.00 575.00 575.00 191.00 191.00 81.00 81.00 309.00 309.00 | | | | | | 1100-02 | 5 2. |
| 575.00 575.00 191.00 191.00 81.00 81.00 309.00 309.00 | | | | | Kabutri | IRG—53 | 53. |
| 191.00 191.00 81.00 81.00 309.00 309.00 | | | •• | • • | Sankara | IRG—54 | 54 . |
| 81.00 81.00 309.00 309.00 | | | | | Kalia | IRG55 | 55 . |
| 309.00 309.00 | , | | | | Dholi | IRG66 | 66. |
| 01.00 | | | •• | •• | Umaria | IRG57 | 57. |
| 91.00 91.00 | nolo | C. 1 | nch from M.R. | ; Shedhi Bra: | Constructing | IRG—5 | 53. |
| 91.00 91.00 | r canais | River or | ion Schemes fo | ift Irrigat | Jo estructing | IR3 -5) | 5). |
| (B) 4190.00 4190.00 | TOTAL(B) | | | | | | |
| (A+B) 14165.00 14165.00 | TAL (B.1) (A+ | тот | | | | | |
| | | | | | | New Scheme | (G) |
| | | | | Bustanta | - | Irrigation P | |
| 776.00 776.00 | | | | Projects | (a) Major . Sidhumber | IRG—60 | 60. |
| | TIOTIAT (a) | | | | | - | |
| L (a) 776.00 776.00 | TOTAL (a) | | | | | | |
| į. | | | | n Schemes | (b) Medium | | |
| 191.00 191.00 | | | •• | •• | Vrajani | IRG61 | 61. |
| 282.00 282.00 | | | | | Uben | IRG—62 | 62 . |
| 187.00 187.00 | | | | •• | Datardi | IRG63 | 63. |
| 15.00 15.00 | | | | | Orat | IRG—64 | 64. |
| 15.00 15.00 | | | •• | •• | Sonmati | IRG—65 | 65. |
| 250.00 250.00 | | | |) | Dai (Minfar) | IRG66 | 66. |
| 120.00 120.00 | | | | | Kharo | IRG67 | 67. |
| 120.00 | | | | •• | Lakhanka | IRG-68 | 88. |
| 113.00 113.00 | | | •• | | Karmal | IRG69 | 69. |
| 119.00 | | | | | Demi—II | IRG-70 | 70. |
| 113.00 113.00 | | | •• | | | | |
| 191 282 187 15 250. | | | | | Vrajani Uben Datardi O/at Sonmati Dai (Minfar) Kharo Lakhanka | IRG—62 IRG—63 IRG—64 IRG—65 IRG—66 IRG—67 | 61. 62. 63. 64. 65. 66. |

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|-------------|---------|--------------------|-------------|-----|---------------|-----|---------|--------|--------|
| | | | | | | | | | |
| 73. | IRG73 | Raidi . | • | •• | •• | | •• | 18.00 | 18.00 |
| 74. | IRG74 | Rupen . | • | •• | •• | •• | •• | 16.00 | 16.00 |
| 75. | IRG75 | Mathal . | • | •• | •• | •• | •• | 109.00 | 109.00 |
| 76. | IRG—76 | Edalwada | | •• | •• | •• | •• | 102.00 | 102.00 |
| 77. | IRG77 | Chopadvav . | • | •• | •• | •• | •• | 178.00 | 178.00 |
| 78. | IRG—78 | Kakadiamba | | •• | •• | •• | •• | 129.00 | 129.00 |
| 79. | IRG89 | Khambhal a | | •• | •• | •• | •• | 40.00 | 40.00 |
| 80. | IRG80 | Bakrel . | | | •• | •• | •• | 40.00 | 40.00 |
| 81. | IRG-81 | Mukteshwar | • | •• | •• | •• | •• | 212.00 | 212.00 |
| 82. | IRG82 | Aji—III . | | • | •• | •• | •• | 516.00 | 516.00 |
| 83. | IRG—83 | Sagawadi . | | • | •• | •• | •• | 4.00 | 4.00 |
| 84. | IRG-84 | Bangawadi . | | •• | •• | •• | •• | 20.00 | 20.00 |
| 85. | IRG85 | Malgadh . | - | • • | •• | • • | • • | 10.00 | 10.00 |
| 86. | IRG86 | Barachia . | • | •• | •• | •• | •• | 85.00 | 85.09 |
| 87. | IRG—87 | Fategadh . | • | •• | •• | •• | •• | 105.00 | 105.00 |
| 88. | IRG88 | Mithapur . | • | •• | •• | •• | | 8.00 | 8.00 |
| 89. | IRG89 | Ramnath . | | •• | •• | •• | •• | 4.00 | 4.00 |
| 9 0. | IRG90 | Dor . | | | •• | •• | •• | 10.00 | 10.00 |
| 91. | IRG91 | BrahmaniII | | •• | •• | •• | •• | 0.50 | 0.50 |
| 92. | IRG92 | Myari—II | • | •• | •• | •• | •• | 40.00 | 40.00 |
| 93. | IRG93 | Men . | • | •• | •• | •• | •• | 100.00 | 100.00 |
| 94. | IRG94 | Jhuj | •• | •• | •• | | | 982.00 | 982.00 |
| 95. | IRG95 | Kajipur . | | • • | •• | •• | •• | 0.50 | 0.50 |
| 96. | IRG—96 | Rel | • | •• | | •• | •• | 0.50 | 0.50 |
| 97. | IRG97 | Ani . | • | •• | •• | •• | •• | 60.00 | 60.00 |
| 98. | IRG—98 | Kaniyad | - 5 | | •• | •• | •• | 10.00 | 10.00 |
| 99. | IRG99 | Falla (Kanka | vati) | •• | •• | •• | | 60.00 | 60.00 |
| 100. | IRG-100 | Varadi | | •• | •• | •• | •• | 8.00 | 8.00 |
| 101 | IRG-101 | Kalaghoga | | •• | •• | •• | • • | 10.00 | 10.00 |
| 102 | IRG-102 | Baiyava | | •• | •• | • • | •• | 0.50 | 0.50 |
| 103 | IRG-103 | Sarana | | •• | •• | 1.7 | 4. | 8.00 | 8 00 |
| 104 | IRG-104 | $\mathbf{Limbadi}$ | | •• | •• | •• | •• | 10.00 | 10.00 |
| 105 | IRG-105 | Hancli | | •• | | | •• | 3.00 | 3.00 |
| 106 | IRG-106 | Dared (Malana |) (Navagam) |) | | •• | | 10.00 | 10.00 |
| 107 | IRG-107 | Loliyana | | •• | | • | | 40.00 | 40.00 |
| | | | | | | | | | |

| 1 | | 2 | | 0 | 3 | 4 |
|-------------|--------------|---|----------------|--------------|-------------------|-------------------|
| 108 | IRG-108 | , Hathi van | | | 10.00 | 10.00 |
| Q 01 | IRG-109 | Gunda | | | 3.00 | 3.00 |
| 110 | IRG-110 | Fulka | | | 3.00 | 3.00 |
| 111 | IRG-III | Khari-II | | | 0.25 | 0.25 |
| 112 | IRG-112 | Sarangpur Gaia (Ninngla) | | | 3.00 | 3.00 |
| 113 | IRG-113 | Rangamati | | | 3.00 | 3.00 |
| 114 | IRG-114 | Aji-IV | 10 | | 2.00 | 2.00 |
| 115 | IRG-115 | Und-II | her. | | 71.00 | 71.00 |
| 116 | IRG-116 | Khari Khijadia | | | 0.25 | 0.25 |
| 17 | IRG-117 | Satalia | | | 0.50 | 0.50 |
| 18 | IRG-118 | Karan | | | 0.50 | 0.50 |
| 19 | IRG-119 | Sholl (Dedumal) (Hathisani) | | | 3.00 | 3.00 |
| 20 | IRG-120 | Khakhadia | | | 0.50 | 0.50 |
| 21 | IRG-121 | Vadi Thebi | | 4 | 3.00 | 3.00 |
| 122 | IRG -122 | Machhu-III | | | 8.00 | 8.00 |
| 123 | IRG-123 | Hamirpur | 3- | | 20.00 | 20.00 |
| 24 | IRG-124 | Sodavadar | | | 55.00 | 5 5.00 |
| 25 | TRG-125 | Jaspur Maudva | | | 3.00 | 3.00 |
| 126 | IR({-126 | Ishvaria | | | 88.00 | 88.00 |
| 127 | IRG-127 | Ozat-II | | | 8.00 | 8.00 |
| 128 | IRG-128 | Uben-II | | 4 | 1.00 | 1.00 |
| | | | | Total | 5263 .00 | 5263.00 |
| | | | TOTAL (C) | (a+b) | 6039.00 | 6039.00 |
| (D) |) New Seh | eemo of VI Plan | | áb | 306.00 | 308.00 |
| | | | | TOTAL (D) | 3 06.00 | 306 .00 |
| (E) |) Water D | evelopment Services | | | | |
| | (b) Research | ry and Investigation } arch shop and Training } | | | 1700.00 | 1700.00 |
| | | | | TOTAL (E) | 1700.00 | 1700.00 |
| F) | Drainage | | | _ | 1700.00 | 1700.00 |
| | | ion of canals | | | 9466.00 | 8620.00 |
| | | trol and anti-erosion works | 1 Deal of | | 2000.00 | 940 ,00 |
| | | of Salinity Ingress in Saurashtra Coasta | 1 Troje64 | | 3260.00 189.00 | 3260 .00 |
| | Warabandl | Planning Unit hi System | | | 1700.00 | 189.00 1700.00 |
| | | of Irrigation channel from 40 He. chak | to 8 ha, chak. | | 1550.00 | 1550.00 |
| | | n and improvements to the existing sche | | in Hydrology | 1000.00 | 1000.00 |
| N) | Prevention | of Silinity Ingress (other than World B | ank) | | 600.00 | 600.00 |
| | | TOTAL | (F) TO (N) | 2.1 | 21465.00 | 19559.00 |
| | | | | | | |

4. POWER DEVELOPMENT

4.1.1. Electrical power is a basic infrastructure for all round economic growth. It is an effective instrument for influencing spreading out of industrial development and accelerating agricultural growth. Since the inception of Gujarat State in May, 1960, particular attention has been paid for power development. Resources allocated to this sector have been generally between 27 to 29% of the total plan provision of each successive Five Year Plan commencing with the Third Five Year Plan. This has enabled doubling of the installed gernerating capacity in the State at the end of each successive Five Year Plan period from the Third Plan onwards. At the same time, rate of increase in electricity consumption in the State has been higher than the national average rate. Thus, as against the national average annual growth rate of electricity consumption of 12% for the period 1951 to 1966, sale of power in Gujarat Electricity Board system increased by more than 100% during the period 1960-61 to 1965-66. Similarly, while the annual national growth rate of electricity consumption slumped to about 6.4% in the early seventies, sale of power by Gujarat Electricity Board increased three-fold to 3144 million units during the period 1965-66 to 1973-74, which again nearly doubled to 5883 million units by 1978-79. In the matter of per capita consumption of electricity also Gujarat stands next only to Punjab.

Energy Policy.

4.1.2. Traditionally energy planning confined itself to the establishment of conventional Thermal and Hydro power Stations and, in a very limited manner, to utilisation of nuclear energy. However the need for evolving a total Integrated Energy Policy in the context of rapaidly increasing demand for power with limited fuel resources has been increasingly recognised. In fact, creation of additional generation capacity would be meaningful only if it is coupled with measures to ensure optimal availability as well as utilisation of the power generated. This would entail inter-alia taking appropriate measures for conservation of energy, specially in the industrial and agricultural sectors which alone consume bulk of the energy generated. Effort would also have to be made to harass all possible alternatives as well as renewable sources of energy. An essential part of the energy policy would be to promote rural electrification so as to ensure acceleratio i of agricultural development in particular and rural development in general. The State Government has set up the Gujarat Energy Development Agency to diffuse useful knowledge in the various fields of energy and to deal with the situation posed by the rapid depletion of non-renewable sourses. This Agency is also giving attention to the need for formulating appropriate measures for conservation of energy

4.2. Review of Progress.

4.2.1. In 1951 electricity was available only in a few urban and semi-urban areas. At the time of formation of the State, the total generating capacity was only 315 MW and power distribution was restricted to areas around the power stations. The total installed capacity at the end of the 1979-80 was 2384 MW as shown below:—

| | Available generation | MW |
|------|--|-------|
| (1) | Dhuvaran Thermal power Station | 588 |
| (2) | Utran Thermal Power Station. | 67.5 |
| (3) | Shapur Thermal Power Station. | 16 |
| (4) | Kandla Thermal Power Station. | 15 |
| (3) | Ukai Hydro Power Station. | 300 |
| (6) | Ukai Thermal Power Station. | 240 |
| (7) | Ukai Thermal Extension. | 400 |
| (8) | Gandhinagar Thermal Power Station. | 240 |
| (9) | Ahmedabad Electricity Company | 327.5 |
| (10) | Share in Tarapore Atomic Power Station. | 190 |
| | Total | 2384 |

4.3. Perspective Planning:

4.3.1. For the purpose of power planning it is essential that load forecasts are made on a realistic basis and the generation required is planned in advance. During the year 1979-80, Gujarat System registered a maximum demand of 1850 MW against 1705 MW assessed by the 10th Annual Power Survey Committee. The demand projections made by A. P. S. Committee are very conservative and can not be relied upon for power planning. The power demand in Gujarat is developing fast and it is our experience that no sooner a new generation unit is added the same is booked in short time. The load projections carried out by Gujarat Electricity Board and the Study carried out by Operation and Research Group of Sarabhai Chemicals indicates that the load growth in Gujarat will be higher than the estimates of the 11th A. P. S. The comparative estimates of load projection of 11th A. P. S., O. R. G. and G. E. B. and capacity required to meet these demands are tabulated below :-

| | 1984 | -85 | 1989-90 | | |
|-------------|----------------|--|-----------------|--|--|
| | emand in MW | Installed capacity required in MW | Domand in MW | Installed capacity required in MW | |
| 11th A.P.S. | 2645 | 4127 | 4134 | 6962 | |
| O. R. G. | 3186 | 4822 | 5607 | 8546 | |
| G. E. B. | 3575 | 5386 | 5650 | 8613 | |

4.3.2. It will be seen that load estimates of O.R.G. are higher than 11th A.P.S. but lower than G.E.B.'s estimates and also provides for a growth rate of 11.97%. The need for overcoming the power shortages as well as the need to ensure that power planning is 16% ahead of the demand has been recognised. Keeping this in view power planning should be atleast made on the basis of the load estimates of O.R.G.

4.3.3. At present the installed capacity in Gujarat is 2384 MW. Allowing for retirement of old and un-economical sets the net available generating capacity is 2300 MW. Based on load estimates of O. R. G. the installed capacity required will be 4822 MW by 1984-85 and 8546 MW by 1989-90. This indicates that new generating capacity of 2522 MW will have to be added in Sixth Plan period 1980-85 and 3724 MW during the Seventh Plan 1985-90.

4.3.4. To meet the demand during the Sixth Five Year Plan the following schemes have been so far cleared by CEA/Planning Commission.

| far cleared by UEA/Planning Commission. | MW |
|---|------|
| 1. Wanakbori Thermal Project (3 × 210 MW) | 630 |
| 2. Wanakbori Thormal Extension (3 × 210 MW) | 630 |
| 3. Ukai Thermal Extension Unit-V (1×210 MW) | 210 |
| Ukai Left Bank Canal Power House (2 × 2.5 MW) | 5 |
| 5. Kadana Hydro (2 × 60 MW) | 120 |
| 6. Lignite Thermal Power Station in Kachchh (2 × 60 MW) | 120 |
| Total | 1715 |

4.3.5. These projects have already been taken up for execution on a priority basis so that benefits will become available as far as possible during the cresent plan itself. With the commissioning of these projects new generating capacity of 1715 MW will be added raising the total generating capacity to 1015 MW but leaving a deficit of 807 MW.

New Schemes

4.3.6. To meet this deficit the following schemes have been submitted to CEA/Planning Commission for their consideration:—

| 1. | Installation of 210 MW Thermal unit | MW |
|----|--|-----|
| | as an extension to Gandhinagar Thermal Power Station. | 210 |
| 2. | Replacement of Small Units at Shapur and Sikka by installing one 120 MW. Thermal Unit at | |
| | Sikka. | 120 |
| 3. | Replacement of small units at Utran by installing one unit of 120 MW | 120 |
| 1. | Replacement of small units at Kandla. | 60 |
| 5. | Gas Based Thermal Power Station at Mahuva (2 x 210 MW) | 420 |
| | Total | 930 |

4.3.7. The scheme for replacement of 120 MW unit at Sikka has now been cleared by the Planning Commission. This scheme will be taken up for execution during 1981-82.

Meeting Demand During Seventh Plan

4.3.8. As discussed earlier, demand by the end of 7th Plan i. e., 1989-90 will be 5607 MW as per O. R. G. estimates and installed capacity required to meet this demand will be 8546 MW. On completion of the schemes referred to above the total installed capacity in Gujarat will be 4945 MW. This would mean that further new generating capacity of 3601 MW will have to be added during the Seventh Plan period.

Narmada Hydro

4.3.9. Gujarat is having limited hydro resources. Hydro Potential of Ukai has already been exploited. The Tribunal has declared award on Narmada waters and it will be possible to undertake work on Narmada Hydro Project during the Sixth Plan. However, Gujarat's share in Narmada Hydro Power is only 16 % which works out to about 170 MW.

Atomic Power Station

4.3.10. The oil and natural gas available in Gujarat is fully utilised. There are no other sources of fossil fuel in Gujarat. The power development during the Fifth and Sixth Five Year Plans is from thermal stations based on coal to be imported from Central India. This calls for long distance

haulage. Gujarat is, therefore, ideally, suited for Nuclear Power Station. The Site Selection Committee appointed by the Government of India have made detailed investigations for locating a Nuclear power station in Gujarat.

Super Thermal Station:--

4.3.11. The Govrenment of India have accepted, in principle, to set up super thermal stations at pit heads to meet the regional power needs. At present the super thermal station at Korba is under construction. The Government of India have allocated 187 MW of power to Gujarat from first stage at Korba Super Thermal Station. The expansion of this super thermal station is also under consideration. It is expected that whatever power is needed by Gujarat would be allocated from this central generation.

Thermal Station on Narmada Canal.

4.3.12. To meet the power demand during the Seventh Plan, one of the schemes under investigation is the establishment of a thermal power station on Narmada Canal. It is proposed to instal four sets each of 500 MW.

4.4 Programme for 1980--85.

4.4.1. An outlay of Rs. 96184 lakhs is proposed for the power development sector for the Sixth Plan. The broad break up of the proposed outlays is as under:—

(Re in lakha)

| (14.8 | . in lakhs) |
|--|------------------------------|
| Programme. | Sixth Five Year Plan Outlay. |
| 1. Power Development (Survey and Investigations) | 100 |
| 2. Power Projects (Generation) | |
| (a) Continuing Generation Schemes | 5 0695 |
| (b) New Generation Schemes. | 12400 |
| 3. Transmission and Distribution | 25000 |
| 4. Rural Electrification | 8024 |
| 5. General | 265 |
| Total | 96484 |

4.4.2. A broad outline of the projects, physical targets etc., is given in the following paragraphs:-

(1) Kadana Hydro (2 x 60 MW)

4.4.2.1. The Scheme consists of installation of two hydro units each of 60 MW at Kadana on the bank of river Mahi. This is designed as a peaking station. The estimated cost of this project is Rs. 3,280 lakhs. The work on this project has already been taken on hand. Major equipments have been imported by BHEL and most of the supplies have been received at site. Civil works are in progress. The scheme is scheduled for completion in 1983-84. An outlay of Rs. 1,852 lakhs is proposed for the Sixth Plan 1980-85.

(2) Ukai Left Bank Canal Power House (2×2.5 MW)

4.4.2.2. At the emergence of Left Bank Canal at Ukai Dam, it is envisaged to install 2 units each of 2.5 MW. The estimated cost of the Scheme is Rs. 305 lakhs. The Scheme has already been cleared by the Planning Commission. The orders for turbo-generator sets have already been placed with M/s. Jyoti Limited. The scheme is targetted for completion in the year 1983-84. An outlay of Rs. 252 lakhs is proposed for the Sixth Plan 1980-85.

(3) Wanakbori Thermal Project (3 × 210 MW)

4.4.2.3. The execution of the project is in full swing. Orders for major equipments and works are already placed. The hydro test of first boiler has been completed. The first unit of 210 MW is programmed for completion in June 1981 followed by the second and third units in December 1981 and June 1982. An outlay of Rs. 13,000 lakhs has been proposed in the plan for 1980-85.

(4) Ukai Thermal Extension Unit-V (210 MW).

4.4.2.4. This scheme enviseges installation of another one unit of 210 MW as an extension to the Ukai Thermal Project. The approved estimated cost of this scheme is Rs. 6683 lakhs. The scheme has already been cleared by the Planning Commission. The order for turbogenerator set with matching boiler has been placed with BHEL. This scheme is targetted for completion in the year 1982-83. An outlay of Rs. 5,366 lakhs is proposed for the Sixth Plan 1980-85.

(5) Wanakbori Thermal Extension (3 × 210 MW)

4.4.2.5. This scheme envisages installation of three more units, each of 210 MW, as an extension to the Wanakbori Thermal Project which is under construction. The approved estimated cost of this Project is Rs. 20,679 lakhs. The scheme is cleared by Central Electricity Author

rity and Planning Commission. The orders for the main equipments will be finalised shortly. One of the units will be completed by 1984-85 and the remaining two in the Seventh Plan. This project is targetted for completion by 1985-86. An outlay of Rs. 21,600 lakes has been proposed in the Sixth Five Year Plan 1980-85.

(6) Lignite based Thermal Power Station (2×60 MW).

4.4.2.6. This scheme envisages installation of two units each of 6) MW at Panandhro using Lignite as fuel. The estimated cost of this scheme is Rs. 7,127 lakhs. The scheme is cleared by C. E. A. and Planning Commission. The work on this scheme is taken on hand and is targetted for completion in 1984-85. An outlay of Rs. 6,000 lakhs is proposed for the Sixth Plan 1980-85.

(7) Ahmedabad Electricity Company's Projects:

.4.4.2 7. The Company has already completed 1 installation of one 110 MW unit as a replacement for some of its old sets and commissioned it. The State Government has been the major partner in financing this project. The Company has also initiated the installation of another 110 MW as a replacement unit and the Company has already submitted its proposal to Central Electricity Au hority. The total cost of the project is estimated at Rs. 6,000 lakhs. As against this, the assistance required by the Company during the Sixth Plan period is estimated at Rs. 2,000 lakhs. It is proposed to assist the A. E. Co., by Rs. 2,000 lakhs during the Sixth Five Year Plan period in the form of loan. The expansion programme has been targetted to be completed by 1984-85.

8) Replacement of small Units at Shapur and Sikka:

4 4.2.8. At present small sets of 3 MW, 4 MW and 5 MW are installed at Shapur and Sikka. These units are very old, inefficient and uneconomical to operate. These small units have outlived their useful life and shall have to be retired. It is proposed to install one 120 MW thermal unit at Sikka where the developed site is available with all infrastructures like railway siding, colony, trained personnel, etc., The estimated cost of this project is Rs. 4,414 lakhs. The scheme has already been approved. Initial steps are being taken for execution of this scheme.

.) Replacement of small units at Kandla:

4.4.2.9. This scheme envisages replacement of small and un-economical units at Kandla by installing one large thermal unit of 60 MW. The estimated cost of this project is Rs. 2,815 lakhs. The scheme has been posed for approval of C.E.A. and Planning Commission.

(10) Replacement of Small Units at Utran Thermal Station.

4.4.2.10. This scheme envisages replacement of small and un-economical units at Utran by installing large modern 120 MW thermal unit. The estimated cost of this project is Rs. 4,587 lakhs. The scheme has been posed for approval of C. E. A. and Planning Commission.

(11) Gandhinagar Thermal Project Extension (1×210 MW).

4.4.2.11. This scheme envisages installation of one 210 MW Thermal Unit as an extension to the existing Gandhinagar Thermal Station. The estimated cost of this project is Rs. 6,930 lakhs. The scheme has been posed for approval of the C. E. A. and Planning Commission.

(12) Gas based Thermal Station at Mahuva:

4.4.2.12. The State Government is pressing the Government of India to allocate adequate quantum of gas available from Tapti High to Gujarat for power generation. This is essential since Gujarat has no resources of focil fuel. This scheme envisages installation of two units, each of 210 MW, at Mahuva on Saurashtra coast. There is no major source of generation in Saurashtra and this scheme will help to meet the growing demand in Saurashtra and also help to improve the quality of supply in Saurashtra. This project, at an estimated cost of Rs. 13,207 lakhs has already been posed for theapproval of C. E. A./Planning Commission.

(13) Narmada Hydro Project:

- 4.4.2.13. As per the Narmada Tribunal Award following hydro stations have been proposed:—
 - (1) Installation of 5 units each of 150 MW at the river head at Navagam.
 - (2) Installation of 5 units each of 75 MW at the canal power house.

This is being further examined by the Sub-Group constituted by the C. E. A. regarding the final size and number of units to be installed. The construction of this project will be started during the Sixth Plan so that the benefits become available atleast by the end of Seventh Plan. An outlay of Rs. 3,000 lakhs is provided for the Sixth Plan 1980-85.

(14) Kadana Hydro Project :- (Unit 3 and 4)

4.4.2.14. At present 2 units each of 60 MW are being install d at Kadana. It is proposed to add further two units each of 60 MW. The estimated cost of this extension is Rs. 1800 lakhs.

(15) Other New Schemes, Slurry Pipeline :-

4.4.2.15. At present the annual requirement of coal for the power stations in the State is around 4 million tonnes which would be more then double by the end of the Sixth Five Year Plan. In view of the logistical difficulty in transportation of coal to Gujarat, apart from suggesting coal movement by the sea route, a study has been commissioned through M/s. Engineers India Limited for establishing techno-economic feasibility for slurry pipeline transportation and the report has also been received. It appears that the Planning Commission has suggested to the Ministry of Railways to examine the feasibility of slurry pipeline transportation. It is possible that this project would be taken up jointly with interested central agencies.

(16) Pit Head Power Station.

4.4.2.16. Another possibility of meeting the difficulties in transportation of coal is that of establishing a joint coal pit head power station with the Government of Madhya Pradesh. The State Government have already taken up the matter with the Government of Madhya Pradesh.

(17) Tidal Power

4.4.2.17. The study undertaken by the UNDP Expert, prof. Wilson, indicates tremendous power generation potentiality in the Gulfs of Cambay and Kachchh. Proposals have been submitted to Government of India for undertaking investigations in this regard. The Government of India have set up a multi-disciplinary co-ordination committee to study the matter. The Committee has proposed that the preliminary investigations should be initiated and the Government of India also have recently sanctioned the project for undertaking detailed studies and investigations, with an outlay of Rs. 2.18 crores which would help in formulating the feasibility study for tidal power project in the Gulf of Kachchh.

4.4.2.18. An outlay of Rs. 12400 lakhs inclusive of Rs. 3000 lakhs for Narmada Hydro project has been proposed for new projects.

Transmission and Distribution

4.4.2.19. The transmission and distribution capacity should always be adequate not only to evacuate the power generated in the generating stations, but also to distribute it to the various load centres and right upto the consumers premises. Inadequate transmission line capacity will lead to heavy line losses and poor voltage regulations. Therefore, along with the execution of power generation projects, suitable transmission and distribution schemes are always planned and executed simultaneously. So far the grid system consists of transmission lines and sub-stations with maximum voltage of 220

K.V. For distributing the additional power generated during Sixth Plan period 1980--85 high voltage lines and sub-stations of 400 KV is necessary. Therefore, it is proposed to have 400 KV lines from Wanakbori Thermal Station to Asoj in Central Gujarat, Jetpur, in Saurashtra and Nardipur in North Gujarat and also a 400 KV. line from Ukai to Asoj. In addition several 220 KV, 132 KV and 66 KV lines and sub-stations are proposed for construction and the capacities augmented to evacuate the additional power generated as follows:

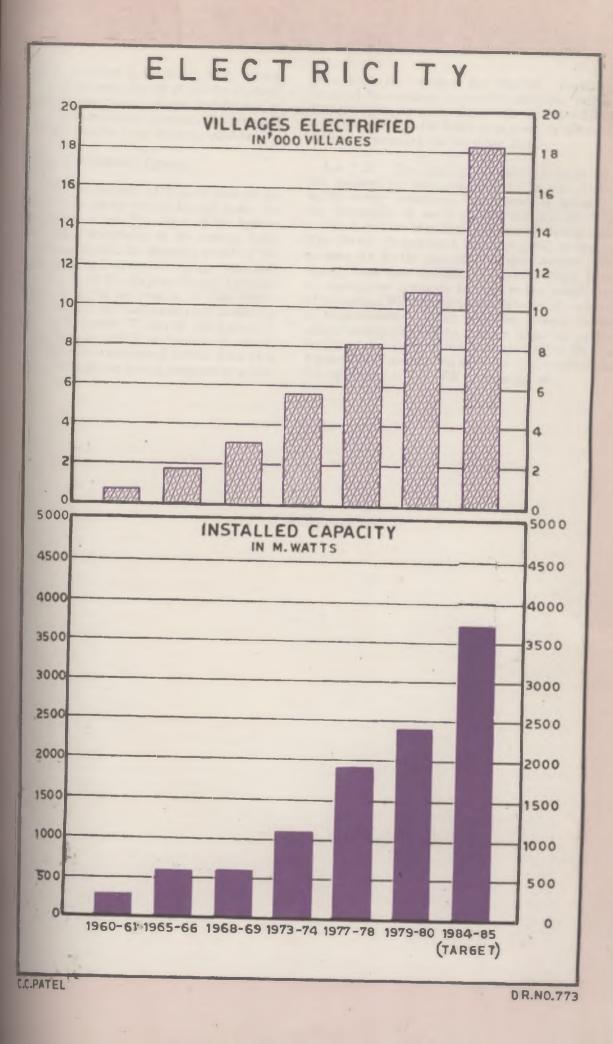
| Sr. No. | Transmission lines | Additions proposed in Sixth Plan in Creuit kms | |
|------------|--------------------|---|--|
| 1. | 400 KV | 1085 | |
| 2. | 220 KV | 1606 | |
| 3. | 132 KV | 55 8 | |
| 4. | 66 KV | 2086 | |
| Sr. No. | Sub-stations | Additions proposed in Sixth Plan (Nos) | |
| | | New Augmentation | |
| 1. | 400 KV | 4 | |
| 2. | 220 KV | 5 12 | |
| 3. | 132 KV | 4 11 | |
| 4. | 66 KV | 78 65 | |

4.4.2.20. Provision of Rs. 25000 lakhs is proposed for Sixth Plan period 1980--85.

Rural Electrification

4.4.2.21. There are 18,275 villages in the State ou of which 10,867 villages have been electrified by the end of the year 1979--80. The number of wells and Government Tubewells electrified has reached a figure of 2,02,853 by the end of 1979-80. Under the rural electrification programme for the Sixth Fiv Year Plan 1980--85, it is proposed to electricity a the remaining villages. It is also proposed to electrif 25,000 Pump-sets every year. Thus, during Sixt Plan period, 1,25,000 pump-sets will be electrific raising the total number of pumpsets electrified to 3,27,853 by end of 1984--85.

4.4.2.22. Whenever, a village is electrified for domestic connection, street lights, etc. the Harig-Basti of the village is also being electrified at the time of initial electrification. Thus, in the village which are electrified for all purpose the Harig-bastis have also been covered. This policy will continued during the Sixth Five Year Plan whelectrifying new villages for all purposes. To und take the Rural Electrification Programme during the Sixth Plan as proposed, an outlay of Rs. 86



lakhs has been provided in the Sixth Plan. Of this it is proposed to allocate Rs. 20 crores for electrification for all purposes those villages that have been electrified only for agriculturel purposes. It is proposed to raise Rs. 4100 lakhs from financial agencies.

Gujarat Energy Development Agency.

4.4.2.23. The Government of Gujarat have set up the Gujarat Energy Development Agency under the Societies Registration Act. The object of the Agency is to diffuse useful knowledge in the various fields of energy and to deal with the situation posed by the rapid depletion of non renewable energy resources. With the setting up of the Gujarat Energy Development Agency, it would be possible to take appropriate steps to explore the various ways of harnessing alternative energy sources. To enable the Agency to commence its work as quickly as possible an amount of Rs. 5.00 lakhs was sanctioned in the form of a grant in aid in 1979-80 for taking preparatory action

Now that the agency has started functioning it would be necessary to provide adequate funds so that the agency can function effectively. Accordingly a provision of Rs. 100 lakhs as a grant in aid to the Agency is proposed for the Sixth Plan.

This Agency has already taken up a 4.4.2.24few projects for promoting the utilization of renewable energy resources. The agency is promoting the utilization of solar cookers and suitable institutions have been identified for manufacturing them. Government has also given concession The State in sales tax for the sale of such solar cookers. The Agency has also decided to instal 2 Wind Mills at appropriate locations to explore the possibilities of utilizating Wind energy, especially in the context of requirements of small irrigation pumps. In the area of energy plantations, a fairly large size project has been taken up in colloboration with the Gujarat Agriculture University to meet the fuel requirement for operating a 1.5 MW generating set

STATEMENT

POWER DEVELOPMENT

List of schemes included in the Sixth Five Year Plan-1980-85

(Rs. in lakhs)

| | | | (1vs. III laki |
|-------|---|--------------------|-------------------|
| Sr. | No. and Name of the Scheme | Sixth Five Year P. | lan 198085 outlay |
| No. | | Total | Capital |
| 1 | 2 | 3 | 4 |
| . Ger | neration : | | |
| (A |) Approved and on-going schemes. | | |
| 1 | . PWR1 Ukai Hydro Project (4×75 MW). | 100.00 | 100.00 |
| 2 | . PWR2 Kadana Hydro Electric Project (2×60 MW). | 1852.00 | 1852.00 |
| 3 | . PWR3 Ukai L. B. Canal Power House (2.×2.5MW). | 252.00 | 252.00 |
| 4. | PWR4 Gandhinagar Thermal Project (2×120 MW). | 125.00 | 125.00 |
| 5 | . PWR5 Ukai Thermal Power Extension $(2\times200 \text{ MW})$. | 400.00 | 400.00 |
| 6. | PWR6 Wanakbori Thermal Project (3×210 MW). | 13000.00 | 13000.00 |
| 7 | . PWR7 Uaki Thermal Projet Extension Unit-5 (1×210 MW). | 5366.00 | 5366.00 |
| 8. | PWR8 Wanakbori Thermal Proejct Extension (3×210 MW). | 21600.00 | 21600.00 |
| 9 | , PWR9 Lignite based Thermal Power Station in Kachchh. (2×60 MW). | 6000.00 | 6000.00 |
| 10 | PWR10 Assistance to the Ahmedabad Electricity Co. Ltd. | 2000.00 | 2000.00 |
| | Sub-total (A). | 50,695.00 | 50,695.00 |
| (B | New Schemes Projects proposed to be started. | | |
| 11. | | | |
| | (i) Dia. pharm wall | | |
| | (ii) Uprating of 62.5 MW units. | | |
| 12. | | | |
| 13 | | 12400.00 | 12400.00, |
| 14. | | | • |
| 15. | PWR15 Gandhinagar Thermal Project Extension (1x210 MW) | | |
| 16. | PWR16 Gas based Thermal Project at Mahuwa. (2×210MW). | • | |
| 17. | PWR17 Narmada Hydro Project (3000.00) | | |
| 18. | PWR18 Kadana Hydro Electric Project Units-III and IV (2×60 MW). | | |
| 19. | . PWR19 Slurry Pipe-line. | l | |
| 20 | PWR20 Joint Pit head station. | | |
| 21. | PWR21 Tidal Power Station. | | |
| 22. | . PWR22 Atomic Power Station. | | |
| | Sub Total B. | 12400.00 | 12400.00 |
| | Sub-Total—Generation $(A+B)$. | 63095.00 | 63095.00 |

| Sr. | No. of schemes | S | ixth Five Year Plan | 198085 outlays |
|-------|--|--------------------------------|---------------------|----------------|
| No. | | | Total | Capital |
| 1 | 2 | | 3 | 4 |
| 1. Tı | ransmission and Distribution | | | |
| 23 | 3. PWR23 Transmission and Distribution | , | 25000.00 | 25000.00 |
| | | Sub-Total-II. | 25000.00 | 25000.00 |
| ui. 1 | Rural Electrification : | | | |
| 24 | 4. PWR-24 Rural Electrification | | 8024.00 | 8024.00 |
| | | Sub Total-III. | 8024.00 | 8024.00 |
| IV. S | Survey And Investigations. | | | |
| 25 | 5. PWR25 Survey and Investigations. | | 100.00 | 100.00 |
| | | Sub Tota'-IV. | 100.00 | 100.00 |
| V. G | leneral · | | | |
| 26 | 6. PWR26 Acquisition of Licences. | | 165.00 | 185.00 |
| 27 | 7. PWR27 Financial Assistance to Guja | rat Energy Development Agency. | 100.00 | 19 |
| | | Sub : Total V. | 265.00 | 105.00 |
| | | Grand Total (I to V) | 96484.00 | 96384 00 |
| | | | | |

5. INDUSTRIES AND MINERALS

5.1 Introduction.

- 5.1.1 The economy of Gujarat State like the country's economy is predominantly rural and depends heavily on primary sector for employment and income. However, there is very limited scope for extension of area under agriculture and forest and paucity of potential irrigation sources would also act as a constraint on rapid development in this sector. Therefore, the industries sector would be called upon to bear an inceasing responsibility for generating employment and production so as to raise the living standard of the people.
- 5.1.2 The approach to the Plan for Industries Sector would therefore, have to be an ambitious forward-looking programme exploiting the maximum potential for industrial development and thereby playing a leading role in meeting the challenges from the problems of poverty and unemployment with special emphasis on the development of backward regions of the State.
- 5.1.3 The performance of the Industries Sector of the State so far has been quite encouraging and would inspire confidence in having an ambitious programme to fulfil the task ahead. According to Annual Survey of Industries (1978), with Rs. 4300 crores worth output from 9800 factories, the State accounted for 10% share in the all India total and ranked second among all States. The State's share of factories employment was 8.91% against its share of approximately 5% of the country's population. The organised and unorganised sectors combined together generated a per capita income of Rs. 322 in manufacturing activity as compared to the national average of Rs. 194.
- factors have contributed to this 5.1.4 Several remarkable achievement of the State in industrial front leding it to position No. 2 in the whole country. Important amongst them are business tradition and the excellent base of enterpreneurs, hard working and disciplined labour force and farsighted as well as the pragmatic policies followed by the State Government. Combination of all these has created a very congetnial environment for industrial forces and has enabled exploitation of State's potential resources which provide a good industrial base. Moreover, the latter half of 1960s and 1970s have seen opening up of new horizons of factor endowments of the State with discovery of oil and gas, opening of meneral wealth by geological surveys and rapid strides made by the agricultural sector. The strategy of industrial development in the Sixth Plan would be suitably oriented to ensure harnessing of all these resources in the most optimum manner.

- 5.1.5 The resource base on which the State would build its further industrial growth is expected to be considerably widened further with the setting up of another petrochemical complex based on offshore gas which has already been accepted by the Government of India in principle. With the landfall point as well as the location of petrochemical complex having taken final shape programmes of developing petrochemical based industries and utilisation of downstream products for generating maximum income and employment for the people would have to be given due priority in the Sixth and subsequent Plans.
- 5.1.6 The State Industries Sector has recorded effevtive diversification leading to a much broader base. The sector which was predominantly textile based in the beginning of 1960 has achieved a noteworthy progress in chemcal and petro-chemical engineering sectors. This is reflected in a significant reduction in the share of textile group in the factorylabour force which has dropped sharply from 76% to 48% while the new group of industries like Chemicals and Engineering have raised their share by two and half times to 20% and 18% respectively. The same trend is revealed in generation of national income in different groups of industries. This is notwithstanding the fact that the textile group itself has increased its production and employment in absolute terms. Our approach for 1980, particularly for the Sixth Five Year Plan would be to strengthen these forces of diversification. Growth of Engineering and Chemicals would be accelerated, new grounds will have to be covered in other sectors such as Electronics, diamonds, salt, cement and other mineral based industries and at the same time growth in textile sector will have to be consolidated and further improved.
- 5.1.7 Besides the overall growth and diversification of industrial sectors, note-worthy feature of the recent developments has been a process of dispersal of industries on wider geographical area. Fiscal and financial measures introduced by the Government of India in the 1970s which have been supplemented by the Incentive Policies of the State Government for taking industrial development to backward regions started showing results. Pioneering efforts made by the Gujarat Industrial Development Corporation (GIDC) in providing infrastructure and other facilities and setting up of large industrial town ships in the backward regions have enabled these in centive policies to make concrete impact and severa new centres of industrial growth have emerged. The State can take pride in having piloted growth of some of the largest industrial complexes like Vapi, Ankleswar

alol in the Adivasl and backward areas. These steps itiated towards industrialisation of backward regions and dispersal of industries will have to be reinforced y appropriate infrastructural, financial and fiscal leasures. The District Industries Centres set up in all the Districts would have to be made more active to true the objective of helping the rural, cottage and nall scale sectors on widest possible spectrum.

5.1.8 Construction of the Eastern State Highway assing through the entire bakward eastern belt of the late is expected to become a landmark and open uplese otherwise remote regions for industrial growth. Ith construction of this Highway, these backward eas of eastern belt are likely to experience strong all of industrial growth similar to the one experienced. Umbergaon-Ahmedabad National Highway belt in the 1970s. The 1980s can be expected to hearld a simpletely new era of unprecedented economic devergement for these areas. Advance planning of infrarructure and other facilities would be undertaken to ecilitate orderly growth of industries in context of ese new opportunities.

2 Review of Progress.

- 5.2.1 Till 1960 industrial economy of Gujarat sted primarily on the textile industry and textile cillaries came into existence. But these had only a arginal impact on the economy of the State. But, the discovery of oil and gas, the setting up of a inary, fertilizer factories and a petrochemical common tax the economic horizon has widened considerable ope for wide spectrum of industries in the State, ongwith this, salt production and mineral exploration eived added impetus.
- rking factories providing employment to 3.30 lakhas. The number of these factories and the number persons employed therein rose to 9836 and 5.01 h respectively at the end of 1978. The productive ital in the registered factories sector in 1961 was 245.79 crores and goods worth Rs. 420.23 crores e produced. The corresponding figures for 1976-77 Rs. 1969.99 crores and Rs. 3531.43 crores. The value added was Rs. 121.33 crores at the end of 1. This rose to Rs. 687.49 crores at the end of 6-77. This represents nearly six fold increase in net value added in a span of sixteen years.
- .2.3 Correspondingly, there was also momentum the registration of Small Scale Industries units in

the unorganised sector. The total number of smell scale units registered with Industries Department in 1961 was 2169. This increased to 18093 in 1971 and over 41,000 by the end of June, 1980.

- 5.2.4 Promotion of village and cottage industries has received equal importance. In the year 1978-79. 3,435 beneficiaries were assisted with subsidised loans to the extent of Rs. 71.25 lakhs. In the year 1979-80, the number of beneficiaries rose steeply to 10,140. The financial assistance also rose significantly to Rs. 2.91 crores.
- 5.2.5 Similarly, the production of Khadi increased from 56.31 lakh meters in the year 1978-79 to 65.35 lakh meters in 1979-80 and will go upto 80 lakh meters during 1980-81. The earnings received by the workers in the Khadi numbering over 55,000 will be Rs. 4.5 crores. Other activities in the fields of village and artisans, support employment for about 28,000 people giving them an annual earning of Rs. 3 crores. Bulk of these workers are engaged in manufacture of leather, neera, pottery and jaggery.
- 5.2.6 On the infrastructure and finance front, the Gujarat Industrial Development Corporation (GIDC) Gujarat Industrial Investment Corporation (GIIC) and the Gujarat State Financial Corporation (GSFC) are trying to keep pace and Government is augmenting their resources to the maximum with the demand for infrastructure and finance. The GIDC has developed 110 estates on 8,000 hectares of land with a total number of sheds allotted 5,400 and land plots allotted 27 million sq. mts. About 5,400 units are functioning with annual production of over Rs. 700 crores and total employment of 81,500. In the major estates set up in backward areas where housing accommodation is scarce, the Corporation tries to provide industrial housing also and has so far constructed 3,300 quarters.
- 5.2.7 The Corporation has stepped up its investments, infrastructure, lands, sheds etc. doubling it every year since 1978-79. It was about Rs. 9 crores in 1978-79, went up to Rs. 18.5 crores in 1979-80.
- 5.2.8 On the investment side, the GIIC has assisted units under three schemes; Technicians Scheme. Now entrepreneurs scheme and the General Scheme. Under the Technicians' Scheme the number of units assisted as on 31-3-1980 would come to 1.111 with an assistance of Rs. 863.45 lakhs.

- 5.2.9 So far as the large and medium industrial units are concerned, the Corporation has sanctioned Rs. 7380.86 lakhs as on 31-3-1980 to 568 units.
- 5.2.10 The Gujarat State Financial Corporation provides term loan assistance to small and medium scale industries in the State to a limit of Rs. 30 lakhs for loanees who are companies or co-operative societies and for partnership and proprietory concerns, the limit of loan is fixed at Rs. 15 lakhs. Corporation sanctioned term loan assistance of Rs. 190.13 crores to 12,918 units till 31-3-1980. The disbursement has been made of Rs. 131.60 crores. Of the total term loan extended, as much as Rs. 127.07 crores was extended to 10,808 small scale units. The Corporation also extended flood loan assistance of Rs. 2.35 crores to 1,640 units. 470 medium and small scale units were also extended assistance of Rs. 60.71 crores.
- 5.2.11 To provide self employment opportunities, the Corporation has already evolved a scheme known as New Entrepreneurs Scheme. Under the Scheme till 31-3-1980, the Corporation has extended a loan of Rs. 8.62 crores to 665 units. The assistance under the scheme is proposed to be increased by Rs. 15.42 crores having regard to Government emphasis on eliminating unemployment amongst the technically qualified persons.
- 5.2.12 Under the Mini Loan Scheme, the Corporation provides assistance upto Rs. 25,000 to artisans, craftsmen and small borrowers. The Corporation has extended term loan assistance of Rs. 1.89 Crores to 2,458 units till 31-3-1980.
- 5.2.13 Fertiliser is becoming an important subsector of industry in Gujarat with Gujarat Narmada Valley Fertilizer Company nearing completion and two other big plants under IFFCO being already firmed up and efforts under way for a third gas-based fertilizer plant.
- 5.2.14 On the Electronics side, the Gujarat Communication and Electronics Limited, Vadodara is making rapid strides on the high technology sophisticated electronics area. Simultaneously growth of electronics as a wide spread cottage-cum-small industry would also be encouraged.

5.3 Policy framework and programme linkages:

5.3.1 The policies and programmes for the Sixth Five Year Plan would revolve around the principal objectives of removing poverty through generation of employment and raising production in the State. This would be effectively translated in the following directions:

- (1) Generating massive employment opportunities through special emphasis on small scale, cottage and village industries and employment oriented scheme.
- (2) Achieve further diversification and broadbasing of industrial sector with emphasis on promoting industries based on local raw materials and also by supporting special programmes for electronics etc.
- (3) Provide adequate infrastructure, finance and other inputs so as to give full scope to the local talents and enterprises for development of industries.
- 5.3.2 The strategy of opening of backward areas with a view to ensuring balanced development as well as direct attack on areas of concentrated poverty would, of course, be interwoven in all the above directions while formulating the detailed programme.
- 5.3.3 A major thrust in the policy and programmes of the Plan would be on the cottage and village industries front for which a massive outlay of Rs. 3031 crores is proposed. Besides, accelerating the traditional programmes of Khadi, leather, handicrafts etc. new avenues for employment are sought to be created in a few other important trades like handloom, woolen carpet weaving which have good potential but have so far remained relatively undeveloped in our State. A package support right from provision of finance and raw materials at the ground level to marketing and quality control at the apex level would be provided and the State level Corporation could be actively associated in rendering all these services. The leather project set up by the GIIC in joint sector would be called upon to provide technical guidance, raw material integrated marketing network so as to get better returns for village flayers on the one side and to provide a widening market base for the leather workers. Similar would be the case with the handloom programme. The predominant position enjoyed by the State in diamond cutting and polishing activity would be further consolidated and efforts would be made to raise the profit and earning of the artisans by providing training facilities on wide scale and creating research facilities for improvement of technique and tools in a diamond complex proposed to be set up Training facilities on wide scale would also lead to much desired dispersal of these industries and also open up opportunities of high-wage employment in backward and rural areas.
- 5.3.4 The State is well poised for further diver sification of industrial sector on chemical and petrochemical side. The prospect of the second petrochemical project based on off shore gas will open up wast opportunities for such industries. Detailed

advance planning for petro-chemical down-stream industries with emphasis on such of these which supply important raw material for feeding cottage and village industries is envisaged so as to minimise time lag between setting up of petro-chemical complex and application of raw materials on the widest possible spectrum.

5.3.4.1 Preliminary steps for development of skills and facilities in the field of petrochemicals in Gujarat are also to be initiated. A branch of C.I.P.E.T. is being opened and a polymer wing is proposed to be added to the Industrial Research Laboratory at Vadodara.

A co-ordinated programme of developing industries based on petrochemical down stream products is also proposed. Some of the items such as acrylic fibre which lend themselves as a most viable base for promoting industries in tiny sector and producing goods of mass consumption would be given due priority.

- 5.3.5 The second thrust of diversification strategy would be m the direction of local raw material based industries. This would be achieved firstly by promoting raw material based enterprises in private sector on the one hand and simultaneously, spearheading development of such industries through public Sector/joint sector project promotion programmes of GHC, GMDC and GSTC etc.. Soda ash, cement, marine chemicals, spinning mills, phenol are the Projects proposed to be taken on hand in this context. An ambitious programme on the resource-based industries side and the major programme on the mineral front with 12 Projects involving a capital investment of Rs. 321 crores is envisaged by the GMDC for the Sixth Plan.
- 5.3.6 It is proposed to make concentrated efforts on the Electronics side with a view to have due share of this rapidly growing industry for the State. The GC and EL would be called upon to play a leading role by taking up Projects of high-technology professional electronics involving a total capital outlay of the order of Rs. 40 crores on the one hand and also as a catalytic agent for promoting joint sector electronic projects in consumer and other professional grade electronic equipments. A suitable marketing network is also expected to be developed under the aid of a suitable agency like GC and EL or Trade Centre of GSIC to support development of electronic industry in the cottage and small scale sector on widest possible basis.
- 5.3.6.1 This programme of Electronic Industries Development would include setting up of an Electronic H—2683—47

Estate at Gandhinagar. It has been decided to give the full benefit of the incentive package to electronic units being set up at Gandhinagar Estate with a view to boost this Industry's Development. It has also been decided to give Sales Tax concession to make local Electronics manufacture more competitive.

- 5.3.7 Talents and enterprise displayed by the people of the State is our most important asset. With a view to harness this important resource, a net work of State Industrial Development Corporations such as GIDC, GIIC, GSFC, GSIC, GSEC; etc., would implement a coordinated programme in providing adequate infrastructure, financial and marketing assistance for the industries. An investment of the order of Rs. 450 crores is envisaged in development of infrastructure, lands, sheds, labour, housing etc. by the GIDC so as to keep pace with the growing demand for industrial plots and sheds.
- 5.3.8 On the finance side, the GIIC has planned to sanction Rs. 188 crores during the Plan period. It would catalyse investment of the order of Rs. 564 crores and provide employment opportunities both direct and indirect to 1.20 lakh persons.
- 5.3.9 A further fillip to backward area development would be achieved through the New Industries Scheme, under which the capital subsidy and sales tax benefits on liberal scale would be offered to industries going to rural and backward areas so as to compensate them for extra economic burden and handicaps such units have to bear. Adequate provision is proposed to be made in the Sixth Plan so that the trend of industries going to backward areas is strengthened and paucity of resources does not in any way throttle the working of this effective instrument of backward area development.
- 5.3.10 The enthusiasm generated by declaration of Income Tax Holiday and several other concessions for industries being set up in the Kandla Free Trade Zone (KFTZ) would be fully harnessed with the twin obejectives of giving further fillip to development of backward areas of Kachchh and also help meeting the pressing need of earning foreign exchange for the country. The State Government has already taken several necessary steps in this direction, the most important of them being making Kandla eligible for full package of incentives declared by the State Government. Setting up of a Thermal Power Station in Kachchh and augmentation of other industrial and civic facilities through the programmes of GIDC and the Gujarat Housing Board would be a part of this strategy.

5.4 Programme for Sixth Five Year Plan.

5.4.1.1 The outlay provided for 'Industries and Minerals' Sector for the Sixth Plan 1980-85 is Rs. 17110 lakhs. The broad break up of the outlay is as under:—

| 7 | 12.5 | in | lakha |) |
|---|------|-----|------------|---|
| | 100 | 177 | 16:17:17:1 | , |

| 8r. No. | Sub-Head of Development | Provisoin for Sixth Plan |
|------------|-------------------------------------|--------------------------------|
| 1 | 2 | 3 |
| 1. | General Industries | 614.00 |
| 2. | Large and Medium Industries | 574 9.60 |
| 3. | Village and Small Industries | |
| | (a) Small Industries | 6565.40 |
| | (b) Village and Cottage Industries | 3031 .00 |
| 4. | Mining and Metallurgical Industries | 1150.00 |
| | Total | 17110.00 |

5.4.1.2 The details of some of the major programmes proposed are given in the subsequent paragraphs.

5.4.2 General Industries:

5.4.2.1 The programmes covered under this group are shown below alongwith the outlays provided for the Sixth Five Year Plan 1980-85.

| /Dc | in | lakhs) |
|------|----|--------|
| UKS. | ш | lakus) |

| | | (===: |
|--------------------|---|--|
| y wago wago darend | Programme | Outlays for Sixth Plan 1980–85 |
| Direc | tion and Administration | 25.00 |
| Weig | hts and Measures | 60.00 |
| Indu Trai | strial Education, Research and | 45 5.00 |
| Othe | r Expenditure | |
| (a) | Export Award | 2.00 |
| (b) | Pollution Control | 3 0.00 |
| (c) | Financial Incentives to Film Studies set up in the State | 25.00 |
| (d) | Quarters for employees of Government Press | 22.00 |
| | Total | 614.00 |

Weights and Measures:

5.4.2.2 Bombay Weights and Measures Enforcement Act, 1958 is the consumer's oriented Act and protects consumer's interest. The Government of India have passed the New Act *i. e.* Standards of Weight and Measures Act, 1976 in April, 1976. The State Government have been provided with model thereo for implementing in their respective territories. The introduction of the New Act in the State is under active consideration of State Government.

5.4.2.3 The State Government is much anxious to protect the consumer's interests. As a preliminary action in this direction, the State Government has separated the weights and measures activities from the Industries Department and weights and measure department has been made independent departmen with effect form 1st February 1979.

5.4.2.4 With a view to carry out the various activities such as annual verification, implementation of packaged commodities rules, verification and stamping of electricity, water, autorickshaw and tax meters, inter-State verification of weights and measures, verification and stamping of clinical thermometers, implementation of Numeration Act et an outlay of Rs. 60 lakhs is provided for the Sixt Plan 1980-85.

Industrial Education, Research and Training:

5.4.25 Industrial development in Gujarat taking place in various fields. New fields have beopened after establishment of petrochemicals comple in the State. The diversified and fast changing i dustrial structure demands creation of research as development facilities. These facilities are very munecessary to meet various requirements of the i Justries. There is scope for creating such facilities glass and ceramics, chemicals and petrochemic engineering, machine tools, textiles etc. With t cooperation of Council of Scientific and Industr Research and the Industries in the State, it proposed to create such facilities by setting branches of Central Institute of Plastic Engineeri Technology (CIPET), Mechanical Engineering Resear and Development Organisation (MERADO), Cent Machine Tool Institute (CMTI), etc. It is also propor to create Polymer Research wing in Industrial Resear Laboratory. Additional testing facilities will also provided in IRL for testing new products. To ca out these various research and developmental activit. an outlay of Rs. 455 lakhs is provided for Sixth P 1980-85.

Industrial Research and Development Institute, Vadodara.

5.4.2.6 industrial The Research Laboratory Vadodara is equipped for testing paint, varnish, ink, soaps, oil, boot polish, water, chemical effluents, mine, als etc. With a veiw to add plastic and polymers wing to this Industrial Research Laboratory a Committee was appointed under the Chairmanship of Shri V. B. Eswaran M. D. GSPCL. The Committee had recommended establishment of plastic and polymers wing to strengthen industrial research laboratory. Government have accepted the recommendation of the Committee looking to the future requirement of plastic, processing and conversion industries in the State and in the context of much larger availability of polymers in future on account of IPCL. This has already gone into production. This institute would facilitate growth of prastic and conversion industries in the State. The scope of industrial research and development institute will be as under:-

- 1. Finished products testing facilities for processing and conversion industries.
 - 2. Polymers (Resin) characterisation facilities.
- 3. Development of the new uses of polymers and plastics and requirement of suitable polymer grades as the programme of products application and development division in haison with the processing and conversion industries etc. An outlay of Rs. 250 lakks is provided for the Sixth Plan 1980-85.

Pellution Control Schemes:

5.4.2.7 To help the Gujarat Water Pollution Control Board to augment its monitoring facilities, it is proposed to create the testing facilities for characterisation of industrial effluent including the facilities for analysis of industrial effluent cases and ammissions in various polytechnics, Engineering Colleges, University Departments and Science Colleges located in various districts of the State. Financial assistance is given for the purchase of testing equipments etc.

5.4.2.8 The Small and Medium scale sector units in the field of Chemical, dyestuffs and its intermediates, pharmaceuticals and other polluting engineering units find it difficult from their existing sources of finance to have pollution testing equipments. To serve an encouragement to the industry, it is proposed to subsidise the cost of equipments for testing to the tune of 25%.

5.4.2.9 The task of Pollution Contorl and the protection of environment is very vast because the problem of Pollution Control requires attention both in urban and rural areas, particularly with increase in S.S.I. units in the rural areas. For running the effluent control plants, the services of qualified and

experienced environment engineers will be required. scheme, therefore, envisages providing 25% subsidy amounting to Rs. 1800/- per person to the industries that employ such engineers. implementing the scheme the industry may have to approach a consultant seeking the guidance setting up a suitable effluent treatment plant. On an average, fees for such consultancy amount to Rs. 10,000/- per unit for deciding the character of effluent, method to be adopted for its treatment and equipment required for the same. It is envisaged to provide cash subsidy at a rate of 25% of cost to the industrial units. An outlay of Rs. 30,00 lakhs is provided for this purpose in the Sixth Plan.

Development of Film Industry

5.4.2.10 The State Government's policy of extending liberal tax exemption has given tremendous fillip to production of Gujarati films and has also heralded birth of film industry in the State. Development of this industry so far has, however, been lopsided, and out of the three important segments, e.g. Film Shooting Studio, Film Processing Laboratory and Sound Recording Studio, only the first segment has been developed to an extent, while the other two are conspicuous by their absense. The new film policy being introduced with effect from 1st April, 1981 has been made comprehensive so as to induce development of the other two segments also.

5.4.3 Large and Medium Industries:

5.4.3.1 The programmes covered under this group are shown below along with their outlays provided for the Sixth Five Year Plan 1980-85. (Rs. in lakhs).

| S No. | Programme | Ogt vs plovid d for Sixth Plan 1980-85 |
|----------|---|---|
| 1 | 2 | 3 |
| 1. | Petroleum, Chemicals, and Fertilisers Industri | ie . |
| | (a) Gujarat Petrochemical Corporation (b) Gujarat Narmada Fertilizer | 500,00 |
| | Company-Water Supply Plant (c) New Fertilizer Project based on | 495,00 |
| | Bombay High Gas | 3 00,00 |
| 2. | Ship Building and Aeronotical Industries | |
| | M/s. Alcock Ashdown Co. | 22.00 |
| 3. | Gujarat Communication and Electronics Ltd. | 200.00 |
| 4, | Consumer Industries (a) Gujarat State Textile Corporation | ā.t0 |
| | (b) Government contribut on to Narmada Coment Company | 53.00 |
| | (c) Girnar Scooter Project | -150.00 |
| 5. | Industrial Financial Institutions | - FO (16) |
| | (a) G. I. I. C. (Market Borrowing) | 550.00 2700.00 |
| | (b) G. I. I. C. (Projects) (c) Capative power Generation GHC | 499.60 |
| 6. | (c) Capative power Generation GHC Other Programmes | 400.00 |
| 0. | (a) Index Grant for Promotional activities (b) Grant of Loan to Industries for | 25.60 |
| | amount of Sales Tax paid on | 050 60 |
| | the sale of finished products Total | 250.00 5749.60 |

Gujarat Petrochemical Complex:

5.4.3.2 The State Government has constituted Gujarat State Petrochemicals Corporation Limited for setting up a petrochemical complex in Gujarat based on off shore gas with an authorised capital of Rs. 10 crores. The proposed petrochemical complex will consist of a gas separation unit, a gas cracker, common utilities and offsite facilities and downstream units for the manufacture of LDPE, HDPE, PVE etc. It is proposed that the gas separation, gas cracking and the common utility facilities will be owned by the Gujarat State Petrochemicals Corporation and the investment of the Corporation in equity will be 40% and 11% of the equity will be by Government agencies. Assuming a debt equity ratio as 3:1, Corporation's equity will be Rs. 44 crores based on the erected plant cost Rs. 440 crores for gas separation, gas cracking and utilities and offsite facilities. downstream units would be in the joint sector in which GSPCL will be holding and equity of 26%. The estimated total outlay in downstream units being Rs. 340 crores on the basis of debt equity ratio of 3:1. GSPCL contribution towards equity in the downstream units would be Rs. 22 crores. The paid up capital of the Company as on 31st March, 1980 stood at Rs. 49,00,700 wholly subscribed by the Government.

5.4.3.3 On the basis of the technology evaluation and short listing of process licencers, the Corporation has issued tender enquiries for various process plants and the reports from leading process licencers have been received. The committee constituted by the Government of India for recommendations regarding the landfall point for the gas pipe line and site for the petrochemical complex have finalised their reports. A provision of Rs. 500 lakhs as share capital contribution of State Government to GSPCL is made in the Sixth Five Year Plan period 1980-85.

Third GNVFC. Plant (Water Supply) :

5.4.3.4. Gujarat Narmeda Valley Fertilizers Company Limited is implementing a fertilizer project for production of 1350 tonnes of Ammonia and 1800 tonnes of Urea. The project cost of company's project has been placed at Rs. 445 crores. Government of Gujarat and Gujarat State Fertilizers Company Limited will hold 26% and 25% respectively of the share capital of the company. The finance for the project has been arranged through the share capital (Rs. 89 crores) and loans (Rs. 356 crores).

- 5.4.35. The company is having its own Water Supply scheme for its captive use, for drawing 68 million litres of water per day from Ukai Right Bank Canal by a pipeline.
- 5.4.3.6. Considering the requirement of reliable water supply to Bharuch Municipality/City and the requirement of a new fertilizer project (Expansion Project) at Bharuch which is under consideration of Government of India, it was resolved by Government to have a new scheme of water supply from upstream Narmada taking into account the requirement of:—
 - (a) Expansion of fertilizer project;
 - (b) Bharuch Municipality/City and
 - (c) GIDC Estate, if required on long term basis.
- 5.4.3.7. The total requirement of water under this new/additional scheme is estimated at 60 million litres a day. The funds required for the scheme are at present estimated between Rs. 5 to 6 croies. As decided by Government the amount is to be fully made available initially in full by Government as an interest bearing loan to GNFC Ltd. as the scheme is to be got investigated and the work awarded and completed by GNFC as its own scheme. Also the scheme when completed will be operated and maintained by GNFC. Ltd.
- 5.4.3.8. When the fertilizer expansion project is approved and the means of financing are finalised the loan would be continued as loan or will be converted into equity or partly both in so far as the cost of the scheme is attributable to expansion project. So far an amount of Rs. 1.05 crore has already been released to Gujarat Narmada Valley Fertilizers Company Limited.

For remaining requirement of this project a provision of Rs. 495 lakks is made in the Sixth Pkm 1980-85

New Fertilizer project Based on Bombay high Gas:

5.4.3.9. The State Government have submitted a detailed memorandum on utilisation of off-shore gas in Gujarat. In this memorandum, mention has been made about the application for expansion of capacity by Gujarat State Fertilizers Company and Guiarat Narmada Fertiliser Co. In this connection indications were given to the State Government that the Centre would be agreeable to the setting up of one more Fertilizer unit in Gujarat in addition to the two that are being set up in Hajira based on Bombay High Gas. It has already been conveyed to the Central Government that the location of this unit would be at the existing site of GNFC at Bharuch. Since this project would be by way of an expansion project, it is estimated that it would cost around Rs. 400 crores. Assuming a debt equity ratio of 4:1 which had been allowed for GNFC and also considering the normal joint sector pattern of 26% investment by the State Government, the equity requirement will be about 5% of the total cost viz., Rs. 20 crores. For Sixth Five Year Plan 1980-85, a provision of Rs. 300 lakhs is provided.

Gujarat Communications and Electronics Ltd. :

5.4.3.10. M/s. Gujarat Communications and Electronics Limited, has been set up by the State Government with the object of promoting and developing the Electronics industry in the State. The Company was incorporated on 30th May, 1975 with an authorised share capital of Rs. 5 erores. The company is engaged in manufacturing of highly sophisticated professional electronic equipments which are presently imported or are in short supply. For Sixth Plan 1930-35 a provision of Rs. 200 lakhs is made to assist the company in the form of loan

Gujarat State Textile Corporation:

5.4.3.11. The Gujarat State Textile Corporation Limited was formed by the Government of Gujarat in the year 1968-69, as an instrument to take over and run the sick textile mills which were closed. The corporation had accordingly taken over nine sick textile mills for management till April, 1974, when Government of India issued the Ordinance for Nationalisation of the sick textile mills. Subsequently these mills were handed over to the National Textile Corporation, Gujarat. When more mills fell sick, the Gujarat State Textile Corporation was asked to take over such mills. Currently, the Gujarat State Textile Corporation is running two sick textile mills, the Priyalaxmi Mills, Vadodara and Shree Subhalaxmi Mills, Cambay as authorised controller. The mills were restarted in the end of 1977 and after incurring a loss of Rs. 28 lakhs in 1977-78, mainly due to inadequate utilisation of sapacity and teething troubles during the start up period, they turned the corner in 1978-79 and have been making profits ever since. The corporation has obtained soft loans from the Industrial Development Bank of India to the extent of nearly Rs. 304 akhs for both the mills for modernisation. The Corporation proposes to take up production of acrease the financial viability and the profitability of the mills. In addition, for diversifying the activities of the Corporation and also to divilop the productive capacity and employment in the backward reas, as well as to enable greater utilisation of the surplus cotton production in the State, the Corpoation has proposed to go in for five new spinning inits of a nominal capacity of 25000 spindles each o be located in the backward areas in the State t a total estimated cost of Rs. 25 crores in the oint sector. The requirement of funds for these for the Corporation is to be generally get with from internal resources. However, to proide for escalation as well as additional requirecents of capital, a nominal provision of Rs. 5 skhs is provided for the Sixth Five Year Plan.

Narmada Cement Co. Ltd. :

5.4.3.12. Gujarat Goveenment is one of the promoters of the Narmada Cement Co. Ltd. As a part of Government equity capital contribution of Rs. 173 lakhs Government have paid Rs. 120 lakhs as share capital so far. The remaining amount of Government share capital contribution of Rs. 53 lakhs, will be paid to the Company during 1980-81. Further expansion programme is under consideration of the Company. In the Sixth Five Year Plan, a provision of Rs. 53 lakhs is provided in the form of share capital contribution.

Gujarat Industrial Investment Corporation:

5.4.3.13. Gujarat Industrial Investment Corporation has basically to perform the functions of (a) developing banking activity and (b) investment catalyst by way of project provision. As regards development of banking activity, the Corporation has assisted units under three schemes, Technican's Scheme, New Enterpreneurs' scheme and General Scheme. For the Sixth Plan 1980-85 for development of banking activity the Corporation has planned to sanction Rs. 188 crores which would give catalysed total ivestment of the order of Rs. 564 crores. So far GIIC have promoted 6 projects for caustic soda and chlorine (GACL), Carbon Black (GCL), Methyl Methacrylate (POGL), Machine Tools (GMTC), Leather Project (GLIL) and Cresols (GAL). The Corporation has planned additional 55 projects in the next 5 years.

5.4.3.14. The Corporation alongwith its Co-promoters has already received 34 letters of Intent out of 61 projects and for the remaining sanctions are under way. All these projects when completed would mean a total investment of the order of about Rs. 1000 crores, out of which GHC's contribution would be around Rs. 80 crores. Thus, the Corporation would have galvanised investment efforts of Rs. 1000 crores with its own investment at only Rs. 80 crores. During Sixth Plan State Government would assist GHC in the form of loan to the extent of Rs. 2700 lakhs as a Project loan.

GIIC would also tap botter policy investment resources to facilitate quick implementation of capital incentive projects such as soda ash, cement, sponge iron, seamless tubes etc. Efforts in this direction have been initiated and visit of a High level State Government delegation has already generated on thusiastic interest amongst investors in Middle East countries for putting their surplus funds in the industrial projects in the State. This will also help import requirements of some of these projects without utilising foreign exchange resources of this country.

Girnar Scooter Project:

5.4.3.15. An idea was mooted in 1967 for setting up Girnar Project mainly to encourage development of ancillary industries and there by to provide additional opportunities for employment and to utilise technical services available in Automobile line in Gujarat. The Corporation obtained a

letter of Intent in 1971 and an industrial licence to manufacture 24000 scooters per annum was obtained in October, 1972. It started modest production of 100 scooters in 1972. The project at present has the production capacity of 9000 scooters per annum. Revised project report is being prepared for approaching IDBI for grant of requisite project loan. The project is now expected to cost about Rs. 15.3 crores. Investment of the order of Rs. 270/- lakhs has already been made till 31-12-1979 of which Government of Gujarat has sanctioned loan of Rs. 186 lakhs till the end of 31-12-1979. Procurement of body panels had been the main bottleneck. With arrangement having been althe alternative ready made, the project will shortly be self sufficient in this respect also. The production of the new model scooters has already commenced. The project is at present manufacturing 500 scooters per month. The rate of production will go up to 750 scooters per month. It is proposed to expand the production capacity from 9000 to 30,000 scooters per annum by 1985 in a phased manner.

For this project a provision of Rs. 150 lakhs is made in the Sixth Plan.

Captive power plant GIIC/GSFC

State is experiencing 5.4.3.16 Gujarat siderable power shortage due to inadequate supply of fuel for stations in the State. As a result several engineering units are in the process of installing captive diesel generating sets to meet with their power needs. Depending upon their work-load, these units are installing one or more generating sets to fill the gap between the power required and available which entails a considerable amount of initial investment. Besides, the unit cost of power by diesel generation is much higher than the electricity tariff. There are two ways in which captive power generating sets could be installed in an industry. In an Industry using steam back pressure, turbine generators could be installed to generate power and if an industry is not using steam, diesel generators may have to be installed.

5.4.3.17 In order to help industries combat power shortage in the State, GIIC has evolved a scheme to finance installation of power generating sets. Under the scheme, assistance is available to install either diesel generating sets or back pressure turbines depending upon the other existing facilities available with that particular industry. Installation of these equipments would help the industrial units to increase their production and thereby resulting in better energy management and productivity. For this scheme an amount of Rs. 499.60 lakhs is provided for the Sixth Plan 1980-85 in the form of loan to be advanced to GIIC.

Grant of Loan to Industries for the amount of Sales Tax paid on sale of finished products.

5.4.3.18 For accelerating the industrial growth

ensuring balance and systematic development or industries and also with a view to decongest already developed areas and cities like Ahmedabad, Vadodara and Surat, Government have introduced a scheme of interest free sales tax loan with effect from 1st November, 1977. The scheme envisages grant of interest free sales tax loans to all new medium and large scale industrial units as well as expansion and diversification of existing units commissioned during the period of the scheme. The loan amounts will be equal to the amount of Sales Tax paid by the industrialists on the sales of their finished product during the first five years of production limited to a ceiling of 15% to 25% of the fixed assets of new undertaking or expansion or diversification as the case may be or Rs. 15 to 25 lakhs whichever is less. For being eligible for the loans the industrial units should be established in area beyond 24 Kms. from the municipal limits Ahmedabad and Vododara, 10 K.M. from municipal limits of Surat, Rajkot, Bhavnagar and Jamnagar and also not located in towns/cities having a population of more than one lakh on the basis of 1971 Census. Within these areas loans at half sale would be given at selected growth centres. The scheme will be in force for a period of five years. The amount of Rs. 113.43. lakhs has been disbursed to 10 units by GIIC. For the Sixth Plan 1980-85 a provision of Rs. 250 lakhs in form of loan is made.

5.4.4. Village and Small Industries:

Small Scale Industries:

5.4.4.1 The programmes covered in this group are shown below along with their outlays provided for the Sixth Five Year Plan 1980-85

| | | (Rs. in lakhs) |
|------------|--|--|
| Sr. No. | Programme | Provision for the Sixth Plan 1980-85 |
| 1 | 2 | 3 |
| Small | Industries:: | <u> </u> |
| 1. | Share Capital contribution loan to GSFC. | 100.00 |
| 2. | Gujarat Industrial Development Corporation | 3200.00 |
| 3. | G. I. D. C. Margin Money | |
| 4. | Subsidy to G. I. D. C. for Industrial areas and townships. | 1.40 |
| 5. | Pilot Plant for testing facilities (GIDC) | 20.00 |
| 6. | Critical infrastructure facilities for backward areas (GIDC) | 60.00 |

| 1 | 2 | 3 |
|-----|--|----------------|
| 7. | Workshop in Rural and Backward Areas (GIDC) | 20.00 |
| 8. | Common Industrial Facility Centres (GIDC) | 2 0 .00 |
| 9. | Grant-in-aid for providing integrated training skills to Industries in GIDC areas (Captive Training Centres) | 25.00 |
| 10. | Grant in aid to CED self employment in rural and backward areas. | 60.00 |
| 11. | Loan to Gujarat Small Scale Industries Corporation for Hire Purchase Scheme: | 37.00 |
| 12. | Contribution for marketing funds for G. S. I. C. to provide marketing assistance to SSI units. | 40.00 |
| 13. | Trade Centres. | 25.00 |
| 14. | Diamond Industries Complex | 25.00 |
| 15. | Capital subsidy and Growth Centres. | 2500.00 |
| 16. | District Industry Centres | 160.00 |
| 17. | Rural Industries Project. | 150.00 |
| 18. | Apprentice Training in Govt. Printing Presses. | 22.00 |
| 19. | Package Assistance to Small Scale Industries. | 100.00 |
| | Total: | 6565.40 |

Gujarat State Financial Corporation

5.4.4.2. G.S.F.C. provides term loan assistance to Small and medium scale industries in the State to a limit of Rs. 30 lakhs for loanees who are companies or Co-operative Societies and for partnership and propritory concerns the limit of loan is fixed at Rs. 15 lakhs. During the Sixth Five Year Plan (1980-81 to 1984-85) the Corporation proposes to sanction additional loans of Rs. 230 crores to about 6,000 units most of which will be in the small scale sector. The Corporation also proposes to make disbursement of Rs. 167 crores. Of the total sanction of Rs. 230 crores, small scale sector is likely to receive assistance of Rs. 161.62 crores. The main thrust

of the Corporation would be to extend larger assistance in the backward areas. Of the total assistance of Rs. 230 crores as much as Rs. 127 crores will go to backward districts.

5.4.4.3. The Corporation also proposes to provide assistance to SC/ST entrepreneurs by granting term loan at concessional rates. As against the assistance of Rs. 0.5 crore granted during the last 3 years, the Corporation proposes to set up the lending operation to these categories of borrowers to the extent of Rs. 1.40 crore during the Sixth Five Year Plan period. Under the Mini Loan Scheme, the Corporation provides assistance upto Rs. 25,000 to artisans, craftsmen and small borrowers. The Corporation has extended term loan assistance of Rs. 1.89 crore to 2458 units till 31st March, 1980 and additional term loan of Rs. 1.78 crores is proposed to be made available during the Sixth Five Year Plan period to this category of borrowers who mostly hail from the weaker sections of the society and from rural areas.

5.4.4.4. The Corporation will have to mobilise resource either by borrowing from the open market or by availing of refinance facilities available from IDBI. We have projected that the Corporation will get by way of bonds a sum of Rs. 57 crores. Besides, the Corporation will take refinance of Rs. 128 crores from IDBI. This sum of Rs. 128 crores is the net amount after taking into consideration the payment of Rs. 79 crores to IDBI and refinance limit of Rs. 57.50 crores which IDBI has fixed for the Corporation upto 31st March, 1981. IDBI normally grants refinance to the extent of 3 times of the paid up share capital and reserves. In exceptional cases. refinance is granted to the extent of 4 times of paid up capital and reserves. The Corporation is already having paid up capital and reserves of Rs. 20.57 crores including a sum of Rs. 4 crores provided by way of loans to be converted into paid up capital after the SFC Act is amended. To draw refinance to the extent indicated above it would be necessary for the Corporation to step up its capital and reserves to Rs. 32 crores. It would be possible to generate internal resources to the extent of about Rs. 6 crores during the plan. It would thus be necessary to raise the Corporation's capital by a further sum Rs. 6 crores. This sum of Rs. 6 crores will be contributed on matching and the State Government. basis by IDBI A provision of Rs. 1.00 crore is made in the form of loan during the Sixth Five Year Plan which may be provided by the State Government in the form of loan temporarily, pending amendment in the SFC Act.

Gujarat Industrial Development Corporation

5.4.4.5. The industrial estates of GIDC are an instrument for rapid and orderly development of industrial growth in Gujarat. Industrial estates have achieved following socio-economic objectives:-

Decentralisation of Industrial Growth

5.4.4.6. Industrial estates have provided the thrust to the decentralisation of industrial growth. Such Industrial growth is taking place at present at 109 different locations in the State. Of these, 53 i. e. 49 per cent are in backward areas.

Preventing migration of workers from rural hinterland to metropolitan cities

5.4.4.7. Industrial estates help develop small and intermediate and rural locations *i.e.* Vapi, Ankleshwar Surendranagar, Kalol (Mahesana), Kalol (P. M.) etc. These industrial estates provide means of employment through units being set up there. It, therefore, prevents migration of workers from rural hinter-land to metropolitan towns. Industrial estates also help develop small and intermediate towns.

Multiplier economic impact of investment, production, employment in secondary sectors and trade, transport and commerce in Tertiary sectors.

5.4.4.8. Units being set up help generate massive economic impact in the State of Gujaret. Following table would reveal this impact:—

| Indicator | Impact | |
|--|-------------------|--|
| 1. Units in production as per 1978-79 economic survey | 4281 | |
| 2. Investment | Rs. 192.27 crores | |
| 3. Production | Rs. 630.57 crores | |
| 4. Employment 76082 | | |

5.4.4.9. Of the above, 605 units with investment of Rs. 29.40 erores, production of Rs. 55.10 erores and employment of 13,878 are working in 10 backward districts.

Development of SSI Units

5.4.4.10. Ready built factory sheds and developed infrastructure coupled with entrepreneurial base in Gujarat help develop SSI Units. Thus 96% of the GIDC units fall in SSI sector (Old definition). Thus according to 1978-79 survey, there are 4133 SSI Units with Rs. 131.86 crores of investment, employment of 63,186 and producing goods worth Rs. 444.46 crores.

Demand for GIDC's factory sheds and plots and resources required to meet with this demand during the Sixth Plan.

5.4.4.11. The demand for GIDC's goods and services is constantly expanding. Following picture reveals position as in June, 1980 of the pending demand.

| Indicator | No. of appli- cations | Area/No. |
|----------------------|--------------------------|----------------------|
| Plots | 3452 | 156.86 lakh sq. mts. |
| Sheds | 2857 | 2857 |
| Housing tenements | 900 (Approx.) | 3000 |

5.4.4.12. This demand represents 70% of the total cumulative GIDC allottment upto 1978-79 in case of plots and 65% in case of sheds.

Demand expected by March, 1981.

| Indicator | No. of applications | Area/No. |
|--------------------|---------------------|----------------------|
| Developed plots | 4802 | 221.60 lakh sq. mts. |
| Sheds | 4285 | 4285 |
| Housing tenements | 1500 | 5000 |

5.4.4.13. Over a period of 1981-82 to 1984-85 the demand would increase particularly in view of favourable industrial climate, Government of India's recently liberalised policy decision, expected improvement of about 10% in industrial growth in the Country in 1980-81; halting of negative growth rate by DGTD units in the first 3 months of 1980-81 and expected improvement in the core sectors of coal and transport. A conservative 10% increase would show the following picture for demand of GIDC goods and services.

| Indicator | 1981-82 | 1982-83 | 1983-84 | 1984-85 |
|-----------------------|---------|---------|---------|---------|
| Plots (Area in Hects) | 3100 | 3410 | 3800 | 4200 |
| Sheds | 4200 | 4620 | 5080 | 5500 |
| Housing tenement | s 5000 | 5500 | 6050 | 6600 |

5.4.4.14. The GIDC's total Sixth Five Year Plan outlay for development programmes is expected to be of the order of Rs. 480 crores. For the entire Sixth Five Year Plan period 1980-85 an amount of Rs. 3200 lakhs is provided as State budgetary support. The budgetary support from the Government of the order of Rs. 1 crore ultimately generates about Rs.12 crores by way of total private investment, and therefore over the entire Sixth Plan period about 30,000 units with an investment of about Rs. 1100 crores and production worth about Rs. 3500 crores will be set up. Out of these expected 30,000 units, approximately 50% of the units will be in backward areas.

Infrsatructure in rural and backward areas.

5.4.4.15. Certain infrastructure particularly of power and water are very critical for developing some backward and rural locations. For the lack of this basic infrastructure, such industries are not set up or not become economically viable. Such critical infrastructure at Veraval in the backward district of Junagadh and Bamanber in the backward district of Surendranagar are conceived and the execution of these schemes would start soon. In the year 1980-81 a provision of Rs. 15 lakhs is made. Out of this Ru. 10 lakhs will be utilised for such critical infrastructure at Halol in backward district of Panchamahal: and at Veraval. A provision of Rs. 60 lakhs is provided for undertaking similar other schemes in different backward areas over the entire Sixth Plan period.

Pilot plant and testing facility.

5.4.4.16. Chemical industries have reached a proportion of 16% of the total functioning units. Share of chemical industry has gone up from 6% to 16% and is constantly increasing. Chemical industries cause water pollution which has social cost. Water Pollution Control Act has also been enacted and Pollution Board has also been set up. The small scale units before they can treat their effluents require facilities of testing characteristics of their effluents to identify before parameters. Therefore, pilot plants & testing facilities are required. Thus such facility is being set up in Ankleshwar which is very large chemical complex. Over the Sixth Plan period, a provision of Rs. 20 lakhs is provided which is inclusive of recurring expenditure.

Common Industrial Facilities.

5.4.4.17. Often entrepreneurs particularly belonging to SSI sector cannot afford certain equipments and facilities which are costly but critical for their operation. Such facilities can improve quality of production and certain diversification. It is proposed to provide tools and equipments as well as testing laboratories under the scheme. Such facilities are provided at Surendranagar and are being provided at Vapi. A provision of Rs. 20 lakhs is provided for the Sixth Plan.

Captive Training Centre.

5.4.4.18. On account of the growing industrial needs, constant shortage of particular type of skills relevant to particular groups of industries are experienced in GIDC estates. While the skilled workers available through the ITI's are suitable for the medium and large scale industries both from the level of skills required as well as from viability critaria SSI units cannot afford such skills. It is estimated that skilled workers required for the GIDC estates alone will be of the order of 5000 to 8000 for next five years. It is therefore purposed that captive training centre to provide specific need based training be set up in the GIDC estates, for which a provision of Rs. 25 lakhs is made for the entire Sixth Plan period to enable the GIDC to set up 12 such centres.

Scheme for Hire purchase of Machinery.

5.4.4.19. The hire purchase scheme for supply of machinery to SSI Units being operated by the GSIC is one of the most important support activities extended by the Corporation to the SSI sector. In order to extend this important facility to the backward districts and tribal areas, the Corporation has evolved a hire purchase scheme with substantial reduction in the interest rates and earnest morey deposit. The scheme is also applicable to persons belonging to SC/ST and other backward classes.

Marketing Scheme.

5.4.4.20. Assisting SSI units to market their products is an important activity undertaken by the Gujarat Small Industries Corporation. This activity is integral to the overall development of the SSI sector in the State. In fact, marketing is a facility which complete the package of incentives extended by the State Government to SSI units. Without this assistance, there is every likelihood of many units 'falling sick' and failing to exploit the healthy indus trial climate of the State. The State Government have entrusted this important task to the GSIC and has in the past subsidised the expenditure incurred by the Corporation on this vital promotional activity. It may be appreciated here that without strong technical assistance in the field of market much of our efforts to promote industrial activity in the SSI sector would come to naught. For Sixth Plan 1980-85 a provision of Rs. 37 lakks is made to carry out these activities.

Diamond Industries Complex.

5.4.4.21. The Diamond Cutting and Polishing Industry which has developed in Gujarat is highly labour intensive. It is estimated as of today that this industry provides employment to about 1.5 lakh people. The Industry is at present mainly concentrated in Surat, Navsari, Bhavnagar and Palanpur. The growth of this industry has however not been consciously planned and as a result it has de-

veloped certain unhealthy features such as the inhygenic surroundings in which the workers have to operate, lack of adequate facilities for the welfare of their labour etc. The Diamond industry is also basically an expect oriented industry. The formation of the Hind Diamond Training Corporation by the Government of India is a significant measure in the context of boosting the expect of diamonds. In this context, therefore it is necessary to provide for a systematic growth of the diamond industry in Gujarat to serve the twin purposes of optimising the employment potential of the industries and maximising the expect. For the Sixth Plan 1980-85 a provision of Rs. 25 lakhs is made underthis programme.

District Industries Centre.

5.4.4.22. This is a centrally sponsored scheme on sharing basis according to the new industrial policy of the Central Government. 17 District Industries centres have started working in Gujarat. They are busy in intensive drive to industrialise the rural and backward areas of the State. In the State the DICs were started first in 10 backward districts of the State on 1st May, 1978 and the rest of the districts were covered on 2n ! October, 1978. In each of the district target programmes have been chalked out and given to them for 18 months period from October, 1978 to March, 1980. As per the instruction of the Central Government, targets for have been fixed. A committee under Chairmanship of the Collector has been appointed to advise and supervise the working of the District Industries Centre. The Central Government has given Rs. 5.00 lakhs per DIC as non recurring expenditure for the buildings, vehicles etc. As per the revised pattern, the Central Government, contributes 50 percent of the recurring expenditure. The Schemes implemented through the DIC are cash subsidy on Capita Investments Power subsidy, interest subsidy, testing subsidy, sales tax loans and tax holiday, State Cash subsidy, Bankable Scheme for Cottage Industries, the tribal sub-plan scheme and Central Plan Scheme. A Monitoring Cell has been established at State level to centralise and supervise the progress of the district industries centres and to help in smooth implementation of the programme fer the Sixth Plan 1980-85 Rs. 160 lakhs are provided as state share.

Capital 3ubsily and Growth Centres.

5.4.4.23. As mentioned in the beginning, the fiscal and financial concessions introduced by the Government of India in the centrally declared backward Districts (Bharuch, Panchmahals, Surendranagar, Sabarkantha, Mehsana, Banaskantha Kachchh, Bhavnagar, Amreli and Junagadh have started showing the impact on geographical distribution of industries in the second half of 1970. This process of industrial dispersal has gathe; ed

momentum particularly after introduction of the State Government's package of incentives for location of industries in backward areas with effect from 1st November, 1977. The State Government's package of incentives contain several innovations and refinements. The most important innovation is the concept of growth centre around which the development of medium and large industries is encouraged. These growth centres are selected after careful assessment of industrial potential of different locations as well as infrastructure availability and feasibility of meeting different service needs of larger units. More than 120 such growth centres scattered throughout the State have been identified so far. The State incentive policy also contains a refinement in the sense that instead of taking a district as a unit, it has gone down to taluka level, so that backward talukas of advance districts are not neglected and left out from the purview of industrial growth. Since inception of the Schome, 5,527 units were registered upto 31st March, 1980. Out of these 2,647 units were sanctioned subsidy of Rs. 1040 lakhs. The total investment in fixed assets of these units would be of the order of Rs. 81.49 crores.

5.4.4.24. The response received from the entrepreneurs to set up industrial units at growth centres can be seen from the fact that out of 5527 industrial units registered under the scheme, as may as 4056 i.e. nearly 73% are at various growth centres.

5.4.4.25. Having regard to the efficacy of this package as an instrumen to induce incentive indistries to undeveloped areas away from metropolitan industrialised centres, it is proposed to harness this weapon to fullest extent in our strategy of widening industrial base and reaching the fruits of industrial development to the backward and under-developed areas. The State Government has introduced one more innovation, a very important innovation for industrial dispersal in terms of incentives for pioneering units. The concept of pioneering units is based on the recognition that the entreprenour has to face many hurdles and suffer several economic disadvantages for taking industry to an undeveloped location. It is also based on the recognition that development of backward regions is a social goal and therefore, the pioneering units shoud be compensated to some extent for economic disadvantages it undergoes because of chosing location so as to further the new scheme of pioneering social objective. The units introduced in the State in the later half of 1980 is expected to provide effective motivation and thereby the industrial investment in the St to is expected to be spread over the length and breadth of the State.

INTENSIVE DEVELOPMENT OF SMALL INDU-STRIES IN RURAL AREAS

5.4.4.26. The Government of India have directed to implement the Rural Area Scheme with effect from 1st May 1978 in 10 Districts and from 2nd

October 1978 in several other districts through the District Industries Centres in the entire State except the towns and villages having population more than 25000 according to the 1971 census, with ratio of expenditure 50:50 by Central and State Government. Under this scheme, financial as well as other assistance are given as under:—

- (a) All types of entrepreneurial training scheme;
- (b) Expenditure on common facility service centre including land, building, machinery equipment, etc.
- (c) Expenditure on Technical and Managerial staff of experimentally run production centre on economical schemes such as raw materials, deposits, emporia, sales depots etc.
- (d) Expenditure on other departmental schemes including publicity, exhibition, research and departmentally run pilot technological, experimental scheme and subsidy on power.
- 5.4.4.26. These schemes were implemented through the five District Panchayats viz Kachchh, Panchmahals, Junagadh, Sabarkantha and Banaskantha upto 30th April 1978 and the same are implemented through District Industries Centres from 1st May 1978. For the Sixth Five Year Plan 1980-85 the total outlay of Rs. 300 lakhs is provid d of which State share will consist of Rs. 150 lakhs for the programme and 21000 entrepreneurs will be assisted.

5.4.5. Village and Cottage Industries

5.4.5.1. The programmes covered under this group are shown below along with the details of the outlays provided for the Sixth Five Year Plan 1980-85

(Rs. in lakhs).

| | (Rs. in | | |
|------------|--|--|--|
| Sr. No. | Programme | Outlays for the Sixth Plan 1980-85 | |
| | - X | | |
| 1 | 2 | 3 | |
| 1. | Direction and Supervision | 25.00 | |
| 2. | Handloom Industry | | |
| | (a) Handloom Industry | 310.00 | |
| | (b) Intensive Develop- ment of Handloom Indus | try. 140.00 | |

| | | | 3 |
|----|---------------------|--|-----------------|
| | (c) | Gujarat Handloom Development Corpo- ration. | 20.00 |
| 3. | На | ndicraft Industry. | |
| | (a) | Handicraft Industry | 35.00 |
| | (b) | Gujarat Handicraft Development Corpor- ation | 10.00 |
| | (c) | Carpet Weaving Centre | 50.00 |
| | (d) | Woolen Carpet Cell in GEC | 20.00 |
| 4. | Coo | operative Industry. | |
| | (a) | Cooperative Spinning Mills. | 30.00 |
| | (b) | Financial assistance to Industrial Cooperatives. | 100.00 |
| | (c) | Powerloom Cooperative Industry. | 10.00 |
| 5, | | Gujarat State Khadi and Village Industries Board. | 1450.00 |
| 6. | Ot | her Programmes. | |
| | (a) | Training of Industrial artisans. | 3 3 0.00 |
| | (b) | Financial assistance to individual artisans | 220.00 |
| | (c) | Gujarat Marketing Corporation for village and Cottage Indu- stries (GRIMCo) | 3 0.00 |
| | (d) | Establishment of village flaying centres and village tanning | 120.00 |
| | (e) | Rural Production Centres. | 45.00 |
| | (f) | Rural Technology Institute. | 30.00 |
| | (g) | Tribal Development Corporation. | 6.00 |
| | (h) | Mini Industrial Estates in Rural Areas. | 50.00 |
| | | Total | 3031.00 |

Handloom Sector.

5.4.5.2. Handloom industry in its employment potential is only next to agriculture in our Country. Majority of the weavers in Gujarat, almost 85% belong to Scheduled Castes and the remaining belong to various backward and minority communities. Development of Handloom industry in Gujarat especially in the context of 20 point programme, assumes significant importance. The State Government would like to intensify the efforts with a view to ensure that there is no future decline in the number of handlooms in the State and all handlooms at optimum level of production. Government also envisages to see that employment potential in this sector is fully exploited and opportunities for better earning are made available. An outlay of Rs. 470 lakhs has been provided for the Sixth Plan period 1980-85 to implement the Handloom Schemes.

Handicraft Industry.

5.4.5.3. Gujarat has a rich heritage in arts and crafts, in addition to artistic value of the products. Gujarat Handicrafts have a large market at home and abroad. The Gujarat Handicrafts mainly are based on textile, wood and ceramics. The State Design Centre provides valuable service in preservation of traditional skills and innovate them to suit the modern requirements. The State Design Centre is to be strengthened during the Sixth Plan period by opening new sections concerning various handicrafts in the State. Industrial Cooperative Association and 155 Handicrafts Primary Cooperative Societies are also to be encouraged. A special rebate is granted every year for a week to promote marketing of handicrafts. An outlay of Rs. 35 lakhs for the Sixth Plan is provided to benefit the artis ns engaged in various crafts.

Gujarat Handicrafts Development Corporation.

5.4.5.4. Gujarat State Handicraft Development Corporation provides marketing support to the artisans of Gujarat. It has a small net-work of emporia in big cities. viz. New Delhi, Bombay and Ahmedabad. There is a need to improve the marketing net-work by opening new Emporia at other important centres in the country. The Corporation has also to perform developmental role by setting up 3 Museums Gandhinagar, Shamalaji and Saputara to exhibit rare collections of handicrafts. It has also to popularise improved specimen of various handicrafts. It also sets up production Centres, introduce new designs and patterns and helps the artisans to project their products and exhibitions. It also exports articles of handicrafts. On account of initial difficulties, which it faced in marketing, there is an accummulated loss of about Rs. 12 lakhs at the end of the last plan. It will be necessary to provide additional share Capital to Gujarat State Handicrafts Development Corporation to enable it to undertake its activities. An outlay of Rs. 10 lakhs is provided for Sixth Plan period for the purpose.

Power'oom Industry.

5.4.5.5. There are 28 power loom societies in the State having 853 licenced power-looms. Of the above 28 powerloom societies, 20 are working and 600 power-looms are active. Eight Powerloom societies are defunct having 253 idle powerlooms. It is proposed to activise the powerlooms by revitalising the existing societies or by transfer of looms to new societies. An outlay of Rs. 10 lakhs is proposed for the Sixth Plan with a target to activise 250 powerlooms.

Financial Assistance to Industrial Artisans.

5.4.5.6. A new scheme is introduced from 1st April 1979 under which artisans are given financial assistance at concessional rate of interest by public sector banks. Artisans and entrepreneurs falling within the definition of Cottage Industries are eligible to obtain such loan from public sector banks, Urban Cooperative Banks and recognised financial institutions to the extent of Rs. 25,000/- at a rate of interest not exceeding 12 percent. In respect of the artisans belonging to scheduled costes and scheduled tribes the loans will be routed to them through the Scheduled Caste Economic Development Cooporationand the Tribal Development Corporation respectively. Those artisans who are not entitled to get the benefit of D.R.I. Scheme will be given interest subsidy at the following rate:—

Rate of Interest-subsidy

| 1 | Loans to Artisans from Tribal Areas | 6% |
|---|---|----|
| 2 | Loans to Artisnas from Scheduled Castes and other backward classes | 5% |
| 3 | Loans to other Artisans. | 4% |

5.4.5.7. The benefit of the differential rate of interest (i. e. rate of W.P.C.) on loan will be made available to all eligible artisans. Besides, as against loans sanctioned by the banks for purposes of tools and equipments subsidy at the following rate is given.—

| Lim | it of the loan | Loan to Tribals | Loans to Persons from S.C. and other B. Cs. | |
|-----|----------------|--------------------|--|---------|
| | 1 | 2 | 3 | 4 |
| 1 | Upto Rs. 5000 | 50P.C. | 40 P.C. | 30 P.C. |
| 2 | 5000 to 10000 | 50 P.C. | 35 P.C. | 25 P.C. |
| 3 | 10000 to 25000 | 40 P.C. | 30 P.C. | 20 P.C. |

5.4.5.8. During the year 1979-80 an expenditure of Rs. 53 lakhs was incurred benefitting 9453 artisan loances. An outlay of Rs. 220 lakhs has been provided for the Sixth Plan 1980-85 to benefit 70,000 artisans and self employed persons. Government is also visualising a scheme to aid small ventures of self employed persons during the Sixth Plan. The total credit which would be made available to this sector during the plan would be Rs. 3000 lakhs from the banks. The number of S.T./S.C. beneficiaries would be 20000 each and efforts will be made to cover as many persons of weaker section as possible under the scheme.

5.4.5.9. A large group of self employed people particularly in the urban areas has so far remained uncovered in our net work of financial support and assistance for such productive activities. These are hand eart pullers, farsan makers, way side tea stall vendors etc. who are earning their small livelihood, but have been left out in all schemes of financial assistance for raising their productivity. It is proposed to formulate definite programmes for this informal entrepreneur sector having due regard to the large number of families earning livelihood from such activities and the scope for enhancing their earnings with small financial support for purchase of better equipments and working capital requirements.

Khadi and Village Industries:

5.4.5.9. Khadi and Village Industries are employment oriented programmes. With the adoption of improved technology in Khadi and village industries there has been a rise in production of Khadi and village industries and simultaneously it has ensured quality of products and lessening of mannual labour. The Khadi and Village industries programme is still capable of providing employment in remote and tribal areas of the State. The programme has provided employment to 72,000 workers at the end of 1979-80. Its production has been of the order of Rs. 2792 lakhs and sale has been of the order of Rs. 2681 lakhs. It has paid wages of Rs. 637 lakhs. An outlay of Rs. 1450 lakhs has been provided to carry out the schemes of the Board during the Sixth Plan pe-

Jevelopment of Khadi.

5.4.5.10. New Model Ambar Charkhas with 6 pindles can provide full employment. Till 1979-30, 33000 Ambar Charkhas are made available. Troviding of Ambar Charkhas need be coupled with upply of quality slyvers (pooni). At present there are 8 puni plants and 10 more units are likely to ecommissioned shortly. If Khadi industry has a stand and consolidate its position expert wearers are necessary. Alongwith this, strengthening f sale outlets is also necessary. Thus for 3 objectives viz. supply of quality slyvers, facilities to reavers and strengthening of marketing outlets he State Khadi and Village Industries Board has

drawn out a phased programme. Since and Village Commission give Charkhas only on loan and the beneficiaries being too poor are not able to afford it. State Board's scheme of 'Right to Work' is modified to provide 75% subsidy to and 50% subsidy to others and also to provide all other supporting facilities like training, management, grant, rent and processing facilities from State budget. It is expected that the Commission will supply 40,000 Charkhas i.e. 1600 units of 25 Charkhas. This will ensure employment to 45,300 people in spinning, weaving and processing activities. It will imply that the number of persons to be given employment during the next 5 years will be almost the same which has been provided so far from the inception of Khadi programme. terms of value of production it will go from Rs. 597 lakhs to Rs. 1200 lakhs at the end of the Sixth Plan period.

Village Industries:

5.4.5.11. Village pottery, tanning, oil ghani, rice milling etc. are village industries, KVIC generally provides loan and subsidy. KVIC scheme has to be supported in various ways and publicity workshops, rebate and interest subsidy are required to motivate village artisans and render assistance. Cumulative efforts of this have been that there has been a rise both in number and quality of products from small rice millers, paper units, toilet soap and laundry soap and leather items. It is also realised that institutions engaged in promotion of Khadi and Village industries have to be subsidised atleast for loan from financing institutions.

Establishment of Village flyings Centre.

5.4.5.12. Gujarat Leather Co. promoted by GIIC had carried out survey and indicated 200 potential locations for intensive development of decentralised leather industry. It has estimated that in addition it will have to provide all infrastucture facilities like construction of tannaries, flaying centres, hygenic environment, carting of carcus and better tools and chemicals. The investment in the sector would have to be viewed as social and economic infrastructure for the benefit of the weaker sections which have not derived direct or indirect benefit of the development. Provision of Rs. 120 lakhs has been made for the purpose for the Sixth Plan, 1980-85.

Rural Technology Institute, Gandhinagar.

5.4.5.13. One of the major handicaps of rural industries is its out dated and perhaps, obsolete technology and tools and equipments. If it has to survive it should imbibe advances made in science and technology. Advancement in rural technology is therefore, necessary. Government of Gujarat has therefore, set-up a rural Technology Institute. Intermediate Technology Development Group London has been engaged as consultant. The

Institute has been set up on the lines of ITDG recommendations. It is a society registered under Societies Registration Act and a Trust under Public Trust Act. Its role is to identify technological problems to develop tools and equipments which will reduce fatigue of an artisans's labour and ensure greater productivity. The institute has a plan to undertake various projects. Most of the artisans in Gujarat belong to category of village potters, carpenters, blacksmiths, leather workers and bamboo workers. The Institute therefore, proposes to motivate and induce artisans to adopt scientific technology and provide improved tools and equipments of their operations. Categories of arttisans proposed to be covered during the Sixth Plan period are as under :-

Class of artisans

| 1. | Potters or Brick layers. | 2400 |
|----|----------------------------|----------------------|
| | Carpenters. | 2250 |
| | Blacksmiths. | 1500 |
| 4. | Leather workers | 1750 |
| 5. | Bamboo workers and others. | 1 50 0 |
| | Total | 9400 |

Mini Industrial Estates:

5.4.5.14. The units of Cottage Industries generally exist side by side with the residential accommodation of artisans. There is concentration of them at many places for a particular craft or industry. There is a scheme to offer Godown-cum-Workshed under Industrial Co-operatives. But artisans who are generally individualists prefer to have direct support and to have independent space for this work. Gujarat Industrial Development Corporation sets-up modern Industrial Estates for organised small scale industries and it is over burdened in view of the rapid industrialisation in the State. It is therefore, necessary to entrust to D. I. C. some provisions which could be utilised to provide common infrastructural facilities to Cottage Industries. Gujarat Rural Industrial Marketing Corporation which intends to set up 50 Rural Marketing Centres would also need infrastructural facilities. Many handloom weavers, leather workers and other handicraft artisans have already indicated their preference for worksheds at a common side. They may also be organised in service co-operatives or as Rural Marketing Centres. Voluntary agencies and industrial houses have also shown thair willingness to undertake the work-shed construction programme provided the same is supported by Government subsidy. The loan portion is to be obtained from banks and the Margin required will be covered by subsidy and self help. A provision of Rs. 50 lakhs has been made for the scheme for the Sixth Plan.

Salt manufacturing:

5.4.5.15. Salt manufacturing has a great potential for development in rural and self-employment sector. The State Government has already introduced a scheme of granting small plots upto 10 acres in the littleR ann of Kachchh and other saline areas of

Surendranagar, Banaskantha and Kachchh districts to help salt labourers become self-employed small manufactureres and improve their economic lot. Realising the need for giving marketing support to this growing rural and small scale sector of salt industry, the Gujarat Rura IIndustries Marketing Corporation (GRIMCO) has decided with financial support from Government to enter into marketing of salt. This will fill one long felt missing link of marketing for small scale, and cooperative sector and improve its viability. This would incidentally also help the other salt consuming States to meet consumers' demand for this essential commodity on steady basis thereby introduce an element of price stability against vulnerability of market forces.

5.4.6. Mining and Mettallurgical Industries

5.4.6.1. An outlay of Rs. 1150 lakhs has been proposed for the Sixth Five Year Plan 1980-85.

The programmes covered under the sub-sector are shown below along with details of outlays provided for the Sixth Plan 1980-85.

(Rs. in lakhs)

Ontlave

| Sr. No. | Programme | provided for Sixth Five Year Plan |
|------------|---|---|
| | | 1980-85 |
| _1 | 2 | 3 |
| of | nsion and Reorganisati Directorate of Geolog | |
| | d Mining | 350,00 |
| | s to Gujarat Miner velopment Corporation | |
| | Total | 1150.00 |

Gujarat Mineral Development Corporation Limite

5.4.6.2. The Corporation has set up 5 project viz. Flourspar Project. Kadipani (District Vadodara) Bauxite Mining Project, Mandvi, (District Kachchh Bauxite Mining Project, Mevasa (District Jamnagar) Glass-sand Project, Surajdeval (District Surendra nagar) and Lignite Mining Project, Panandhr (District Kachchh) with an investment of abou Rs. 700 lakhs. Implementation of these five project has helped to create and provide direct employmen to about 2500 employees out of whom 80% comprise of adivasis and tribal people.

Fluorspar project, Kadipani (District Vadodara).

5.4.6.3. The plant is the first and only one a its kind in the country and has been put up wit Indian know-how, indigenous machineries and India Engineers. The project has successfully helped i saving crores of rupees of foreign exchange an providing employment to large number of adiva workers besides earning appreciable return of capita investment.

Glass-sand project, Surajdeval (District Surendranagar)

5.4.6.4. The Corporation is considering to put up 500 MT per day capacity, crushing, grinding and washing Plant in joint sector to meet with the demand of washed sillica-sand which is estimated to be over 3 lakh MT per year by the end of 1984-85. The mining of sand-stone will have to be developed so as to mine and feed such a plant to the extent of 700-800 MT per day. Mining will be partially mechanised and more labourers will be employed.

Lignite project, Panandhro (District Kachchh).

5.4.6.5. Ligaite mines in Kachehh District are being developed and exploited rapidly with a view to mitigate acute shortage of coal being experienced for last two to three years in the State. On an average 800 MT of lignite per day is being supplied to various industries and thermal power stations of the State.

Bauxite Mining and Alumina project (District Kachchh).

5.4.6.6. The Corporation has been mining-bauxite in Saurashtra and Kachchh regions with a view to supply to consuming industries. The Corporation has been endeavouring for putting up an Export Oriented Alumina Plant on rich bauxite deposit of about 30 million tonnes available in the Kachchh district. In the year 1978, the Corporation entrusted the work of study and preparation of techno-economic feasibility of Alumina Plant Project of 3 lakh MT capacity per year to a Hungarian firm M/s. Chenokamplex at the cost of U. S. 400,000.

The feasibility study report was received and the same was sent to the Ministry of Mines and Metals and Bharat Alumina Company for their study and comments. As per the recommendations, the Corporation will have to find out a foreign shelter-which can undertake to purchase alumina atleast for first 10 to 15 years besides raising finance to meet with the estimated capital outlay of Rs. 20,170 lakhs. The Corporation is in touch with the Central Ministry as well as Hungarian Consultants to find out the ways and means for implementation of the project.

Bauxite Calcination Project-KFTZ (DistrictKachchh)

5.4.6.7. Based on the available high quality bauxite in Kachchh District the Corporation is considering to put up a joint sector project to manufacture refractory grade calcined bauxite which is prime raw material for high alumina refractories which is being used in glass, steel, cement, chemical and aluminium industries. The estimated capacity of the calcination plant will be 100,000 MT per year. The entire production will be exported from Kandla Free Trade Zone which will earn precious foreign exchange for the country. The estimated capital outlay on this project will be Rs. 1000 lakhs.

Sixth Five Year Plan 1980-85

5.4.6.8. The projectwise details of the total estimated capital outlay for the Sixth Plan period as estimated by the Corporation is Rs. 160.00 crores. Against this, the State budgetary support of Rs. 800 lakhs is proidved for the Sixth Plan.

STATEMENT

INDUSTRIES AND MINERALS

List of Schemes included in the Sixth Five Year Plan-1980-85.

(Rs. in lakhs)

| Sr. No. | No | o. and | Name of the scheme | Sixth | Five Year Pl | an-1980-85-Outl |
|------------|-------|---------------|---|-------|--------------|-----------------|
| NO. | | | | | Total | Capital |
| 1 | | | 2 | | 3 | 4 |
| A) | Gene | ral. | | | | |
| | (a) I | Direction | and Administration. | | | |
| | 1. | IND-1 | Monitoring and planning cell in I M & PD | •• | 5.00 | |
| | 2. | IND-2 | Strengthening of technical and statistical wing in the office of Industries Commissioner. | • • | 15.00 | •• |
| | | | Total (a) | | 20.00 | •• |
| | (b) | Standar | lisation of quality Control. | | | |
| | 3. | IND-3 | Weights & Measures | •• | 60.00 | 15.00 |
| | | | Total_(b) | | 60.00 | 15.00 |
| | (o) | Industri | al Education, Research and Training. | | * | |
| | 4. | IND-4 | Research and Development scheme | | 200.00 | •• |
| | 5. | IND-5 | Hosiery training and research centre (CED) | | 5.00 | - |
| | 6. | IND-6 | Industrial Research Laboratory, Vadodara | | 250.00 | •• |
| | | | Total (c) | | 455.00 | |
| | (d) | Other E | xpenditure. | | | |
| | 7. | IND-7 | Export Award | | 2.00 | ••• |
| | 8. | IND-8 | Pollution control scheme | | 30.00 | •• |
| | 9. | IND-9 | Financial incentives to Film studies set up in the State. | | 25.00 | •• |
| | 10. | IND-1 | Construcation of residential quarters for employees of Govt. press. | | 22.00 | 22.00 |
| | | | Total (d) | | 79.00 | 22.00 |
| | | | Total-(A)-General $(a+b+c+d)$ | | 614.00 | 37.00 |
| () | | Large | & Medium Industri.es | | | |
| | 11. | (a) IND-11 | Petrolium chemicals and fertilizer industries. Gujrat Petrochemical Corporation | | 500.00 | 500.00 |
| | 12. | IND-12 | GNFC Water supply plant. | | 495.00 | 495.00 |
| | 13. | IND -13 | New Fertilizers project based on Bombay High Gas. | | 300.00 | 300,00 |
| | | | Tetal (a) | | 1295.00 | 1295.00 |

| 1 2 | | 3 | 4 |
|--|--------------------|-----------------|-----------------------|
| (b) Ship Building and Aeronotical Industries | | - | |
| 14. IND-14 M/s. Alcock Ashdown Co. | | 22.00 | 22.00 |
| | Total (b) | 22 00 | 22 09 |
| | _ | | |
| (e) Tele communication and Electronics Industry | | | *: Ti |
| 15. IND-15 Gujarat Communication and Electronics Ltd. | | 200.00 | 200 00 |
| | Total (c) | 200.00 | 200.00 |
| (d) Consumer Industries. | _ | | G 7" 8 |
| 16. IND-16 Gujarat State Toxtile Corporation | | 5.00 | 5.00 |
| 17. IND-17 Govt. Contribution to Narmada Cement Co. | | 53. 00 | 53 .00 |
| 18. IND-18 Girnar Scooter Project. | | 150.00 | 150.00 |
| | Total (d) | 208.00 | 208.00 |
| | | | 8 * |
| (e) Industrial financial institutions | | | |
| 19. IND-19 Gujarat Industrial Investment Corporation (MB) | | 550.00 | 550.00 |
| 20. IND 20 GIIC (Projects) | | 27 00.00 | 2700.00 |
| 21, IND-21. Captive pewer generation | | 499.60 | 499.60 |
| | Total (e) | 3749.60 | 3749.60 |
| (f) Other Excenditure. | - | | |
| 22. IND-22 Index grant for promotional activities | | 25 .00 | |
| 23. IND-23 Grant of loan to Industreles for the amount of sales | s tax paid on sale | | |
| of finished products, | _ | 250.00 | 25 0 00 |
| | Total (f) | 275.00 | 250.00 |
| Total-(B)-Large & Medium Industries (a+b+c+d+e | +f) | 5749.00 | 5724.60 |
| (C) VILLAGE AND SMALL INDUSTRIES. | _ | 1 | · |
| (a) Small Industries. | | | |
| 24 IND-24 Share Capital Contribution/Loan to GSFC. | | 100.00 | 100.0 |
| 25 IND-25 Gujarat Industrial Development Corporation (MB). | | 32 00.00 | 3200.0 |
| 26 IND—26 GIDC Margine Money. | | | |
| 27 IND-27 Subsidy to GIDC for industrial areas and township (GI | DC). | 1.40 | |
| 28 IND-28 Pilot Plant for testing facilities (GIDC). | | 20.00 | |
| 29 IND-29 Critical infrastructure facilities for backward areas (GII | DC). | 60.00 | |
| 30 IND-30 Workshop in Rural and Backward Areas (GIDC). | | 20.00 | |
| 31 IND-31 Common Industrial facilities Centres (GIDC) 1-2683-51 | | 20.00 | •• |

| 1 | _ | 2 | 3 | 4 |
|---------------|-------------------------|--|---------------|---------------|
| 32 | IND-32 | Grant in aid for providing integrated training skill to industrial area (GIDC). | 25.00 | •• |
| 33 | IND -33 | Grant in aid to CED. Industrial self employment in rural and backward areas. | 60.00 | •• |
| 34 | [ND-31 | Lova to Gajarat Small Industries Corporation for Higher purchase Scheme. | 37 .00 | 37 .00 |
| 35 | IND-35 | Trade Contribution for Marketing fund for GSIC to provide marketing assistance to units. | SSI 40.00 | |
| 36 | IND-36 | Trade Centres. | 25.00 | 10.00 |
| 37 | IND-37 | Diamond Industries complex. | 25.00 | •• |
| 38 | IND-38 | Capital subsidy and growth centres. | 2500.00 | •• |
| 39 | IND-39 | District Industries Centres. | 160.00 | •• |
| 40 | IND-49 | Rural Industries Project. | 150.00 | •• |
| 41 | IND-11 | Apprentice Training in Government Printing Press. | 22.00 | •• |
| 42 | IND-12 | Package assistance to SSI. | 100.00 | 144 |
| | | Total:—(a) Small Industries. | 6565.40 | 3347.00 |
| | (b) | Village and Cottage Industries. | | |
| 43 | IND-13 | Administrative and Supervisory staff. | 25.00 | •• |
| | (2) HA | ndloom industries. | | |
| 44 | IND—14 | Handloom Industry. | 310.00 | 39.00 |
| 45 | IND -45 | Intensive Davelopment of Handloom Industry. | 140.00 | 62.00 |
| 46 | IND -16 | Gujarat Haudloom Development Corporation. | 20.00 | 20 .00 |
| | | Total (2) | 470.00 | 121.00 |
| | (3) HA | ANDICRAFT INDUSTRY. | | |
| .47 | IND-47 | Handioraft Industry. | 35. 00 | •• |
| ≼48 | IND-48 | Gujarat Handieraft Development Corporation. | 10.00 | 10.00 |
| . 4 <u>49</u> | IND-49 | Carpet weaving Centre. | 50.00 | |
| 5 0 | IND -5) | Woolen Carpet Centre in Gujarat Expert Corporation. | 20.00 | •• |
| | | Total (3) | 115.00 | 10.00 |
| | ((4) CO | -OPERATIVE INDUSTRIES. | | |
| 51 | IND-51 | Gooperative Spinning Mill. | 30.00 | 30.00 |
| 52 | INO → 52 | Figure 1 assistance to industrial Co-operatives. | 100.00 | 32.50 |
| .53 | IND-53 | Handloom Co-operative Industry. | 10.00 | 7.50 |
| | (5) KI | Total (4) | 140.00 | 70.00 |
| 54 | | Gujarat State Khadi & Village Industr8es Board. | 1450.00 | 171.55 |
| J_ | | HER EXPENDITURE. | | |
| 5 | | | 330.00 | 48.4 |
| 5 | | | 220.00 | |
| 57 | | The state of the C. This state of T. I. a. (CDT) | 30.00 | 22.50 |
| | | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | 120.00 | -2.0(|
| 58 | () () () () () () | | | |

| 1 2 | 3 | 4 |
|--|----------------|----------|
| 6) IND-80 Rural Technology Institute. | 30.00 | •• |
| 61 IND-31 Gujarat Tribal Dovelopment Corporation. | 6.00 | |
| 62 IND-62 Mini Industrial Estates in Rural areas. | 50.00 | •• |
| Total (6) | 831.00 | 70.90 |
| Total (b) Village & Cottage Industries. | 3031.00 | 443.42 |
| Total (C)-Village and Small Industries. | 9596.40 | 3790.42 |
| (D) MINING AND METALLURGICAL INDUSTRIES. | | |
| (a) Mineral Exploration Development. | | |
| 63 IND-63 Expansion and Reorganisation of Directorate of Geology and Mining. | 35 0.00 | •• |
| 64 IND-64 Link Road in Mining areas. | | |
| (b) Loan for Mining & Metalluragical Industries. | | |
| 65 IND -35 Leans for Gujarat Mineral Development Corporation. | 800.00 | 800.00 |
| Total (D)-Mining. | 1150.00 | 800.00 |
| GRAND TOTAL : Industries & Minerals. | 17110.00 | 10352.02 |

6. TRANSPORT AND COMMUNICATIONS

Development of infrastructural facilities has been given a high priority in the current phase of development. Transport constitutes one of the most important infrastructural facilities for supporting productive activities and the distribution system. Development activities in this sector also generate large employment opportunities. Each mode of transport has a distinct role to play in the econony and its inherent advantages should be exploited optimally within a coordinated system.

- 2. The State is lagging behind in the sphere of road development including rural roads. The passenger transport service also needs to be extended to more interior areas. The development of ports and harbours has also speical significance for Gujarat which is a principal maritime State in the country with 39 minor and intermediate ports dotted all along its 1600 kms. of coastline. There is vast scope for development of tourism with a number of places of tourists intoperest both ancient and modern which can attract even foreign tourists is large numbers.
- 3. An outlay of Rs. 33860 lakhs is provided in the Sixth Plan 1980-85 for Transport and Communications. Its distribution over the various sub-sectors is as follows:—

(Rs. in lakhs)

| | Sub-Sector of Development | Proposed Outlay 1980-85 | <u></u> |
|----------------------|--|-------------------------------------|---------|
| 1. 2. 3. 4. | Road Development Road Transport Tourism Ports, shipping and Light houses | 22,000 9,000 260 2,600 | |
| | Total | 33,800 | |

An outline of the programme is given in subsequent paragraphs.

6.1. ROAD DEVELOPMENT

6.1.1. Introduction

6.1.1.1. An acknowledged transport economist of U. S. A. stated :—

"We were not wealthy nation when we began improving our highways, but the roads themselves helped us to create a new wealth in business, industry and land values. So it was not our wealth that made our Highways possible. Rather, it was our highways that made our wealth."

"You pay for the roads whether you have them or not, you pay more if you do not have them" Roads are potent instrument for the economic growth of country. 6.1.1.2. The roads play an important role in the development of industries and agriculture, distribution of chain of business and have become part of the fabric of our daily life. The diversification of industries and general economic development depends upon adequate road system. Rural roads play a vital role in dispersing industries in backward areas, providing productive employment creating a link between industries and agriculture and forging closer ties between producers and consumers, in rural and urban areas. The rural roads help to modernise outlook of rural population by exposing them to modern way of life.

6.1.2. Basic Infrastructure of economy:

6.1.2.1. In the context of restructuring the plan with a focus on agriculture, rural development and rural industries coupled with the need for substantial generation of employment, the road development programmes have significant role in the Sixth Five Year Plan. Besides, being an important component of basic infrastructure for the economic development of the country, roads, during the construction phase also generate considerable employment. Roads provide an effective means of transport for haulage of goods and passengers over short and medium distances. Within an integrated road development programme, rural roads are proposed to be assigned higher priority so as to bring more of our villages into the national mainstream.

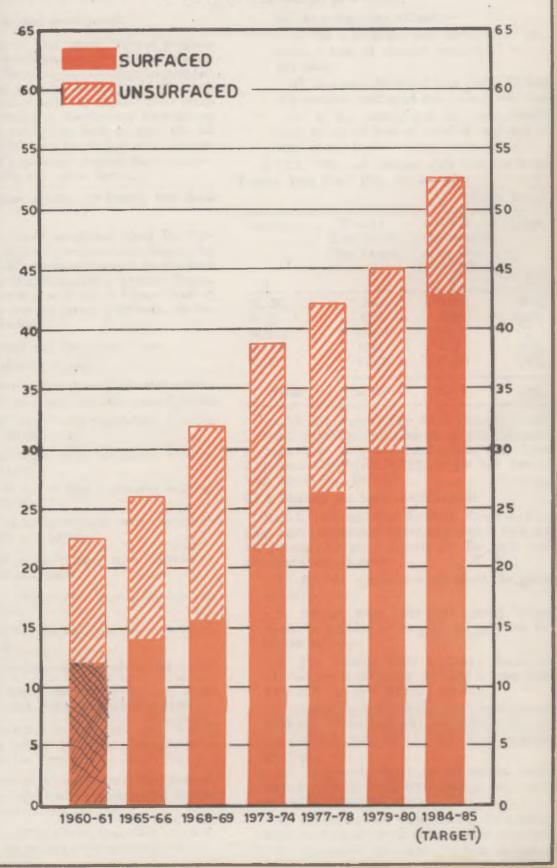
6.1.3. In Retrospect:

6.1.3.1. The road length including the National Highways constructed during various plans is indicated below:—

| | | | (Length i | n Kms.). |
|------------|---------|----------|------------|-------------------------|
| Sr. No. | Year | Surfaced | Unsurfaced | Total |
| 1 | 2 | 3 | 4 | 5 |
| 1 | 1950-51 | 6,621 | 6,533 | 13,154 |
| 2 | 1955-56 | 7,786 | 10,001 | 17,787 |
| 3 | 1960-61 | 11,930 | 10,699 | 2 2,6 2 9 |
| 4 | 1965–66 | 14,104 | 11,925 | 26,029 |
| 5 | 1968-69 | 15,685 | 16,526 | 32 ,2 11 |
| 6 | 1973–74 | 21,632 | 17,349 | 38,981 |
| 7 | 1977-78 | 26,252 | 16,107 | 42,359 |
| 8 | 1978-79 | 27,519 | 15,737 | 43,256 |
| 9 | 1979-80 | 29,895 | 15,213 | 45,108 |
| | | | | |

LENGTH OF ROADS

IN THOUSAND KILOMETRE



6.1.3.2. After formation of Gujarat State in 1960-61 the road length which was 22,629 Kms. has increased to 45,108 Km. in 1979-80. Categorywise details are shown in Appendix-I.

6.1.4. Backlog in road development.

6.1.4.1. Despite the good rate of progress achieved in road development in Gujarat in relation to other several States in the Country, Gujarat has been lagging far behind. According to the latest available statistics of 1978-79, Gujarat State ranks 18th among the States in the Country with 23 kms of road length per 100 sq. kms. against the all India average of 39 kms. In terms of road length, per one lakh of population Gujarat State occupies 20th place among the other States.

6.1.5. Achievement against the Twenty Year Road Plan.

- 6.1.5.1. The second integrated Road Development Plan lays down a comprehensive formula for arriving at the Kilometerage required for National Highways, State Highways, Major District Roads, Other District Roads, and classified Village Roads or any given unit area by giving weightage to the following basic factors:
 - (i) Developed and agricultural areas.
 - (ii) Semi developed area.
 - (iii) Undeveloped and non-cultivable areas.
 - (iv) No. of towns with population over 1,00,000
 - (v) No. of towns with population between 1,00,000 and 50,000.
 - (vi) No. of towns with population between 50,000 and 20,000.
 - (vii) No. of towns population between 20,000 and 10,000.
 - (viii) No. of towns/villages with population between 10,000 and 5,000.
 - (ix) No. of towns/villages with population between 5,000 and 2,000.
 - (x) No. of villages with population between 2,000 and 1,000.
 - (xi) No. of vil'ages with population between 1,000 and 500.
 - (xii) No. of villages with population below 500.
 - (xiii) Allowance assumed at 5% for future development and other unforeseen factors.
- 6.1.5.2. In addition to the above, the following ther important factors have also been considered in formulation of the Twenty Year Road Plan:—
 - (1) Location of administrative headquarters, places of pilgrimage, health resorts, tourist centres, Universities and cultural centres.
 - (2) Location of industries, important commercial centres, big railway junctions and ports.
 - (3) Strategic needs of the Country.

- The objective of 1961-81 road plan is to provide a network of highways as under:—
- (1) to provide 32 kms. of road per 100 sq.kms. of area on an average.
 - (2) to bring every village :-
 - (a) In a developed and agricultural area within 6 kms. of metalled road and 2 kms. of any road;
 - (b) in a semi-developed area within 12 kms. of a metalled road and 4 kms. of any road and;
 - (2) in an undeveloped and noncultivable areas within 18 kms. of metalled road and 7.5 kms. of any road.
- 6.1.5.3. The achievement with reference to the Twenty Year Road Plan are as under:—

(Fig in Kms.)

| | | , 0 | , |
|-------------------|-------------|------------------------|-------|
| Category | Twenty | Roads | %age. |
| • | Year Read | $\mathbf{Achievement}$ | ,,,, |
| | Plan Target | of as on | |
| | Ü | 31 -3-1980 | |
| 1 | 2 | 3 | 4 |
| N. H. | 3602 | 1435 | 39% |
| S. H. | 6168 | 9097 | 146% |
| M.D.R. | 14382 | 10542 | 73% |
| $\mathbf{O.D.R.}$ | 16441 | 10571 | 64% |
| VR. | 17035 | 13463 | 78% |
| Total | 57628 | 45108 | 78% |

6.1.5.4. The Twenty Year Road Plan will be over in 1981. At the present rate of growth the target is proposed to be attained not earlier than 1988. At present the deficit is 22% as per the Twenty Year Road Plan 1961-81.

6.1.6. Strategy and basic considerations

- 6.1.6.1. In formulating the Sixth Five Year Plan some basic considerations have been kept in view and the priorities are given accordingly. The main considerations are as under:—
 - 1. All the spill-over works should be given priority.
 - 2. Missing road links and missing bridges should be included in the plan and be given the highest priority.
 - 3. The existing State highways should be widened where the traffic intensity is more than 3000 P. C. U. (per car unit) per day.
 - 4. Rural roads connecting the population of 1500 and above and also the villages having population between 1000 to 1500 should be given priority.
 - 5. To provide roads having special needs such as Mining, Industry, Dairy, etc., and Irrigation command areas.
 - 6. Improving and strengthening the existing weak stretches and weak bridges and C. D. works.
 - 7. To press the Government of India to declare more State Highways as National Highways.

6.1.7. Spill-over liabilities

6.1.7.1. The Sixth Plan opens with very heavy spill-over liabilities amounting to Rs. 10765 lakhs, the details of which are as under:—

Spillover liabilities as on 1st April, 1980

(Rs. in lakhs)

| Sr. No. | | | Iter | n | | | No. of works | Estimated Cost | Expenditure upto March, 1980 | |
|------------|----------------------------|---------------|----------------|----------------|-------|----|-----------------|-------------------|------------------------------------|-------------------|
| 1 | | | 2 | | | | 3 | 4 | 5 | 6 |
| Į. | | rmal Panch | ayat | | | | | | | |
| | | | oads ridges | 721 | 1.0 | •• | 1659 90 | 7743 1058 | 2392 221 | 5351 837 |
| | | | | Total—(a) | •• | •• | 1749 | 8801 | 2613 | 6188 |
| | (<i>b</i>) | Govern | ıment | | | _ | | | | |
| | | | oads ridges | • | • | •• | 139 89 | 2733 2187 | 1158 845 | 1575 1342 |
| | | | | Total—(b) | •• | | 228 | 4920 | 2003 | 2917 |
| | | | | I Total—(| a+b) | | 1977 | 13721 | 4616 | 9105 |
| II. | Tri | bal | | | | - | | | | |
| | (a) | Panch | ayat | | | | | - Alle | | |
| | | | oads ridges | | | | 314 52 | 1701 629 | 81 4 195 | 887 434 |
| | (b) | Govern | nment | Total— (a) | •• | - | 366 | 2330 | 1009 | 1321 |
| | | | oads ridges | | | •• | 14 19 | 413 282 | 231 125 | 182 157 |
| | | | | Total— (b) | • • | | 33 | 695 | 356 | 339 |
| | | | | II Total—(a | +b) | •• | 399 | 3025 | 1365 | 1660 |
| | | | (| Grand Total—(I | + II) | •• | 2376 | 16746 | 5981 | 10765 |

6.1.8. Programme for the Sixth Plan 1980-85.

6.1.8.1. An outlay of Rs. 22000.00 lakhs has

been proposed for Road Development Sector in the Sixth Plan. The broad details of the proposed outlay are as under:—

(Rs. in lakhas)

| Sr. | | Programme | Proposed Outlay | Proposed Outlay 1980-85. | | | |
|-----|--------------|--|---------------------|---------------------------|-------|--|--|
| No. | | | State Programme. | Rural Roads (M. N. P.) | Total | | |
| 1 | | 2 | 3 | 4 | 5 | | |
| 1. | Spill | lover liabilties | 3256 | 7509 | 10765 | | |
| 2. | Missi | ing C.D. Bridges on existing surfaced roads | 500 | 100 | 600 | | |
| 3. | ıçmı | rovement of existing roads for rasing to required standard | • • | 200 | 200 | | |
| 4. | Cons | truction of new links for bye-passes | 150 | •• | 150 | | |
| 5. | Wide 3000 | ening the State Highways for having traffic intensity more than P.C.U. (1000 Kms). | 1000 | •• | 1000 | | |
| 6. | Prov | vision proposed for the works of road improvement. | | | | | |
| | (a) | For missing C.D. Bridge works | •• | 58 3 | 583 | | |
| | (b) | Raising to standard surface. | 100 | 1034 | 1134 | | |
| | (c) | Metalling of earthon roads | • • | 2687 | 2687 | | |
| 7. | New | roads to connect the remaining villages. | | | | | |
| | (a) | Having population of 1500 and above. | • • | 2177 | 2177 | | |
| | (b) | Having population of 1000 to 1500. (including roads of Command Area) | | 2369 | 2369 | | |
| 8. | Misc | cellaneous items. | | | | | |
| | (a) | Industrial roads | 50 | •• | 50 | | |
| | (b) | Road safety works. | 25 | •• | 25 | | |
| | (c) | Research and Planning | 25 | •• | 25 | | |
| | (d) | State share for Centrally Sponsored Scheme | 200 | ••• | 200 | | |
| | (e) | Sugarcane roads | 35 | | 35 | | |
| | | Total | 5341 | 16659 | 22000 | | |

6.1.9. Physical Target in Sixth Plan

6.1.9.1. It is proposed to construct the addiacional new road length of 7900 Kms as under:—

(In" Kms.)

| State Highways | | 300 |
|----------------------|-------|------|
| Major District Roads | | 1500 |
| Other District Roads | | 1500 |
| Village roads | | 4600 |
| | Total | 7900 |

6.1.9.2. In addition to the above length, it is proposed to improve about 12500 kms. of roads during the Sixth Plan, which includes conversion of about 5000 Kms. of unsurfaced roads into

surfaced roads. At the end of Sixth P.an Gujarat State will have 51573 Kms. of different categories of roads excluding National Highways.

Minimum Needs Programme Rural Roads.

6.1.10. Rural Roads

- 16.1.10.1. Rural roads need greater attention specially to sustain green revolution. Roads are required to feed villages with fertilizers, hybrid seeds, finished goods, etc. and to takeout marketable surplus quickly to the urban areas.
- 6.1.10.2. With the impact of speed and technology on the present day life the aspirations of the people even in villages are growing day by day. The green revolution has brought good measures of prosperity to our country side and the

stage is now set for the rural sector to play an increasingly important role as a consumer force. Not only every village now desires to be connected by road with rest of the world but, also desires to have a smooth, modernised all weather road to suit the modern means of transport such as motor-cars, trucks, passenger buses, etc.

High proportion of Kachchha Roads

6.1.10.3. The State suffers from serious lag in the matter of road development as stated earlier. The position in regard to rural roads is also not satisfactory. Out of the road length of 43673 Kms. (excluding National Highways) 55 % are rural roads. Further nearly 50% of the rural roads are earthen roads.

Villages joined by Pacca Roads

6.1.10.4. The position in respect of number of villages joined by pucca all weather roads at the end of 1979-80 is detailed below:—

| Population of Villages | Total No. of Villages | Villages joined by pucca roads at the end of 1979-80 | Percentage |
|---------------------------|-----------------------------|--|------------|
| 1 | 2 | 3 | 4 |
| 1500 and above | 3664 | 2441 | 65% |
| 1000 to 1500 | 2964 | 1402 | 47% |
| 500 to 1000 | 5217 | 1830 | 36% |
| below 500 | 6430 | 1739 | 26% |
| Total | . 18275 | 7412 | 41% |

6.1.10.5. Only 41% of Villages have been joined by pucca roads by the end of 1979-80 and there are still 10863 villages to be provided with pucca roads as under:—

| Villages having population of | No. of villages to be joined after 31-3-1980. |
|-------------------------------|---|
| 1500 and above | 1223 |
| 1000 to 1500 | 1562 |
| 500 to 1000 | 3387 |
| below 500 | 4691 |
| | 10863 |

According to the norms of Minimum Needs Programme it is targetted to cover all the remaining 1223 Villages having population of 1500 and above, and 50 % of the villages having population between 1000-1500 during the Sixth Plan 1980-85.

6.1.11. Spillover liabilities of rural roads in Sixth Plan

6.1.11.1. The spillover liabilities of rural roads at the end of the 1979-80 are of the order of Rs. 7509 lakhs as indicated below:—

Fat:

Qn:11 A-

| | No. of works | Esti- mated cost | Expenditure upto 31-3-80 | liabilities as on | |
|---------------------|-----------------|------------------------|--------------------------|----------------------|--|
| Panchayats | | | | | |
| a. Normal | | | | | |
| Roads | 1659 | 7743 | 2392 | 5351 | |
| $\mathbf{Bridges}$ | 90 | 1058 | 221 | 837 | |
| Total a | 1749 | 8801 | 2613 | 6188 | |
| b. Tribal | | | | | |
| Roads | 314 | 1701 | 814 | 887 | |
| $\mathbf{Bridges}$ | 52 | 629 | 195 | 434 | |
| Total b | 366 | 2330 | 1009 | 1321 | |
| GRAND TOTAL (a + b) | 2115 | 11131 | 3622 | 7509 | |

- 6.1.11.2. In addition to these heavy spillover liabilities, there are certain existing roads on which C. D. works/bridges are required to be constructed in order to make them useable in all seasons. There are certain below standard roads having insufficient crust thickness which have to be brought to the standard surface. Large number of earthen roads are also to be provided with metal or asphalt surface. It is programmed to complete all the on going works during the Sixth Plan.
- 6.1.11.3. Out of the total allocation of Rs. 22,000 lakhs a provision of Rs. 16,659 lakhs has been proposed for the Minimum Needs Programme including Rs. 7509 lakhs for the entric spill over works.

6.1.12. Physical Targets in the Sixth Plan under M.N.P.

6.1.12.1. Under the Minimum Needs Programme it is targetted to cover additional 3654 villages as under:—

| Villages having Population of | Target in the Sixth Plan |
|----------------------------------|-----------------------------|
| 1500 and above | 1223 |
| 1000-1500 | 781 |
| 500-1000 | 8 50 |
| Below 500 | 800 |
| | 3654 |
| | |

6.1.12.2. The new road length that will be added during the sixth plan is as under:

| MDR | 1500 |
|-----|------|
| ODR | 1500 |
| VR | 4600 |
| | 7600 |
| | |

In addition to above new road length it is proposed to improve 9800 Kms. of roads under this programme.

Special Programme :-

6.1.13. Tribal Areas Sub-Plan.

- 6.1.13.1. During the Fifth Five Year Plan p:riod 1974-78 in tribal area sub-plan an expenditure of Rs. 823 lakhs have been incurred and 841 Kms. of roads have been constructed. During 1978-79 an expenditure of Rs. 438.15 lakhs have been incurred and 300 Kms. of roads have been constructed. During 1979-80 an expenditure of Rs. 473.18 lakhs have been incurred.
- 6.1.13.2 A total outlay of Rs. 5111 lakhs is proposed for the Tribal Area Sub-Plan within the total outlay of Rs. 22,000 lakhs for road development in the State plan 1980-85. It is proposed to construct additional road length of 2500 Kms in T. A. S. P. 1980-85.

6.1.14 Roads in command areas:

6.1.14.1 The large investments made in Irrigation Projects highlights the need for the optimum utilisation of the irrigation potential resulting in optimum production. Better means of communications will be needed to move the agricultural production and to meet the other requirements of H—2683—53

the irrigated areas. The World Bank has laid down certain specifications for construction of roads in Sukhi and Panam Projects. Roads in four other projects, viz, Karjan, Daman Ganga, Heran, and Ukai-Kakrapar, are also planned to be undertaken. Villages under the command areas will be joined as per the M. N. P.

6.1.15. Roads in Dairy Development:

6.1.15.1. Dairy is an effective instrument for bringing about Socio-Economic change in the rural-areas. It ensures the weaker sections of people by providing them easily accessible means for increasing their income. In Gujarat 16 Districts have been covered under the milk shed areas of the district unions and the dairies under the dairy Development Corporation. Better means of communications to district dairies/Town dairies or chilling centre, will attract more milk even from the interior. The minimum needs programme will take care of connecting the milk centres

6.1.16. National Highways Central Sector.

6.1.16.1. At the end of 1979-80 the length of National Highways in Gujarat State was 1435 Kms. In the 20 year road plan 1961-81 the target for national highways in Gujarat is 3602 kms. In view of the high defict the State Government has proposed to the Government of India to declare 10 important state highways covering a road lengths of 2283 kms. as national highways. Among the roads proposed for upgradation the following three roads need to be given priority

| | Name of the Road | Length in Gujarat in Kms. |
|---|---|---------------------------------|
| 1 | Ahmedabad-Bhopal Road Via Indore | 180 |
| 2 | Kandla Bamanbore Bombay coastal highway via Malia Jamnagar-Porbandar Bhavnagar, Khambhat, Vadodara; | 861 |
| 3 | Surat Calcutta Road Via Dhulia Nagpur, | 86. |
| | Total | 1127 |

6.1.17. Centrally sponsored programme for 1980-85

6.1.17.1. The State has a common boundary with Rajasthan, Madhya Pradesh, Maharashtra, Daman, Dadranagar Haveli and therefore it is essential to have inter state roads. Similarly within the state there are some roads which are of considerable importance.

6.1.17.2. During the Fifth Plan 1974-78 seven road works were taken up under the programme of inter state and economic importance. According to the decision taken by the N. D. C. roads of inter state importance will continue as centrally sponsored on 100% basis and wheaeas the roads of economic importance will be continued on sharing basis i. e. 50% shared by Central Government and 50% shared by State Government. It is proposed to provide the following outlays for Sixth Plan.

| | | (Rs | in lakhs) |
|------|--|-----|--------------------------|
| | | | Sixth Plan 1980–85 |
| (i) | Roads of Inter- State 100% Central share | | 598.00 |
| (ii) | Roads of Economic Importance (a) 50% State share (b) 50% Central share | | 389.00 389.00 |
| | | | 778.00 |

6.1.18 Coastal Highways

- 6.1.18.1. Gujarat State has a coastal line, length of about 1600 Kms. There are 11 intermediate and 28 minor ports situated on the coast line of this State in addition to 1 major port at Kandla. This coastline is very poor in road communications. This acts as a major handicap in developing the hinterland and boosting up of export trade. In this region, Railway communication is existing in. some stretches, but the Railways are not in a position to handle the ever growing traffic since the Bailway alignments have not been planned with this viewpoint. Therefore only a continuous road can form a convenient means of communication for thorough traffic from port to port. In order to cater to traffic to and from the hinterland of these ports, it is very necessary not only in the interest of State but of the Country as whole, that highway connecting all the ports on coastal line is properly established. With a view, therefore, to remove this handicap for increasing the port trade a coastal highway connecting the ports of Jakhau, Mundra, Mandvi, Kandla, Navlakhi; Okha, Dwarka, Porbandar, Veraval, Navlakhi; Okha, Dwarka, Porbandar, Veraval, Pipavav, Mahuva, Bhavnagar, Khambat, Dahej, Magadalla, Valsad, Daman, Umbargaon, etc., is planned. The total length of this coastal highway is about 1628 Kms. (excluding the length of N. H.)
- 6.1.18.2. The coastal region between Lakhpat and Kandla is not served by the railway and a good road is necessary for economic development. The proposed coastal highway from Lakhpat to Kandla will be very useful to this area.

- 6.1.18.3. Kandla is one of the major ports of India. Between Kandla and Okha, Navlakhi, Bedi, Sika and Okha are other ports. Jamnagar is an important industrial centre with well established engineering industries. The coastal highway between Kandla and Jamnagar will boost up development of above ports.
- 6.1.18.4. Okha and Porbandar are flourishing ports and also they are industrial centres with cement and soda ash industries at Porbandar and Tata Chemical Works at Mithapur, Dwarka, Ranavav and Sikka with cement industries contributing to rapid construction activities in the country. This belt has also been found to be rich in bauxite minerals. Dwarka and Porbandar are also ancient places of pilgrimage and hence coastal highway between Jamnagar and Porbandar is very useful to this area.
- 6.1.18.5. Between Porbandar and Bhavnagar there are important ports such as Veraval, Jafrabad, Bherai, Victor, Mahuva, etc. There are works at Ports Bedi, Victor and Sugar factories at Kodinagar and Una. Fishing is also developing along this coastline. The work of development of Veraval as fishery harbour is also taken up.
- 6.1.18.6. Bhavnagar, Vadodara, Section connects important ports such as Bhavnagar, Dholera, Gogha, Kambhat, and flourishing industrial centres such as Bhavnagar, Vadodara, and important places like thermal station at Dhuvaran. This section serves the wheat producing belt of Bhaltract.
- 6.1.18.7. Vadodara, Umbargaon, to Border section, Ports like Kavi, Dahej, Magdalla, Daman, Umbargaon, Nanjol, etc., are situated. These ports are having a good potential of forest and agricultural products apart from their importance as fishery ports. The oil fields at Ankleshwar is now established and port Dahej is also to be developed. Between Surat and Daman various industries are rapidly coming up and traffic at the ports in this region is increasing fast.
- 6.1.18.8. The present position of coastal highway is as below—

| Length i | in Kms. |
|---|-------------|
| Road Length completed with two lanes. | 200 |
| Road Length completed with one lane. | 1125 |
| Road Length completed with below standard with one lane | 1 54 |
| Road length missing | 123 |
| Total | 1602 |

| | Rs. in lakhs. |
|---|---------------|
| Estimated cost for providing one standard lane. | 93.00 |
| Estimated cost for missing lanes, | 192.00 |
| Estimated cost for two lanes. | 1700.00 |
| Total | 1985.00 |
| No. of bridges completed | 63 |
| No. of bridges of sub-standard which needs improvement | 19 |
| No. of bridges in progress | 43 |
| No. of missing bridges | 26 |
| Total No. of bridges | 151 |
| R | s, in lakhs. |
| Estimated cost of improvement or strengthening or repairing | 181.00 |

having one lane carriageway. This road is passing through the tribal area and also serving an area mainly of Damanganga, Ukai, Karjan, Narmada and Kadana irrigation projects. It is also under consideration of the Government to have an industrial development in this tribal area due to water facilities available from the irrigation projects. This will also reduce some traffic from N. H. The estimated cost of widening and providing of missing bridges and improvement to the curves etc., is estimated at Rs. 13.60 crores This does not include the requirement of strengthening of the existing road which will be taken up susebquently. The work is proposed to be taken up in the Sixth Plan.

6.1.20. Component Plan.

6.1.20.1. In a component plan, it is proposed to connect villages which have remained unconnected by all we ather roads on the following basis. These are 484 villages on the basis of population of Scheduled Castes. The details are as under.

| Sr. No. | Population Group | No. of villages |
|------------|------------------|-----------------|
| 1 | 25 to 40 | 396 |
| 2 | 40 to 50 | 46 |
| 3 | 50% and above. | 42 |
| | | |

.2.18. Details of Works in progress.

istimated cost of missing bridges.

(Rs. in lakhs).

Total

337.00

518.00

| .0 | Item | Esti- mated, cost. | Expenditure incurred up to 31-3-80 | Spillover liabilities |
|----|---------|--------------------------|------------------------------------|--------------------------|
| | Roads | 440.00 | 214.00 | 226.00 |
| 3 | Bridges | 850.00 | 169.00 | 681.00 |

1.19. Eastern State Highway.

5.1.19.1. In the sixth Five Year Plan it is prod to widen the existing Eastern S. H. joining
H. No. 8 at Vapi in Valsad District and passing
ough Surat, Bharuch, Panchmahals and again
ning to N. H. No. 8 in Sabarkantha at Shamlaji,
length of this road is 494 Kms. and is mostly

6.1.20.2. There are 42 villages only having population of 50% and above Scheduled Castes. According to the available information villages joined by Pucca roads are indicated below:—

Total..

484

484

- 1 Villages already joined by Pucce 187 roads.
- 2 Villages being connected by budgetted 72 works.
- 3 Villages remained to be joined 225

.1.20.3. The Minimum Needs Programme takes of all such villages to be foined by Pucca

care of all such villages to be joined by Pucca roads. During the Sixth Plan 1980-85 Rs. 35 lakhs will flow to S.C. Plan out of total outlay of Rs. 22,000 lakhs.

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APPENDIC_1
Categorywise road kilomterage in Gujarat State.

(Length in Kma.)

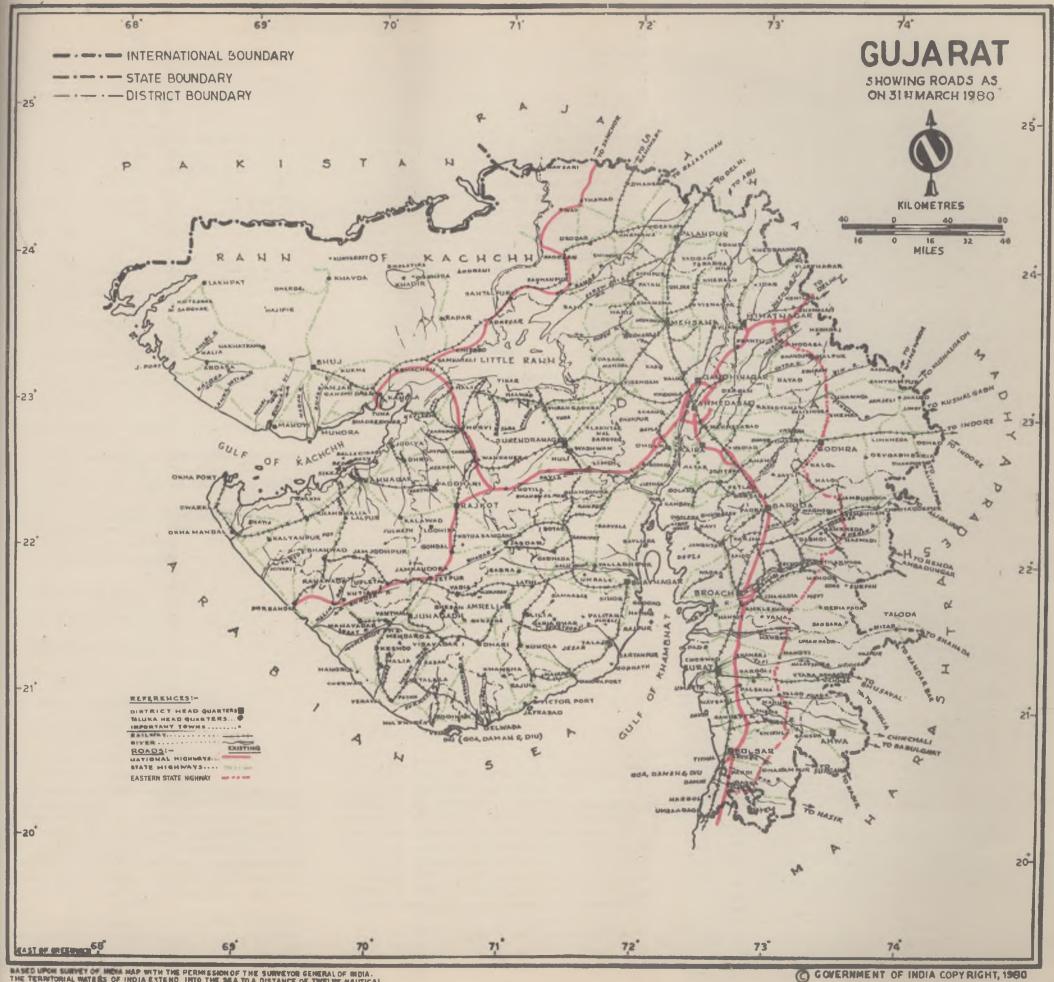
| | | | | | | | (Length in Kms. |
|-----|--------------------------|------|------|---------|--------|--------------|-----------------|
| Sr. | No. Year | N.H. | S.H. | M.), R. | O.D.R. | V.R. | Total |
| 1. | 195051 | 597 | 1507 | 210 | 4680 | 3660 | 13,154 |
| 2. | 1955 56 | 716 | 1956 | 312 | 6951 | 5052 | 17,787 |
| 3. | 1960—61 | 1005 | 4025 | 686 | 7008 | 45 05 | 22, 62 9 |
| 4. | 1965—66 | 1033 | 5125 | 732 | 7065 | 5674 | 26,029 |
| 5. | 1968—69 | 1056 | 6983 | 127 | 8417 | 8628 | 32,211 |
| 6. | 10 73 — 74 | 1352 | 8605 | 4480 | 10183 | 10361 | 38,981 |
| 7. | 197778 | 1383 | 9027 | 983;0 | 9639 | 12480 | 42,359 |
| 8. | 1978—79 | 1425 | 9058 | 1)043 | 9834 | 12896 | 43,256 |
| 9. | 1979—80 | 1435 | 9097 | 19542 | 10571 | 13463 | 45,108 |

STATEMENT List of scheme included in the Sixth Five Year Plan, 1980-85-

Roads Development

(Rs. in lakhs)

| No. | No. and Name of the Scheme | | Proposed outlay | 1980-85 |
|---------|-----------------------------------|-------|-----------------|-------------------|
| • | | | Total | Capital conte |
| | 2 | | 3 | 4 |
| I. P | D P-1 Roads and Bridges | | | |
| I. Mipi | mum Needs Programme (Rural Roads) | | 16,659.00 | |
| 2. Othe | r than M.N.P. | | | 16,659.00 |
| | | | 5,341.00 | 5,341.00 |
| | | Total | 22,000.00 | 22,000.00 |
| | | | | <i>22</i> ,000.00 |



6.2 ROAD TRANSPORT

6.2.1 Nationalisation:

6.2.1.1 The nationalisation of passenger road transport services has been completed 100% in Gujarat State since 1969-70. It is, therefore, necessary for the Corporation as a sole operator, to eater to the natural increase in traffic on the existing routes from year to year. It is also necessary to take steps to extend passenger road transport

services in the uncovered areas for the economical

services in the urcovared areas for the economical, social and cultural development of the rural areas.

6.2.2 Review of Progress

6.2.2.1 The G.S.R.T. Corporation after its formation on 1st May. 1960 has made rapid progress in extending the facilities of road transport in the rural areas of the State. The details of progress made by the G.S.R.T. Corporation during Last 19 years are given in brief in the following table:

| Sr. No. | No. Particulars | Pro | gress sachieved | during |
|------------|--|-------------------|-----------------|-------------------------|
| NO. | | 1960-61 | 1970–71 | 1979-80 |
| 1. | No. of buses held | 1 79 7 | 3 876 | 6404 |
| 2. | No. of employees | 11512 | 27897 | 47326 |
| 3. | No. of routes operated | 1774 | 5404 | 10437 |
| 4. | No.of villages directly connected by S. T. | 8682 (31–3–66) | 11499 | 14913: |
| 5. | Effective kms. operated (lakhs) per year | 728.42 | 2453.17 | 5253.42 |
| 6. | No. of passengers carried (lakhs) per year | 1463.90 | 5064.66 | 11432.39 |
| 7. | Passenger kms. travelled (lakhs) per year | 1673 3 | 87750 | 212365 |
| 8. | Per capita number of journeys performed for rural services in the year | 6.07 | 14.87 | 27.96 |
| | Efficiency of operations | | | |
| 9. | Vehicle utilisation (kms.) | 171.4 | 233.9 | 294.2 |
| 10. | Fleet utilisation (% age) | 68.9 | 78.5 | 82.4 |
| 11. | Load factor (% age) | 72.9 | 73.1 | 74.2 |
| 12. | Traffic earnings per km. (paise) | 91.5 | 140.2 | 229 . 6 - |
| 13. | Rate of accident per lakh kmª. | 0.98 | 0.50 | 0.36 |
| I4. | Kms. per litre of diesel | 4.19 | 4.28 | 4.64 |

^{6.2.2.2.} The Petroleum Conservation and Research Association, Government of India, has instituted two trophics at national level, one permanent and one rolling, for best diesel conservation in the public sector road transport undertakings in the Country. In recognition of its outstanding performance in diesel conservation, the above two trophics or the years 1978-79 as well as 1979-80 have been awarded to the G.S.R.T. Corporation.

as a whole, and the growth of railways traffic at about 5% per year. To cope up with this rise in traffic, it is necessary to increase the number of schedules operated at least at the rate of 8% per year, the balance of the rise in traffic being catered to by increase in the scating capacity and increase in vehicle utilisation. Out of the total increase in schedules, 6% is utilised to cater to the natural increase in traffic on existing routes and the balance 2% to extend bus services in uncovered areas.

6.2.2.4. It is the policy of the Corporation to extend direct services to all the villages in the

^{6.2.2.3.} The passenger traffic on reads in Gujarat state has been increasing at a compound rate of 13% per year as against 9% in the Country -2683—54

State in stages subject to the availability of infeastructural facilities like a motorable road con meeting the village etc. On account of rapid expansion of services made by the Corporation, as on 31st March, 1980 the Corporation provides direct services. to 14913 towns/villages out of 18491 i.e. of the State population. All villages with population of above 1000, excluding those not connected by a meterable road, have been provided with direct services. Steps are now being taken to extend direct services to the villages with population between **500** and 1000 in the State. As on 31st March, 1980 there are 3578 villages in the State which have not been directly served. For expansion of direct services to these villages, it is estimated that it will be necessary to provide about 800 additional schedules. To fulfil this objective during the Sixth Plan period it will be necessary to increase the schedules for extention of services to uncovered areas at the rate of 3% per year. Besides, it will also be necessary to plan for an increase of 5 to 6% in schedules to cope up with the natural rise in traffic on existing routes.

6.2.3. Development Plan 1980-85

6.2.3.1. The size of the State Plan for Sixth Five Year Plan 193)-85 has been fixed at Rs. 90.00

erores comprising of capital contribution of the State Government, internal resources of the Corporation and loans from L.I.C. It is proposed to purchase 4387 vehicles of which 3940 will be for replacement of vehicles against 4188 vehicles completing their life and 447 for expansion in schedule by 1.4% per year during the period of Sixth Five Year Plan. The number of schedules operated are likely to increase from 5237 in S.T.T. 1980 to 5623 in S.T.T. 1985. The above expansion will enable to provide direct services to about 220 more villages during the Sixth Five Year Plan 1980-85.

6.2.4. Employment potential:

6.2.4.1. The scheme of passenger road transport has a high employment potential and generates additional employment of 9.49 persons per schedule. Further, it generates indirect employment for manufacturing of chassis, supply of fuel, lubricants, tyres and tubes, spare parts, etc. at the rate of 2.5 persons per schedule. Expansion programme for a given year generates additional employment in the following year. Thus the rise in schedules from 5237 in S.T.T. 1980 to 5623 in S.T.T. 1985 is expected to result into generating additional employment of 3663 persons during the Five Year Plan period 1980-85.

STATEMENT

Road Transport

List of Schemes included in the Sixth Five Year Plan 1980-85

(Rs. in lakhs)

| Sr. No. | No. and Name of the Scheme | | Sixth Five Year Plan 1980-85 Outlays | | |
|------------|----------------------------|---------|--|--|--|
| 1 | 2 | Total 3 | Capital 4 | | |
| 1 | RTS-1 Road Transport | 9000.00 | 9000.00 | | |

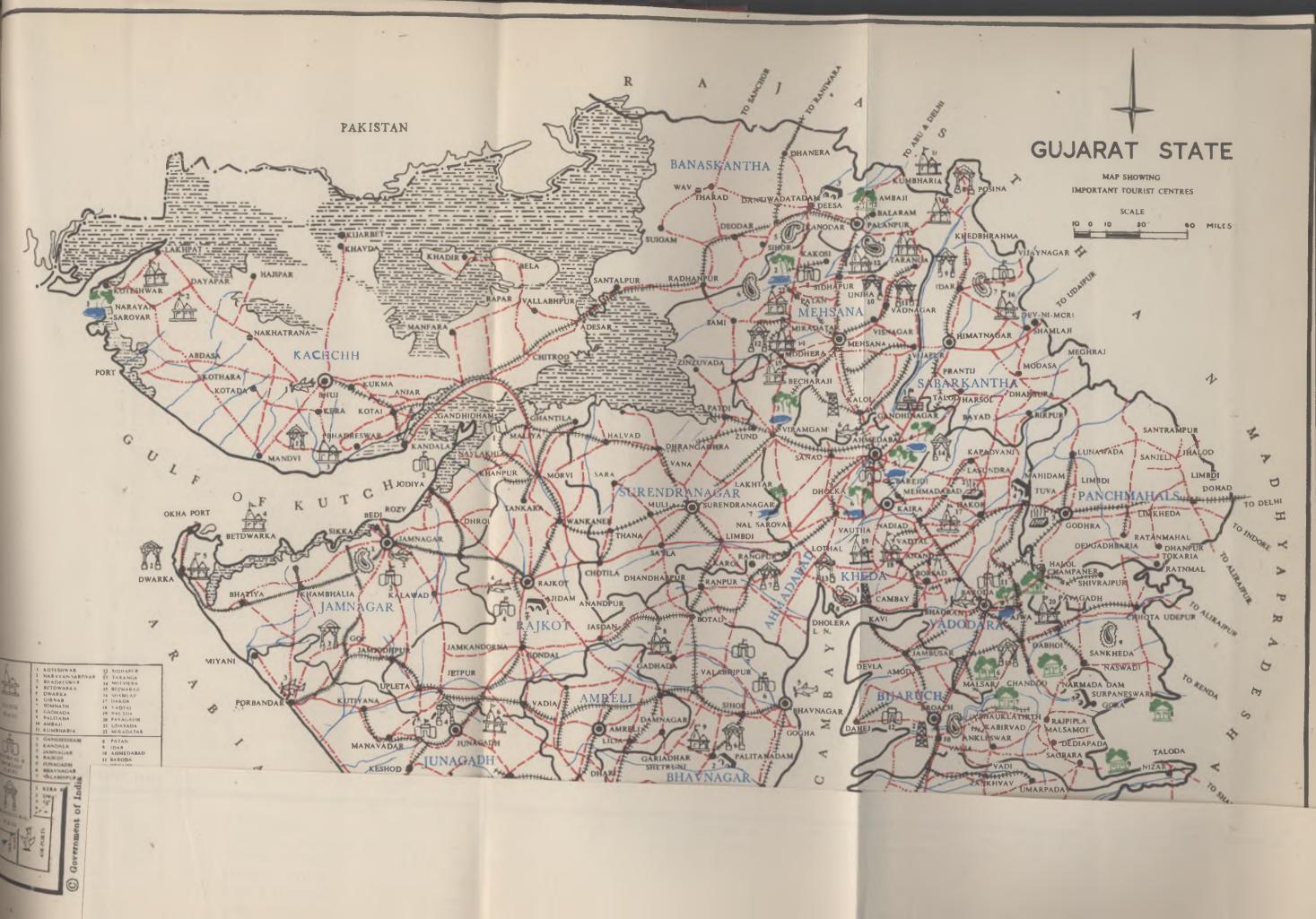
6.3. TOURISM

- 6.3.1.1. Gujarat is uniquely placed attract a variety of tourists ranging from the holidayseekers who would like to escape from the din and bustle of daily routine to the serious stundents of History and Archeology and the religiously minded visiting pilgrim centres. There tourists anctuaries for the wild-life bird-watchers, the pride four sanctuaries enthusiasts ofplace and Gir Sanctuary, taken. by $_{
 m the}$ only being survuving habitat of the Asiatic lion. There are innumerable temples at Dwarka, Palitana, Somnath, Ambaji and mosques which attract the devout as also the History-Bug and for the archeologically mined there is Lothal connected with the Indus-valley civilisation. There are beaches, holiday homes, picnic spots and health resorts for the toursist in search of rest and recreation. The potential for development is thus very vast and the scope for attracting forerign tourists is not inconsiderable. In order to increase the share of the State in the overall toursit trafic, efforts to improve the infrastructure were initiated from the Fourth Plan period by providing more accommodation, better transport and launching a concerted publicity drive. However:, there is scope for further improvement by way of providing additional accommodation, air linkages between the important cities and towns like Ahmedabad, Bhavnagar, Keshod, Porbandar, Rajkot, Jamaagar, Bhuj, Vadodra, Surat in order to cateer to the tourists with a tight time schedule but aspiring for wider coverage. those with more time at their disposal and who like to travel by road, the State has an excellent network of all-weatther roads a coastal Highway from Umbergaon in South Gujarat to Dwarka in Saurashtra and Kandla (Kaaclchl) and there are plans for provirding road side facilities.
 - 6.3.1.2. Some of the recently completed projects include toursist bungalows at Veraval, Porbandar and Lotthil. A modern forest lodge in Gir sanctuary, holidy home at Hajira, Dwarka and Ubhrat, toursisst reception centre at Palitana and cafetaria at the ssite of the sun temple near Modhera.
 - 6.3.1.3. The Tourism Corporation of Gujarat Limited was ineconcreted on 10th June, 1975 with an Authorised Share Capital of Rs. 100.00 lakhs for development of fourism in the State with the main objectives: a under:—
 - (i) to take over, develop and manage places of tourist interest;
 - (v) to pprovide tourism by all ways and means and to adopt t such nethods and devices to attract tourist in leage numbers; and

- (iii) to carry on business as tourist and travel agent and provide amenities and other recreational facilities to tourists.
- Further all Holiday. Homes, Tourist Bungalows, Hill Station, etc. are transferred to the Corporation from the Directorate of Tourism with effect from 1st September, 1978 in order that these may be developed and run efficiently on commercial lines.
- 6.3.1.4. In order that the potential for the development of tourism as an industry is fully exploited, the strategy adopted is based on an integrated approach covering (i) Product identification, (ii) Infrastructure requirements, (iii) Provision of goods and services; and (iv) Methodology of implementation.

6.3.2. Programmes for Sixth Five Year Plan 1980-85.

- 6.3.2.1. An outlay of Rs. 260.00 lakhs is proposed for the sub-Sector of Tourism for the Sixth Five Year Plan 1980-85. An outline of the programme is given in subsequent paargraphs.
 - 6.3.2.2. Development of Sasan-Veraval Complex.
 - (a) Sasan;—It is proposed to provide additional dormitory accommodation and suites; open airtheatre; Cafeteria, recreational and audio-visual facilities covering folk dangees, cultural songs, slides and film shows, T.V. indoor and outdoor games, etc., and opening of handicrafts and curio shop at Sasan.
 - (b) Veraval-Somnath:—It is proposed to provide camping site complex at Somnath having camping site for 25 cars, 4 coaches and 1 or 2 caravans, canteen facilities for about 100 persons and 25 living rooms and exhibition hall, beach facilities having beach umbrellas, rest chairs, bath rooms, public toilets, safety guards etc. at Veraval and Somnath.
 - (c) Junagadh:—It is proposed to provide tourist accommodation having 25 rooms and dormitory accommodations for about 50 persons including dining facilities; opening of Transport Unit having 4 luxury coaches, 2 mini buses, 2 jeeps and 2 Ambassador cars with garage and workshop facilities at Junagadh.
 - (d) Rajkot:—It is proposed to open a Tourist Information Bureau and Reception Centre at Rajkot.



- (e) Dwarka.—It is proposed to construct Staff Quartes, 25 living rooms with canteen facilities for about 100 persons at the existing dormitory site at Dwarka.
- 6.3.2.3. Development of Ahmedabad Complex.—It is proposed to provide tourist bungalows at Shamlaji and Ahmedabad City; Tourist Information Bureau and Reception Centre at Vadodara, Transport Unit and Guide Services at Ahmedabad and a dormitory, living rooms and public toilet facilities at Modhera. It is proposed to develop sites for picnic spots at Adalaj, Sarkhej Roza, Sola, Bhamario Kuva (Well) near Mehamadabad, orientation centre and camping site at Nalsarovar.
- 6.3.2.4. Motel Projects:—It is proposed to provide to campers but at Shamlaji and construction of two motels, one on National Highway No. 8 near Ankleshwar or Fajelpur near Vadodara or near Navsari and other at Limbdi.
- 6.3.2.5. Development of Hot Springs and Picnic Spots: Development of Picnic Spots:—It is proposed to develop a few picnic spots near big cities like Vadodara, Bhavnagar, Mahesana, Su at. Palanpur, Janmagar, Rajkot, Bhuj, etc.
- 6.3.2.6. Development of Hot Springs:—It is proposed to construct living accommodation, dining facilities and bath-rooms at Lasundra hot springs in Kheda district and Tuva hot springs in Panch Mahals district.
- 6.3.2.7. Survey of Beaches.—It is proposed to carry out survey of a few beaches in Gujarat State and develop one of them as beach resort. Ahmedpur-Mandvi in Junagadh district and Mandvi beach in Kachehh district will be surveyed in detail and tourist facilities will be planned for development of beach in Gujarat. It is also proposed to survey Flamingo City, near Khavada in Kachehh district with regard to its tourist potential.

Tourist Information and Publicity:

6.3.2.8. Gujarat has a number of tourists centres and pilgrim places some of which have all India tourist importance. So far efforts have not been made to undertake special publicity drive for these centres in foreign countries as well as in other States of the Country. A few tours so far arranged for foreign travel agents in Gujarat have shown very encouraging results. Such attempts need to be followed by systematically by effective planned publicity for the promotion of tourism in Gujarat. It is, therefore, proposed to undertake activities like printing of attractive colourful folders, brouchers, booklets, maps, guide books, picture post cards, posters, etc., as well as viewing colour slides for audio visual etc. Publicity through various media is proposed to be organised towards promotion of efforts for development of toursim in the State. It is expec-

- ted that these effrots would positively attract mornumber of foreign tourists to Gujarat. It is, therefore, proposed to provide an outlay of Rs. 11 lakes to the purpose in the Sixth Five year Plan 1980-85.
- 6.3.2.9. Development of Holiday Homes/Tourist Burgalows:—At present there are 17 Holiday Homes which have become very popular. It is proposed to add a few more at Umbargaon, Ambaji, Mandles and Jasol hills. It is also proposed to modernise and add facilities in the existing Holiday Homes like Chorwad, Ubharat. Pavagadh, etc., which have become very popular.
- 6.3.2.10. Improvement of Dharmahalas:—In cadier to provide additional accommodation to low budgets tourists, it is proposed to select Dharmashalas at Dakor. Ambaji and Pavagadh to start with amdle provide facilities at these places by improving amdle modernising them.
- 6.3.2.11. Ropeway Project at Pavagadh:—It is proposed to examine the feasibility of putting up a ropeway at Pavagadh.
- 6.3.2.12. Youth Tourism:—At present there is Youth Hostel at Gandhinagr which has become very popular. This Youth Hostel is 'put up with financial assistance from the Central Government. In view of the experience gained, it is proposed to put up two similar Youth Hostels one in Saurashtra region and the other in South Gujarat region.
- 6.3.2.13. Conducted Tours:—At present the Toursism Corporation of Gujarat has planned conducted tours covering the entire State as well as neighbouring States of Maharashtra and Rajasthan. It is also proposed to add a few more conducted tours in the Sixth Five Year Plan which may originate from various centres in Gujarat like Rajkot, Vadodara, Junagadh, etc. Gujarat laving a longest sea coast and having so many tourist spots on the coastling. It is proposed to organise coastal conducted tours. It is also proposed to organise Inter-State conducted tours for the Youth so that the Youth of the other States can take advantage of seeing our States and vice-versa.
- 6.3.2.14. Opaning of New Tourist Offices:—At present, the State Government have a Tourist Office a Bombay only outside the State. It is very necessary to have tourist offices at Delhi, Calcutta and Madriform where a number of pilgrims not only of other States but also Gujaraties settled in those regions conto Gujarat every year. It is therefore, proposed to open tourist information offices at the above pliace.
- 6.3.2.15. Training of Personnel:—The Government of India is planning to start regular course for training in tourism at Delhi for personnells in various categories and at various levels in tourism trade. It is proposed to send staff and officers of the Tourism department as well as Tourism Corporation for training at such an institute.

6.3.2.16. Strengthening of the Tourism Department:—It is proposed to provide a Statistical Cell in the Department and strengthen the existing Department of Fourism to look after the development of tourism, giving recognition to the hotels, luxury cars operators, excursion agents, etc. It is proposed to strengthen the department for an efficient working as well as planning and promotion of tourism

in the State. Modern equipment will be provided and trained staff will be appointed in the department.

6.3.2.17. Beautification and Recreational Facilities at all Tourist places in the Gujarat State:—It is proposed to beautify and provide recreational facilities for which assistance of cultural organisations and cultural troups wil be taken. It is also proposed to encourage folk art and folk music which can well be used for recreation of tourists.

STATEMENT

Tourism.

List of schemes included in the Sixth Five Year Plan 1980-85

(Rs. in lakhs).

| Sr. | | No. and Name of the Scheme | Sixth | Five Year P | lan 1980—85 |
|-----------|---------|--|-----------|-------------|------------------------|
| No. 1 | | 2 | | Total | Capital outlay 4 |
| ı. | Tourist | Accommodation: | - 1 | | |
| 1. | TRS-1 | Development of Sasan-Veravalr, Porbandar Complex. | | 30.00 | 30.00 |
| 2. | TRS—2 | Development of Ahmedabad Complex. | | 26.63 | 26.63 |
| 3. | TRS3 | Development of Hot Springs and Picnic Spots. | | 15.00 | 15,00 |
| 4. | TRS—4 | Development of Holiday Homes, Tourist bungalows, Hotel and Me Ropeways, etc. | otel, | 79.20 | 79.20 |
| | | Total : I | •• | 150.83 | 150.83 |
| II. 5. | Tourist | Information and Publicity: Publicity abroad. | | 11.00 | |
| | | Total : II | ī · | 11.00 | -5. |
| III. | Other 1 | Expenditure : | | | |
| 6. | TRS—6 | Coastal conducted tours and inter-State tours and development of bungalaws, transport facilities, improvement of Dharmashalas, development of Picnic Spots, etc. | tourist | 53.17 | |
| 7. | TRS—7 | • | •• | 45.00 | |
| | | Total : III. | •• | 98.17 | •• |
| , | | Grand Total : $I + II + III$. | •• | 260.00 | 150.83 |

6.4. PORTS, SHIPPING AND LIGHTHOUSES

id. Introduction.

64.1.1. Gujarat is a principal maritime State of the country. The total coastline of Gujarat rejusents over 30% of the coastline of the Country. The coast line of Gujarat has a very large hinterland, attending over central and northern India. Because of these natural advantages Gujarat has been very moment in the development of maritime economy of the country.

6.4.1.2. Ports, play a very important part in to development of trade and commerce of a country ordenerally, in industrial development. By proper filisation of port capacities, transportation of essential commodities in the country can be co-ordinated and congestion in rail and road transport systems in be eased. Ports act as a catalyst for the development of the Coastal area and the hinterland. It is well hown that along the coastline of Gujarat, port's stivities sustain large population employed in hoat hilling, operation of various crafts, handling of argo, fishing and trade and commerce.

6.4.1.3. The 11 Intermediate, 28 Minor and one nor Ports are situated over 1600 Kms. of coastline hm Koteshwar in the North to Umbargoan in the buth. Four of these ports-Bhavnagar, Okha. Porbanhrand Sikka are direct berthing ports for ocean going bips. 11 Ports are lighterage Ports where steamer affic is worked by lighters. The remaining 24 Ports meither sailing vessels ports or have fishing activi-38. About 98% of the total traffic is handled by only 15 ports viz. Bhavnagar, Okha, Bedi, Sikka, Brbandar, Veraval, Navlakhi, Mandvi, Mahuva, lipavav, Salaya, Valsad, Jakhau, Bharuch and Mindra. The main feature of these ports is exports which constitute 60% of the total traffic mainly to beign countries carning foreign exchange of me than Rs. 100 crores per annum. The developopment activities of the ports have therefore been oncentrated at these ports. In the case of other puts either a small jetty is provided or some dreding is done but no major development activities hve been undertaken so far.

14.2. Review of Progress

6.4.2.1. In the first plan certain basic investiations were undertaken so as to enable planning
in future development. In the Second Plan, investiations for more important engineering works such
s, breakwaters at ports like Porbandar and Veraval,
llydrographic Surveys, engineering model tosts etc.
were initiated and such schemes were executed which
smoved deficiencies and bottlenecks in providing
lasic facilities at the ports. This enabled
the ports to serve trafficeneeds in a better manner.
In the Third Plan, additional landing facilities to
zero increasing traffic were provided at various
lorts, Landing facilities like jetties, wharves etc.

were coastructed; transit and storage factorage were provided; cargo handling edge like cranes, etc., were installed and the lightle fleet was strengthered. This was continued to the three Annual Plans and also during the Ft Plan. During the Fifth Plan additional facilities improving the efficiency of the working of the post and establishment of direct berthing facilities at the ports where necessary were provided. The targets increspect of important programmes were mostly achieved. This also helped in economic development of the hinterland in providing more efficient facilities at ports. Rates of cargo handling have since improved.

6.4.3. Growth of Traffic

6.4.3.1. The ports of Gujarat are traditionally net export oriented ports. The traditional commodities of imports are food-grains, fertilizers, mineral Oils. Coal, Sulpher, etc whereas items of exports are cakes, goundnut seeds, cement, lime, lime stone, etc. The pattern of growth of traffic since the turn of the seventies and the projections for the two years of the Sixth Five year Plan 1980-85 are as follows:-

(Figures in lakh tonnes)

| Year | ${f Import}$ | Export | Total |
|-----------------|--------------|----------------|---------------|
| 1 | 2 | 3 | 4 |
| 1970–71 | 7.05 | 19.61 | 26.60 |
| 1973–74 | 10.43 | 17.75 | 28.18 |
| 1974–75 | 12.47 | 17.80 | 30.27 |
| 1975–76 | 12.19 | 18.83 | 31.02 |
| 1976-77 | 6.25 | 22.03 | 28.28 |
| 1977–78 | 5.80 | 1 11.65 | 20.48 |
| 1978–7 9 | 7.63 | 13.14 | 20.77 |
| 1979-80 | 10.40 | 14.20 | 24.60 |
| 1980–81 | 14.35 | 15.65 | 3 0.00 |
| 1981-82 | 14.35 | 25.65 | 40.00 |

6.4.3.2. There has been a steady increase in the traffic handled at the ports during the earlier plans period. The decline in the traffic in the recent past is on account of the stoppage of imports of food-grains and fertilizers. Restrictions placed by the Government of India on export of cement, salt and ground nut seeds and oil-cakes which are the traditional bulk export items of Gujarat, affected the growth of traffic.

mineral oil at Okha has also come down Jue to its diversion to Kandla which is Ay nearer to the consuming centres in Pha. In order to compensate for this loss p are made to start import of fertilizers at a ports and a sizeable quantity of imported ers is handled at Ports Bhavnagar, Veraval, agar and Navlakhi.

14. Approach and Strategy.

Ports constitute one of the important infrastructural facilities' necessary for economic advancement of a region. The development expansion and improvements at the ports are not only necesssary for catering to the likely increase in traffic but also to improve efficiency of steamer working. It is necessary to develop modern direct berthing facilities. Present day shipping demands quicker turn round of the ships. Also large craft vessels are being employed increasingly in international trade. Even to cater to the present level of the traffic, existing facilities at the ports are required to be expanded by providing additional berths, additional lighterage fleets, increase in warehousing and transit facilities and addition of cargo handling equipments. It is also necessary to improve the navigational conditions by dredgings and provide additional navigational facilities and introduce mechanisation of cargo handling.

6.4.4:2. There is an urgent need to set up anautonomous Maritine Board on the lines of the major Ports Trusts for efficient Management of Ports on the Gujarat Coast on commercial lines.

Spill over works

6.4.4.3. M/s. Narmada Cement Co. are putting up one million tonnes capacity cement plants at port Jafrabad. The plants will produce clinker at Jafrabad which will be shipped in self propelled-barges to Magdalla Port (about 6.67 lakhs tonnes) and to Ratnagiri of (about 3.33 lakh tonnes) the self propelled barges on their return voyage from the Magdalla, will carry coal for Jafrabad. In order to serve this traffic of clinker and coal, it has been decided to provide port facilities including breakwater, dredging, etc at Jafrabad at a cost of Rs. 393.62 lakhs and at Magdalla at cost of Rs. 815.60 lakhs. Various works connected with this project, such as, construction of jetty, break-water, approach bund, dredging etc. have already been started.

6.4.1.4. It has been decided to provide modern ferry services between Dahej on South Gujarat Coast and Ghogha on the Saurashtra Coast. A joint sector company, namely M/s "Ghogha-Dahej-Trans-Sea Ferry Services Limited," has also been formed. Necessary terminal facilities at Dahej and Ghogha such as landing jetty, purking areas passenger facilities etc. will be provided by the State Government. The company will provide ferry boats and will operate the same Preliminary Work for providing the terminal facilities has been started.

6.4.5. Programme for 1980-85

6.4.5.1. An outlay of Rs 2600 lakks is proposed for Sixth Five Year Plan 1980-85 for Ports development under the State Sector- A broad break up of the outlay is as follows-

| | T the outing is as follows | Rs. in lakhs |
|------------|--|--------------------------------|
| Sr: No: | Minor Heads of Development | 1980-85 Proposed outlay, |
| 1 | 2 . | 3.5 |
| (a) | Ports and Pilotage | |
| 1. | Development of Minor Ports. | 1796 :0 0 |
| 2. | Investigation | 5.00 |
| 3.1 | Dredging and Surveying | 250.00 |
| 1. | Ferry Services. | 512.00 |
| | Total :(a) | 2593.00 |
| (Ն) | light Houses and lightships, construction and Development of other! Navigational Aids: | 7.00 |
| | Total:-(b): | 7.00 |
| | Grand Total(a+b) | 2600.00 |

6.4.5.2. A major part of the proposed outlay is for (1) Development of Jafrabad and Magdalla port (2) Dahej-Ghogha Ferry Service (3) Dredging and (4) Floating Crafts.

6.4.5.3. The Government of Gujarat has decided to set up a statutory Board viz. The Gujarat State Martime Board for administration of State port. A draft bill had already been prepared and it is expected to be enacted very soon.

6.4.5.4. The details of the different Programmer are as under.

6.4.6. Development of Intermediate and Minor Ports.

6.4.6.1. Jafrabad Magdalla-Port-Project:-Infrastructural port facilities are required to be provided at Jafrabad and Magdalla Ports, as M/s, NarmadaCement Co. has decided to set up cement plant at Jafrabd and clinker grinding plant and packing at Magdalla port. Port facilities are proposed to be provided for transport of cement, clinker, coal etc. Government has accorded administrative approval to the plans and estimates-the Works include infrastructural port facilities at Jafrabad port at an estimated cost of Rs. 3.94 crores and those at Magdalla port at an estimated cost of Rs. 8.15 crores. The activities include approach bund, break water, RCC Jetty, dredgings in Tapi river, etc. which have already started. Other Works such as roads, office buildings, water supply etc. are proposed to be taken up soon.

- 6.4.6.2. As per programmes finalised, the Narmad 1 Cement Company will start its production by the middle of 1981 and therefore adequate provision for completion of port facilities by that time has been made which include Jetties at both the ports, Breack water and Bund at Jafrabad, Navigational aids and other miscellaneous items.
- 6.4.6.3. Other Schemes such as security arrangements at important ports, sea protection works and reclamation, water Supply, construction of a shed at Khadakwasla etc. are also proposed to be carried out.
- 6.4.6.4. Development of Porbandar port:-An outlay of Rs.50 lakhs is provided for the period 1980-1985 for completing the remaining works under the project of all weather port at Porbandar. The work is almost completed except for acquisition of land and completion of transist godowns etc. and these works are expected to be completed soon.
- 6.4.6.5. Construction of Docks Berth and Jetties:—Under this programme important works to be carried out are (i) Jetty for port crafts at Port Bhavnagar (ii) landing wharf (iii) extension of wharf at Rozi(Beldi (iv) Slipway at Bhavnagar (v) wharf wall at Navalakhi etc. In addition other smaller works for improving the landing facilities at various ports are proposed to be carried out. An outlay of Rs 125.00 lakhs has been proposed for the period of Sixth Five Year Plan 1980-85 for all such programmes

6.4.5.5. Port Equipments and Machinery

- 6.4.6.6. It is proposed to purchase equipments like wharf cranes, mobile cranes, dumpers, loaders, fire fighters, trucks etc, for various ports. In addition walkie talkie for lighterage working ports is also proposed to be provided. An outlay of Rs 126-00 lakhs is proposed during 1980-85 for the purpose.
- 6.4.6.7. Transport Facilities and Fleet: It is proposed to provide concrete platforms for bulk cargo and other transport facilities at important ports during the period of Sixth Plan and for that purpose an outlay of Rs. 40.00 lakhs is proposed.
- 6.4.6.8. Floating Crafts:-It is proposed to purchase one No. 1000 BHP. Tug for Bhavnagar, No.1000 BHP for Okha, one No. 350 BHP. Tug for Mandvi and one No. 350 BHP. Tug for . Dredging cell at

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Bhavnagar, Provision is also proposed to purchase one water barge for Navlakhi. An outlay of Rs. 200.00 lakh is proposed for 1980-85 for the purpose.

6.4.7. Gujarat Maritime 3 oard

6.4.7.1. As per the recommendation of the — Committee on the Administrative set up of Gujarat Ports, the State Government has taken a Policy decision to enact a legislation for setting up an autonomous State Maritime Board on the lines of the Major Ports Trusts for the efficient management of the Gujarat Ports on commercial lines. The Legislation for this purpose is likely to be enacted soon. It is therefore, proposed to provide for contribution to the new autonomous Board. A Provision of Rs. 50 lakhs is proposed for 1980-85 for this purpose.

6.4-8. Warehousing Facilities,

6.4.8.1. At Bhavnagar and Veraval, there is demand for additional storage facilities which has to be met. The construction of storage godown at Bhavnagar and Veraval has been commenced in 1979-80. It is proposed to complete the work by-1981-82. It is also proposed to construct storage godowns and open transist shed at Valsad, Pipavav, Okha and Bedi during the period of Sixth Plan for which an Outlay of Rs. 15.00 lakhs is proposed.

6.4.9. Construction of Staff quarters and Amenities at ports.

6.4.9.1. It is proposed to provide Class-I, Class-II and Class-III staff quarters at the ports of Bhavnagar. Bedi, Veraval, Mandvi and Mahuva. An outlay of Rs. 10.00 lakhs is proposed for the Sixth Plan 1980-85.

6.4.10. Dredger and Dredging

- 6.4.10.1. A provision of Rs. 250.00 lakhs is proposed for carrying out dredging at various important Ports in 1980-85.
- 6.4.10.2 Dahej-Ghogha Ferry Service. The Project is to provide a modern ferry Service for transporting loaded trucks/buses etc. across the Gulf of Khambhat between Ghogha and Dahej. The Port and terminal service facilities at both end will be provided by the Port department at an estimated cost of Rs. 515.40 lakhs. Operation ofservice will be the responsibility \mathbf{of} Joint Sector Company viz. 'Dahej-Ghogha Trans-Sea Service Limited' which is functioning. The State's share in the Capital of that company is Rs. 26.00 lakhs. A provision of Rs. 542.00 lakhs is proposed for the Sixth Plan 1980-85.

6.4.11. Landing Facilities for Inland Water Transportat Matwad, Chandod, Mandar and Mangleshwar.

6.4.11.1. Till 1978-79, these schemes were fully financed out of assistance from the Central Government. However, according to the reclassification of

centrally sponsored schemes, these schemes are continued as centrally sponsored on sharing basis. Accordingly, a provision of Rs. 3.50 lakhs is proposed for 1980-85 as State share for completing the works of land facilities for IWT at the above ports. An equal provision is expected from the Government of India.

6.4.12. Construction and Development of other Navigational Aids at various ports.

6.4.12.1. Local Navigational aids at various ports are required to be provided particularly at salt loading ports where the lighterage fleet have to go in meandering creeks. An amount of Rs. 7.00 lakhs is proposed for this purpose for 1980-85.

6.4.13. Central Sector Schemes:

6.4.13.1. The following port development works are very important for the State and therefore the State Govt. has taken up the matter with the Government of India to approve these projects as Centrally Sponsored projects

| No | | Estimated Cost. | required during 1980-85. |
|----|--|-----------------|--------------------------|
| 1_ | 2 | 3 | 4 |
| 1. | Development of Hazira Port. | 1650.00 | 1650.00 |
| 2. | Development of Salaya as a direct berthing Port. | 750.00 | 750.00 |
| 3. | Development scheme | | |
| | for Inland water Trans- | | |
| | port in Rivers Narmada and Tapi. | 275.00 | 275.00 |
| | Total | 2675.00 | 2675.00 |

Brief details of the above projects are given below-

1. Davelopment of Hazira Port:-

6.4.13.2. The Central and South Gujarat especially the regions around Vadodara, Surat, Vapi, etc. are developing at a very fast rate. A large scale industrial development is taking place in this region. Presently all the port requirements of these industries are being met with by Bombay where frequent congestion results in bottleneck. In order to provide a suitable sea outlet for this region as well as for vast hinterland streching into Central and Nortthern India intensive studies were made to ascertain a suitable location for developing an all weather port. Information about the available traffic other infrastructural facilities etc. was also studied and consultants were appointed for suggesting a suitable site for a port. On the basis of these studies and the consultants' Report, Hazira on the North Bank of River Tapi, has been found to be very suitable for developing as a port. The traffic projections have indicated that besides the general industrial traffic there is a great scope for movement of coal from the Central India coal fields to the Saurashtra region through this Port and traffic projection of 1.5 to 2.00 million tonnes has been made.

A large gas base fertilizer complex is being set up near Hazira by M/s IFFCO. A gas craecking Unit and other petrochemical industries are coming up around Hazira. There is a possibility of finding gas crude oil in Bombay High area and Hazira may provide a suitable oil port for bringing orude oil from off-shore oil fields and transporting the same to Koyali Refinery. The Government of India is also considering to establish a large shipyard and as per the report of the consultants Hajira has been found to be a very suitable site for the purpose. A modern port at Hazira complimentary to the proposed shipping yard and its vicinity. Thus it will be seen that proposed port of Hazira will be mainly used by companies like IFFCO., I.P.C.L., which function country wide basis so that the port will be useful not merely for a traffic of Gujarat State but also to the country as a whole. From all these considerations, development of Hazira as a large modern Port is found to be very essential for the economic development of this fast growing region and this project is proposed to be taken up as a Centrally Sponsored Scheme.

Development of salaya as a direct berthing port.

The region around Salaya is very rich in respect of agricultural commodities. these and Presently, \mathbf{of} export production salt, Commoground nut and other dities are handled at near by ports like Navlakhi, and Bedi and to some extent from Salaya, A large phosphetic fertilizer plant is likely to be set up near salaya. Several other industries are coming up in the region. Further the Maritime Features at Salaya prevides sheltered deep excellant as it waters very close to the shore and through out the year. Accordingly it is preposed to develop Salaya as the direct berthing port for meeting the requirerements of these industries. The project is proposed to be taken up as a Centrally Sponsored Scheme.

Development Scheme for Inland Water Trans:port in River Narmada and Tapti.

6.4.13.4. In Gujarat State, rivers Narmada and Tapi offer good potential for development of Inland Water Transport. The Government of India is considering to declare these two waterways as national water ways. With the construction of Navagam Dam and a series of other dams of the Narmada, IWT facilities will be available from mouth upto Hausangabad in Madhya Pradesh by suitable dredging and provision of locks, etc. Similarly in Tapi also, there is considerable scope for IWT development. A provision of Rs. 275. lakhs is, therefore, proposed for the development of IWT facilities for these two important water-ways.

STATEMENT

Ports, Lighthouses and Shipping

List of Schemes included in Sixth Five Year Plan 1930-85.

(Rs. in Lakhs).

| Sr. No | | and Name of the Scheme. | | Sixth | ı Five Year Pla | ın 1980–85 Outla |
|-----------|------------|---|---------------------|-------|-----------------|------------------|
| 1 | • | 3 | | | Total 3 | Capital. |
| A | -Ports and | Pilotage. | | | | |
| ı. | Develop | ment of Minor Ports. | | | | |
| 1. | PRT-1 | Development of intermediate and Minor Ports. | | | | |
| | | a. Construction of docks, berths and Jatties. | | •• | 125.00 | 125.00 |
| | | b. Ports equipments and Machineries. | | | 126.00 | 126.00 |
| | | c. Transport Facilities and Fleet. | | | 10.00 | 10.00 |
| | | d. Floating Crafts | | | 200.00 | 200.00 |
| | | e. Maritime board. | | | 50.00 | 50.00 |
| | | f. Warehousing Facilities. | | | 15.00 | 15.00 |
| | | g. Other expenditure | | •• | 1240.00 | 1240.00 |
| | | h. Creation of Mechanical Circle. | | •• | 20.00 | _ |
| | | | Total: I | | 1786.00 | 1766.00 |
| IL. | Construc | tion and Repairs. | | | | |
| 2. | PRT-2 | Construction of office building, staff quarters and other a Ports. | menities at various | •• | 10.00 | 10.00 |
| | | | Total—II. | | 10.00 | 10.00 |
| III. | Dredger | and surveying. | | | | |
| 3. | PRT-3 | Survey and investigation of Gujarat Coast. | | •• | 5.00 | 5.00 |
| 4. | PRT-4 | Dredger and Dredging. | | •• | 250.00 | 25 0.00 |
| | | | Total-III. | | 255.00 | 255.00 |
| IV. | Ferry Ser | vice. | | | | |
| 5. | PRT-5 | Inland water Transport and Dahej-Ghogha Ferry Services | • | •• | 542.00 | 542.00 |
| | | | Total : IV | | 542.00 | 542.00 |
| | | | Sub-Total: I toIV. | | 2593.00 | 2573.00 |
| В. | Light Hou | ses and Light ships. | | | | |
| | Construct | ion and Development of other Navigational aids. | | | | |
| 6. | PRT-6 | Development of and construction of other navigational a intermediate and Minor Ports. | ds at | •• | 7.00 | 7.00 |
| | | | | | | |
| | | | al for B: | | 7.00 | 7.00 |
| | | | Franck Total (A+B) | • | 2600.00 | 2580 00 |

7. SOCIAL AND COMMUNITY SERVICES

Economic development makes growing demand on the quality of human resources. It is necessary to pay greater attention to improvement in the quality of education at all levels and improvement/diversification of the skills of the people. Better medical and health services, safe drinking water and housing facilities are needed not only for the social and economic well being of the people but also for improving the efficiency of the working population to ensure steady growth in the rate of production in fields and factories. The welfare programmes for the backward classes, other weaker sections and particularly for Scheduled Castes and Scheduled Tribes have to be considerably expanded and speeded up.

2. An outlay of Rs. 57316 lakhs is proposed for the Social and Community Services for the Sixth Five Year Plan 1980-85. The sectoral and sub-sectoral break up is as under:—

(Rs. in lakhs)

| Sr. S No. | ector/Sub-Sector | Proposed Outlay 1980–85 |
|--------------|-----------------------------|-------------------------------|
| 1 | 2 | 3 |
| 1. | General Education | 5560 |
| 2. | Technical Education | 600 |
| 3. | Medical and Public Health | 7000 |
| 4. | Social Inputs | 500. |
| 5. | Sewerage and Water Supply | 15076 |
| 6. | Housing | 8530 |
| 7. | Urban Development | 2850 |
| 8. | State Capital Project | 3000 |
| 9. | Information and Publicity | 85 |
| 10. | Labour and Labour Welfare | 4000 |
| 11. | Welfare of Backward Classes | 8000 |
| 12. | Social Welfare | 450 |
| 13. | Nutrition | 1665 |
| | Ξ | |
| | Total | 57316 |

An outline of the programme is given in the subsequent paragraphs.

7.1. GENERAL EDUCATION

- 7.1.1.1. The role of education in the State and the national economy needs no emphasis. Provision of educational facilities at all levels of life as an essential social infrastructure is necessary to supplement the economic infrastructure created through various development plans. The educational system has recorded, over the years, a phenomenal growth. The Education Commission-(1964-66) has emphasised the need for radical changes in the system of education and accordingly the major steps to be taken towards this end have been outlined in the National Policy on Education (1968). Therefore, the Fifth Plan Programmes were imbibed with the main ingredients of these documents. The development programmes in the Sixth Plan 1980-85 aims at equalising education opportunities and make education relevant. The main thrust would be on the following two areas:-
 - (1) Universalisation of Elementary Education;
 - (2) Vocationalisation of Education.

7.1.1.2. An outlay of Rs. 5560 lakhs is proposed for General Education for the Sixth Five Year Plan 1980-85. The broad break up of the outlay is as under:—

| | (Rs. | in lakhs) |
|------------|---|--------------------------------|
| Sr. No. | Minor Heads | 1980-85 proposed outlay. |
| 1 | | * 3 |
| 1. | Primary Education (MNP) | |
| | (i) Elementary Education | 3256.74 |
| | (ii) Teachers Training | 53.26 |
| | (i'i) Special Education (Adult) | 250.00 |
| 2. | Secondary and Higher Secondary Education. | 822.29 |
| 3. | University and Higher Education | 507.90 |
| 4. | Games, Sports and Youth Welfare | 200.70 |
| 5 . | Art and Culture | 369.11 |
| 6. | Development of Languages | 100.00 |

7.1.2.1 Primary, Education including Adult Edulation being a pant of the Minimum Needs Progranue, has been given highest priority. An outby of Rs. 3560 lakhs for the Sixth Plan is proposed: min programmes are given in the following maragraphs.

6) Elementary Education

Appointment of Additional Primary Teachers

7.1.2.2. The position of enrolment in the age goup 6-11 and 11-14 at the end of 1979-80 was 102% and 47% respectivey, the details of which are as

(Figures in lakhs)

| ige group | Boys | Girls | Total |
|-----------|--------|-------|--------|
| 6-11 | 24,80 | 16.58 | 41:38 |
| | (119%) | (85%) | (102%) |
| 11-14 | 6.99 | 4.03 | 11.02° |
| | (58%) | (35%) | (47%) |
| 6-14. | 31.79. | 20.61 | 52.40 |
| | (96%) | (66%) | (82%) |

7:1.2.3. The national norm for enrolement under the M.N.P. for the Sixth Five Year Plan 1980--85 is 5% in the age group 6-11 and 50% in the age group 11-14. By the end of 1980--81 the enrolment is expected to rise to 105% and 48% in the age group 6-11 and 11-14 respectively. It is targetted b achieve 107% and 54% coverage at the end of 1981-82 and 110% and 70% coverage at the and of the Sixth Plan 1980-85 in the respective age groups. Overall coverage will be 95% in the entire age group 14 by 1984-85. It is expected that 11.23 lakh editional children, will be enrolled during the sixth plan 1980--85. Of this 2.24 lakh pupils are proposed to be covered under the scheme of non-formal eduation and 2.40 lakhs by adjustment by raising the kecher pupil ratio from 1:38 to 1:40. To manthe remaining 6.59 lakh pupils 16475 teacheres will be required according to the norms. 4,000 teachers spointed during 1979-80 will be considered against the total demand of 16475 teachers of the Sixth Plan. However, it is proposed to appoint 15000 new teachers including 4000 teachers appointed in 1979-80) during the Sixth Plan 1980-85. Of these, 3900 teachers will teappointed in Tribal areas and 770 teachers will be amarked for special component plan. An amount of Rs. 2393.30 lakhs is proposed for the Sixth Plan 1980-85 for the purpose.

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7.1.2.4 Physical facilities form an ineportant aspect of universalisation of elementary; grlucation: Htil is necessary to take up in a big way the programme of construction of school rooms. The present or equired 4 ment of the school, rooms on the besis of oncote Cherc one room is about one lakh rooms for grand have od. Alw present there are 72,000 school rooms die it real areas lo At the end of the Sixth Plan the total coquire ment of l additional rooms will be 43,000 including 15000 nawb teachers who are to be appointed during the Sixth Plan. Against this, 8800 rooms and the transfer of the state of the st it is proposed to cover the four-categories sik 7(1) where a shood exists but there is not even one suborn (2) Incomplete works to be completed (3), Worksq sanctioned but not started, to be taken up and combi pleted (4) shools having more than the cherest in one room should be proppled with off meteorhems and (5) all schools having major repaired will be ogder repaired. An amount of Rs 135,170 labbeing proposed for the Sixth Plan 1980-851 for comptracten of about 3000 class rooms. for that an amount of Rs. 200

7.1.2.10. Families of Primary Schools and Primary Schools

7:1.2.5 There were 414 Filages having populated tion of 200 or more according to 1971 census which did not have schooling facilities within a redustof.

1.5 Kms. All these villages with have been go vered by the end of 1980 81. The State in comment in tends to extend these facilities for villages having of the ulation of less than 200 but more than a property are 711 villages falling indeer this category and such situation of less than 200 but more than a property will such a villages are tragetted to be covered during the fixther Plan at the cost of Rs. 7.11 lakhs. Out of this an Plan at the cost of Rs. 7.11 lakhs. Out of this an amount of Rs. 3.46 lakly is proposed for trible and sub-plan. Tribes and other backward classes (Ba Conversion of Single Teacher Schools into Two teacher schools.

7.1.2.6 Single teacher schools limited description the teacher is a sent that the school of limited description that the teacher is a sent that the school of the teacher is a sent that the school of the teacher is a sent that the school of the desirable that there should be no similar to offer whether there are about 400 single teacher schools in the single teacher schools are proposed to be covered difficulties. Then It is proposed to a political school of the single teacher school of the single t

Coaching classes for weaker students

r, 1.2.7 Many Primary schools which are lacking in physical sections of his weeten upply, squitation of compoind walk electrications etc. against seminated it. against the seminated with facilities at a grain of Rsh 1000 peo T school. 4000 such schools in clumping 1200 schools in a doctor of the seminated with a reason of the seminated and are against the seminated of the seminated of the seminated with the seminated and amount of the seminated of the seminated

Science Kit boxes

7.1.2.8 Schools having Stds. I to IV were supplied Science Kit boxes during Fifth Plan. It has been decided to continue this scheme during Sixth Plan to cover schools having Std. V to VII. There are 10500 such schools, and out of them, 4000 schools will be supplied a kit box costing Rs. 500 each during the Sixth Plan and an amount of Rs. 20.00 lakhs is proposed for the Sixth Plan 1980-85 including, 1000 schools in tribal areas.

Incentive to parents of Tribal Pupils

- 7.1.2.9. Literacy rate in the tribal area as compared to the in non-tribal areas is very low. Due to poverty, tribal people are reluctant to send their children to schools. It is therefore necessary to give them incentives so that they may send their children to schools. There are 6.19 lakh children enroled in schools in tribal areas. It is proposed to supply 5.70 lakh pairs of uniforms and 25.00 lakh sets of Text books free of cost during the Sixth Plan 1980-85 and for that an amount of Rs. 200.00 lakhs is proposed.
- 7.1.2.10. Families of primitive groups viz. Kolgha, Kotwalia, Kathodias, Padhar, Siddi, etc. are more backward among the tribal communities. To enable these families to send their wards to schools it is necesary to offer them incentives. It is proposed to supply them food and clothes, for sending their children regularly to schools. The cost of these incentive will be Rs. 200 per family per annum. Under Special Central assisance scheme an amount of Rs. 50.00 lakhs is expected from the centre during the Sixth Plan 1980-85.

Financial assistance to Scheduled Castes, Scheduled Tribes and other backward classes (Baxi Panch) girl Pupils

7.1.2.11. There is a huge wastage after standard fourth particularly in girls. To avoid stagnation and wastage and also to promote girls education particularly in backward communities, it is proposed to give a cash award of Rs. 100 per student every year to the first five girls of S.C. S.T. and OBC in order of merit in the annual examination of Std. IV of each Taluka and this award will be continued till they complete their education upto Std. VII. During Sixth Plan a provision of Rs. 32.48 lakhs is proposed for 33,300 girl pupils.

Coaching classes for weaker students

7.1.2.12. One of the main objectives of the Programme of universal primary education is the reduction in the number of drop outs. To avoid considerable stagnation, it has been decided not to hold annual examination at the end of Stds. I and II. Looking to the stagnation rate at the end of Std. III it is desirables to conduct coaching classess for weaker students

during summer vacation so as to enable them to appear for re-examination. A teacher who will conduct such a class having strength not less than 30 pupils will be paid Rs. 150 as remuneration. During the entire period of the Sixth Plan a provision of Rs. 12.60 lakhs is proposed to cover 2.52 lakh pupils.

Non-Formal Education

7.1.2.13. It is found that despite all efforts, it is very difficult to bring all children of the age group 6-14 to schools under formal Education System. Economic factors are mainly responsible for this apathy to education. It is therefore, imperative that due stress is laid on non-formal education centres and to identify the learner. Teachers or the unemployed educated youths will be mobilised to take-up this programme. It is targetted that about 2.24 lakh pupils which comes to 20% of the total additional enrolment of the entire period of Sixth Plan will be given coaching to make them eligible for the multiple entry at the elementary stage. An outlay of Rs. 149.40 lakhs is proposed at the rate of Rs. 67 per pupil for the Sixth Plan 1980-85.

Medical Check-up of Primary School Children

7.1.2.14. It is estimated that there are about 59.00 lakh children in the age group 6-14. Health is one of the goals of Education. School health services have been now accepted as a part of the general health services. To promote and maintain the health of school going children it is necessary to have periodical medical check-up. The target for medical examination of 20.00 lakh children studying in primary schools will be achived by 1981.82. For continuning the work of printing of pemphlet of "Arogya Pustika" a provision of Rr. 5.50 lakhs is proposed for the Sixth Plan 1980-85.

Pre-Primary Schools

- 7.1.2.15. At present the total no. of pre-primary schools working in the State in rural areas is 1172. More and more preprimary schools are expected to be started and they will have to be given grantin-aid as per Government rules. As per the present rates pre-primary schools are paid 90% grant on the expenditure of the salary to teachers and contingency equipment grant at 20% of 90% grant on salaries of teachers. An outlay of Rs.89.00 lakhs is proposed for the Sixth Plan 1980-85 for the purpose.
- 7.1.2.16. For strengthening the existing machinery at the State level as well as district level provision of Rs. 11.90 lakhs is proposed for the Sixth Plan, 1980-85.

(ii) Teacher's Training

7.1.2.17. With a view to keep teachers in constant touch with the new trends, in the field of education, in-service training has been considered necessary once in a period of five years. Duration of the in-service training programme will be of one month and it will

be organised by the State Board of Teachers' Education. The teachers undergoing the in-service training will be paid a stipend of of Rs. 150/— for one month. An amount of Rs. 12.41 lakhs for the Sixth Five Year Plan 1980-85 is proposed for this purpose.

- 7.1.2.18. It is proposed to provide science kit box to Panehayat schools for Std. V to VII. It is inevitable that the teachers should know how to make use of these kit boxes. It is therefore necessary to impart training to these teachers in the use of the kit boxes. An amount of 0.25 lakh is proposed for 1980-85.
- 7.1.2.19. It is proposed to pay grant to the training institutions of primary teachers for strengthening and improving existing facilities in these institutions. The expenditure to Government on account of each Government institution is estimated at Rs. 0.50 lakh and at Rs. 0.30 lakh for non-Government institutions. The non-Government Institutions will have to provide for a matching share of Rs. 0.20 lakh. An amount of Rs. 10.00 lakhs is proposed for 1980-85 for this purpose.
- 7.1.2.20. To develop the Science activities and to inspire teachers and Students to take upresearch activities in science, district level science fairs are organised every year in each District. State level Science fair is also organised every year. Teachers and students of schools take active part in these fairs in large numbers. An amount of Rs. 2.00 lakhs is proposed for 1980-85.
- 7.1.2.21. The State Institute of Education is located in 110 years old building of the P.R training College Ahmedabad. The building is very old and not suitable to the needs and programmes of the State Institute of Education. It is therefore proposed to construct a new building for S.I.E. at an estimated cost of Rs. 21.00 lakhs. A provision of Rs. 21.00 lakhs is proposed for this purpose for the Sixth Plan 1980-85.

(iii) Special Education (Adult):

7.1.2.22. According to the 1971 census about 41.75 lakh adults were illiterates in the age group 15-35. Taking into consideration the normal increase of adults in the said age group the projected population at the end of the Sixth Plan 1984-85 will be around 62 lakhs. By the end of the year 1979-80 about 9 lakh adults have been covered under the Adult Education Programme. It is proposed to cover 35.30 lakh illiterate adults in the age group 15-35 under the Adult Education programmes during the Sixth Five Year Plan through implementation of the following schemes:—

1 Rural Functional Literacy Programme (Sponsored by Government of India).

- 2. National Adult Education Programme (Sponsored by Government of India).
- 3. State Adult Education Programme (Similar to NAEP) (Sponsored by State Government).
- 4. Adult Education Projects by Universities/Colleges.
- 5. Adult Education Projects through Nehru Yuvak Kendras.
- 7.1.2.23. The involvement of voluntary agencies is emphasised in almost all the adult education programmes. These programmes have to be publicised in the State to attract the voluntary agencies towards these programmes. Similarly the society as a whole and illiterate adults in the age group 15-35 in particular will also have to be made aware of the importance and their obligations towards these programmes. An outlay of Rs. 250.00 lakhs is proposed for the Adult Education Programme for the Sixth Plan 1980-85.

7.1.3. Secondary, Higher Secondary, University and Higher Education.

7.1.3.1. An outlay of Rs. 1440 lakhs for the Sixth Plan 1980-85 is proposed for the programmes under Secondary, Higher Secondary, University and Higher Education as under:—

(Rs. in lakhs)

| | · · | , |
|------------|--|-------------------------------|
| Sr. No. | Name of the Programme. | Outlay proposed 1980-85 |
| 1. | Secondary and Higher Secondary Education including programmes for Vocationalisation. | 822.29 |
| 2. | University and Higher Education including scholarship. | 507.90 |
| 3. | Games and Sports. | 15.70 |
| 4. | Art and Culture (Library Development). | 94.11 |
| | Total | 1440.00 |
| | | |

7.1.4. Secondary Education:

7.1.4.1. Secondary education in the State has rapidly expanded and has almost reached a saturation point except in rural areas. The main emphasis will have to be given to the rationalisation and consolidation of the growth achieved so far and for improvement of the quality of education.

Opening of New Secondary Schools,

7.1.4.2. By the end of May 1980 there were 3118 secondary schools in the State. It is envisaged that about 1.75 lakh additional pupils would be enrolled in the secondary schools during the period of the Sixth Five Year Plan. During the year 1979-80, 95 secondary schools (13 in traibal area and 82 in non-tribal areas) and 450 additional divisions in the were opened. According to the existing schools existing pattern, for a class of 40 pupils 1.5 teachers are sanctioned. It is proposed to provide an outlay of Rs. 270.07 lakks on account of opensecondary schools and also on ing of 500 new account of facilities created so far in Government High Schools and provision for the opening additional'5 Government Secondary Schools in the tribal area during the Sixth Plan 1980-85.

In Service Training:

7.1.4.3. As a part of qualitative improvement programme, stress is laid on 'teachers training. It is proposed to provide an inservice training to about 4800 teachers during the period of Sixth Plan for which a provision of Rs. 6.15 lakhs is proposed. Provision is also made for strengthening libraries and laboratories during the Sixth Plan.

Book Banks :

7.1.4.4. Students coming from the weaker section of the society are not able to purchase textbooks at secondary and higher secondary stage of education. The scheme envisages provision for free supply of text-books, to the needy-students. The Text-Books are distributed through the District Education Officers. It is proposed to supply 1.40 lakh sets of text-books during the Sixth Plan period. The average cost of one set of text books is estimated at Rs. 25/- and accordingly an outlay of Rs. 35.00 lakhs is proposed for this purpose.

7.1.5: Higher Secondary Education-

of Higher Education viz 10+2+3 to comply with the National Pattern. Under this scheme the existing secondary schools will be permitted to open Higher Secondary class of Standard XI during the First year of conversion and Std. XII in the Second year of convertion. It is proposed to convert additional 525 secondary schools into Higher Secondary Schools during the Sixth Plan period. This will necessitate opening of 525 New Classes of Standard XI and 634 new classes of Std. XII schools during the Sixth Plan Period. An outlay of Rs. 245.00 lakks is proposed for the Sixth Plan.

7.1.6. Vocationalisation:

7.1.6.1. Vocationalisation of Education is vital for the purpose of suitable moulding our youth towards gainful vocations, thus reducing unnecessary pressure on our universities. The number of vocational institutions functioning under the Directorate of Education at present is about 30 and the enrolment of student is about 3000. During the Sixth Plan it is envisaged to raise the number of institutions to 100 and the enrolment of students, under vocational courses to 10,000. A provision of Rs. 50.00 lakhs is proposed for the Sixth Plan 1980-85.

Vocational Education Board.

7.1.6.2. It is also proposed to set up an effective Vocational Education Board in the Directorate of Education. The Chairman of the the Board may be a full time honorary worker, who is supposed to deal with the officials of the Government, Semi-Government and voluntary bodies and plan and coordinate the vocational education at +2 stages in all fields. It is also proposed to set up a special unit to coordinate vocational courses. A provision of Rs. 20.43 lakhs is proposed for the Sixth Plan 1980-85.

7.1.7. University and Higher Education:

- 7.1.7.1. The main emphasis will be on qualitative inprovement. It is proposed to provide matching assistance to the universities so as to enable them to avail of the matching assistance from the university Grants Commission. It is also proposed to provide assistance to the Universities towards the development schemes not assisted by the U.G.C. A provision of Rs. 245.00 lakhs is proposed for the Sixth Plan 1980-85 for the purpose.
- 7.1.7.2. A new residential university is established at Bhavnagar during the year 1978-79. It is proposed to provide an outlay of Rs. 100.00 lakhs for the Sixth Plan 1980-85 for its development programmes.
- 7.1.7.3. It is proposed to provide matching assistance to the affiliated colleges in respect of educational schemes proposed by them and approved by the University Grants Commission. A provision of Rs. 35.00 lakhs is proposed for the Sixth Plan 1980-85.
- 7.1.7.4. Provision is also proposed for improvement of physical facilities in Government Colleges, for awarding loan scholarships to the students of weaker sections, S. Cs₀, S.T.S. etc.

7.1.8. Art and Culture.

(i) Development of Libraries.

7.1.8.1. A provision of Rs. 94.11 lakhs is proposed for various improvement programme under Library Development for the Sixth Plan 1980-85 of which the main schemes are the opening of new villago-libraries Rs. 14.75 lakhs and provision of construction of building of Government libraries Rs. 24.00 lakhs etc.

Other Programmes

Youth welfare, Cultural programes etc.

7.1.8.2. State Youth Board and Sports Council programmes of youth welfare included alround youth development, grishma shibir, music camps, reading camps, know yours border, mgram gazetters, cottage industries camps etc. A provision of Rs. 45.00 lakhs is proposed for the youth welfare activities for the Sixth Plan. A provision of Rs. 140.00 lakhs is proposed for state sports council programmes for the Sixth Plan. A provision of Rs. 125.00 lakhs is proposed for propagation of nritya natya akademi programmes and a provision of Rs. 25.00 lakhs is proposed for the lalit kala akademi activities during the Sixth Plan 1980-85.

Archaeology:

7.1.8.3. It is proposed to expand exploration, excavation and conservation activities. It is proposed to undertake chemical preservation of monuments, publications, constructions of quarters and strengthening of Administrative machinery. A provision of Rs. 40.00 lakhs is proposed for the Sixth Plan 1980-85.

Archives.

7.1.8.4. The department looks after preservation and maintenance of old-non-current records of permanent nature. A scientifically designed building for housing archives is under construction at Gandhinagar. A provision of Rs. 35.00 lakhs is proposed for the Sixth Plan 1980-85.

Museums.

7.1.8.5. At present there are nine Government Museums, A museum has been started at Saputara in Dangs District and the work of construction of its building is expected to be completed during the Sixth Plan period. A provision of Rs. 50.00 lakhs is proposed for Sixth Plan 1980-85.

7.1.9. Development of Languages.

Gujarati Language.

7.1.9.1. The scheme of development of Gujarati Language and its literature was first initiated in the year 1966-67 and has since been continued during the Fourth and the Fifth Plans. This programme is proposed to be accelerated during the Sixth Plan 1980-85. A provision of Rs. 50 lakhs is proposed for the Sixth Plan 1980-85.

Other Languages.

7.1.9.2. The scheme for the development of Sindhi, Urdu and other Modern Indian Languages is implemented from the year 1978-79. It is proposed to accelerate and expand the activities under this programme. A provision of Rs. 50 lakhs has been proposed for the Sixth Plan 1980-85.

STATEMENT General Education List of Schemes included in the Sixth Five Year Plan 1980—85

(Rs. in lakhs)

| Sr. No. | | No. and Name of the Scheme | Outlay | proposed | 1980-85 |
|------------|-----------|---|-------------------|----------|-----------|
| No. 1 | | 2 | | Total 3 | Capital 4 |
| | I. Prima | ry Education | | | |
| | (i) Eleme | entary Education | | | |
| 1. | EDN-1 | Additional teachers for Primary Schools for enroling addition pupils | al 23 | 393.30 | |
| 2. | EDN-2 | Construction of class rooms |] | 35.70 | 135.70 |
| 3. | EDN-3 | Construction of quarters for teachers in tribal area | • • | 3.00 | 3.00 |
| 4. | EDN-4 | Opening of New Primary School | • | 7.11 | |
| ₽. | EDN-5 | Opening of New Primary Schools at capital town | • • | 1.98 | |
| 6. | EDN-6 | Conversion of single teacher schools into two teacher School | alo | 71.65 | |
| 7. | EDN-7 | G.I.A. to schools for improvement of physical facilities | • • | 40.00 | |
| 8. | EDN-8 | Science Kit Boxes | •• | 20.00 | •• |
| 9. | EDN-9 | Incentives to parents of tribal pupils | | 200.00 | |
| 10. | EDN-10 | Financial Assistance to talented SC/ST/OBC (Baxi Pane girl pupils | ch) | 33.48 | 19 1 |
| 11. | EDN-11 | Strengthening of supervisory Machinery | 4 | 82.12 | |
| 12. | EDN-12 | Coaching classes for weak students in summer vacation | | 12.60 | |
| 13. | EDN-13 | Introduction of ron-formal education for the age group 9- | 14 | 149.40 | |
| 14. | EDN-14 | Medical check up for primary school children of the age group 6-1 | 4 | 5.50 | •• |
| 15. | EDN-15 | G.I.A. to Pre-Primary Schools | • • | 89.00 | |
| 16. | EDN-16 | A Strengthening of Planning Machinery & setting up of Monring cell in D.E.'s office | i t o- | 11.90 | |
| | | Total-(i) Elementary Education | on 3 | 256.74 | 138.70 |
| | (ii) Teac | thers Training | | | |
| 17. | EDN-17 | Teachers Training Programme | •• | 12.41 | |
| 18. | EDN-18 | Training to primary teachers for Stds. V to VII (Science I boxes) | ζit ·· | 0.25 | |
| 19. | EDN-19 | Strengthening and improving of existing primary teachers training institutions | ai- | 10.00 | ••• |

| 1 | | 2 | | | 3 | 4 |
|-------------|------------------|--|---------------|---------------------|--------------|--------|
| 20. | EDN-20 | Magazine for school boys | | •• | 2.50 | |
| 21. | EDN-21 | Science fair at Dist. & State level | | | 2.00 | |
| 22. | EDN-22 | A science hobby corner and innovation and ex | perimentatio | on in | | |
| 0.0 | DDM 30 | science education | | • • | 1.60 | • • |
| 23. | EDN-23 | Workshop for science teacher of primary scho | | • • | 0.50 21.00 | 91 00 |
| 24. 25. | EDN-24 EDN-25 | Construction of building for State Institute of Strengthening the administrative wing of St | | •• •• • f | 21.00 | 21.00 |
| 20. | EDN-2) | Education, Ahmedabad | ate Institut | .e 01 | 2.00 | 16 |
| 26. | E DN -26 | Strengthening of publication unit of State In Ahmedabad | nstitute of H | Education | , 1.00 | |
| | | | | ·· — | | 21.5 |
| | | Total—(ii) T | eachers Trai | ining — | 53.26 | 21.00 |
| | (iii) Spec | cial Education | | | | |
| 27. | EDN-27 | Rural functional Literacy programme | | •• | 15.60 | • • |
| 2 8. | EDN-28 | State Adult Education Programme | •• | • • | 163.34 | •• |
| 29. | EDN-29 | Adj. Post Literacy Project | •• | • • | 24.88 | |
| 3 0. | EDN-30 | Incentive grants to voluntary agencies | • • | • • | 21.00 | |
| 31. | EDN-31 | Publicity (Adults) | •• | | 6.23 | • • |
| 32 . | EDN-32 | Administrative set up | •• | •• | 13.95 | • • |
| | | Total—(iii) S | Special Educ | ation | 250.00 | |
| | | I-Total Primary Education. (including Ad | lult Educa | ati o n) | 0540 00 | 150 50 |
| | TT C | | •• | •• | 3560.00 | 159.70 |
| | 11. Seco | ndary and Higher Secondary Education | | | | į. |
| 33. | EDN-33 | Regulated growth of secondary Schools | | | 270.07 | 83.50 |
| 34. | EDN-34 | Remedial teaching for weak students | •• | ••• | 10.00 | •• |
| 35 . | EDN-35 | Improvement of science education | | | 15.00 | •• |
| 36. | EDN-36 | Programme of socially useful productive work | •• | | 5.00 | •• |
| 37. | EDN-37 | Inservice training of teachers | •• | •• | 6.15 | •• |
| 38 . | EDN-38 | Improvement in supervision and guidance | •• | | 7.00 | • • |
| 39. | EDN-39 | Opening of new higher secondary schools | •• | | 245.00 | •• |
| 40. | EDN-4 0 | Introduction of artificial sources in technical r | esourcs. | | 1.00 | • • |
| 41. | EDN-41 | Setting up of spl. cell at + 2 stage vocational | education | 4.0 | 15.43 | |
| 42 . | EDN-42 | Introduction of vocational centres | •• | | 3.00 | •• |
| 4 3. | EDN-43 | Formulation of vocational education board | •• | | 5.00 | •• |
| 44. | EDN-44 | Vocational education GIA to voluntary agencies | es | | 50.00 | |

| 1 | | 2 | 3 | 4 |
|-------------|--------------------|--|--------|--------|
| 45. | EDN-45 | Vocationalisation of education, supervision, control and direction | 765 | |
| | | and placement | 15,20 | •• |
| 4 6. | EDN-46 | Setting up of Book Banks | 35.00 | •• |
| 47. | EDN-47 | Strengthening of library facilities higher secondary schools | 25.00 | |
| 4 8. | EDN-48 | Strengthening of Directorate of Education and Dist. Education Offices | 10.00 | |
| 49. | EDN-49 | Construction/repairs in Government secondary schools | 80.40 | 80.40 |
| 5 0. | EDN-50 | Strengthening of Gujarat Secondary Education Board | 3.00 | • • |
| 51. | EDN-51 | Strengthening of the State Board of Examination | 12.96 | 8.10 |
| 52 . | EDN-52 | Strengthening of institution of vocational guidance | 1.08 | |
| 53 . | EDN-53 | Development of Sanskrit Language | 2.00 | |
| 54. | EDN-54 | Appointment of Hind, teachers in non Hindi speaking States | 5.00 | |
| | | II. Total—Secondary and Higher Secondary Education | 822.29 | 172.00 |
| | III. Univ | versity and Higher Education | 1.0 | |
| 55 . | EDN-55 | Gujarat council of studies for special cultural and scientific | 11.10 | 1, 1, |
| | | advancement | 11.10 | • • |
| 5 6. | EDN-56 | Grant to Uni. for Higher administrative and managerial development courses | 2.00 | |
| 57. | EDN-57 | Performance award to colleges | 10.00 | |
| 58. | EDN-58 | Development grant to Sardar Patel Insti. of Economic and Research Ahmedabad | 1.00 | |
| 59 . | EDN-59 | Development of Government Colleges | 40.00 | |
| 60. | EDN-60 | Faculty Development Programme | 1.25 | |
| 61. | EDN-61 | Assistance to professional association of an academic nature | 0.80 | •• |
| 62 . | EDN-62 | Assistance to colleges for inviting of experts for lecture and seminars | 1.25 | • |
| 63. | EDN-63 | Spl. Coaching classes for weak students | 10.00 | |
| 64. | ED N -64 | Provision of matching share against U.G.C. Grant to colleges | 35.00 | |
| 65. | EDN-65 | Hostel environment programme | 1.25 | |
| 66. | EDN-66 | Opening of Education and vocational guidance department in | 1.25 | 5. |
| C.FT | EDM 67 | Colleges | 245.00 | ••• |
| 67 . | | Grant to the Universities | 100.00 | |
| 68. | EDN-68 | · · | 48.00 | ., |
| 69. | EDN-69 | Scholarships and freeships (Including for secondary education) | 46.00 | · · · |
| | \$ ₁ .0 | III. Total-University and Higher Education | 507.90 | 3 (2). |
| | | es, Sports and Youth Welfare | 4 25 3 | -4 × |
| 70. | EDN-70 | Games and Sports | 0.70 | |
| 71. | EDN-71 | Introduction of National Service Scheme | 15.00 | |
| 72. | EDN-72 | Integrated Sche. of YW | 45.00 | 10.00 |
| 73. | EDN-73 | Expansion of activities of State Sports Council | 140.00 | 45.00 |
| | | Totll | 200.70 | 55:00 |
| 13 | 2.1 | * per- | | ~ . |

| 1 | | 2 | | | | 3 | 4 |
|-------------|----------------|------------------------------|--------------------|-----------------|--------|-------------|---------------|
| | V. Art a | nd Culture | 40 | | | | |
| | (i) Devek | opment of Libraries | | | | | |
| 74. | EDN-74 | Library development | • • | • • | | 12.60 | • • |
| 7 5. | EDN-75 | Construction of building for | new Government | libraries | • • | 24.00 | 20. 00 |
| 76. | EDN-76 | Furniture for Government li | brarie s | •• | •• | 1.38 | • |
| 77. | EDN-77 | Reading Material for Govern | ment libraries | • • | •• | 3.50 | • • |
| 78. | EDN-78 | State Contribution towards | R. R. Mohan Ra | y Foundation | •• | 3.00 | 4. |
| 7 9. | EDN-79 | Opening of village libraries | •• | •• | •• | 14.75 | 6 B |
| 80. | EDN-80 | Refresher courses for emplo | yees etc. | • • | • • | 2.75 | • • |
| 81. | EDN-81 | Strengthening of Curator of | Libraries | •• | •• | 0.73 | • • |
| 82. | EDN-82 | Strengthening of Assistant C | urator of librarie | g | •• | 2.10 | |
| 83. | EDN-83 | Strengthening of Central Lib | rary, Vadodara | •• | | 0.60 | • 10 |
| 84. | EDN-84 | Strengthening of Governmen | t Dist. libraries | •• | | 4.65 | •• |
| 85. | EDN-85 | (i) Strengthening of Other | Government libra | nies | •• | 0.35 | • • |
| | | (ii) Strengthening of non-Go | vernment librarie | es | •• | 1.20 | |
| 86. | EDN -86 | To Improve GIA pattern to | villages libraries | | | 22.50 | • • |
| | | То | tal—Development | t of Libraries | - | 94.11 | 20.00 |
| | (ii) Other | Schemes | | | - | | |
| 87. | EDN-87 | Cultural Schemes— | | | | | |
| | | (A) Sangit Academy | •• | •• | • • | 125.00 | 100.00 |
| | | (B) Lalit Kala Academy | •• | •• | • • | 25.00 | 10.00 |
| 88. | EDN-88 | Development of Archaeology | •• | •• | • • | 40.00 | 5.50 |
| 8 9. | EDN-89 | Development of Archives | •• | •• | • • | 35.00 | 3.78 |
| 90. | EDN-90 | Development of Museums | •• | •• | • • | 50.00 | 3 8.50 |
| | | | Total—(ii) O | ther Schemes | - | 275.00 | 157.78 |
| | | | Total—Art & Cu | alture (i)+(ii) | -) | 369.11 | 177.78 |
| | VI. Deve | elopment of Languages | | · · · | - | | |
| 91. | EDN-91 | Development of Languages | •• | •• | •• | 100.00 | 8 6= |
| | | | Grand Total-G | eneral Educ | ation | 5560.00 | 564.48 |

7.2. TECHNICAL EDUCATION

7.2.1 Itroducation

7.2.1.1. The existing facilities for Techincal Education in Gujarat State have been provided with a view to satisfying the increasing needs for Techincal and specialised manpower in the State and out-side the State. State had concentrated on consolidation and improvement of quality of education through curriculum development, diversification of courses, introduction of new electives through need based training programme, during the Fourth and Fifth Plans and has made continuous efforts to ensure a steady supply of Engineers/Technologists and Technicians, at appropriate level.

7.2.1.2. Gujarat State has established 7 Engineering Colleges and 19 Poly-technics with an intake of 1885 and 3375 seats for degree and diploma courses respectively at the end of 1979-80. There are 44 Technical High Schools which give technical background to secondary school students.

7.2.2. Level of Achievement

(a) Academic

7.2.2.1 During the Fifth Plan, the State has introduced two undergraduate courses in Chemical Engineering with 30 seats and Textile Technology with 20 seats, raising the seats from 1790 to 1840. A part-time degree course in Electronics with 10 intake was started from June, 1976. Seats for the part time degree courses have been rraised from 100 to 145 and there by raising the total degree seats from 1840 to 1885.

7.2.2.2. Separate Girls, Wings have been established in four existing Polytechnics (at Rajkot, Bhavnagar, Patan and Adipur) and facilities of trainig to the girls have been created, with 195 seats for the diploma courses such as Home Science, Radio Technology, Commercial Practice-including Secretariat Practice, Garment Making, Costume Design and Dress Making etc. New diversified diploma courses in Automobile Engineering (30 seats) and Plastic Engineering (30) have been introduced by adjustment of seats since 1974 and 1975 respectively.

7.2.2.3. With the introducation of 10+2+3 pattern, it was considered important to divert major portion of the students from the Universities and channelise them through the need based vocational education courses. Accordingly, the State has started several job oriented vocational certificate courses. 834 additional seats have been introduced at the certificate level. Thus, the certificate courses have been developed but largely augmented by the trade courses run in Industrial Training Institutes.

(b) Faculty:

7.2.2.4. In order to improve the quality and standard of education, teachers were deputed for long term training. The in service short-term courses were

also organised for teachers and the engineers serving in industries were also allowed to participate in such courses. Teachers were deputed for Ph.d. Courses.

7.2.2.5. Institutions have been allowed to extend the consultancy services. Do-It-Yourself exhibition at State level reflecting the creative abilities of staff and students continued to be organised every year.

7.2.3 Perspective of development

7.2.3.1. The policies of State plan will have to be operated within the broad frame work of national policy of Central Government for development of technical education for the Sixth Plan. To-day Gujrat ranks as the third largest State in Industrial output in the Country.

7.2.3.2. Major Projects and Inductrial Development:—The following major projects are expected to be developed during the coming years in Gujarat:-

- (a) Narmada valley Development.
- (b) Industrial Development in Fertilisers, Chemicals, Cement, etc.
- (c) Ship building yard and development of Magdalla Port.

7.2.2.3. The growth of Technical Education always gets linked with the growth of economy because, it is the economic growth that provides employment includicing employment of technoligists engineers and technicians. Decisions to take up the above development programmes and the recent modifications in the industrial policy making it intensive with adequate engineers and technicians at the appropriate level, have indirectly raised the need for the adequate technical man-power, at the traditional and the non-traditional fields. At the all India level, the technical men-power requirement study was under taken by the I.A.M.R., New Delihi, based on the new perspectives, strategy and investment priorities. The estimates of man-power based on assumed growtl rates, assessment of national income are as under:

| | | Engg. degree and diploma holders (in lakhs) | | |
|------|---|---|----|------|
| | - | 1975 | 2 | 1987 |
| (i) | Estimated Supply | 727 | .2 | 870. |
| (ii) | Estimated Requirements lo (4.5%) | w 642 | .6 | 875. |
| | Estimated rejugrements Medium (5.5%) | 698 | .1 | 1604 |
| | Estimated requirements High (7.0%) | 786 | .5 | 1224 |

Of course, the steps have been taken to inprove the efficiency of the institutions thereby minimising the wastage; the supply of technical man-power has been tried to be uplifted, at degree and diploma level.

7.2.3.4. It may, therefore, be necesary to introduce new courses where it may be absolutely essential in the interest of development of specific sectors of the State. The emerging areas attributing to the demand of man-power are therefore (1) Marine Engg., (2) Navigation (3) Port Engg. (4) Polymer and Plastic Engg. (5) Electronics, (6) Rubber Technology, (7) Industrial Design, (8) Irrigation Engg; (9) Interior Decoration (10) Dairy Engg. (11) Industrial Electronics. (12) Public Health Engg. (13) Rural Engg. (14) Industrial Engg. (15) Bio-Medical Engg., etc. The interesperiorities of the programmes will be depending upon the needs of the State, in particular field of tecnology.

Faculty Development

7.2.3.5. It is necessary to continue the existing faculty improvement programmes in respect of practical training of teachers in industry, deputation of teachers for post-graduate and doctoral programmes, short term courses and deputation of Polytechnic teachers to Teahnical Teachers, Training Institute.

7.2.3.6. The non-teaching technical supporting staff has a direct bearing on the technical education process. Apart from assisting in laboratory experimentation and work shop practice, they are primarily responsible for the maintenance of laboratory equipment instruments etc. This category of personnel will need refresher training to ensure optimum and effective utilisation of resources for instruction.

Continuing Education:

7.2.3.7. More opportunities for upgrading the skills and knowledge should be available to those who are already in the profession to enable them to professionally advance according to their abilities and covenience through continuing education and nonformal/Adult education by way of short-term courses, part-time courses, correspondence courses, etc.

Vocational Education :-

7.2.3.8. The State of Gujarat provides facility of post-S.S.C. diploma and trade courses in technical field extending over 3 years and 2 years respectively. A number of specialised fields have been covered. However, this programme of vocationalisation will progress according to the resources available and also if jobopportunities and training facilities are made available to such large section of X standard pass outs.

Students Amenities and other Programmes:

7.2.3.9. These schemes will continue to be in operation. The canteen buildings, under construction will be completed and the furniture, utensils, water-

coolers etc. will have to be provided. Moreover, the students residing in the college campus, will be provided the medical attendance facility. The staff quarters and hostel facilities are to be provided where barely needed.

Re-organisation of Directorate:-

7.2.3.10. The State being the implementing agency for most of the educational programmes, the State Directorate have a variety of academic, professional and managerial roles to play the directorate should have organs dealing with man-power assessment, planning, co-ordination, controlling, monitoring and evaluation of education programmes. The directorate should therefor be strengthened with professional academic and techno-administrative staff.

7.2.3.11. The State has introduced Semester system of examination from 1969-70. The work of conducting diploma and certificate courses exmination is voluminous and of complex nature. This work has been increasing due to revision of syllabii, introduction of electives and number of diversified courses. The Technical Examination Board will have to be strengthened with technical and non-technical staff.

7.2.4 Review of Progress

7.2.4.1. The position of the institutions together with the intake and other details from time to time is detailed below:—

| Plan period | Engineering Colleges Degree | | Polytechnics Diploma | |
|------------------------------------|--------------------------------|--------|-----------------------------|--------------|
| | No. of Institu- tions | Intake | No. of Institu- tions | Intake |
| 1 | 2 | 3 | 4 | 5 |
| 1. Ist Plan (1951-56) | 4 | 475 | 8 | 760 |
| 2. IInd Plan (1956–61) | 4 | 950 | 11 | 1475 |
| 3. IIIrd Plan (1961-66) | 5 | 1360 | 18 | 2705 |
| 4. Three Annual Plans (1966-69) | 7 | 1790 | 19 | 3255 |
| 5. IVth Plan (1969-74) | 7 | 1790 | 19 | 32 55 |
| 6. Vth Plan (1974-78) | 7 | 1840 | 19 | 3255 |
| 7. Annual Plans (a) 1978-79 | 7 | 1840 | 19 | 3518 |
| (b) 1979-80 | 7 | 1885 | 19 | 3708 |

7.2.5. Development Programmes for 1980--85

7.2.5.1. An outlay of Rs. 600.00 lakhs is proposed for the sub-sector "Technical Education" for the Sixth Five Year Plan 1980-85. The broad break up of the proposed outlay is as under :-

| | | (Rs. in lakhs) |
|------------|---------------------------------------|-------------------------------|
| Sr. No. | Minor Head of Development | Proposed outlay 1980—85 |
| 1 | 2 | 3 |
| 1. | Direction and Administration | 10.00 |
| 2. | Technical Schools | 130.00 |
| 3. | Polytechnics | 195.00 |
| 4. | Engineering Colleges and Institutions | 160.00 |
| 5. | Scholarships | 0.50 |
| 6. | Research and Training | 10.00 |
| 7. | Other Expenditure | 94.50 |
| | Tota | 600 00 |
| | | |

The programme are discussed in the following paragraphs.

7.2.5.2. It is proposed to increase the level of 1979-80 by 435 seats at degree level and by 1277 seats at diploma level during the Sixth Plan as per the details shown below:-

| Sr. No | | Level of achievement 1979—80 | Terminal year taerget 1984—85 |
|-----------|-----------------------------|------------------------------------|-------------------------------------|
| _1 | 2 | 3 | 4 |
| I. | Degree course. | , , , , | |
| | 1. Full time Under Graduate | 1740 | 2035 (295) |
| | 2. Part time Under Graduate | 145 | 285 (140) |
| | Total | 1885 | 2320 (435) |
| п. | Diploma Course | | |
| | 1. Full time | 3205 | 4112 (907) |
| | 2. Part Time | 330 | 540 (210) |
| | 3. Post diploma | 170 | 33 0 (160) |
| | Total | 3705 | 4982 (1277) |

(Figures in bracket indicate net addition)

1. Introduction of 2 1/2 years pattern of technician diploma courses in conventional branches of Civil, Mechanical and Electrical Engineering making a

beginning with 210 seats in 1980-81, at the M.S. Univer sity, Polytechnic, Vadodara and gradually extending it at other Polytechnics in the State within the overall intakes sanctioned for the Polytechnics. Some specialised courses are envisaged for a 2 year pattern after XII Std. (Science Stream).

2. Introduction of 1 year specialized course for diploma holders to suit the needs of Narmada Project. This is to be linked up with improvement of ratio of employment to one degree holder to two diploma holders.

Civil Engineering :-

3. To take care of additional demand of Civilengineers for the Narmada Project and the Gujarat Water and Sewerage Board, it is envisaged to increase the level of 1979-80 by 200 seats at degree level and 400 seats at diploma level.

Mechanical Engineering:

4. To meet the manpower needs of industrial development it is envisaged to increase 65 seats at degree level and 230 seats at diploma level during the Plan 1980--85.

Special Diploma Course :--

5. To take care of future industrial development in chemical fertlizer, engineering industries in areas particularly in South and North Gujarat the following special diploma courses, with an intake capacity of 150 seats during the Sixth Plan are envisaged to suit the demand of specialised technicians:

| | Name | Seats | Centres |
|-------------|--|-------|---------------------|
| (a) | Elec*ronics | 20 | Vadodara or Bharuch |
| (b) | Chemical | 20 | Bharuch |
| (c) | Man-made fibre (fabrics) | 20 | Ahmedabad |
| (d) | Man-made fibre (wet processing) | 20 | Ahmedabad |
| (e) | Ship building Engineering | 20 | Bhavnagar or Surat |
| (f) | Architectural Assistanceship | 30 | Ahmedabad |
| (g) | Micro Engineering Technology/Micro Instrumentation Technology. | 20 | Morbi |
| | | 150 | |

Post Diploma Course:

6. In order to meet the specialised manpower needs in varous fields, the following post-diploma courses of 1 1/2 year are proposed to be introduced in the Sixth Plan :-

| | Subject | Seate | Centre |
|-----|---|-------|---|
| 1. | Foundary Technology | 15 | Vadodara or Bharuch |
| 2. | Plastic Technology | 15 | Valsad |
| 3. | Energy System | 30 | Valla bh V idyanagar or Bhavnagar |
| 4. | Machine Tools Mainte- nance (Mecanical, Elec- trical/Electronics Control) | 10 | Bharuch or Rajkot |
| õ. | Industrial Safety | 20 | Ahmedahad |
| 6. | Interior Decoration | lã | Ahmedabad |
| 7. | Dairy Engineering | 15 | Vallon Vidyanagar |
| 8. | Industrial Electronics | 20 | Rajkot |
| 9. | Bio-Medical Instrumentation | 10 | Ahmedabad |
| to. | Industral Engineering | 10 | Bharuch |
| | | 160 | |

Learn while you earn scheme :-

47. Part-time courses are designed and conducted in such a way that the participants get benefit to learn and have opportunities to better their prospects. This scheme is, therefore, essentially "Learn while you hearn Scheme". The experience shows that this produces better results than the correspondence courses at the degree and diploma level. It is therfore proposed to increase the existing seats for part-time degree and diploma courses as under:—

| | Part time courses | | |
|----|---|-------------------|-------------------|
| A. | Degree Course | Existing Level | Proposed Level |
| | Ahmedabad | 115 | 165 |
| | Vadodara | 30 | 80 |
| | | 145 | 245 |
| | Chemical, Textile Tech. Courses at Vadodra | | 40 |
| B. | Diploma Courses | | 32 5 |
| | Bharuch | 30 | 60 |
| | Surat | 45 | 90 |
| | Rajkot | 45 | 60 |
| | Vadodara | 70 | 170 |
| | | 190 | 380 |
| | | | |

C. It is proposed to start part-time post-graduate course in textile chemistry with 20 seats for employees who have academic qualification of bachelor's degree in Science with Chemistry as principal subject.

Diversification :-

8. (a) It is proposed to introduce additional ten seats each for undergraduate courses in Plastic H-2683-60

Technology, Rubber Technology and Silicate Technology at L. D. College of Engineering, Ahmedabad.

(b) It is propo od to introdure new electives at the final year of the under-graduate courses:

| (i) Mioro processor | Ahmedabad |
|--------------------------------|----------------------|
| (ii) Alternative Energy System | Ahmedabad/Vidyanagar |
| (iii) Industrial Design | Ahmedabad |
| (iv) Marine Engineering | Surat |

- (c) It is proposed to increase the existing intake of electronic courses at A. V. Parikh Technical Institute, Rajkot from 100 to 115.
- 9. It is proposed to make provision for educational research in Poly-technics and Engineering research in Engineering colleges.

Technical High School Level:-

- 10 (a) Technical High Schools impart secondary education and there is good response to join the technical education. It is therefore proposed to add ten more divisions at the following centres:—
 - (a) Girls division at Surat.
 - (b) One division at Kapadwanj.
 - (c) One division at Junagadh.
 - (d) Other places where the demand may come up.
- (b) In order to divert the major portion of students from the universities and channelise them through the need based vocational education the following vocations are proposed to be introduced.
- (i) Textile Design
 (ii) Higher Certificate in Spinning (Part-time)
 (iii) Higher Certificate in Weaving (Part-time)
 (iv) Radio and T. V. Mechanic.
 (iv) Radio and T. V. High School, Ahmedabad.
- (vi) Hand Compositar (Part-time).

 20 R. C. Technical Institute, Ahmedabad.

 (vii) Machinman (Part-time).

 10 R. C. Technical Institute, Ahmedabad.

16

-do-

(v) Fitter

(viii) Draughtsman Mech. 16 Govt. Tech. High School, Palanpur. (ix) Draughtsman Mech 16 -do- Patan
(x) Electrician 16 -do- Surat.

160

- (xi) It is also proposed to start other Courses like Draughtsman (Civil) wireman, Electrician Turner, Fitter, etc. where the demand may come up.
- 11. Hobby Centres: It is the felt need to develop the skill and individual interest of students and facuty and also to develop the research talents and provide for opportunities for do-it-yourself activities. It is therefore, proposed to establish Hobby centres in each technical high schools and if any voluntary agency will come-up for such scheme. it is proposed to pay grants to such agencies/organisations. Moreover, it is proposed to pay grants to Rural Vocational Centres.
- 12. It is proposed to introduce the ad-hoc short duration courses to cater to the varied needs of the society. Such courses will be on self-supporting basis by making use of infrastructure facilities in institutions.

Consolidation and Improvement.

- 13. It is proposed to consolidate the existing achievements and improve the technical education training facilities, following are the emerging areas;
 - (1) Strengthening of Book Service Centres.
 - (2) Replacement of obsolete equipments and purchase of modern equipments.
 - (3) Development of library facilities.
 - (4) To start the sandwich based courses.
 - (5) Revision in staff-structures as per all India Council of Technical Education norms.
 - (6) Strengthening of computor centre at L. D. College of Engineering, Ahmedabad.
 - (7) Strengthening of Accounts Divisions and management and hostels.
 - (8) To provide adequate lecturers and head of Departments in Polytechnics, upgrading the existing posts.
 - (9) Curriculum revision and provision for equipments for Engineering Experimentation course.
- 14. It is proposed to develop two more Polytechnic as Community Polytechnics.

Students, amenities.

15. It is proposed to provide for play grounds, canteen buildings, water coolers, fans, furniture for canteens/hostels, Medical facilities (at some selected centres).

Re-organisation of Directorate & Teth. Examination Board.

- 7.2.5.3. It is envisaged to strengthen the Directorate of Technical Education with the organe dealing with Co-ordination, controlling and evaluation of education programme. It is proposed to provide adequate Staff for Inspection Unit, Accounts Unit and monitoring and evaluation Unit.
- 7.2.5.4. The Technical Examination Board has introduced a comprehensive Scheme of assessment of answer books. It has various types of special functions. It is proposed to strengthen the activities and administrative set up of the Board.

7.2.6. Special Component plan

- 7.2.6.1. It is proposed to organise the special classes for Remedial teaching to Scheduled Castes Students for the subjects in which they are found week.
- 7.2.6.2. It is proposed to establish Special book Service Centre for students belonging to the Scheduled Castes to give them a set of essential text books.
- 7.2.6.3. It is proposed to construct hostel block for girls belonging to scheduled castes at the following Centres.
 - (a) Government Girls Polytechnic, 50 Seats Ahmedabad.
 - (b) K. D. Polytechnic, Patan 50 Seats

7.2,7. TRIBAL SUB-PLAN

- 7.2.7.1. It is proposed to increase the existing seats of diploma courses from 120 to 180 at Government Polytechnic, Dohad.
- 7.2.7.2. It is proposed to Establish vocational centres and to introduce 52 seats at the Certificate, Trade Courses at Vyara and Chhota-Udepur.
- 7.2.7.3. It is proposed to start I.T.I. Trade courses at the Technical High Schools in the tribal area.
- 7.2.7.4. It is proposed to construct additional floo on the hostel block at Weir Industrial Institute, Dharampur.
- 7.2.7.5. It is proposed to construct one hoste building at Government Technical High School Dohad.

STATEMENT

Technical Education

List of Schemes included in the Sixth Five Year Plan, 1980-85

(Rs. in lakha)

| Sr. No. | | | No. and name of the Scheme | Out | Proposed lays 1980-85 |
|------------|-----|--------------|---|--------|--------------------------|
| | | | | Total | Capital |
| 1 | | | 2 | 3 | 4 |
| ı. | Dir | ection and | Administration | | |
| | 1. | TED—1 | Strengthening of Administrative set up of Technical Education Depart ment and Technical Examination Board | 10.00 | |
| п. | Tec | hnical Scho | pols | | |
| | 2. | TED—2 | Technical High Schools Vocationalisation | 130.00 | 40.00 |
| III. | Pol | ytechnics | | | |
| | 3. | TED—3 | Development of Government Polytechnics and Girls Polytechnics including quality improvement programme Industrial Training for students diversified and sandwich course at Diploma level | 185.00 | 60.00 |
| | 4. | TED-4 | Grant-in-aid private Polytechnics | 10.00 | •• |
| | | | $\mathbf{Total}\mathbf{III}$ | 195.00 | 60.00 |
| īv. | Eng | gineering C | olleges and Institutions | | |
| | 5. | TE D5 | Development of Government Engineering Colleges including quality improvement programme and development of other special training programme for specific requirement in Gujarat. | 140.00 | 50.00 |
| | 6. | TED-6 | Grant-in-aid to private Engineering Colleges including S. V. Regional College of Engineering, Surat | 20.00 | |
| | | | Total—IV | 160.00 | 50.00 |
| v . | Sch | nolarships | | | |
| | 7. | TED-7 | Increase in number of scholarships in Engineering Colleges, Institutes | 0.50 | |
| VI. | Tra | ining and | Research | | |
| | 8. | TED-8 | Training of Teachers and Instructors of Technical Institutions | 10.00 | |
| VII. | Otl | ner Expendi | iture | | |
| | 9. | TED-9 | Provision for student's amenities in Technical Institutions | 16.00 | 10.00 |
| | 10. | TED-10 | Revision of staff Structure | 3.00 | |
| | 11. | TED-11 | Continuing Education Programme | 5.50 | |
| | 12. | TED-12 | Construction of staff quarter for staff of Engineering Colleges and Polytechnics | 30.00 | 30.00 |
| | 13. | TED-13 | Construction of hostel for Students of Technical Institutions | 40.00 | 40.00 |
| | | | Total—VII | 94.50 | 80.00 |
| | | | Grand Total | | 230.00 |

7.3. MEDICAL AND PUBLIC HEALTH

7.3.1 Health is a state of complete physical, mental and social well being and not merely absence of disease or infirmity. Providing basic health and well being to every man, woman and child in the State is, therefore, the ultimate objective of health services. Efforts have been made continuously to place the medical and health services as close to the people as possible. Considerable expansion of the health and medical services has taken place over a period of planned development. However, the gap between the scale of services required and that actually provided still persists. The gap between the scale of services provided in the rural and urban areas also persists.

7.3.1.1 The programme under this sub-sector of development covers, different fields such as Direction and Administration, Medical Relief, Medical Education and Research and Training (M&H), Public Health, Indiganous systems of medicines Ayurved and Homeopathy, Employees' State Insurance and Drugs Control Administration.

7.3.2 Review of Progress

7.3.2.1 57 Civil and other hospitals with 9086 beds and 15 cottage hospitals with 328 beds normally provide essential medical services. There are 4 mental hospitals and 16 referral hospitals with 601 and 755 beds respectively. All the District Head quarters in the State have been provided with one bed per 1000 population with the joint efforts of Government, local bodies and charitable institutions, 251 Primary Health Centres with 2500 sub-centres under different programmes like Health Programme, Family Welfare Programme, Minimum Needs Programme and Multipurpose workers schemes are functioning in the State. In order to provide better and efficient medical services in rural areas 11 Primary Health Centres have been upgraded into 25/30 beded Primary Health Centres. 41 Sub-Centres have been upgraded into rural health dispensary centres. To take effective control measures and provide environmental sanitation and laboratory services in rural areas, epidemic cells have been established in 35 Primary Health Centres. There is a full producing fledged Vaccine Institute at Vadodara antirabic vaccine.

7.3.2.2 19 National Malaria Eradication Programme units and 11 National Filaria Control Programme units are functioning in the State. Small pox has been eradicated in the State since May, 1975 and a certificate to that effect has been issued by the International Commission appointed for the purpose. A survey carried out through out the State during 1958-59, revealed high incidence of Trachoma in Saurashtra North Gujarat and Kachchh areas. The Trachoma Control Programme is being implemented through the Primary

Health Centres. National Leprosy Programme has also been implemented in hypoendemic areas of Gujarat State. There are 8 Control Units and 370 S.E.T. Centres in the State. The high incident districts are Valsad, Surat, Dangs, Vadodara, Panchmahal, Junagadh and certain parts of Jamnagar, Rajkot and Sabarkantha District. There are 19 district T.B. Centres with about 3551 beds. Besides, there is one T. B. Demonstration Training and Research Centre at Ahmedabad.

7.3.2.3 Under the multi-purpose workers scheme aiming at delivering of package of health services in an integrated manner in the rural areas, about 7254 multi-purpose workers are in a position in the State. The Scheme for community Health Workers is implemented in the entire State. 19048 Community Health Volunteers have been trained and are working in rural aras.

7.3.2.4 29 Hospitals with 1,366 beds are providing medical services under the ESI Scheme. Besides, 83 dispensaries and 21 Diagnostic Centres are functinoing under the scheme.

7.3.2.5 There are two full fiedged Public Health Laboratories one each at Vadodara and Bhuj run by the State Government. One Public Health Laboratory at Palanpur has also started functioning on a small scale. The Municipal Corporations of Ahmedabad. Vadodara and Surat have their own fully equipped Public Health Laboratories with local jurisdiction.

7.3.2.6 There are four Government medical colleges and one medical College of Municipal Corporation, Ahmedabad, one Dental College and Hospital, one Nursing College and four nursing schools attached to the teaching medical colleges. The total number of seats in Government Medical colleges is 575. There are nine general nursing schools and 22 A.N.M. training schools attached to various district Hospitals. The capacity of the general nursing schools is 615 and the capacity of A.N.M. training schools is 419. There is one school for training of Physiotherapist at S. S. G. Hospital, Vadodara with intake capacity of 12.

7.3.2.7 There are 26 Ayurvedic Hospitals including 5 attached with Ayurvedic colleges and 381 dispensaries out of which 107 are run by Government and the rest are aided. In addition, 32 private hospital and dispensaries are also aided by the Government An Ayurvedic university functions in the State which controls Ayurvedic education in the State. The University runs a college for the study of Ayurved In addition, there are 5 Government and 9 privation colleges. The total number of seats in these college is 814 and the total bed strength is 1385.

7.3.3. Approach

7.3.3.1 A wide gap exists even today between urban and rural areas. Moreover, approach to the State Plan has to be conditioned by the dernographic profile of the State, geographical and climatic conditions and existing level of Medical and Health facilities in the State. The rate of growth of population in the State (2.9 percent), was higher than the National average (2.5 percent). The mortality pattern in the age below 5 also shows significantly higher death rate in rural areas. The major thrust during the period 1980-85 will therefore be on the expansion and improvement of medical and health facilities specifically in the rural and tribal areas. The whole health structure will be geared up towards achieving this objective.

7.3.3.2 In fact greater emphasis would be placed on reducing infant and materual mortality by providing nutritious food to the school going children and also comprehensive health services to the rural population. It is proposed to improve management information system for recording the births and deaths and there by to ensure the concectrated efforts being launched against the control of communicable diseases.

7.3.3.3 The need for integration of the Health Programme with the Family Welfare Programme and the great significance of the provision of acceptable and reliable medical facilities in rural areas the Family Welfare Programme has also been kept in view in planning for the Health Programmes.

7.3.3.4 The Revised Minimum Needs Programme in the plan is given due priority. The existing medical institutions in the developed areas are proposed to be adequately equipped and deficiancies in staff, equipments etc. are proposed to be made good so as to bring up the standard and quality of their services. To provide medical facilities to the rural population, referral structure linking the Primary Health Centres, the district hospital in each district is also risualised.

1.3.4 Programme 1980-85

7.3.41 An outlay of Rs. 7000.00 lakhs is provided in the Plan 1980-85. A broad programmewise break-up of the outlay is given in the following table:—

| • | Es. | (Rs. | in | lakhs) |
|-------|---------------------------------------|-------|----|--------------|
| Sr. N | Vo. Programme | : | | tlay)_85 |
| · 1 | 2 | | | 3 |
| I. | Direction and Administrat | tion. | | 15.00 |
| II. | Medical Relief (Medical ar Health) | nd | 4 | 23.00 |
| 268 | 361 | | | |

| 1 | 2 | 3 |
|-----|---|---------|
| | | |
| III | Training (Medical and Health) | 25.00 |
| IV | Medical Education & Research | 660.00 |
| v | Indigenous, system of Medicines Ayurved and Homeopathy | 120.00 |
| VI | Employees' State Insurance Scheme (State Plan) | 15.00 |
| VII | Minimum Needs Programme including Community Health Volunteers and Multipurpose Health Workers. | 2009.00 |
| IX | Drugs Control Administration. | 142.00 |
| X | Other Programme | |
| | Health Education, Health Statistics, Sera & Vaccine etc | 6.00 |
| XI | Health Services to school children State scheme for payment of additional incentive—under the | 40.00 |
| | Family Welfare Programme | 285.00 |
| VII | Control of Communicable Diseases | 3260.00 |
| | Grand Total | 7000.00 |

7.3.5 Medical Relief.

7.3.5.1 The norms for the provision of medical services have been laid down by the Mudaliar Committee. Thereafter various Committees have examined the feasibility of adopting these norms. In Gujarat, the Chaterjee Committee on Health Administration has also suggested cretain norms. The structure of Medical services in the State is broad and intensive at the level of medical colleges and district hospitals, and then temparing below the taluka hospitals, dispensaries etc. At the lower levels the structure becomes thinner and merges into rural health structure. This position is sought to be corrected by providing specialist medical services not only at the district hospitals but by making available specialists services at taluka hospitals, primary health centres and referral and cottage hospitals etc.

7.3.5.2 The Municipal Corporation, Municipalities and the District Panchayats also provide medical and health facilities in the State. A number of charitable public institutions and institutions receiving grant-inaid from Government provide medical facilities. These facilities have also to be taken into account while planning further development of medical facilities in the State. A conscious policy towards acceeptance of donations is proposed to be evolved so that such efforts are channalised in areas where medical facilities are needed most. The duplication between efforts of the Government and local bodies between allopathic and Avurvedic system are also proposed to be avoided so that larger resources can be diverted to the problem areas. Suitable provision is proposed to be made for grant-in-aid to charitable institutions. The conditions for eligibility of grant-in--aid are also proposed to be revised so that medical services become available to the rural public. Keeping the above approach in view, it is proposed to implement three major scheme under this sub-head viz (1) to provide one bed per 1000 population with advance medical facilities at all district head quarters hospitals (2) to link up the hospitals below the district level consisting of civil hospitals, referral hospitals, cottage hospitals, and upgraded P.H.Cs. so as to form referral link in the district and (3) arrange all the remaining hospitals, dispensaries, P.H.Cs. and sub-centres to form a uniform pattern of P.H.Cs. Sub-Gentres to be covered under the Revised Minimum Needs Progarmme.

7.3.5.3 The district headquarter town develop into a fulcrum of infrastructural development towards which the pertpheral population naturally gravities. Keeping this in view, it is proposed to develop medical facilities at the district town through the efforts of the local bodies. All district hospitals are proposed to be developed as the main centre of specialised therapeutic services within the district. It is also proposed to cover such services by opthalomology, skin and veneral diseases. A dental wing adequately supported by the staff team and equipments has also been proposed so as to fill in the gaps and extend these services to all district head quarters hospitals.

7.3.5.4 A referral structure in each district comprising of various types of hospitals below the district level consisting of Civil Hospitals, upgraded primary health centres, cottage and referral hospitals has been envisaged. For this purpose, it is proposed to redesignate uniformally all such institutions below the district level and various amenities available at such institutions are proposed to be rationalised to conform to a uniform pattern so that this structure can provide minimum essential requirements on the uniform basis.

7.3.5.5. At present, there are 16 referral hospitals and one cottage hospital under Public Health Sub-Sector while there are 15 cottage hospitals with Medical Sub-Sector. On an average, there is one referral hospital in each district but 4 districts are without referral hospitals. In order to link up the P. H. Cs. with District Hospitals through Referral Services it is necessary to establih one Referral Hospital in each Taluka with 50 beds according to the pattern of Referral Hospital. It is proposed to strengthen the existing Referral Services by the short fall of beds, equipments and staff.

7.3.5.6 The establishment of separate Taluka hospitals and strengthening of existing Referral Hospitals is proposed for taking over the referral cases from surrounding Primary Health Centres. This will not only provide referral services which is the basic philosophy behind upgradation of primary Health centre but will also allow P.H.C. to maintain its identity as preventive and promotive centre. Expansion of existing referral services between P.H.Cs. and District has been envisaged. Priority will be accorded to remove the gap of the 50 beds pattern and equipment etc. in the existing referral hospitals.

7.3.5.7 It is proposed to provide X-Ray machines as well as mobile X-Rays Services in 10 hospitals in phased manner during the plan period 1980-85. It is proposed to provide Ambulance Services also. proposed to construct 6 Ambulance Guarages with Driver's Quarters. It is also proposed to increase 245 beds, at, 6 district headquarters and hospitals in phased manner and 112 beds to be increased in 7 Taluka hospitals. At present there are 864 staff quarters in District and taluka Hospitals. It is proposed to construct 131 quarters in District Headquarter Hospitals and 49 quarters in taluka hospitals. It is proposed to create in all 50 posts of Medical Officers in hospitals. It is also proposed to have one each casualty section in two hospitals at Rajkot and Bhavnagar. It is proposed to establish one Paediatric Unit. 2 Orthopadic units, 1 Ophalmic unit, 3 blood transfusic service centres, 1 mobile surgical unit, 5 mental health care clinics. 1 Re-habilitation unit and dental clinics. An outlay of Rs. 423.00 lakhs has been provided during the Sixth Five Year Plan 1980-85 for undertakings all such activities under "Medical Relief".

7.3.6. Training

7.3.6.1 There is acute snortage of Anasthetist and Radiologist etc. at Government Medical Institutions. Medical Science is far advancing and surgeons are being appointed in almost all District Headquarters

and Taluka hospitals. It is necessary to train present Medical Officer in aneschestic and radiology so as to help the surgeons in their work. Pending availability of such specialists, it is proposed to train present medical officers in this speciality for about there months for utilising their services in bigger hospitals. It is proposed to train 100 such doctors during the plan period. It is also proposed to strengthen the staff at two General Nursing School at Bhavnagar and months for utilising their services in bigger hospitals. It is also proposed to expand the existing hospitals at Rajkot and Bhavnagar.

7.3.6.2 At present there is shortage of multipurpose health male workers in the State on the basis of 1 per 8000 population. It is proposed to organise training programme for the Multipurpose Health male workers for the period of 18 months. It is also proposed to establish a public Health Institute at Vadodara which would cater to all training programme for the personnel working under the Health Directorate. An outlay of Rs. 25.00 lakhs has been provided for the period 1980-85 for such Γraining Programmes.

7.3.7. Medical Education and Research.

- 7.3.7.1 The approach towards Medical Education enuniciated by the Government of India is to restrict the out turn of doctors. Emphasis is therefore placed on qualitative improvements in Medical Education. The rationalised pattern of post graduate education is to be envolved in the field of medical research. Emphasis is also proposed to be placed on (1) major comrunicable diseases (2) fertility control research (3) research on nutrition and (4) research on delivery of health services and carrier structure for all paramedical personnel is also proposed to be built up. Health information system based on E.D.P. data and the planning machinery will also be strengthened.
- 7.3.7.2 Keeping in view these national objectives the approach to the plan for the medical education sub-sector has been to maintain the existing admission capacity in the medical colleges of the State. The deficiency in the requirements as per the Medical Council of India, the Dental Council of India and the Nursing Council of India are also proposed to be made good pogressively. It is proposed to strengthen the existing medical teaching institutions towards meeting the requirements of the Medical Council of India. The reduction in the seats at Jamnagar College is proposed to be restored. Provisions for additional 586 beds has been made to maintain the 7:1 ratio of beds to students prescribed by the Medical Council The requirements of the Nursing Council pertaining

to teaching hospitals and teaching colleges are also proposed to be given priority. As against the additional requirements of 586 beds in three teaching hospitals, 111 beds have already been increased and efforts will be continued to increase at least 200 more beds according to the need and demand of the institutions.

- 7.3.7.3 It is envisaged to introduce three years' certificate course of Community Health Volunteers at two places namely (1) Navsari and (2) Rajkot in order to cover up a shortage of manpower who will assist the doctors in rural areas. At present doctors who come out from the medical colleges have tendency of settling down in urban areas only because of modern amenities available in cities. This results into unequal balance of technical manpower in rural and urban areas.
- 7.3.7.4 A programme for training of teachers for medical faculty is envisaged. The programme will offer them an opportunity to learn the basic concept of community need based curriculm development, instructional technology, use of audiovisual aids and continuing medical education for general practitioners of medicines.
- 7.3.7.5 In order to provide proper training to the under graduate students, internees *i.e.* resident doctors and junior staff members about the specific problems and challenges being faced in the rural areas, the pattern of adoption of a Primary Health Centre by each medical college is proposed. The entire faculty of that particular medical college will participate in understanding the problems in these selected primary health centres.
- 7.3.7.6 It is envisaged to provide essential services in all teaching hospitals such as laundry plant, generator set, intensive care unit, incinerator and cardiacathator laboratory in Civil Hospital, Ahmedabad.
- 7.3.7.7 There are certain problems facing Gujarat State which are not common to other States, and so research work on the following problems needs to be taken up:—
 - (1) Prevention of goitre in certain endemic areas like Rajpipla and Bhavnagar.
 - (2) Incidence, etilog and prevention of stones in urinary treatment in certain districts in Gujarat like Mehsana and Jamnagar.
 - (3) Certain occupational diseases reflect in the workers engaged in the salt industries, textile mills, cement factories and diamond cutting profession.

(4) Prevention of blindness, due to deficiency of Vitamin "A" in Sabarkantha, Banaskantha, Dangs and Kachchh, An outlay of Rs. 660.00 lakhs is provided in the Sixth Five Year Plan, 1980-85 for undertaking all such activities under "Medical Education and Research".

7.3.8 Indigenous system of Medicine:

7.3.8.1 Ayurved forms a vital part of the indigenous system of medicines and it has stood the test of time. It is proposed to strengthen Government hospitals in the districts head quarters by providing ayurvedic O.P.D. This will include Yoga Therapy as well. It is also envisaged to start Panchkarma Sections in the existing ayurvedic hospitals. 250 Ayurvedic doctors in Public Health Centres have already been appointed. It is also proposed to start 10 new ayurvedic dispensaries in the rural and non-tribal areas and 15 in the tribal areas. It is also proposed to strengthen the Ayurvedic Pharmacies in the State to accelerate the production and uniterrupted flow of reliable. ayurvedic drugs required for the State dispensaries. As the Centrally Sponsored Scheme of Community Health Workers is likely to be extended throughout the State, it is necessary to provide necessary guidance, etc., to the doctors from the Ayurvedic system. One botanical garden at Kachchh district and three in tribal areas have been started. Three herbs collection centre have been started. It is proposed to strengthen these activities. An outlay of Rs. 120.00 lakhs has been proposed for the period of Sixth Five Year Plan, 1980-85 for "Indigenous system at Medicine".

7.3.9 Employees' State Insurance Scheme:

7.3.9.1 The Employees State Insurance Scheme mainly covers industrial workers and provides for medical sickness, maternity, disablement, dependents, benefit etc. The scheme at present is under implementation at 17 centres and provides medical care to 5,99,400 Family Units. It is proposed to establish hospitals at Vadodara, Surat, Kalol, Rajkot, Jamnagar, Bhavnagar, Nadiad and Porbandar and cover the facilities of expanded medical care at these hospitals into full medical care. An outlay of Rs. 15.00 lakhs is proposed for the period of 1980-85 for the purpose.

Public Health:--

7.3.10 Minimum Needs Programme:

7.3.10.1 The Primary Health Centre has been the focal point for rediating Health Services in rural

areas. Increase in the number of P.H. Cs. and their expansion is considered necessary so as to bridge the wide gap between availability of fecilities in rural and urban areas. The Government of India has therefore set up the norms of the Minimum Needs Programme with the intention of providing essential health and Medical care to the vulnerable sections of the rural areas. During the Fifth Plan, it was intended to establish one P.H.C. per each community Development Block and one sub-centre for every 10,000 population. Provision of drugs of Rs. 12,000 per annum for each P.H.C. and Rs. 2000 per annum for each sub-centre was also envisaged under the Minimum Needs Programme. These norms have been fully achieved in the State.

7.3.10.2 The Minimum Needs Programme in the Sixth Plan in general envisages to establish one P.H.C. for every 30,000 population in plains and 20,000 in tribal and hilly areas and one sub-centre for every 5,000 population plains and 3000 in tribal and hilly areas by 2000 A.D. In addition it is also envisaged to have one Community Health Volunteer for a population of 1000 or a village by 1990 and establishment of one Community Health Centre for a population of one lakh or one C.D. Block by 2000 A.D.

7.3.10.3 There are 251 Primary Health Centres and as a result of the various Programmes under the Health, Family Welfare, Minimum Needs Programme and the Multi-purpose Workers Scheme, in all 2500 Sub-Centres are functioning in the State at the end of 1979-80,

7.3.10.4 During the period of the Sixth Five Year Plan, it is proposed to establish 25 additional P.H.Cs. raising the total number of P.H.Cs. to 276. It is also proposed to establish 900 sub-centres during the plan period 1980-85 raising the total number of sub-centres at the end of the plan to 3400.

7.3.10.5 It is also envisaged to upgrade one Primary Health Centre for every four Primary Health Centres. The State has already upgraded 11 Primary Health Centres of the existing 251 Primary Health Centres in the State. During the plan period 1980-85, it is envisaged to upgrade additional 5 Primary Health Centres into 30 beded hospitals. More centres will be upgraded during the subsequent plan period so as to fulfil the set norms.

Backlog of construction :---

7.3.10.6 It is one of the primary requirements to institutions buildings and staff quarters to generate official health services. 9 mobile dispensaties have been

health services. 9 mobile dispensaries have been established in tribal area with a view to render Health Services at the door step of tribals. At present most of the P.H.Cs. have Government buildings. There is a total backlog of construction of 2824 staff quarters of P.H.Cs. and sub-centres. It is proposed to construct 222 sub-centres buildings and 176 staff quarters of P:H.Cs.

Provision of drugs of P.H.Cs.

7.3.10.7 The rate of provision of drugs at Rs. 12,000 per annum for each P.H.C. and Rs. 2000 per annum for each sub-centre has been fully achieved in the State.

Multipurpose Workers Scheme.

7.3.10.8 The multipurpose workers scheme is being implemented in all the districts of the State. The scheme aims at delivering of package of health services in an integrated manner in rural areas. About 7254 Multipurpose Workers are in a position in the State. During the period of Sixth Five Year Plan, it is proposed to expand and strengthen the activities under this Centrally Sponsored Scheme and therefore an outlay of Rs. 151.25 lakhs has been proposed for the period 1980-85 as State's share. It is proposed to create 2211 posts of Male and 1768 posts of Female Multipurpose Workers during Sixth Plan.

Community Health Volunteers.

7.3.10.9 The Scheme of Community Health Volunteers is also being implemented in the entire State. About 19048 Community Health Volunteers have been trained and are working in rural areas. The scheme provides honorarium of Rs. 50 per month to each Community Health Workers and provision of medicines worth Rs. 50. During the period of Sixth Five Year Plan, it is proposed to expand and strengthen the activities under this Centrally Sponsored Scheme and therefore an outlay of Rs. 750.00 lakhs has been proposed Both share. 1980-85 as State's for the period Multipurpose Workerers and Community Volunteers Scheme now come within the purview of Minimum Needs Programme under the Health Sector.

17.3.11 Drugs Control.

7.3.11.1 The provision of safe and effective drugs is an important component of the Health care programme. As per the recent amendment in the Education Regulation under Pharmacy Act, out of 5000 unregistered pharmacists, it is proposed to train 2100 untrained pharmacists before September 1984. It is proposed to start 3 centres for Diploma course in pharmacy with

an intake capacity of 30 students each. It is proposed to strengthen the administrative machinery for the enforcement of the preventation of Food Adulteration Act, 1954. It is proposed to expand Drugs laboratory at Vadodara and Bhuj. It is also proposed to start an additional regional laboratory at Rajkot. An outlay of Rs. 142.00 lakhs is proposed for the Food and Drugs Control Administration for the plan period 1980-85.

7.3.12 Other Programmes

(i) Health Education Seera and vaccine.

7.3.12.1 The Vaccine Institute of Vadodara is the only institute manufacturing Seras and Vaccine in the State. It is proposed to take up the programme for the production of Diptheria, Tetanus and Toxide. It is also proposed to provide a moderately sized workshop and augment the supply of laboratory equipments.

7.3.12.2 Under the Health Education Programme, it is also proposed to provide one regional health education unit in the Directorate of Health Services which is expected to cater to the needs of Health Education in the State.

7.3.12.3 It is also proposed to strengthen the staff entrusted with the work pertaining to vital statistics at the Head quarter and the district level. An outlay of Rs. 6.00 lakhs is proposed for 1980-85 for undertaking these activities.

Schools Health Services

7.3.12.4 According to estimates, around 50 lakhschildren are in the age group of 6-14 years, who are required to be given medical check-up. Schools are within the jurisdiction of P.H.C. and therefore the P.H.C. it taken as 'unit' for peripheral target. There are 53 Urban Centres under the jurisdiction of Municipal Corporations and local bodies which take care of Health Services. The Corporations have opened despensaries and hospitals in corporation areas. In a long range programme, one school Health Unit per Urban Area will be required. It is proposed to cover up all children during the period of the Sixth Plan. An outlay of Rs. 40.00 lakhs is proposed for 1980-85 for providing school Health Services.

7.3.13 Family Welfare Programme.

7.3.13.1 The Family Welfare Programme will to continued as fully centrally sponsored scheme. However, provision of Rs. 285.00 lakes is provided for payment of additional incentives from the State to the beneficiaries under the Family Welfare Programme during the period of Sixth Five Year Plan 1980-85.

7.3.14. Centrally Sponsored Scheme on Sharing basis. National Fileria Control Programme.

7.3.14.1 In Gujarat State, it has been estimated that 10 million population is at risk of the disease. The disease is mainly prevalent in coastal areas of southern districts and Saurashtra region extending to thinterland and has also affected urban areas. During the Sixth Plan, the emphasis will be on reduction interruption of transmission by anti larval measures and to reduce reservoir on infection, clinical manifestations by anti-parasitic measures and to delimit problem of filarisis in the State. An outlay of Rs. 18.00 lakhs has been proposed as State's share during the period of Sixth Five Year Plan 1980-85 for this programme.

National Laprosy Control Programme.

7.3.14.2 The objective of the programme is to control the disease through mass domiciliary treatment alongwith early care detection and health education by establishment of Leprosy Control units, S.E.T. Centres and Training centres etc. In Gujarat, the overall prevalence of the disease is estimated to be about 2 per 1000 population. But the disease is mainly prevalent in southern districts of Gujarat viz. Dang, Valsad, Bharuch, Surat, Vadodara and Panchmahal, where the prevalence of the disease varies from 5 to 12 per 1000. With the establishment of more SET centres in low endemic, it has been found that the incidence of the disease in some pockets is fairly thigh. It has also been found that the disease has -shown a downward trend in areas where leprosy control units have done good work. Under the Fifth Plan, some additional components such as temporary hospitalisation beds, leprosy training centres, district Heprosy supervisory offices and reconstructive surgery units were added so that complete treatment needs of the patients and other requirements of the programme are met with. In Gujarat,, by the end of Fifth Plan, 8 Leprosy control units, 370 SET centres, 20 urban deprosy centres, 2 Reconstructive surgery units, one leprosy Training centre, 6 temporary hospitalisation wards and 4 District Zonal Leprosy Offices were established. During Fifth Plan 100% Central assistance was given by the Government of India for this programme. The units/centres established during Fourth Plan period however, remained under the State sector and are being financed by the State Government. It is envisaged that all the low-endemic and hyper-endemic areas in the State will be adequately covered and the leprosy patients detected through survey etc. will get the required facilities for treatment, hospitalisation and reconstructive surgery.

7.3.14.3 During the Sixth Plan, it is proposed to establish 4 additional leprosy control units, 40 urban leprosy centres and 2 additional reconstructive

surgery units. It is also proposed to establish one more leprosy training centre in the State to meet with the requirment of training. Besides, it is proposed to establish 12 more hospitalisation wards and the District/Zonal Leprosy units in such areas. The total expenditure as proposed under the plan is to be met from the central allocations as per the pattern of assistance for National Control Programme. An outlay of Rs. 40.00 lakhs has been proposed as State's share during the period of Sixth Five Year Plan 1980-85.

National T. B. Control Programme.

7.3.14.4 Since the fifth plan, the schemes, namely (1) supply of Anti-T.B. drugs to State T.B. Clincs, (2) supply of Anti T. B. drugs to T. B. Clinics run by voluntary organisations and supply of BCG vaccine to the State have been continued. The scheme in respect of establishment of "District T.B. centres and establishment of Isolation beds" have been included in the plan and 50 percent central assistance is available for TB programme. An outlay of Rs. 35.00 lakhs has been proposed as State's share during the period of Sixth Five Year Plan 1980-85.

Prevention of Visual Impairment and Control of Blindless

7.3.14.5 National programme of prevention of visual impairment and control of blindness, has been started from the year 1978-79 in Gujarat. The programme envisages the opthalmic services in rural areas by establishing opthalmic services in district hospitals and in Primary Health centres by providing trained opthalmic assistancts. Supply of medicines and equipments is being made by Government of India. 5 Hospitals and 70 PHCs have been covered under this scheme till 1979-80. An outlay of Rs. 52.00 lakhs has been proposed as State's share during the period of Sixth Five Year plan 1980-85.

7.3.14.6 Under National Programme for prevention and control of Visual impairment and blindness, District Headquarters Hospitals are required to be upgraded for providing Opthalmic care. Till 1979-80, in all 9 hospitals have been upgraded. It is proposed to upgrade a few more hospitals during the period of Sixth Five Year Plan. An outlay of Rs. 23.00 lakus has been proposed as State's share for the period 1980-85. Besides the upgradation of hospitals etc; with a view that eye treatment relief can be given to the community in the shortest possible time, a 20 year National Programme for prevention of Visual impairment and control of blindness is evolved Central assistance in the form of equipments will the

available from the Government of India. Following items are proposed under this programme:

- (1) To raise the bed strength of M & J Institution of Opthalmology to 280 beds to make it the regional institute by providing highly sophisticated services.
 - (2) School of Opthalmic technology.
 - (3) Mobile Opthalmic Unit.
- (4) Morging of mobile opthalmic units of tribal areas into national programme for prevention of visual impairment and control of blindness.
- (5) To upgrade the opthalmic department of medical colleges at Surat and Jamnagar.

An outlay of Rs. 30.00 lakhs has been proposed as State's share during the period of Sixth Five Year Plan 1980-85 for undertaking these activities.

Re-orientation of Medical Education.

7.3.14.7 Under this scheme, each of the Medical College is expected to adopt 3 P.H.Cs. for the purpose of teaching and training the under graduates and internees and to provide comprehensive Health care to the rural population. An outlay of Rs. 30.00 lakhs has been proposed as State's share during the period of Sixth Five Year Plan 1980-85.

National Malaria Eradication Programme.

7.3.14.8 The objectives of Modified Plan of Operations of Malaria Programme implemented from 1st April, 1977 are as under:—

- (1) To prevent deaths due to malaria.
- (2) To keep the malaria morbidity under check.
- (3) To prevent adverse effects of malaria on agriculture and industry.
 - (4) To consolidate the gains achieved so far.

These objectives are to be achieved through (i) Government efforts (ii) People's participation (iii) by reach and (iv) training.

(i) Government efforts:—

- (a) Reorganisation of Malaria Units to conform to geographical boundaries of the District for better supervision by the District Health Officer, who is entrusted with the responsibility to implement the programme.
- (b) Carrying out the effective insecticidal spray in areas with an API 2 and above (Annual Parasite in-

cidence = number of malaria cases per thousand population per year).

- (c) Fortnightly surveillance of fever cases by Multi purpose Health Workers in rural areas and party in urban areas. Augmentation of the field staff has been made by increasing Multipurpose workers and supervisors.
- (d) Five posts of Zonal Officer (Malaria) and 5 posts of Assistant Entomologists are created for better technical supervision and detailed entomological investigations.
- (e) Priority is being accorded to areas which are predominant to P. falciparam infection.
- (f) In order to minimise morbidity period due to malaria, Drug Distribution Centres (DDCs) and Fever Treatment Depots (FIDs) have been started with the help of village Panchayats, Voluntarery organisations, school teachers, and Community Health workers.
- (g) With a view to providing immediate diagnosis and treatment to malaria cases, malaria chinies have been started in Government Hospitals, Dispensaries and Primary Health Centres where facility of Laboratory Services is available.
- (h) To reduce the timelag between the blood smear collection and examination and to reduce the time in giving the Radical Treatment to malaria cases laboratory services have been decentralised at the level of Primary Health Centres under the supervision and guidance of Medical officers and Primary Health centres.
- (I) Urban Malaria Centres will be started in urban areas having a population more than 40,000 in pased manner.

(ii) People's participation:-

No health programe can succeed unless people concerned are actively involved. Village Panchayats, Yuvak Mandals & Mahila Mandals, School teachers, social workers etc. are actively involved in malaria programme by organising orientation trainings, shibirs for them. Better coverage in insecticidal spray and better performance in survellance workers and better acceptance in Radical Treatment are achieved by imparting health education to health staff and by organising mass media publicity.

(iii) Research Activities:-

Three Research Projects are functioning since 1978-79 in the state under the auspices of Indian Council of medical research for finding out alternative control measures in malaria.

(iv) Training:-

Zonal Officers, Entomologists, District Malaria tions as and when necessary. An officers are being trained in malariology, Malaria ento- lakhs has been proposed as State mology etc at National Institute of Communicable Five Year Plan period 1980-85.

Diseases at Delhi. District Health Officers have been imparted orientation training in Malaria at Regional level at Vadodara. Medical Officers of Primary Health centres have been given training regarding their role in control of malaria under the new strategy at Zonal and District level.

7.3.14.9. All the above activities are proposed to be continued during the Sixth Plan with suitable modifications as and when necessary. An outlay of Rs. 3115.00 lakhs has been proposed as State's shares for the Sixth Five Year Plan period 1980-85.

STATEMENT

Medical and Public Health.

List of Scheme included in the Sixth Five Year Plan, 1980-85

H-2683-63

(Rs. in lakhs) Sixth Five Year Plan. Şr. No. No. and Name of the Scheme 1980-85 outlays Total Capital 2 1 3 4 Direction and Administration I. Direction and Administration (Medical) HLT-1 4.69 Strengthening of Health Directorate (Health) 2. Hai 2 5.36Strengthening of District Health Organisation (Health) HLT—3 4.95 Sub-Total-I 15.00 II. Medical Relief HLT-4 X-Ray Services to Hospitals. 5.00 HLT-5 Ambulance Services. 3.00 HLT-6 Ambulance Guarage Drivers' quarters. 3.00 3.00 Increase of beds in District Head-quarters Hospitals. HLT-7 110.00 40.00 Increase of beds in Taluka Hospital HLT-845.00 20.00 Staff quarters in District Headquarters Hospitals. HLT-9 9. 32.00 32.00 Staff quarters in Taluka Hospitals. 10. HLT-10 30.27 30.27 Padiatric Services. 11. HLT-11 13.00 ٠. HLT-12 Orthoepaedic Unit. 12. 5.00 2.00 HLT-13Opthalmic Units and Eye Camp. 13. 5.00 Blood Transfusion services centros. 14. HLT-14 4.00 Emergency Medical Aid (Casulty Department). 15. HLT-15 3.00 HLT-16 Mobile Surgical Units at District Hospitals. 16. 2.00 17. HLT-17 Mental Health at District Hospital. 8.00 Expansion of Mental Hospital at Jamnagar. 18. HLT-18 15.00 15.00 HLT-19 G. I. A. to Cancer Hospital. 19. 2.00 20. **HLT-20** Interness quarters. 6.00 6.00

| | 1 | | 2 | 3 | 4 |
|--------|-------------|-------------|--|--------|---------|
| | 21. | HLT-21 | Rehabilitation Unit (Physiotherapy and occupation thereapy) | 4.00 | 1,00 |
| 5. | 22. | HLT-22 | Air Conditioner Unit of Operation Theatre | 5.00 | 1.00 |
| | 23. | HLT-23 | Provision of Medical Officers in Hospitals. | 5.00 | |
| 5 5000 | 24. | HLT-24 | Improvement of nursing Care in Hospitals. | 25.00 | • • |
| è | 25. | HLT-25 | Additional Staff Classes-III, IV and Technical. | 30.00 | •• |
| | 26. | HLT-26 | Specialists Services at all Taluka Hospitals Anciliary/requirement | 4.00 | |
| , | 27. | HLT-27 | Dental Clinics. | 4.00 | •• |
| 3.6 | 28. | HLT-28 | Prevention of visual impariment and control of blindness | 23.00 | •• |
| II. | He | alth | | | |
| 14 | 29. | HLT-29 | Strengthening of existing referral Hospitals. | 25,16 | 11.95 |
| | 30. | HLT-30 | Conversion of Cottage Hospital into referral Hospital. | 6.57 | 4.10 |
| | | | Sub-Total (II) | 423.00 | 166.32 |
| | Me | aining. | | 0.00 | |
| | 31. | HLT31 | Training to Medical Officers in Paediatric etc. | 0.80 | •• |
| | 32. | HLT-32 | Construction of Hospital for nurses. | 2.00 | 2.00 |
| | 33. | HLT-33 | Expansion of A. N. M. and Central Nursing School. | 20.95 | •• |
| | He | ealth. | | | A + () |
| | 34. | HLT-34 | Certificate course in H. V. School. | 1.25 | |
| | | | Sub-Total (III) | 25.00 | 2.00 |
| IV. | M | edical Educ | ation and Research. | | |
| | 35. | HLT-35 | Expansion of Medical College and Hospital at Ahmedabad. | 111.98 | 27.50 |
| | 36. | HLT-36 | Expansion of Medical College and Hospital at Vadodara. | 114.31 | 38.50 |
| | 37 . | HLT-37 | Expansion of Medical College and Hospital at Jamnagar. | 113.33 | 52.50 |
| | 3 8. | HLT-38 | Expansion of Medical College and Hospital, Surat. | 192.88 | 108.50 |
| | 39 . | HLT-39 | Expansion of Medical Education facilities. | 25.00 | |
| | 40. | HLT40 | Strengthening of Medical records organisation. | 5.00 | • • |
| | 41. | HLT-41 | Strenthening of libraries in Medical Colleges. | 8.00 | •• |
| | 42. | HLT-42 | Specialists Unit. | 8.41 | 0.41 |
| | | | - | | |

| 9 | 1 | | 2 | 3 | 4 |
|-----|-------------------------|------------------|--|---------------------|-------------|
| | 43. | HLT-43 | Expension of Dental College and Hospital, Ahmedabad. | 4.09 | 2.59 |
| | 44. | HLT-44 | Expansion of General Nursing School. | 3.00 | |
| | 45. | HLT-45 | Expansion of Nursing College at Ahmedabad. | 14.00 | 10.00 |
| | 16. | HLT -43 | Prevention of Visual Impairement and control of blindness | 30.00 | • • |
| | 47. | HLT47 | Re-orientation of Medical Education | 30.00 | • |
| | | | Sub-Total (IV) | 660.00 | 240.00 |
| V. | Ind | lige 10us sy | ystem of Medicine Arurved and Homeopathiy. | • | |
| - 1 | 4 8. | HLT-48 | Taking over of Ayurvedic College and expansion of existing | ~ 00 | 5 00 |
| | 10 | III T 40 | Ayurved College. | $\frac{5.00}{1.00}$ | 5.00 1.00 |
| | 49. 50 . | HLT-49 HLT-50 | Construction of Hostel building. Development of Ayurvedic University, Jamnagar. | 1.00 | |
| | 50. 51. | HLT-51 | G. I. A. to Homeopathic Institutions. | 1.00 | |
| | 51. 52. | HLT-52 | Trainees training. | 0.50 | |
| * | 52. 53. | HLT-53 | Expansion of Ayurvedic Hospital attached with teaching Colleges | 6.50 | 1.50 |
| | 54. | HLT-54 | Opening of New Ayurvedic dispensaries in rural areas. | 20.00 | - 4 |
| | 5 4 . 55. | HLT-55 | Construction of Dispensary building with Staff quarters. | 1.00 | 1.00 |
| | 5 6. | HLT-56 | Strengthening the directorate of Ayurvedic and starting of district ayurvedic offices. | 10.00 | 1,00 |
| | 57. | HLT-57 | Opening of new ayurvedic hospitals and expansion of existing ayurvedic hospitals. | 13.00 | 2.00 |
| | 5 8. | HLT-58 | Botanical surveys and Herbs Garden | 6.00 | |
| | 59. | HLT-59 | Upgrading and expansion of Pharmacy. | 2.00 | 0.50 |
| | 60. | HLT-60 | Establishment of Collection Centres. | 6.00 | |
| | 61. | HLT-61 | Opening of Ayurvedic wing in District headquarter hospital (Allopathy). | 1.00 | |
| | 62. | HLT-62 | Provision of Panch Karma Section in Government Ayurvedic hospital. | 1.00 | (*) |
| 4 | | | Sub-Total (V) | 120.00 | 11.00 |
| Vľ. | En | ıployses S | tate Insurances Scheme. | | |
| | 63. | HLT-63 | Employees State Insurance Scheme. | 15.0 0 | -74 |
| | | | Sub-Total (VI) | 15.00 | ••• |
| VI | ľ. Pu | ıblic Healt | Sh - | .1 | |
| | Prev | ention and | d Control of Communicable Diseases:- | | |
| | 64. | HLT -61 | National T. B. Control Programme | 35.00 | 16.64 |
| | 65. | HLT-65 | National Filaria Control Programme | 18.00 | •• |
| | 6 6. | HLT-66 | Prevention of Visual Impairement and control blindness | 52.0 0 | |
| | 67. | HLT-50 | National Leprosy Control Programme | 40.00 | |
| | 68. | HLT -68 | National Malaria Fradication Programme | 3115.00 | |
| | | | · · · · · · · · · · · · · · · · · · · | | |

| | 1 | 2 | 3 | 4 |
|--------------------------|---|---|--|---------------|
| VIII. | Minimum | needs Programmes. | | #'er |
| 69 | 9. HLT- 6 9 | A Upgrading of PHCS into 30 beded hospitals. | 150.00 | 50.00 |
| 70 | 0. HLT-7 0 | Construction of Taluka hospital for Referral Services and strengthening of taluka Referral hospital. | 77.50 | 25.50 |
| 71 | 1. HLT-71 | Construction work of sub centres of P. H. Cs building | 55.50 | 55.50 |
| 72 | 2. HLT-72 | Drugs and Medicines to PHCs (Estt. of new P. H. Cs.) | 178.40 | |
| 73 | 3. HLT-73 | Upgrading sub-centres of PHC into dispensaries with maternity facilities. | 462.30 | 50.00 |
| 74 | . HLT-74 | Strengthening of PHC. | 184.05 | 92.80 |
| 7 5 | 6. HLT-75 | Community Health Volunteer Scheme | 750.00 | •• |
| 76 | 6. HLT-76 | Multipurpose Workers Scheme | 151.25 | |
| | | Sub-Total (VIII) | 2009.00 | 273.80 |
| X. O | her Program | ame | | |
| 77. | . HLT-77 | Expansion of Vaccine Institution, Vadodara. | 3.50 | 1.00 |
| 7 8. | . HLT-78 | Creation of Regional Health Education Unit. | 1.25 | •• |
| 79 | . HLT-79 | Strengthening of Health Statistics. | 1.25 | |
| | | Sub-Total—IX | 6.00 | 1.00 |
| X. S | chool Heal | h Services | | |
| 80 | . HLT-80 | Health Services to the School going Children | 40.00 | •• |
| | | Sub-Total—X | 40.00 | |
| | Drugs Conti | | | |
| KI. | | ol | | |
| KI. 1 | | Training of pharmacist | 36.57 | |
| | . HLT-81 | | 36 .57 | |
| 81. | . HLT-81 | Training of pharmacist Expansion of administrative section of Drugs Control Administration for enforcement of Drugs and Cosmetics Act, 1980 and Drugs and Megic remidies (Objectionable advertisement) | | |
| 81. 82 . | . HLT-81 . HLT-82 | Training of pharmacist Expansion of administrative section of Drugs Control Administration for enforcement of Drugs and Cosmetics Act, 1980 and Drugs and Megic remidies (Objectionable advertisement) Act, 1954. | 53 .57 | |
| 81. 82. | . HLT-81 . HLT-82 . HLT-83 | Expansion of administrative section of Drugs Control Adminis- stration for enforcement of Drugs and Cosmetics Act, 1980 and Drugs and Megic remidies (Objectionable advertisement) Act, 1954. | 53.57 0.73 | •• |
| 81. 82. 83. 84. | . HLT-82 . HLT-83 . HLT-84 . HLT-85 | Expansion of administrative section of Drugs Control Adminis- stration for enforcement of Drugs and Cosmetics Act, 1980 and Drugs and Megic remidies (Objectionable advertisement) Act, 1954. Expansion of Intelligence branch Expansion of Drugs Laboratory, Vadodara | 53.57 0.73 43.04 | 10.00 |
| 81. 82. 83. 84. | . HLT-82 . HLT-83 . HLT-84 . HLT-85 | Expansion of administrative section of Drugs Control Adminis- stration for enforcement of Drugs and Cosmetics Act, 1980 and Drugs and Megic remidies (Objectionable advertisement) Act, 1954. Expansion of Intelligence branch Expansion of Drugs Laboratory, Vadodara Esstt. of Regional Laboratory | 53.57 0.73 43.04 6.74 | 10.00 5.00 |
| 81. 82. 83. 84. | . HLT-81 . HLT-82 . HLT-83 . HLT-84 . HLT-85 . HLT-86 | Expansion of administrative section of Drugs Control Adminis- stration for enforcement of Drugs and Cosmetics Act, 1980 and Drugs and Megic remidies (Objectionable advertisement) Act, 1954. Expansion of Intelligence branch Expansion of Drugs Laboratory, Vadodara Esstt. of Regional Laboratory Estt. of Planning and Statistical Cell. | 53.57 0.73 43.04 6.74 1.55 | 10.00 5.00 |

7.4. FAMILY WELFARE PROGRAMME

Introduction:

7.4.1. As in the provious plans, the Family Welfare Programme will continue to be a Centrally Sponsored Programme during the Plan period 1980-85. The strategy will be to integrate the health, Family Welfare, Maternity and Child Health and Nutrition Services at all levels and to Secure the general integration of the Family Welfare Programme with other programmes.

Demographic Profile.

7.4.2. In terms of population Gujarat ranks 10th among the States in India. During the decade 1971-81, the rate of growth of population in Gujarat has declined from 29.4 per cent to 27.2 per cent Gujarat has thus recorded an Annual growth rate of 2.7 per cent as against the national growth rate of 2.4 per cent. The State also has a higher fertility rate in the age group 20-24 and 25-29. The general fertility rates as projected by the expert committee for the periods 1971-75 and 1976-80 are 188 and 150 respectively. The above figures clearly indicate that the population of Gujarat is growing at an alarming rate. The birth rate which was 45.7 during the decade 1951-61 has declined to 35.1 during 1979 showing decline of 10.6 points or about 23 per cent. While the death rate which was 23.5 during the decade 1951-61 has declined to 13.6 during 1979 showing decline of 9.9 points or about 42 per cent. This shows that the death rate is declining much faster than the birth rate. The impact of improved health measures have aggravated the basic demographic imbalance by reducing death rate while leaving the birth rate insufficiently adjusted to this change. If the present growth rate continues unchecked, the population of Gujarat will be around 4.5 to 5 crores by the turn of the century. Thus, undisputably, Gujarat is facing a population explosion of crisis dimensions. This points to the need for a massive effort to scale down the birth rate to 30 per thousand population by 1982-83 and 25 per thousand population by 1984-85.

7.4.3. Performance during the year 1977-78 and onwards in respect of birth control measures is indicated by the following table:—

Review.

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| Methods. | Achievements (Nos. in '000) Terminal year 1984-85 Target. Cumulative | | | | | | |
|------------------------------|---|-------|-------|-----------------|---------------|----|--|
| | | | | | | | |
| | 77/78 | 78/79 | 79/80 | 80/81 Target | | /e | |
| 1 | 2 | 3 | 4 | 5 | 6 | | |
| Sterilisations | 112 | 197 | 220 | 162 | 1000 | _ | |
| IUD insertions | 30 | 35 | 38 | 47 | 420 | | |
| Conventional contracaptives. | 155 | 205 | 187 | 254 | 1 3 30 | | |

7.4.4. The number of couples protected in the productive age group is given in the table below:

| pelow. | | (Figure | es in 00 0) |
|-------------------|--|---------------------------|--------------------|
| Year | Estimated | | les protected. |
| | couples in productive age group. ('000) | Sterilisation No. | % age |
| 1 | 2 | 3 | 4 |
| 1977–78 | 5264 | 1309 | 24.9 |
| 1978-79 | 5383 | 1436 | 26.7 |
| 1979–80 | 54 87 | 1 519 | 28.8 |
| | | (Figures | in 000") |
| I.U.D. inserti | | Conv entio contraceppt | |
| No. 5 | % age. | No. 7 | % age 8 |
| 78 | 1.5 | 155 | 2.9 |

7.4.5. Since the inception of the programme. 22.6 lakhs operations have been sterilisation performed in Gujarat till December, 1980 giving a cumulative rate of 69.5 sterilisation per thousand A total of 3.9 lakhs of I. U. D. population. have been carried out till December insertions 1980 giving cumulative rate of 12.5 IUD. \mathbf{a} insertions per thousand Population. Taking all the methods of family welfare into account, 18.4 lakhs couples are currently protected in Gujarat till March 1980. The birth rate in the has dropped from 45.7 during the decade 1951-61 to 35.1 per thousand during the year 1979 according to sample registration surveys., thus recording almost a 10.6 point decline.

1.6

1.18

205

186

3.8

3.4

Programme for 1980--85.

89

99

7.4.6. To achieve the goal of reduction in the birth rate to a level of 25 per thousand Population by the end of 1980-85, it is proposed to achieve the targets of 10.00 lakhs sterilisation, 4.20 lakhs IUD insertions and 13.30 lakhs conventional contraceptive users during the period 1980-85. However these targets are provisional

and subject to the norms fixed by Government of India. The different programmes proposed to be undertaken during the plan period 1980-85 are given below:—

Post Partum Programme.

7.4.7. The main objective of the post Partum Programms is to maximise contraception among the target Population in the community catered to by institutions which attract large number of confinement cases. There are 36 Post Partum Units functioning in the state as on 31st December 1980. 382 sterilisation beds are sanctioned under Post Partum Programms till 31st December 1980. Bosides, 802 reserve beds have been sanctioned under the sterilisation maintenance schemes upto 31st December 1930. 80 Post Partum centres are proposed to be created during 1980-85.

Medical Termination of Pregnancy.

7.4.8. The Medical Termination of Pregnancy Act, 1971, is in force in the State. There were 448 Medical Termination of Pregnancy centres recognised by the Government at the end of Docember 1980. A training Programme for Medical Officers working in Primary Health Centres and Rural Family Welfare Centres has been organised. The number of medical terminations of Pregnancy performed is as under:—

| Year | | N | o. of M. T. P | 8. |
|---------|-------|------|---------------|----|
| 1975-76 | | | 10995 | |
| 1976–77 | | | 15863 | |
| 1977-78 | . , . | | 16780 | |
| 1978–79 | | | 23033 | |
| 1979-80 | | | 21316 | |

7.4.9. To cope up with the rise in tubectomy acceptance a new dimension is proposed from 1980-81; to be added to the Programme is the laproscopic tuballigations camp Gujarat, Laproscopic tuballigaapproach. In tions are proposed to be conducted at recognised hospitals where trained surgeons and instaruments are available. Under the campaproach, Surgeons competent in the technique will be sent to district hospitals together with other sub-district doctors to perform laproscopic tuballigation.

Oral Pill Programme.

7.4.10. In Gujarat State, Oral pill Programme was started on a pilot basis in 7 centres during 1973-74. The Programme has since been intensified and oral contraceptive tablets are now

distributed by all rural family welfare centres, Post Partum Units, and Urban Family Welfare Centres. Since the beginning of 1978-79 upto December 1980, 6.30 lakhs oral pill cycles have been distributed in the State. This programme is proposed to be intensified during Sixth Five Year Plan 1980-85.

Provision of Sterilisation Facilities under British aid scheme in Rural and Semi Rural Area:

7.4.11. The British Aid Programme aims the extension of sterilisation facilities in rural and semi rural areas—by providing assistance to purchase the necessary surgical equipments and to renovate existing labour rooms at the Primary Health Centres and Sub-Divisional Hospitals. Such facilities have been sanctioned at 48 P.H.Cs. and sub-divisional Hospitals by Government of India.

7.4.12. The Family Welfare Programme is wholly Centrally Sponsored. An outlay of Rs. 6477.04 lakhs is proposed for the Programme for the five year plan, 1980-85. The additional facilities proposed to be created during 1980-85 are as under:—

| Additional facility | Number |
|--|---------|
| | 1980—85 |
| Rural Family Welfare Centres | 160 |
| Urban Family Welfare Centres | 103 |
| Mobile sterilisation and IUD Units. | 64 |
| Post Partum Units. | 80 |
| Conversion of labour rooms in PHCs. to operation theatres. | 221 |

7.4.13. The Programme for 1980-85 also envisages the expansion of Vasectomy services in rural areas, increased distribution of conventional contraceptives, strengthening of the staff structure in post partum units at Government teaching hospital and elsewhere, the construction of building for all Rural Family Welfare Centres and the expansion of mass media activities.

7.4.14. The Government of India has recently sanctioned a special project for the speedy development of infrastructure for Health and Family Welfare in Panchmahals and Bharuch districts. The project aims at improvement in the delivery of health services in rural, backward, and tribal areas. An outlay of Rs. 1185.34 lakhs for the Five Year Plan 1980-85 has been proposed for the project by the Government of India. This outlay will be in addition to the provision made for the centrally sponsored Family Welfare Programme.

ANNEXURE

Proposed outlay under the Family Welfare Programme (Centrally sponsored programme)

(Rs. in lakhs)

| Sr. No. | Programme Component | outlay proposed for Sixth five year | 1 | 2 | 3 |
|----------------|--|--|----|--|---------------------------|
| _1 | 2 | plans 1980-85 3 | g. | Maintenance of beds Post Partum Centres Conventional Contraceptives. | 66.00 150.00 150.00 |
| a. | (1) State F. W. Bureau(2) City F. W. Bureau | 64.00 30.00 | | (4) Intensive District F. W. Programme. | 27.50 |
| | (3) District F. W. Bureau | 302.52 | h. | (5) Awards. Mass Education Programme | 9.60 67.15 |
| b. c. d. | Rural F. W. (Main) Centres. Rural F. W. (Sub) Centres. Urban F. W. P. Centres. Immunisation scheme. | 1231.95 835.60 448.48 125.00 | i. | Regional F. W. Training Centres. Training of ANMS, Dais and HVs. Demographic Research Centres. | 44.40 |
| е. | (1) Maintenance and supply of vehicles at R. F. W. Centre | | | Total | 5291.70 |
| f. | (2) State Health Transport (F.W. Organisation. (1) Vasectomy (2) Tubectomy (3) IUCD (4) Ex-gratia financial assistance | 10.53 629.00 749.00 26.79 | | Area Project (USAID) in Panch- Mahals and Bharuch Districts GRAND TOTAL | 118 5 .34 |

7.5. SOCIAL INPUTS

- 7.5.1.1. The UNICEF has expanded the scope and range of the programmes and projects being supported by it in the country over the period of last three decades. In the recent past the scope has been further expanded and the UNICEF assistance is now being provided for supporting a broad spectrum of development projects, income generating activities for women, environmental sanitation, etc.
- 7.5.1.2. In pursuance of the suggestion made by the Government of India to prepare suitable projects for availaing of the assistance from UNICEF for Area Development for Social Inputs, the State Government has selected nine districts for the purposes and have retained nine State based institutions to help for formulating the area plans for these nine districts.
- 7.5.1.3. The selection of the districts as also the Voluntary agencies and professional institutions has been approved by the Government of India and the UNICEF representatives have been associated at various stages in the process. A seminar was organised at Gandhinagar in February, 1980 where the official functionaries administering the social services facilities in the Districts, the Collectors and Officers from the State Level Departments closely concerned with social services development, were fully briefed regarding the formulation of plan programmes and projects for the selected areas in the field of the social services. Representatives of UNICEF also participated in the seminar.
- 7.5.1.4. In order to enable presentation of some projects for availing of UNICEF assistance during the 1980-81 year, it has been envisaged to prepare the interim plan for two talukas in each of the selected nine districts and the remaining areas are expected to be covered during the course of the plan period. The professional institutions have been entrusted with the work of preparation of plans in consultation with the Collectors of districts, the District Panchayats and other officials, the Voluntary Organisations and the District Planning Boards. These institutes will conduct surveys, collect baseline data and carry out situation analysis and feasibility studies while formulating the plan and projects.
- 7.5.1.5. A State Level Steering Committee is constituted to oversee the progress of preparation of plan and monitor entire project work.
- 7.5.1.6. The sectors and programmes which UNICEF is likely to assist are:
 - 1. Health care: Primary health care for the mothers, infants and children, health cducation and disease control;
 - 2. Clean water for drinking;

- 3. Nutrition education and provision of nutritions food:
 - 4. Education: Pre-primary and primary;
- 5. Training for health workers, school teachers, social workers;
- 6. Welfare services: balwadis, day care centres, youth and women's groups and self-help projects to improve family and community life.
- 7.5.1.7. UNICEF assistance is expected to have particular reference to the needs of children and women belonging to weaker sections of society with special emphasis on those belonging to scheduled castes and scheduled tribes. Illustrative examples of possible sector of assistance as incorporated in the guidelines issued by the Government of India are:—
 - (i) training of personnel of nutrition programme and support for applied nutrition activities
 - (ii) health and nutrition education;
 - (iii) primary health care for children and mothers including immunization programmes;
 - (iv) rural water supply and environmental sanitation;
 - (v) pre-school and non-formal education;
 - (vi) simple technological programme for women, aimed at benefitting the family and the children;
 - (vii) upgradation of skills as a preliminary to the addition of social inputs to the area development programmes;
 - (viii) projects and plans of community centres;
 - (ix) rural multi-purpose community participation;
 - (x) individual based programmes like "Antyodaya" taken up recently by some of the State Governments:
 - (xi) income generating programmes for women.
- 7.5.1.8. Preference is to be given to the integrated child development projects in the frame-work of Community projects.
- 7.5.1.9. It is envisaged that the projects to be undertaken in different districts need not be necessarily indentical. The programmes to be included would depend upon the local needs of the projects areas. Besides, the actual extent of participation by UNICEF is still to be ascertained. However, the programmes for Area Development are expected to be comprehensive so as to take care of all the relevant sectors of development. During the year 1980-81 two talukas in each of the selected districts have been taken up and other talukas will be taken up subsequently during the plan period. An outlay of Rs. 500.00 lakhs is proposed for the Sixth Five Year Plan 1980-85 for the purpose.

STATEMENT

Social Inputs

List of scheme included in the Sixth Five Year Plan 1980--85 outlays

(Rs. in lakhs)

| Sr. | No. and name of the scheme | Proposed outlay | 198085 |
|----------|-----------------------------------|-----------------|---------|
| No. | | Total | Capital |
| 1 | 2 | 3 | 4 |
| 1. SIP1. | Social Inputs in Area Development | 500.00 | |

7.6 SEWERAGE AND WATER SUPPLY

7.6.1.1 The Programmes under the Sewerage and Water Supply Sub-Sector envisage the provision of safe and protected water supply and sanitation facilities in the urban and rural areas of the State. Supply of protected drinking water in adequate quantity and safe disposal of waste water are essential for preservation and promotion of public health. With the rapid urbanisation and concentration of large industries in certain areas of the State, the problem of treatment and safe disposal of waste water calls for serious attention. The problem of air pollution though localised at present to certain industrial belts has started causing concern and is required to be checked in its infant stage. The programmes under the sub-sector mainly concentrate on development of rural water supply, urban water supply, urban drainage and effective control measures for preventing water and air pollution.

7.6.1.2 There are 18275 inhabited villages in the State covering about 72% of the total population of the State and the remaining 28% of the population is covered in 216 towns. Out of the said villages 9600 villages, i. e. about 50% of the villages in the State have been identified as 'No Sources' problems villages upto June, 1977. The State Government has given the highest priority to the programmes of providing drinking water supply facilities to these villages.

7.6.2. Review of Progress:

7.6.2.1. A) out 4514 'No Source' villages under the rural water supply programme, 167 towns out of 216 towns including Corporation towns under urban water supply programme and 22 towns under the urban drainage programme were covered upto the end of the year 1979-80.

The following table shows the level of development reached at the end of 1979-80 in respect of selected programmes:

| | Programmes | | covered upto the end of 1979-80 | Re- main- ing to be covered |
|----|---|--------|---|---|
| 1. | Urban Water Supply (Towns) | 216 | 167 | 49 |
| 2. | Rural Water Supply (No Sources Villages) | 9600 | 4514 | 5086 |
| 3. | Urban Drainage (Towns) | 216 | 22 | 194 |
| 4. | Conversion of dry latrines. | 106383 | 76383 | 30000 |

- 7.6.2.2. Certain handicaps were being experience d in implementing the sewerage and water supply schemes during the Fifth Plan. The following corrective measures have been taken:—
 - (1) Powers of field officers have been suitably raised to expedite sanction.
 - (2) Instead of elevated services reservoir, ground service (cisterns) are being constructed in the rural areas.
 - (3) Departmental purchase committee has been constituted for purchase of pipes, spare-parts and machinery.
 - (4) It has been decided to let out jobs on "turn-key basis".
 - (5) Implementation machinery has been strengthened.
 - (6) It is proposed to provide loans to the needy local bodies in cases where LIC loans are not available.

7.6.3. Objectives and Strategy

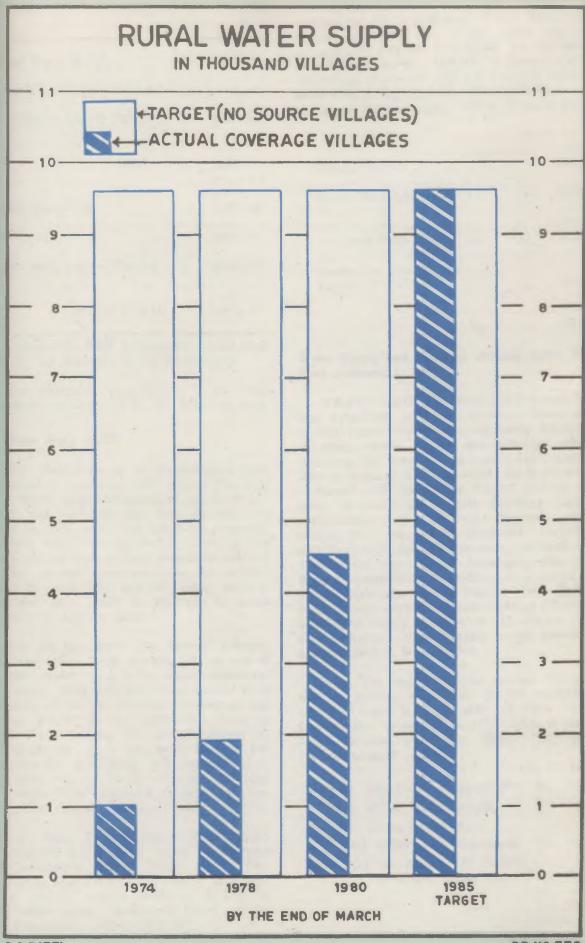
- 7.6.3.1. As regards water supply, the main thrust in the plan would be towards achieving the following objectives:—
 - (i) to cover the remaining "No Source" (Problem) villages with potable drinking water.
 - (ii) to provide piped water supply facility to more towns and to strengthen and augment urban water supply in areas which are currently having inadequate piped water supply, and
 - (iii) to cover predominently industrial cities with sewerage facility.

7.6.4. Development Programme 1980-85

7.6.4.1. An outlay of Rs. 15076.00 lakhs is proposed in the Sixth Five Year Plan 1980-85. The broad programmewise break up is as under:-

(Rs. in lakhs)

| Sr. | Programme | Outlay |
|-----|--------------------------|--------------------------|
| No. | 2 | Proposed 1980-85 3 |
| 1. | Survey and Investigation | 100.00 |
| 2. | Research | 5.00 |
| 3. | Urban sanitation | 350.00 |
| 4. | Rural sanitation | 26.00 |



| 1 | 2 | 3 |
|----|-----------------------------|--------------|
| 5. | Urban Water Supply | 487.00 |
| 6. | Rural Water Supply (G.I.A.) | 8.00 |
| 7. | Rural Water Supply (MNP) | 3500.00* |
| | Total: | 4476.00 |
| | Market Borrowing | 1500.00 |
| | LIC Loan | 2500.00 |
| | World Bank assisted Project | 6600.00* |
| | GRAND TOTAL | 15076.00 |

^{*}In addition Rs. 3000 lakhs under world bank projects for Minimum Needs Programme.

7.6.4.2. The main programmes in the Sixth Plan 1980-85 are discussed in the following paragraphs.

Rural Water Supl/ (MNP)

7.6.1.3. Most areas of the State depend upon rainfall which is insuffcient and erratic. The large areas in North Gujarat, Saurashtra and Kachchha are arid and semi-arid and they do not get adequate rainfall, only a few rivers are perennial. Apart from this, in some areas bordering the rann of Kachchha there is high salinity in sub-soil water. The coastal areas also have the problem of salinity in water. The sub soil water table is going lower from year to year and in some areas water is turning saline.

7.6.4.4. Of the 9600 "No Source" Villages, 4514 villages have been covered by the end of March 1980, under rural water supply programme leaving about 5086 villages to be tackled from the beginning of 1980-81. The State Government has given top priority to this programme so as to cover all the remaining "No source" villages by the end of 1984-85. It is estimated that as per present rates Rs. 8600 lakhs will be required to provide water supply facilities to cover remaining 5086 villages. It is targetted to cover all the remaining "No source" villages during 1980-85.

7.6.4.5. Since 1977-78, Government of India has reintroduced in a Central Sector Programme namely "Accelerated Rural Water Supply Programme" fully financed by the centre. It is proposed to obtain central assistance at least of Rs. 2100 lakhs under Acclerated Rural Water Supply Programme during 1980-85.

7.6.4.6. Of these remaining villages, some regional as well as individual Rural Water Supply Schemes proposed for World Bank assistance estimated to cost Rs. 3000 lakhs are expected to be completed during 1980-85. A provision of Rs. 6500 lakhs (3600-2100 lakhs) is proposed under the State plan during 1980-85. The broad break up of the Rural Water Supply outlay is as under:—

| | (Rs. in lakhs) |
|--|----------------------|
| Normal (MNP) | 3500 |
| World Bank (MNP) | 3000 |
| Total State Plan | 6500 |
| Accelerated Rural Water Supply (C.S.P.) | 2100 |
| Total | - - 8600 |

Water Supply and sewerage Projects under World Bank assistance:

7.6.4.7. The Gujarat Water and Sewerage Board has submitted a project package consisting of (i) rural water supply and sanitation scheme and (ii) urban water supply and sewerage schemes including the sewerage schemes of Ahmedabad and Rajkot Corporations. The world Bank Mission has evaluated and identified a Project package consisting of twenty sub-Projects including those of corporations. These would include sewerage Ahmedabad Municipal Corporation scheme of and Rajkot Municipal Corporation, the water supply schemes for six cities Jamnagar, Bhavnagar, Nadiad, Surendranagar, Godhra, and Anand and one Savarkundla town. Further ten Rural water supply schemes covering 285 villages and water supply schemes of 111 villages (including individual village water supply scheme) are also proposed to be included.

7.6.4.8. The project package consists of a provision for training also. This project package is estimated to cost Rs. 10600 lakhs, of which expenditure to the extent of Rs. 10200 lakhs is planned to be incurred during the Sixth Plan period 1980-85 as under:

(Rs. in lakhs).

- (1) Rural water Supply(MNP) Rs. 3000
- (2) Urban Water Supply. Rs. 1950
- (3) Urban Sewerage.
 - (a) Other than Corporation Rs. 1050
 - (b) Ahmedabad and Rajkot Municipal Corporation. Rs. 4200

Total .. Rs. 10200

Out of this, a provision of Rs. 6000 lakhs is provided in the State Plan. Of the remaining Rs. 4200 lakhs pertaining to sewerage projects of Ahmedabad and Rajkot Municipal Corporation; a provision of Rs. 500 lakhs is proposed in the plan as Market Borrowing and the rest of the amount is expected to be provided by these two Corporations from their own resources.

Low Cost Sanitation Project (UNDP) :

7.6.4.9. It is proposed to under take a programme of low cost sanitation under UNDP Global Project in 15 towns of Gujarat State. This programme is proposed to be taken up under World Bank assisted programme. An outlay of Rs. 600 lakhs is, therefore, proposed to be provided for the Sixth Plan period.

Water and Air Pollution.

7.6.4.10 Gujarat is one of the highly urbanised and industrialised States in the country. The problems of treatment and disposal of indistrial waste/ water and air pollution create serious health Hazards to human beings and cattle. In the last 5 years, spade work has been completed and several industries have been advised affleunt treatment. Several municipalities have been also advised to take up corrective measures. The Water (Prevention and control of Pollution) Act, 1974 has come into force. The Gujarat Water Pollution Board has been constituted during 1974. The functions of the Board are to grant consent to industris for discharging waste waters, to advise the Government for the prevention of water pollution, to monitor sewerage to evolve methods for effluents and trade effluents, as well as utilisaition of sewerage and trade effluents in agriculture and to advise for the location of Industries etc. It is proposed to expand and strengthen such activities of the Board during the period 1980-85. An outlar of Rs. 50.00 lakhs is proposed for the purpose so as to enable the Board to function more effectively.

Water Supply and Sewerage Board.

7.6.4.11 Gujarat Legialsative Assembly has enacted an Act for establishing a separate statutory board for water supply and sewerage project in March, 1979. This board has come into existence since August, 1979. The Board is expected to undertake Sewerage and Water Supply activities in Rural and Urban areas of the State. Initially, some of the activities relating to Public Health Engineering have been transferred to this Board. Besides, the Board also executes urban water supply and drainage schemes already transferred to it. The other functions of the Board are to obtain loan from Life Insurance Corporation for local bodies and de I with projects posed for the world Bank assistance.

7.6.4.12 The Gujarat Water Supply and Sewerage Board is set up for the purpose of speedy implementation of activities of Sewerage and Water Supply in urban and rural areas of the State. The Board has been entrusted the work of implementing urban water supply projects and urban drainage projects of the towns excluding corporation cities, obtaining loan from L.I.C. for local bodies and the implementation of the projects posed for world Bank assistance.

7.6.4.13 In regard to Water Supply, out of 216 towns (including 4 Corporation cities), 167 towns have been covered by the end of March 1980 leaving 49 towns yet to be tackled. Out of these 49 towns, Water Supply schemes of 24 towns are on hand and it is proposed to take up works of the remaining 25 towns during 1980-85. Out of these it is targetted to complete Water Supply Projects of 25 towns by the end of Sixth Five Year Plan 1980-85 and rest will spill over to the Seventh Five Year Plan

7.6.4.14 Similarly, urban drainage projects of 22 tonws are completed by the end of March 1980 leaving 194 towns to be tackled at the beginning of the Sixth Five Year Plan 1980-85. Drainage schemes of 38 towns are proposed to be taken up during 1980-85. Out of these, 10 projects are targetted to be completed by the end of March 1985.

7.6.4.15 The State Government has allotted Rs. 50.00 lakhs upto the end of March 1980 as Government conribution against Rs. 100 lakhs proposed in the Act for meeting with the initial expenditure. An outlay of Rs. 50.00 lakhs is therefore proposed during 1980-85 towards Government contribution to the Board to make up Rs. 100 lakhs.

Conversion of dry latrine programme (Bhangi Kashta Mukti)

7.6.4.16 Under the Programme of conversion of dry latrines known as "Bhangi Kashta Mukti" 76383 latrines out of 106383 latrines have been converted upto the end of March, 1980, with flush type. It is proposed to convert all remaining 30,000 dry latrines in the Plan 1980-85 for which a provisen of Rs. 80.00 lakhs is proposed.

7.6.4.17 The urban water supply schemes are executed on "as and when" basis. Full capital cost is to be deposited by the local body for execution of the project from its own resources. Looking to the general financial condition of the local bodies, it is extremely difficult for them to spare funds for such projects from their own resources. They have to depend on outside financial assistance. The LIC gives loan to such needy local bodies. However, in Gujarat State number of towns now remaining to be covered are smaller in population and the estimated cost of individual projects work out to be less than

around Rs. 15 lakhs in many cases. LIC does not entertain applicat ions from the local bodies if the projects are costing less than Rs. 15 lakhs. Till now provision was made only for giving grant-in-aid to such local bodies for implementing their water supply project considering that the matching loan part will be made available by the local body either getting loan from LIC or from their own resources. However, it has now become necessary to provide for loan from the State Government in the State Plan. A provision of Rs. 30.00 lakhs is proposed for Government loan.

7.6.4.18 A permanent water supply scheme costing Rs. 5 to 6 crores for Bharuch town and GNF is to be constructed through GNFC to solve its water supply problem. Funds are expected to be initially made available by the Government towards the share of Bharuch and released to GNFC in a placed maner. It is proposed to provide Rs. 100 lakks for the purpose towards the lean to Bharuch Municipality during 1980-85.

STATEMENT Sewerage and Water Supply

List of Scheme included in the Sixth Five Year Plan 1980--85

(Rs. in lakhs)

| r. No. and Name of the Sheme | | Sixth Five Year | Plan, 1980-85 outlays |
|----------------------------------|-------------|-----------------|-----------------------|
| о. | | Total | Cap tal |
| 2 | | 3 | 4 |
| . WSS-1 Survey and investigation | | 100.00 | •• |
| 2. WSS-2 Research | | 5.00 | 5.00 |
| 3. WSS-3 Sewerage scheme (Urban) | | 350.00 | 60.00 |
| l. WSS-4 Dra nage scheme (Rural) | | 26.00 | - |
| 5. WSS-5 Urban W.S.S. | | 487.00 | 436.00 |
| 3. WSS-6 Rural W.S. (GIA) | | 8.00 | |
| 7. WSS-7 Rural W.S. (MNP) | | 3500.00 | 27 50.00 |
| | Total | 4478.00 | 3251.00 |
| Market Borrowing | | 1500.00 | 1500.00 |
| LIC Loan | | 2500.00 | 2500.00 |
| World Bank Projects | | 6600.00* | 6600.00 |
| | Grand Total | 15076.00 | 13851.00 |

^{*}includes Rs. 3000 lakhs for MNP

7.7. HOUSING

7.7.1.1. Growth of population, rapid pace of industrialisation and urbanisation have contributed to the urgency of the problems of Housing. Migration of population from village to towns and cities that created the problem of slums. In villages also acute shortage of housing is felt on account of natural growth in population and comparatively stagaant housing activities. Housing inadequacies have both quantitative and qualitative dimensions.

7.7.1.2. According to information available through 1971 census, there were 44.97 lakh occupied residential houses in the State of which 12.96 lakh houses were in urban areas and 32.01 lakhs in rural areas. The number of households was 45.37 lakhs of which 13.04 lakhs were in urban areas and 32.33 lakhs were in rural areas. The information also revealed that 52.3% of the household in urban areas live in one room accounting for 45.6% of the urban population. Another 29.4% shouseholds in urban areas live in two rooms accounting for 29.7% of the urban population. Thus, about 81.7% of the urban households covering about 75.3% of the urban population lives in houses with two rooms or less. Besides, it was also revealed that about 58% of the urban households were living in rented houses. In so far as six major cities (Ahmedabad, Vadodara, Surat, Rajkot, Bhavnagar, and Jamnagar) are concerned, it was found that the proportion of households living in one room was 54.9% and that living in two rooms was 28.5%. In the rural areas, according to the 1971 census data about 32.01 lakh houses were used for residences accommodating about 32.33 lakh households. The average household size for rural areas was 5.8 persons as against 5.6 persons in urban áreas. The number of persons per room was 3.8 in rural areas as compared to 3.1 persons per room in urban areas. Moreover, the dwellings in rural areas do not have proper sanitary conditions and ventilation facilities and in many cases, rural are dwelling-cum-cattlesheds. The census data further revealed that about 2.20 lakh houses were having both walls as well as roofs made of such material as grass, leaves, rods, bamboo, mud, etc.

7.7.2. Approach and Strategy:

7.7.2.1. Housing being a basic need and as the weaker sections and the poor both in the rural and urban areas cannot easily afferd to construct houses on their own, it will be necessary to assist them suitably. In view of the emphasis on rural development and the need to provide more facilities in rural areas, it is necessary to give much higher priority to rural housing than hitherto. Under urban-housing, the strategy of attempting a massive relocation of slums will be given up and instead increased investment will be made on slum improvements. In view of the large magnitude of the problems, the State alone would not be in a position to under-take a massive housing programmes.

7.7.2.2. Public housing schemes are being allotted higher outlays and will be restructured to make them consistant with the real needs and the paying capacity of the low income group for which these are meant. The development of housing has to be generally through the efforts and investment by the Private Sector. Co-operative housing seciety is need more encouragement as they play an important role in individual housing efforts. Emphasis is, therefore, laid on the provision of institutional support to low cost private housing.

7.7.2.3. The employeres too will be expected to play a more effective role. It will be necessary to secure as much institutional financee possible. The local bodies, finanial institutions, banks co-operatives and employees will be expected to make their utmost contribution by providing their own resourses towards reducing the magnitude of the housing problems. It is also necessary to promote research in building technology and development of cheap and local housing materials.

7.7.3. Programmes for 1980--85:

7.7.3.1. An outlay of Rs. 8530.00 lakhs is proposed for various Housing schemes during the Sixth Five Year Plan 1980-85. The broad break up of the proposed outlay is as under:-

(Rs. in lakhs)

| Sr. No | Programme | 1980-85 Proposed outlay |
|------------|---|-------------------------|
| 1 | 2 | 3 |
| 1. | Urban Housing | 1365.00 |
| 2. | Rural Housing | 3989.00 |
| 3. | Government Residential Quarters and Administrative Buildings. | 1626.00 |
| 4. | Police and Jail Housing. | 750.00 |
| 5 . | House Building advances to Government employees. | 800.00 |
| | Total:- | 8530.00 |

7.7.4. Urban Housing:

7.7.4.1. The Urban Housing Programme is mainly comprised of Integrated Subsidised Housing Scheme, Economically Weaker Sections' Housing Scheme, Low Income Group Housing Scheme and Slum Clearance Scheme.

7.7.4.2. The Site and Services Scheme has been introduced from the year 1979-80 only to provide shelter with basic amenities to the slum dwellers and economically weaker sections of the society. An outlay of Rs. 1365.00 lakhs is proposed for the Sixth Five year Plan 1980-85. The details are as under:-

(Rs. in lakhs)

| Sr. No | | Outlay Proposed for 1980-85. | |
|------------|--|------------------------------------|--|
| 1 | 2 | 1980-85. 3 | |
| 1. | Integrated Subsidised Housing Sch | eme 5.00 | |
| 2. | Economically Weakers Sections' Housing Scheme. | 690.00 | |
| 3. | Low Income Group Housing Schen | ne 400.00 | |
| 4. | Shim Clearance Scheme. | 100.00 | |
| 5 . | Site and Services Scheme. | 250.00 | |
| 6. | Constitution of Action Group for Settlement of Slum Dwellers. | 10.00 | |
| | Total:- | 1365.00 | |

7.7.4.3. The physical achievements under various urban housing schemes during 1974-78, 1978-79 and 1979-80 are as under:-

| Sr. Name of the No. Scheme | Achiev | ements (| No. of he | ouses) • |
|--|-----------|--------------|--------------|-------------------|
| | 1974-78 | 1978-79 | 1979-80 | 1980-81 likely |
| 1 2 | 3 | 4 | 5 | 6 |
| 1. Integrated Suldised Housing Scheme | | 312 | 24 | |
| 2. Economically Weaker Sections Housing Scheme | | 6457 | 3404 | 96 |
| 3. Low Income Group Housing Scheme. | 5352 | 1818 | 2i 74 | 348 |
| 4. Slum Clearanc Scheme. | е 2520 | | 192 | |
| Total:- | 19950 | 85 87 | 5794 | 444 |

7.7.4.4. The Gujarat Housing Board has undertaken programme of above mentioned planned schemes except slum clearance scheme, with the funds from the State Plan as well as from HUDCO, LIC, and other financial institutions. The Gujarat Housing Board also undertakes Middle Income Group Housing Scheme and has constructed 1,146 tenements during 1977-78, 718 tenements during 1978-79 and 152 tenements till December 1980.

7.7.4.5. The Gujarat Slum clearance Board under takes programmes with HUDCO assistance. The Board has completed 220 tenements during 1977-78, 1184 tenements during 1978-79 and 388 tenements till December 1980. In addition to this, the Board has completed 320 tenements for cyclene affected slum people in Jamnagar.

Integrated Subsidised Housing Scheme:

7.7.4.6. Industrial workers within the meaning of the Factory Act, or members of economically weaker sections' of the society, whose monthly income does not exceed Rs. 350 can be availed of the benefit under the scheme. The pattern of assistance is as below:-

| Agency | | Pattern of assistance (% of approved Cost) | | |
|--------|--|---|---------|--------------------|
| | - | Loan | Subsidy | Agency's Share. |
| 1. | Co-operative Housing Society for Industrial workers. | 65 | 25 | 10 |
| 2. | Employees (Rental) | 50 | 25 | 25 |
| 3. | Gujarat Housing Board (Rental) | 50 | 50 | •• |

7.7.4.7. As the prescribed ceiling cost is very low and the number of industrial workers whose income is not more than Rs. 350 per month is few it was difficult to achieve expected progress under the scheme. It has, therefore, been decided to pay emphasis on the hire purchase scheme rather than subsidised rental scheme. A scheme for Economically weaker sections' whose monthly income docs not exceed Rs. 350 is implemented and houses are given on hiro purchase basis. Considering all these factors, no new projects are to be considered. An outlay of Rs. 5 lakhs is provided for on-going projects of co-operative housing societies of industrial workers and employees for the Sixth Five Year Plan period 1980-85.

Economically Weakers Sections' Housing Scheme.

7.7.4.8. To provide greater and better opportunities in securing housing accommodations to the people belonging to economically weaker sections of the society, the Economically Weaker Sections' Housing Scheme was introduced during the Fifth Plan. This scheme is specifically designed to cater to the need of the people belonging to economically weaker sections having a monhly income not exceeding Rs. 350 so as to give preferential treatment amongst the Low Income Group People. This scheme is being executed through the Gujarat Housing Board and the tenements constructed under the scheme are given on hire purchase basis. The Gujarat Housing Board reserves 10% of the tenements for the Scheduled Castes and Scheduled Tribes. Moreover, 2% of the teneements are reserved for the Blind and 5% of tenements for the communities declared socially and educationally backward by Baxi Panch. The ceilling cost of the tenement is Rs. 10,000. The Government gives 100% loan aissistance.

7.7.4.9. The Housing and Urban Development Corporation (HUDCO) also grants loans for execution of housing programmes for these weaker sections on the strength of the State Government Guarantee for a period of 20 years. The effective interest rate is 5%. The Gujarat Housing Board, Gujarat Slum Clearance Board, and the Municipal Corporations have taken benefit of such loan assistance. The Government has also decided to exempt these institutions agencies from payment of Government guarantee fee in respect of the projects for economically weaker section category. In addition to HUDCO, loan assistance is also expected from LIC, Nationalised Banks, etc., for executing this scheme.

7.7.4.10. Normally HUDCO provides funds on sliding scale and the same is not sufficient to cover the entire cost of the project. The Gujarat Board needs funds Housing \mathbf{for} matching the balance requirement, acquisition of land, etc. Government has, therefore, decided to permit the Gujarat Housing Board to utilise the amount of loans given under the State Plan Scheme as "Seed Capital" which will help in boosting the programme. An outlay of Rs. 600 lakhs is proposed for the Sixth Five Year Plan 1980-85.

Low Income Group Housing scheme:-

7.7.4.11. A person whose income does not exceed Rs. 600 per month can avail the benefit of the scheme. The maximum ceiling cost for the dwe!ling unit is Rs.18,000 exclusive of land development charges for the tenements/houses constructed through the Gujarat Housing Board. The Board implements the scheme and tenement/houses constructed are given on hire

purchase basis. The State Government gives 166% loan assistanance to the Board under the scheme. The Board reserves 10% of the tenements for Scheduled Castes and Scheduled Tribes. Moreover, 2% of the tenements are reserved for blind and 5% tenements $\mathbf{declared}$ socially \mathbf{for} \mathbf{the} communities backward by Baxi Panch. educationally The HUDCO loans for low income group projects on the Government be had guarantee for a period of 15 years with effective rate of interest at 7%. The Gujarat Housing Board undertakes the projects with the loan assistance from HUDCO, LIC, etc. over and above State Plan funds.

7.7.4.12. As in the case of EWS Housing Scheme, the Housing and Urban Development Corporation (HUDCO) grants loan for execution of this housing scheme on a sliding scale which is not sufficient to cover the entire cost of the project. Government has, therefore decided to permit the Board to utilise the amount of loan given under the State Plan Scheme as "Seed Capital" for the matching the balance-requirement, acquisition of land etc. This will help in boosting the programme. An outlay of Rs. 400 lakhs is proposed for Sixth Five Year Plan 1980-85.

Slum Clearance Scheme :-

7.7.4.13. The Slum Clearance Scheme envisages providing pucca houses to the slum dwellers. The local bodies are given financial assistance as detailed below for construction of houses. The approved ceiling cost per tenement is Rs. 6050. The tenements so constructed are given on rental basis with subsidised rent to slum dweller whose incomedoes not exceed Rs. 350 per month.

| Agency | Percentage of approved Cost. | | |
|-----------------------|------------------------------|---------|--------------------|
| | Loan | Subsidy | Agency's Share. |
| Municipal Corporation | 50 | 43.75 | 6.25 |
| Municipality. | 50 | 45 | 5 |

7.7.4.14. As the tenments constructed under the scheme cannot cover all the slume dwellers within near future, it is considerered necessary to give more emphasis on improvement of slum areas rather than the clearance. The improvement of slums under Environmental Improvement scheme taken-up under Minimum Needs Programme will be continued during the period 1980-85 in the "Urban Development" Sector. In view of this, no new projects are to be considered under this scheme.

7.7.4.15. However, in order to improve living conditions of the slum dwellers, it is necessary to improve their huts. At present, there is a scheme for Environmental improvement in slum areas under "Urban Development" Sector which aims at providing basic services in the slums. But, there is no scheme for improvement of their huts and hence it has been decided to give assistance for improvement of huts through the local bodies on the pattern of the slum clearance scheme. In view of above, an outlay of Rs. 100 lakhs is proposed for the Sixth Five Year Plan 1980-85.

Site and Services Scheme:

7.7.4.16. The problems of eradication of slum pockets in big cities is becoming acute day by day. Thus, to prevent further growth of the existing pockets and to stop creation of new slum areas by influx of the migratory population from the rural areas to the urban areas for livelihood, a new scheme for providing cheaper houses within the reach of such population has been introduced in the State Plan from 1979-80.

7.7.4.17. The Site and Services scheme introduced by HUDCO envisages to provide housing to economically weaker facilities object \mathbf{of} hescheme is to utilise Theself help capability of $ext{the}$ weaker sections of the urban area to enable them to procure minimum shelter. A skeleton house or plinth or developed plots of land equipped with essential services like pathways, water supply, sewerage, electricity, community facilities, etc., are provided under the scheme. The ceiling cost is Rs. 2,700 for Economically Weaker sections and Rs. 4500 for Low Income Group. The effective rate of interest and repayment period is 5% and 20 years for Economically Weaker Sections and 7% and 15 years for Low Income Group respectively.

Building Materials Bank:

7.7.4.18. The State is considering the establishment of a Building Materials Bank in the State with a view to ensuring supply of building materials like steel, cement, wood, bricks, etc., at reasonable prices. The main idea behind this concept s, chiefly to augment procurement of these essential materials by the Bank and make these available to the people particularly belonging to the Economically Weaker Sections and the Low Income Group at reasonable rates. The concept is, therefore, to help such sections of population from the hardships being faced by them due to the acute shortage of building materials. The funds for setting up this Bank are to be made available from the "Seed Capital" money given as loan by the State Government to the above mentioned Agencies, who prepare and implement programmes under the Site and Services Scheme. An outlay of Rs. 250.00 lakhs is proposed for the Sixth Five Year Plan 1980-35 under the Site and Services Scheme.

Constitution of Action Group for Settlment of slum Dwellers:

7.7.4.19. A asting solution to the problem of slum dwellers can be found only in paying more attention to slum improvement than to slum clearance. Orderly slum improvement can be fruitful only with the participation of the slum dwellers and unless they have a stake in such improvement, their participation will not be forthcoming. Making them owners of the lands they occupy will go a long way in this regard. To consider the issue regarding conferring the title of the lands to the sum dwellers and if that is not possible to locate other lands for this purpose, it has been decided to constitute an Action Group for settlement of Slum Dwellers. To meet with the expenditure of Group and to start with the activities, an allocation of Rs. 10 lakhs is proposed in the Sixth Five Year Plan 1980-85.

7.7.5. Rural Housing:

7.7.5.1. The Rural Housing Programme is comprised of Minimum Needs Programme for (a) housesites for landless labourers and, (b) assistance for construction of houses on the housesites allotted. Besides, Low Income Group Housing Scheme, Economically Weaker Sections' Housing Scheme with HUDCO participation and scheme for granting assistance for improvement of rural houses are also proposed to be continued during the period of Sixth Five Year Plan 1980-85. A new scheme for loan to farmers for construction of houses has also been proposed to be taken up during the period of Sixth Five Year Plan 1980-85. An outlay of Rs. 3989.00 lakhs is proposed for the Sixt Five Year Plan 1980-85. The details are as under:—

(Rs. in lakhs).

| Sr. No. | Name of the Scheme | Outlay proposed for the Sixth Five Year Plan 1980-85 |
|------------|--|---|
| 1 | 2 | 3 |
| 1. N | И. N. P. | |
| (| (i) Housesites for landless rural labourers. | 100.00 |
| (| (ii) Assistance for construction of houses on the housesites alloted | 2985.00 |
| | Assistance for improvement of rural houses | f 100. 00 |

| 1 | 2 | 3 |
|----|--|---------|
| 3. | Low income group housing scheme | 404.00 |
| 4. | Economically weaker section, housing scheme with HUDCO participation | 300.00 |
| 5. | Loans to farmers for construction of houses | 100.00 |
| | Total | 3989.00 |

Minimum Needs Programme:

7.7.5.2. Under the scheme of allotment of free housesites to landless labourers, the position as on 31st December, 1980 is as under:—

(Figures in lakhs)

- (a) Plots allotted to Scheduled Castes 0.92
- (b) Plots allotted to Scheduled Tribes 1.00
- (e) Others 2.33

Total number of housesites allotted: 4.25

- 7.7.5.3. It is proposed to construct 3.12 lakhs houses under this scheme during the Sixth Five Year Plan 1980-85. The State Government has given top priority to the scheme of housesites to the landless labourers and construction of houses thereupon. In fact this is one of the important programmes covered under the 20-Point Economic Programme as well as under the Minimum Needs Programme. By the end of the year 1979-80, 1,11,866 houses have been constructed. In order to achieve the aforesaid objective of providing houses to all the
 - (1) The last date for receiving applications for housesite plots is extended upto 31st December, 1981 so as to enable the left out landless labourers to take benefit of this scheme.

landless rural labourers the following steps have

been taken:

(2) To enable the beneficiaries to construct a small but durable paaca house at the estimated cost of Rs. 3000, the following pattern of assistance is envisaged:—

| Rs. 1,000 | Government subisidy. |
|--------------------|--|
| Rs. 250/- | District Panchayat contribution. |
| Rs. 250/- | Beneficiaries contribution in terms of labour. |
| Rs. 1500/- | Loan from Nationalised Bank or HUDCO. |
| Rs. 3 000/- | Total |

- 7.7.5.4. It is also envisaged to provide essential amenities like drinking water, street light, roads on a priority basis to the housing colonies of these beneficiaries. Through the Special Component Plan and Tribal Area Sub-Plan, it is ensured that the benefits under this scheme meant for Scheduled Castes and Scheduled Tribes are not diverted to other sections of the communities.
- 7.7.5.5. An outlay of Rs. 2985 lakhs has been proposed in the State Sixth Five Year Plan 1980-85 for providing assistance to 3.12 lakh allottees of plots for the construction of houses.

Assistance for improvement of Rural Houses:

- 7.7.5.6. There are a large number of houses/ husts in rural areas which need improvement in respect of ventilation, smoke nuisance, etc., keeping in view the minimum requirements of health sanitation and good habitation. There is ample scope for improvement in such matters especially in respect of the houses of weaker sections of the society. Under the scheme, the beneficiaries in rural areas belonging to Scheduled Castes., Scheduled Tribes and people belonging to a group of socially and economically backward persons whose income does not exceed Rs. 2,400 , per annum, assistance for providing ventilator is being given at the rate of actual cost of the ventilator limited to Rs. 50. An Assistance is also given to the extent of Rs. 100 for erection of smoless chulas. Assistance under this scheme to the other beneficiaries is at the rate of Rs. 25 for ventilator and Rs. 50 for smokeless chulas.
- 7.7.5.7. In the first two years of the inception of this scheme *i. e.*, in the years of 1978-79 and 1979-80, 22710 smokeless chulas and 33,389 cement or Wooden Ventilators have been installed or constructed. For the Sixth Five Year Plan 1980-85, an outlay of Rs. 100.00 lakhs has been proposed for this scheme.

Low Income Group Housing Scheme:

7.7.5.8. This scheme envisages construction of houses by Gujarat Rural Housing Board for persons whose income do not exceed Rs. 600 per month. The State Government provides loan assistance to the Board for construction of houses. The loan is given at a sliding rate ranging from 100% to 7.5% of the colling cost of Rs. 18,000 per unit. The houses

constructed under the scheme are given on hire purchase basis. An outlay of Rs. 404.00 lakhs is proposed for the Sixth Five Year Plan 1980-85.

Economically Weaker Sections' Housing scheme with HUDCO participation:

7.7.5.9. The Housing and Urban Development Corporation (HUDCO) has introduced a rural housing finance scheme in 1978-79 for construction houses, cost of which does not exceed Rs. 4000/- per unit for economically weaker sections, family, whose monthly income does not exceed Rs. 350 p.m. HUDCO provides loan assistance not exceeding 50% of the cost of house at the interestrate of 5 1/4% and the period of repayment in ten (10) years in equal instalments. The State Government will finance 30% of the cost by way of loan to the Gujarat Rural Housing Board and the remaining 20% of the cost of house and land will be borne by the benefi-Thus, the loan assistance from the State Government is about Rs. 1200/- per unit. An outlay of Rs. 300 lakhs is proposed for the Sixth Five Year Plan 1980-85.

Loans to farmers for construction of houses:

7.7.5.10. The scheme envisages financial assistance to rural farmers other than landless labourers for construction of modest dwellings. Under this scheme it is proposed to give loans to the beneficiaries through District Panchayats. An outlay of Rs. 100 lakhs is proposed for the Sixth Five Year Plan 1980-85.

7.7.6. Government Residential and Administrative Buildings:

7.7.6.1. According to information gathered in 1971 the requirement of residential quarters for Government employees stationed at District Head Quarters in the State was about 29,000 and that of Taluka Head Quarters was about 12684. Beginning from 1971-72, till the end of March 1980, Government has sanctioned construction of 5220 new quarters at District and 2334 Units at Taluka Head Quarters (including 576 units in 32 tribal talukas). Government has also purchased 1115 tenements (872 at District Head Quarters+243 at Taluka) from the Gujarat Housing Board at various places in the State. Thus, provision of 8669 new quarters could be made so far since 1971-72. A much head way is still to be made to meet with the demand of 33014 quarters for the Government employees needing Government accommodation. It has, therefore, been necessary to accelerate the programme of construction of quarters. Details of various categories of quarters sanctioned and new quarters required as on 1st April 1980 in the State are given below :-

District Head Quarters

| Category | Require- ment assessed in 1971 | No. of Quarters sanctioned/ purchased upto March, 1980 | Quarters required to be constru- cted as on 1-4-80 |
|----------|---|---|--|
| 1 | 2 | 3 | 4 |
| I | 7606 | 1212 | 6394 |
| II | 19442 | 4205 | 15237 |
| III | 1451 | 530 | 921 |
| IV & V | 500 | 145 | 355 |
| Total | 28999 | 6092 | 22907 |

Taluka Head Quarters

| Category | Require- ment assessed in 1971 | No. of quarters sanctioned/ puchased upto March, 1980 | Quarters required to be constru- cted as on 1-4-80 | |
|----------|---|--|--|--|
| 1 | 2 | 3 | 4 | |
| I | 3744 | 356 | 3388 | |
| II | 8400 | 2185 | 6215 | |
| III | 450 | 36 | 414 | |
| IV | 90 | ** | 90 | |
| Total | ${12684}$ | 2577 | 10107 | |

(Category I is for Class-IV)

7.7.6.2. Thus, this programme requires to be pursued so that the employees residing in the private rented premises may not have to continue to face the hardships of paying abnormally high rent for inferior accommodation. An outlay of Rs. 900 lakhs is proposed for this programme during the Sixth Five Year Plan 1980-85. Works on about 2300 units are in prograess of which 800 units are expected to be completed by March, 1981. Works of 681 units will be taken up shortly. It is also proposed to takeup construction of 1314 units at a cost of Rs. 304 lakhs at Ahmedabad so as to provide accommodation to the Government employees occupying leased colonies of Ahmedabad Muniicpal Corporation which are to be handed over to the Corporation.

7.7.7. Administrative Buildings:

of accommodation for 7.7.7.1. The problem Government Offices at District and Taluka Head Quarters is of great magnitude. Several Government Offices are housed in hired buildings and huge amount is spent by way of rent. Many of these premises are not quite suitable for Offices. There has been a considerable emphasis on improving the working environment in Government Offices and in that context it becomes necessary to undertake the construction of suitable buildings for housing these offices. So far, multistoried office buildings have been constructed at Ahmedabad and Surat. Works on construction of offices buildings at Vadodara, and Rajkot are in progress and Office Buildings at Palanpur Navsari have been taken up during the year 1980-81. It is also proposed to take up the construction of Office Building for Labour, Employment and Training (Shram Bhavan) at Ahmedabad at an estimated cost of Rs. 150 lakhs. Buildings at the following places are yet to be taken up.

| Sr. No. | Place | Amount of rent paid per month |
|------------|-------------------|----------------------------------|
| 1 | 2 | 3 |
| 1. | Bhavnagar | 41,572 |
| 2. | Mahesana | 35,500 |
| 3. | Jamnagar | 25,842 |
| 4. | Nadiad | 21,218 |
| 5. | Godhra | 21,138 |
| 6. | Bharuch | 19,06 2 |
| 7. | Bhuj | 18,014 |
| 8. | Himatnagar | 15,950 |
| 9. | \mathbf{Amreli} | 7,573 |
| | | |

7.7.7.2. The demand for the office buildings at district hand quarters has incr ased considerably. During the year 1979-80, the following important new works estimated to cost about Rs. 46 lakhs have been taken up:—

(Rs. in lakhs) Name of the work Estimated Sr. No. cost 1 2 3 Regional Transport Office Building 16.00Regional Transport Office Building at Rajkot 20.00Regional Transport Office Building at Surat 10.00Total 46.00 7.7.7.3. In addition to above, the following new works have also been authorised to be taken up during 1979-80:

- 1. Central Office Building at Navsari.
- 2. Rest House at Navsari.
- 3. Rest House at Ahwa.
- 4. Rest House at Nadiad.
- 5. Rest House at Godhra.
- 6. Rest House at Gondal.
- 7. Rest House at Kandla.
- 8. Rest House at Bardoli.
- 9. Expanison of Government Offices at Palanpur.
- 10. Expansion of Villa Bungalow at Porbandar.
- Rest House at Una and Circuit House Annex at Ahmedabad.

7.7.7.4. An outlay of Rs. 726 lakhs is proposed for the period of Sixth Five Year Plan 1980-85 for construction of Administrative Office Buildings.

7.7.8. House Building Advances to Government Employees:

7.7.8.1. There is a large demand from the Government employees and from the Panchayat employees for advancee for purchase/construction of houses. An outlay of Rs. 800.00 lakhs has been proposed towards meeting this demand in the Sixth Five Year Plan 1980-85.

7.7.9. Police Housing Scheme :

7.7.9.1. The Housing needs for the Police personnel are to be viewed in context different from the needs of the other Government employees. This is because the Police personnel upto the rank of Inspectors are entitled to rent free quarters as per their service conditions. The Police housing scheme is being implemented as Plan scheme since the beginning of the Fifth Plan. The Police housing scheme has been transferred to State Sector from 1979-80.

7.7.9.2. During the year 1980-81, a provision of Rs. 75.00 lakhs has been made for construction of quarters for 15 P.I., 62 Sub-Inspectors and 3192 Constabularly staff. Total sanctioned strength of Police personnel, entitled to rent-free accommodation, the number of quarters available, etc, as on 1st July, 1980 is as under:—

| Category | | Strength | No. of quarters allotted | No. of quarters yet to be allotted | No. of quarters under construction | No. of quarters yet to be constructed |
|--------------------|-------|----------|-----------------------------|--|--|---|
| 1 | | 2 | 3 | 4 | 5 | 6 |
| P. I. | | 497 | 265 | 232 | 15 | 217 |
| P. S. 1. | | 2175 | 1001 | 1174 | 62 | 1112 |
| Constabulary Staff | | 44743 | 28125 | 16618 | 3192 | 13426 |
| | Total | 47415 | 29391 | 18024 | 3269 | 14755 |

The outlay proposed for the Sixth Five Year Plan 1980-85 is Rs. 700 lakhs for Police housing.

7.7.10. Jail Housing Scheme:

7.7.10.1. The Jail employees are required to reside near the Jail premises and as such they are provided with rent free quarters near the Jail premises, but due to insufficient number of quarters some of the employ-yees have to stay outside the Jail premises. The

timings of the Jail officers are morning and afternoon hours. Hence it becomes inconvenient for such employees to attend the office as they have to come and leave the office twice a day. In view of this, it is necessary to provide residential accommodation to the staff members near the Jail premises. The requirement of new staff quarters is about 142. The total financial outlay required for 142 quarters will be about Rs. 50 lakhs. Accordingly, an outlay of Rs. 50 lakhs is proposed for the Sixth Five Yer Plan 1980-85.

STATEMENT

List of schemes included in the Sixth Five Year Plan 1980-85-

Sector/sub-Sector of Development :- Housing

(Rs. in lakhs)

| Sr. No. | No. and Name of the Scheme | th Five Year | Plan 1980-85 Outle |
|---------|--|-----------------|--------------------|
| 1 | 2 | Total 8 | Capital 4 |
|] | I. Integrated subsidised housing for industrial workers and economically weaker sections of the society: | | |
| 1. | HSG-1 Integrated subsidised housing | 5.00 | 3.00 |
| 2. | HSG-2 Economically Weaker Sections' housing (seed capital to Gujarat Housing Ecard) | 600.00 | €€€.€€ |
| | Smib-Total :—I | 605.00 | 603.00 |
| I | I. Urban Low Income Group Housing | | |
| 3. | H3G-3 Urban Low income group housing | 400.00 | 400.00 |
| | III. Government Rental Housing | | |
| 1. | H33-4 Javaramant residential quarters for Government employees | 900.00 | 900.00 |
| | IV. Slum Clearance and Rehousing | | |
| 5. | HSG-5 Slum clearance | 100.00 | 60.60 |
| | V. Village Housing Projects | | |
| 6. | H33-6 Raral Low income group housing | 404.00 | \$89.00 |
| | VI. Minimum Needs Progframme | | |
| 7. | HSG-7 Housesites for landless rural labourers | 100.00 | •• |
| 3. | H33-8 Assistance for construction of houses on the housesites allotted to landless labourers | 29 85.00 | •• |
| | Sunb-Total:—VI | \$085.00 | •• |
| 30 % | VII. Police housing and Jail buildings: | | |
| 9. | HSG-9 Police housing | 700.00 | 700.00 |
| 10. | HSG-10 Jail buildings | 50.00 | 50.00 |
| | Sub-Total :—VII | 750.00 | 750.00 |
| | VIII. Others | | |
| 11. | HSG-11 Site and Services Scheme | 250.00 | 225.00 |
| 12. | H33-12 Construction of Action group for Settlement of Sium dwellers | 10.00 | •• |
| 13. | HSG-13 Assistance for improvement of rural housing | 100.00 | •• |
| li. | H3升4 Epon nimity Weaker Sections' housing scheme with HUDCO participation | 300.00 | 800.00 |
| 15. | H33-15 Loans to Farmers for construction of houses | 100.00 | 100.00 |
| 16. | HSG-16 Administrative buildings | 726.00 | 726.00 |
| 17. | HSG-17 Loans to Government employees for house building Advance | 800.00 | 800.00 |
| | Sub-Total :-VIII | 2286.00 | 2151.00 |
| | GRAND TOTAL | 8530.00 | 6253.00 |

7.8. URBAN DEVELOPMENT

7.8.1. Trend in Urbanisation:

7.8.1.1. Gujarat has been experiencing rapid urbanisation during the last two decades. According to 1971 census, of the total population of 2.67 crores in the State about 28% (74.96 lakhs) constituted urban population, compared to 20% in the country indicating a very high degree of urbanisation in the State. Gujarat ranks third in urbanisation among all the States of India. During the decade 1961-71 the growth of urban population was 41.1% (from 53.17 lakhs in 1961 to 74.96 lakhs in 1971) against the growth of 29.4% in total population and 25.4% in rural population, in the State.

7.8.1.2. There are 216 urban areas in the State. The distribution of these 216 towns/cities according to population size class (1971 census) is as under:-

| Population size Class | | 1971 | Census | Percen- tage to |
|-----------------------|-------------------|---------------|--------------------------|------------------------------------|
| | | No. of towns. | urban popu- lation | total urban popu- lation. |
| | | | (in lakhs) | |
| [. | 100,000 and above | 7 | 33.80 | 45.1 |
| II. | 50,000 to 99,999. | 19 | 11.74 | 15.7 |
| III. | 20,000 to 49,999. | 42 | 13.28 | 17.7 |
| IV. | 10,000 to 19,999. | 73 | 10.53 | 14.00 |
| ٧. | 5,000 to 9,999. | 71 | 5.40 | 7.2 |
| ۷I. | Below 5,000 | 5 | 0.21 | ð.3 |
| | Total | 216 | 74.96 | 100.00 |

61% of urban population is living in 25 oities and towns having population 50,000 and above while 76 small towns (population below 10,000) accounted for 7.5% of the total urban population.

7.8. 2. Policy approach and strategy.

7.8.2.1. The growth of urban population was 20.1% during the decade 1951-61 against the All India figure of 26.4% whereas during 1961-71 it was 41.1% against 38.2% in All India.

The urban amenities are lagging behind the growth of population in urban concentrations. Fast growth of urban areas has resulted in host of problems pertaining to education, health, housing, water supply, transport, ecology and crimes. This necessitates short term strategy of checking of congestion in urban concentrations built into the long term strategy of integrated area development resulting in optimum spatial distribution of population. checking the growth of large cities and fostering the development of smaller towns would be the twin strategies governing the approach to Urban Development during the Sixth Five Year Plan 1980-85. Concentration of economic activities in large urban has been attracting centres influx of job seekers to such centres from rural areas and smaller towns where amenities and services are lacking. Consequently the rate of growth in the large cities has been higher than that in the smaller towns.

7.8.2.2. The thrust of the urban policy will be to check the growth of the metropolitan cities and bringing out an integrated development of the small and medium towns. This is proposed to be achieved by laying greater emphasis on the provisions of infrastructural and other facilities for small towns and by equipping them to act as growth and service centres for the rural hinterland. At the same time adequate support is also to be given to larger cities directed specifically towards improving the conditions of the urban poor and raising civic services upto an acceptable level.

7.8.2.3. The highest priority is to be accorded to restricting the growth of population in the larger urban conglumerates. For this, the policy of granting incentives and applying disincentives to move industries, away from metropolitan centres, require to be pursued. The encouragement to house hold and cottage industries and small industries in the rural and semi-urban areas would help and arrest the influx of population to larger urban centres. The policy of checking the growth of metropolitan centres and big cities should go hand in hand with a policy of augmenting services in such centres economically and efficiently. In doing so, the urban and the slum dwellers should receive special aftention. While rural development must be given the first priority in the Plan, the problems of urbanisation should not be underestimated. Integrated rural development envisages providing services on an heirar cheial pattern in service centres and growth centres. This throws up the urban functions in rural development because small and medium towns act as service, and growth centres. Therefore, integrated rural development would to an extent encompass the development of small and medium towns which will act as growth centres for the rural hinterland. 7.8.2.4. The pattern of urbanisation, therefore, should be on the desired lines and directions based on the strategy of regional/spatial planning. It would be necessary to adopt the strategy of growth centres in small and medium towns on the basis of regional planning and equip such centres with the required infrastructure. This will be done having regard to the regional plan that may be prepared for the area for optimum utilisation of available resources. Infrastructural development has to be integrated with suitable employment generating programme. In this context the regional aspects of the development taking place in Surat region and the Narmada project require early preparation.

7.8.2.5. The strategy of attempting a massive relocation of slums will be discouraged and instead increased investments would be made in slum improvement in the larger cities. The proposed environmental improvement (EIP) is to include water supply and sewerage, the paving of streets and the provision of community latrines. Areas inhabited by Scheduled Castes, particularly scavangers etc., are to be given due priorty.

7.8.2.6. Urban development is not confind to the city limits which are accidential rather than planned. With a view to regulate, guide and provide for the development in and around larger cities, the Government has constituted four Urban Development Authorities (Ahmedabad, Vadoadara, Surat and Rajkot) and two Area Development Authorities (Bhavnagar and Jamnagar) and the smaller towns have been designed as Area Development Authorities so as to enable them to take up planning work. These Authorities will have to be provided with adequate funds to discharge the functions expected of them.

7.8.2.7. It is proposed to enlarge the scope of the Gujarat Housing Board to undertake several related urban development activities. With the enlargement of the scope, the Gujarat Housing Board can work as an agency for planning financial and execution of development projects in urban growth centres, particularly small and medium towns.

7.8.2.8. The Government with a view to improving the financial position of the Municipalities by effecting efficiency, economy, necessary discipline in their fiscal administration and to tap fully their own resources of income and fully recover the taxes levied by them, so that they can take up development programme with zeal has set up a "Municipal Finance Board". The role of the Municipal Finance Board would be to assess the resources of the various Municipal bodies and to distribute funds and grant-in-aid provided by the government to local bodies on the principles and criteria as would be finally approved. The Municipal Finance

Board will initially be assisted financially to meetwith its administrative expenditure etc., to enable it to discharge its functions.

7.8.2.9. The projects, programmes and activities for integrated urban development will require large investments. The Municipal Corporation, Municipalities Urban/Area Development Authorities, Gujarat Housing Board and Gujarat Slum Clearance Board, will utilise their own resources for this purpose to the extent possible. The State Government will also supplement the resources of these institutions to assist them in undertaking some of the projects and programmes. Assistance is expected also from Government of India under the Centrally sponsored scheme of Integrated Urban Development of Small and Medium Towns. In addition, institutional finance from Banks, L.I.C., Open Market Borrowing, Assistance from HUDCO and International Agencies will also have to be availed of by all agencies.

7.8.3. Programme for Sixth Five Year Flan 1980-85:

7.8.3.1. An outlay of Rs. 2850.00 lakhs is proposed for Sixth Five Year Plau 1980-85 for various Urban Development Programmes. The break up of the proposed outlays is given as under:—

(Rs. in lakhs)

| | | | , |
|------------|---|---------|------------|
| ~ | AT | | 1980-85 |
| Sr. No. | Name of the Scheme/ Project (Minor Heads) | Propo | sed outlay |
| 1 | | | 3 |
| 1. | (i) Town Planning and Re Planning. | egional | 220.00 |
| | (ii) Introduction of City S around Ahmedabad M Pal Corporation Areas. | | 100.00 |
| 2. | Urban Development Program | mme. | 1170.00 |
| 3. | Loans to Local Bodies. | •• | 660.00 |
| 4. | MNP Environmental imp | rove- | 500.00 |
| 5. | Integrated Urban Develors Small and Medium Towns. | | 200.00 |
| | Total | - | 2850.00 |

7.8.4. Town Planning and Regional Planning

- 7.8.4.1. During the Fifth Plan 1974-78 and Annual Plans from 1878-79 to 1979-80, the programmes comprised of:—
 - (i) Preparation of Regional Plan for Ahmedabad-Vadodara-Surat Region;
 - (ii) Preparation of Metropolitan plans of Ahmedabad; and
 - (iii) Preparation of comprehensive Traffic and Transportation plan of Ahmedabad Metropolitan Area.
- 7.8.4.2. Regional planning is necessary not only to prevent sporadic and unhealthy urban expansion but also to arrest deterioration of rural environment and to secure balanced growth of industry and agriculture, to achieve better utilisation of human and physical resources and a more desirable pattern of agroindustrial and rural urban relationship. An outlay of Rs. 35.00 lakhs has been provided for regional planning for 1980-85.
- 7.8.4.3. Within the frame work of the Regional Plan, the Development Plan emphasises all aspects of the physical planning such as designation of land use, proposals of broad circulation and transportation systems, reservation of lands for public purposes such as schools, gardens, play-grounds and shopping centres The Gujarat Town Planning and Urban Development Act, 1976 provides for declaration of Development areas (which may extend beyond the limits of local Authority) and constitution of Urban Area Development Authories. Similarly the urban local bodies have been designated as development authorities which are supposed to prepare development plans for their respective development areas. Simultaneously a number of Development Plans sanctioned under the repealed Act will have to be revised under the new Act which provides for compulsory revision of the Development rlans within 10 years from the date come in force. Leparation of Development Plan and Town Planning memes being a continuous process has to be coninued during the Sixth Five Year Plan, 1980-85 also. by the end of the Fifth Plan (1977-78) 77 Development 'lans (including 11 revised plans) were prepared and he work of preparation of 21 Development Plans including 12 revised plans) was in progress. During 978-79 and 1979-80, 12 Development Plans (including revised plans) were prepared and at the end of 379-80 the work of 5 Development Plans (including revised plans) was in progress. Moreover, 5 Devepment Plans are also prepared by Urban/Area Devepment Authorities. During the next five years, Devepment Plans previously sanctioned will be due for vision. It is proposed to prepare 25 Development ans during 1980-85. In addition to these, some of e Area Development Authorities will prepare their

Development Plan themselves. At the end of the Fifth Plan (1977-78), 132 Draft Town Planning Schemes were prepared. During 1978-79 and 1979-80, 6 Town Planning Schemes were prepared and at the end of 1979-80, preparation of 4 Town Planning Schemes were in progress. It is proposed to prepare 25 Towns Planning Schemes during 1980-85 on behalf of various Area Development Authorities. In addition to these, it is expected, that Urban/Area Development Authorities would also prepare some schemes. For preparing these Development Plans and Town Planning Schemes an outlay of Rs. 25.00 lakhs is provided for 1980-85.

7.8.4.4. Local Authorities do not have adequate financial resources for the implementation of the Development Plan proposals either by way of preparation of Town Planning Schemes or by acquisition of lands. It was felt that the Local Authorities should be encouraged to implement the proposals of the Development Plans through preparation of Town Planning Schemes to effectively control the haphazard development taking place allaround. Therefore, scheme for giving grant-in-aid to Municipalities for implementation of the proposals of Development Plans through preparation of Town Planning Scheme was introduced in the Fifth Plan. An expenditure of about Rs. 76.07 lakhs was made during 1974-78. Grant-in-aid was given to 16 local authorities during Fifth Plan for preparation of 124 Town Planning Schemes During 1978-79 and 1979-80, an outlay of Rs. 28.20 lakhs and Rs. 43.00 lakhs respectively was provided. During 1978-79 grant-inaid of Rs. 28.20 lakhs was given to 4 local authorities Rs. 35.20 lakhs was distributed among 16 local authorities during 1979-80. There are 41 Town Planning Schemes, which are either in process of finalisation with Town Planning Officer or are already finalised. In addition 29 draft Town Planning Schemes have been submitted to Government and pending for sanction. For these purposes a total provision of Rs. 160.00 lakhs would be required for this. scheme during the Sixth Five Year Plan 1980-85.

7.8.4.5. The work of Regional Plan in the State has taken into consideration the developments in connection with Narmada Project and also the rapid economic changes taking place in the Surat-Bharuch region. Narmada Project will necessiate considerable amount of regional planning to provide for project location land use, manpower, ecological balance, etc. Regicnal Planning is necessary to co-ordinate the inter-sectoral activities on rational basis and also for providing for rehabilitation and settlement. The Government has already initiated policy formulations in this regard and the required agency will be created soon for preparation of Regional Plan. Similarly, taking into consideration the rapid developments taking place in the Surat-Bharuch region, it is necessary to control the activities there with the help of a regional plan. A provision of Rs. 20 lakhs is provided for this purpose for the Five Year Plan 1980-85.

ূIntroduction of City Siurvey of 23 Villages-Ahmedabad gMunicipal Agglomeration Area.

7.8.4.6. Ahmedabad Municipal Corporation area is the important Urban Area of the State. It is necessary to pay greater attention to the needs of this Urban Area. While provisions for Water Supplly, Housing and Slum improvement for Urban Areas are made in the relevant sub-Sectors, further specified provision is made under the Urban Development sub-sector. The schemes under this sub-sector relate to Town Planning, City Survey, Preparation of Regional Plans, Metropolitan Plan, Implementation of development Plans and Town Planning Scheme, and assistance to Municipalities as well as Urban Community Development Projects.

7.8.4.7. City Survey is undertaken under Section '95 read with Section 131 of L.R.C. It provides the basis for preparation and execution of development plams, T. P. Schemes. It provides the records (Property Cards) showing clear rights to and liabilities on each property. Such survey is also administratively useful in determining unauthorised N. A. uses, etc. City Survey maps are also useful for providing accurate topograghical details required for various development schemes. The cost is fully recoverable from property holder on completion of the work.

7.8.4.8. Till now, regular survey in Municipal Corporation limits of Ahmedabad has been under taken only for the area included within the fort wall of the City and in village sites of certain suburbs and was not taken up in the developed N. A. areas of such villages within the Municipal Corporation Limits. These areas are fully developed and covered under the Town Planning Schemes. The Urban Land Ceilling and Registration Act, 1976 covers the Ahmedalbad Municipal Corporation area, and some adjoining peripherial area. There are 23 such developing villages covered in the Urban Agglomeration area. An introduction of City Survey within this area is very useful for implementation of Urban Land Ceiling Act and for solving other administrative problems, such as for detection of unauthorised non-agricultural use, recovery of N. A. assessment, detection of encroachment of Government/Public Street Lands. Upto-date records of Rights will be prepared after detailed measurement and enquiry in respect of each property and thereby the rights, titles and interest of the private owners, Municipality and Government will be settled.

7.8.4.9. In the Fifth Plan, the theodolite work of 11 T.P.Schemes area was completed P. T. Work of 3 T. P. Schemes was completed at a cost of Rs. 3.00 lakhs. During the year 1978-79 and 1979-80, the theodolite of 15 T. P. Schemes and P. T. Work of 18 T. P. Schemes has been completed at a cost of Rs. 16.70 lakhs.

7.8.4.10. In the Sixth Five Year Plan 1980-85 provision of Rs. 100 lakhs is proposed to complete

the remaining work of P.T. measurement of 14 T.P. Schemes. Inquiry work of 32 T. P. Schemes covering 23 Villages consisting of 2.75 lakh properties and P. R. Sanad writing work of all these properties. 15 enquiries Officers of Class I Cadre can complete the Enquiry within a period of 3 1/2 years at an estimated cost of Rs. 45 lakhs. The remaining theodolite and P. T. work of 14 T. P. Schemes can be completed at a cost of Rs. 40 lakhs and Sanad and P. R. writing work of 32 T. P. Schemes can be completed at a cost of 15 lakhs. Thus, the entire remaining work of agglomeration city survey can be completed within a period of 3 to 3 1/2 years.

7.8.5.. Urban Development Programme.

7.8.5.1. As already stated the Urban Development Authorities and Area Development Authorities will require assistance at least in the initial stages of their existence. These authorities are expected to study the problems of their areas, prepare the Development Plans and Town Planning Schemes for the Development Area and to implement the proposals of the Development Plans and Town Planning Schemes. The are also expected to undertake various development programmes. They are empowered to obtain contribution from the local bodies within their jurisdiction and can levy development charge. They can also utilise the loans made available by HUDCO, LIC and Banks and also avail of assistance under integrated urban development programmes. To make them get on in the initial period, the scheme to give financial assistance in the form of seed capital to development authoritie was introduced in the Fifth Plan. The seed capital in the form of loans provided to them will form the basi of revolving funds for undertakings various projects The authorities were established towards the end o Fifth Plan and a modest loan of Rs. 10 lakhs wa given as seed capital. A loan amounting to Rs. 25 lakhs was given to Urban Development Authoritie (Ahmedabad, Surat, Rajkot and Vadodara) and two Development Authorities (Bhavnagar and Jamnagar) during last two years (1978-79 and 1979 1980). An outlay of Rs. 1000.00 lakhs is provided for 1980-85 for this purpose. In due course th benefits of open market borrowing will have to be extended to these Authorities.

7.8.6. Urban Community Development Projects:

7.8.6.I. Urban Community Development Project lay special emphasis on self help on the part of the local communities and enable the relatively disadvantaged section of the community to obtain the maximum benefits from facilities provided under varior government and municipal programmes. The natural of activities to be undertaken in a project will depend upon the needs and conditions of the area but it was be desirable that only a few selected activities.

are undertaken so that the project may take an impact Broadly the activities may cover physical improvements and civic amenities, health and sanitation, recreation and cultural activities, educational activities, economic programmes such as employment referral services credit referred services, production centres, small saving etc., looking to the long experince of all these existing projects, it is seen that economic backwardness always acted as a major brake on rapid social development so that projects were advised to pay more attention to provide the communities with tools to improve their economic status in order to accelerate their social upliftment.

7.8.6.2. In Gujarat, there are 17 projects sanctioned since starting of the scheme, out of which, 3 projects (Porbandar, Godhra and Bhavnagar-II) are discontonued. Thus 14 projects are at present located at Vadodara, Surat, Rujkot, Municipal Corporations and Bhavanagar, Jamnagar, Mahesana, Dabhoi, Khambat, Kalol, Nadiad, Surendernagar and Palanpur municipalities are functioning.

7.8.6.3. In all 16 Projects are proposed to be taken up during the period 1980-85. The UNICEF has voluntered to assist in the existing of 3 UCD projects in the slum areas of Ahmedabad city and 2 projects in the slum areas of Vadodara city. These projects will be implemented under the joint auspecious of the State Government, Municipal Corporation and UNICEF. The agreements in this regard have been already executed and the preliminary works in this regard have began. When the UNICEF withdraws from the scene, the liability is to be shared by the State Government and the Municipal Corporation in 40:60 ratio. An outlay of Rs 40.00 lakhs is provided for U.C.D. programme for 1980-85.

7.8.7. Urban Local Development Programme:

7.8.7.1. The benefits of socio-economic development should reach effectively to the people in different areas of a town or city. The different areas of a town or city must have adequate schools nurseries, playground, gardens, auditorium, reading room, recreation centers, gymkhanas swimming pools, community halls and such similar facilities. In order to improve the standard of living in Urban areas, a number of small projects at the local level can be taken up by the Urban local bodies which can bring social and cultural benefits to the people in the local area. The urban local bodies do make efforts and take necessary measures to provide these amenities. However, they do not find adquate fund to provide for such facilities to the extent necessary. There are nummber of voluntary organisations such as Lions club, Rotary Club, Charitable Institutions, Religious bodies, etc., in the towns and cities which make efforts to provide such facilities and amenties in the local areas

from their own funds and from the financial assistance and donation from the residents of the local areas and other resources. In order to encourage the urban local body and social and voluntry organisations to come up with more projects, it is proposed to augment their resources by giving financial assistance for such projects depending upon the plan priorities, merits, importance and social and economic benefits to the people for whom these projects are to be implemented. An outlay of Rs. 95 lakhs is provided for the scheme for 1980-85.

7.8.8. Loan assistance to Gujarat Housing Board, Urban Development / Area Development Authorities, Local self Government bodies to take up Urban Development Authorities.

7.8.8.1. The need to have State Level Board formulating projects for urban local bodies, approa ching the financing institutions for securing loans, channelising of these funds to these bodies and to undertake implementation and execution of the project, if necessary, recover the funds from the local bodies and repay the same to the financing agencies has been felt for long. These objects are proposed to be achieved by expanding Gujarat Housing Board to undertake urban development activities also. The Board can also formulate and implement various Urban development projects. The existing Act relating to Gujarat Housing Board requires to be amended suitably so as to expand its activities. The proposed amendment is under consideration. An outlay of Rs. 10 lakhs is provided for the Sixth Five Year plan 1980-85.

7.8.9. Assistance to Municipal Finance Board:

7.8.9.1. The Gujarat Municipal Finance Board has been consitituted under the Municipal Finance Board Act to streamline the finances of Urban Local bodies to enable them to manage their finances on sound lines, to recommend to the State Government the criteria governing the grant of loans and grants and also to disburse the loans and grants according to the criteria adopted by the Government. The Board is expected to promote and faster urban development activities in line with the thinking of the State Government. The Board has to meet with the administrative expenditure including staff, office and equipments. For this purpose an outlay of Rs. 25 lakhs is provided as grant for the Sixth Five Year Plan 1980-85.

7.8.10. Loans to Municipal Bodies.

7.8.10.1. Loans are given to Municipal bodies for Miscellaneous development activites which are not covered in the general sectoral programmes in the State plan. Loans worth Rs. 6.88 lakhs were given to Municipal bodies during the Fourth Five Year Plan and Loans worth Rs. 15.63 lakhs were advanced

during the Fifth Plan (1974-78). Loans worth Rs. 31.40 lakhs were given to Municipalities for purchase of fire fighters and for other purposes for the years 1978-79 and 1979-80. The scheme will be contined during the Sixth Five Year Plan 1980-85 and an outlay of Rs. 100.00 lakhs is provided for this scheme during Sixth Five Year Plan 1980-85.

7.8.11. Market Borrowing by Municipal Corporations:

7.8.11.1. Open market Borrowings are sanctioned to Municipal Corporations for developmental activities Loans worth Rs. 677.00 lakhs and loans worth Rs. 340.00 lakhs and Rs. 303.00 lakhs were borrowed by Municipal Corporations of Ahmedabad, Vadodara, Rajkot and Surat during the year 1974-78, 1978-79 and 1979-80, resectively. The scheme will be contiuned during the Sixth Five Year Plan 1980-85. Urban/Area Development Authorites will also need assistance by way of Market Borrowing for developmental activites. An outlay of Rs. 560.00 lakhs is provided for the Sixth Five Year plan 1980-85.

7.8.12. Environmentsl Improvement in Slum Areas (MNP)

- 7.8.12.1. The Government of India has introduced the Environmental Improvement in slum areas scheme in 1972-73 under central sector covering cities with population of 8 lakhs and more, and accordingly only Ahmedabad city was covered.
- 7.8.12.2. From 1974-75 i.e. Fifth Plan, the scheme was transferred to State Sector and taken-up under Minimum Needs Programme. The scope of the scheme was extended to the cities with a population of 3 lakhs and more. Accordingly, Vadodara, Surat and Rajkot cities were covered in addition to Ahmedabad city. However, from February, 1980, the scope of the scheme has been extended to all urban areas with municipal corporations and municipalities.
- 7.8.12.3. The scheme envisages to give financial assistance of Rs. 150/- per capita to local bodies for providing certain basic facilities and services like water supply, drainaged community latrines and bath, street lights, road improvement, etc., in the slum areas which are not likely to be taken up for clearance for next ten years. Priority is given to the slum areas situated on Government/Municipality and/or inhabited by Scheduled Castes and Scheduled Tribes particularly scavangers.
- 7.8.12.4. The services under the scheme are to be provided in the existing slums on Government or Municipal land as well as lands belonging to private oweners. The Government/Municipality lands are no longer easily available particularly in the major towns. In view of certain of stipulations in the

scheme, it has been dificult to cover the slums one private land. The scheme envisages that the land covered under slum area is to be acquired by the Government, in future, the landlord should be prohibited by the legislation for not asking additional higher compension and should nor earn any benefit on account of the ameneties provided with the assistance of Government. It is necessary to amend the land Acquisition Act suitably. The necessary amendment in the Land Acquisition Act is under way to overcome the diffculties. An outlay of Rs.500 lakhs is provided for Sixth Five Year Plan of 1980-85.

7.8.13. Intergrated Urban Development of Small and Medium Towns.

7.8.13.1. According to the strategy for Urban Development in the Sixth Five Year Plan of 1980-85 the growth of small and medium towns is required to be fostered by positive state intervention for enabling the infrastructural basic facilities of these towns to reach a desired level. The Urban local bodies due to their poor financial conditions is not in a position to cope with the widening gap in urban services. Government of India has introduced during 1979-80 a centrally sponsored scheme for the integrated development of towns below 1 lakh population according to which the assistance limited to Rs. 40 lakhs per town will be available from the Central Government as loan. The rest is to be raised by the State Government and the implementing agencies as matching contribution.

7.8.13.2. The State Government had appointed an expert committee to study the problems, potential and prospects of the development of such towns and the committee has already submitted its report. This committee has identified that the towns falling in the population bracket of 50000-100000 need to be taken up in the first phase of this programme. Accordingly, as many as 18 towns have been identified and the project formulation work therefore has begun. In addition, it would be also necessary to take up the development of the growth centres identified by the Urban Development Authorities under this scheme. During 1979–80, five projects were submitted to Governof India and all the five were admitted.

7.8.13.3. It is proposed that at least 20 towns and growth centres could be developed under this scheme during the Sixth Five Year plan 1980-85. As a part of matching contribution an outlay of Rs. 200 lakhs is provided in the Sixth Five Year Plan 1980-85, which the State Government would be disbursing as loan to the implementing agencies *i. e.* local bodies and development authorities to supplement the resources raised by them.

STATEMENT

List of Schemes included in the Sixth Five Year Plan 1980-85 Outlays

| Sect | or/Sub-Sect | or of Developments:—Urban Development. | | | (Rs. | in lakhs). |
|------------|---------------|---|----|--------|----------------|---------------------------------------|
| Sr. No. | Number a | and Name of the Scheme. | | h Five | Year Outlay | Plan 1980-85 |
| ı | | 2 | | | Cotal 3 | Capital |
| I. | Urban Deve | elopment Programme: | | | | · · · · · · · · · · · · · · · · · · · |
| 1 | UDP-1 | Seed Capital to Urban Area Development Authorities. | | 1000. | 90 | 1000.00 |
| 2 | UDP-2 | Urban Community Services-Urban Community Development Project. | | 40.0 | 00 | 7.5 |
| 3 | UDP-3 | Urban Local Development Programme. | | 95. | | •• |
| 4 | UDP-4 | Loan assistance to Gujarat Housing Board, Urban / Area Development Authorities, Local Self Government Bodies to take up Urban development activities. | | 10. | | 10.00 |
| 5 | UDP-5 | Assistance to Municipal Finance Roard. | | | .00 | 25.00 |
| 6 | UDP-6 | Integrated urban Development of Small and medium Towns. | •• | 200.0 | 00 | 200.00 |
| | | Sub-Total: | ¥. | 1370. | 00 | 1235.00 |
| II. | Loans to l | Local Bodies. | | * | | |
| 7 | UDP-7 | Loans to Municipalities for miscellaneous development activities. | | 190. | 90 | 100.00 |
| 8 | UDP-6 | Market Borrowing for miscellaneous deevelopment activities. | •• | 560. | 00 | 560 .00 |
| | | Sub-Total:-II. | | 660. | 00 | 660.00 |
| III. | Town Pla | nning and Regional Planning:— | | | - | |
| 9 | UDP-9 | Preparation of Regional Plan. | | 35 | 00 | •• |
| 10 | UDP 10 | Preparation of Development Plan and Town Planning scheme. | | 25 | 00 . | |
| 11 | UDP-II | Grant-in-aid for implementation of Development Plan and Town Planning Scheme. | | 160 | 00 | •• |
| 12 | UDP-12 | Introduction of city survey around Ahmedabad Municipal Corporation. | | 100. | 00 | |
| | | Sub-Total:—III | | 320. | .00 | •• |
| IV. | Minimum | Needs Programme. | _ | | | |
| 13 | UDP-13 | Envirokmental improvement of slums. | | 500 . | .00 | •• |

Grand Total:-

1895.00

2850.00

H-2683-70

7.9. CAPITAL PROJECT

- 7.9.1.1. Gandhinagar, the new capital of Gujarat, is situated on the bank of the river Sabarmati about 24 Kms. north of Ahmedabad City. The population of the capital township has risen to approximately 55,000 by the end of March, 1980.
- 7.9.1.2. The master plan of the township envisages the development in two phases of self-contained city with a population of about 1.50 lakhs (0.30 lakh families). The first phase contemplates development for a population of about 0.75 lakhs at an estimated cost (revised) of Rs. 4,577 lakhs. A large proportion of works to be taken up during the first phase, as also a few new works not included in the first phase, were completed by the end of March, 1980.

7.9.2. Review of Progress

- 7.9.2.1. Though the preliminary survey works, etc., for the Cupital Project were started in the year 1960-61, the actual execution of works commenced in 1966-67. The expenditure incurred prior to 1966-67 was only Rs. 151 lakhs. The actual expenditure incurred by the end of March, 1980 was Rs. 5.337 lakhs.
- 7.9.2.2. The main items of work completed by the end of March, 1980 are: The acquisition of 4,234 hectares of land; the construction of 9,698 residential quarters and administrative buildings, and of buildings for schools, colleges, dispensaries, and a hospital, the laying of main and internal roads, and the provision of water supply, drainage and electricity in 15 Sectors out of the 30 Sectors the capital project area comprises. Owing to the development of infrastructure (roads, water supply, etc.), the demand for plots has been rising. Upto 1979-80, 1436 residential plots in various sectors had been sold. Land has also been sold to religious. educationals and other institutions. Government has allotted land to the Gujarat Housing Board, anh to the Gujarat Electricity Board for the comstruction of a Thermal Power Station and to thre

Railways for railway lines and the construction of Gandhinagar Capita! Railway Station.

7.9.2.3. The achievement recorded upto the end of 1979-80 is summarised in the following table:--

| 0000 | Works | | enditure in la kh s) |
|------|---|-----|--------------------------------|
| 1. | Construction of 9698 Residentia Quarters (including 21 Bungalows of Ministers & M. L. A. Hostel with 168 units). | | 1816 |
| 2. | Construction of Administrative Buildings including Interim Sachi valaya, Sachivalaya Blocks 10, 11, 12 and 13, Assembly Building, School, Colleges, Hospitals, Office Building for the Bureau of Economics and Statistics, Circuit Househops and Office Blocks in Secton Nos. 16, Swimming Pool and Clubuilding in Sector 19, Shoppi Centres of A & B types in Secton Nos. 21 and 22. | se, | 1492 |
| 3. | Construction of 12 Kms. of Main Roads and 144 Kms. of Internal roads. | | 311 |
| 4. | Provision of Water Supply and drainage. | | |
| 5. | Provision of Electric Supply and Street lightening. | - | 1748 |
| | | | |
| | Total | | 5367 |
| | | | |

7.9.2.4. The spillover liability on account of the various works which were in progress on 1-4--1980 is estimated at Rs. 3104.85 lakhs as can be seen form the table below.

| | | | (Rs. | in lakhs). |
|------------|---|------------------------------|-------------------------------------|---------------------------|
| Sr. No. | Works. | Actual Estimated cost. | Expenditure incurred upto 31-3-1980 | over liabi- lity as on |
| 1 | 2 | 3 | 4 | 5 |
| 1. | Residential Quarters : | | | |
| a | . 1599-Nos: Residential Quarters. | 302.57 | 277.77 | 24.80 |
| b | o. Additional 4328 Residential Quarters. | 878.70 | 111.73 | 766.97 |

| 1 | 2 | 3 | 4 | 5 |
|------------|---|-----------------------|-----------------|---------------|
| 2. | a. Sachivalaya, including six blocks. | 939.44 | 497.05 | 442.39 |
| | b. Electrical installation, Lift, Water Cooler and Compoulight in Sachivalaya Complex. | u nd 234.06 | 23.23 | 210.83 |
| | c. Providing Air-condition in Sachivalaya, and Assembuilding. | ol y 127.00 | 4.5 | 127.00 |
| 3. | a. Assembly Buildings. | 300.00 | 215.42 | 84.58 |
| | b. Electrical installation, Lift, Water Cooler, Compound in Assembly building. | light 94.68 | 11.88 | 82.80 |
| 4. | Town Hall. | 51.28 | 32.45 | 18.8 3 |
| 5 . | Police Headquarters | 165.24 | 48.75° | 116.49 |
| 6. | Water Supply and Drainage. | 615.22 | 164.49 | 450.73 |
| 7. | Miscellaneous items such as Ministers' Bungalow, Secr Bungalow, Staff Training College, High School Building, et | | 1072.68 | 779.43 |
| | Total | 5560.30 | 2455.4 5 | 3104.85 |

7.9.3. Disposal of Land

7.9.3.1. Of the land liable for construction in the township the greater part is set apart for Government and public buildings. The total area of land available for disposal by Government for various purposes is estimated at 840 Ha. of this about 400 Ha. have already been disposed off, yielding a cumulative resource of over Rs. 425 lakhs by the end of March, 1980. Of the remaining land (440 Ha.), about 200 Ha. is expected to be available for residential purposes and the rest for commercial, industrial and other purposes. The land that remains available for disposal occurs partly in sectors of the township that have been developed and partly in those that have not develop.

17.9.3.2. During the period 1980-85, approximately 80 Ha. of land in the township is expected to be disposed off by Government for various purposes, yielding a revenue (estimated) at over Rs. 1190 lakes owing to the progress made in the construction of major Government buildings and in the provision of infrastructural facilities, the demand for land in the township area may be expected to rise appreciably. Accelerated development of the township would inevitably make for higher revenues from sales of land.

7.9.4. Davelopment Programme: 1980-85

7.9.4.1. The programme during the Sixth Five Year Plan 1980-85 with an outlay of Rs. 3,000 lakhs will be directed largely to the completion of the following works in progress:—

- (1) Residential quarters
 - (a) 1500 Residential Quarters (nearing completion)

- (b) 3476 residential quarters out of 4328 additional residential quarters.
- (2) Sachivalaya Building including Heads of Departments Building.
- (3) Assembly Building.
- (4) Town Hall.
- (5) Olympic Size Swimming Pool.
- (6) Building for Police H. Q. (876 Nos. of Residential and Administrative Buildings).

7.9.4.2. The major new works proposed are those for the provision of community and infrastructural facilities (School buildings, shopping centres, water supply, drainage, etc.) in six sectors and in the industrial area allotted to the Gujarat Industrial Development Corporation. The outlays proposed for the major components of the programme are as under:—

| re as under :— | <i>Outlay</i> 1980–85 |
|-------------------------------|--------------------------|
| | (Rs. in lakhs). |
| Works in progress | 2,487.84 |
| New Works. | 170.64 |
| Direction and Administration. | 341.52 |
| | 3,000.00 |
| | |

Of the major works in progress, the works relating to the Sachivalaya building and about 2,056 units of residential accommodation (including 876 units for the Police Headquarters) are expected to be completed by the end of 1981-82.

STATEMENT

Capital Project

List of Schemes included in the Sixth Five Year Plan 1980--85

(Rs. in lakhs)

| Sr. No. | | No. and Name of the Scheme | | | | Sixth Fiveyoar Plan 198085 outlays | |
|------------|-------|--|-----|-------|-------|---------------------------------------|---------|
| 1 | | 2 | · • | | | Total 3 | Capi;al |
| 1. | SCP1. | Direction and Administration | | 644- | lega | 341 59 | 341 52 |
| •• | De | Ch & Col | | | ** | 341.52 | 341.52 |
| 2. | SCP2. | Construction of State Capital Project. | | 9.5 | | 2658.48 | 2658.48 |
| | | | | GRAND | TOTAL | 3000.00 | 3000.00 |

7.10 INFORMATION AND PUBLICITY

7.10.1. Nature and Scope of Development Activities

7.10.1.1. People's involvement in development activities has always been a crucial factor in the successful implementation of plan programmes. This is more so far in regard to the Sixth Plan because we are introduing in a big way household oriented programmes for reducing poverty. The success of these programmes will depend largely on the motivation generated in the individual head of the family to take up income generating activities.

7.10.1.2. The success of the information and publicity programmes will depend upon how effectively they carry the message of the plan to remote villages, rural, backward and tribal populations. This requires a multi-media approach utilsing radio and TV broadcasting, films, exhibitions and special field publicity units for covering backward areas.

7.10.2. Programme for the Sixth Plan 1980-85:

7.10.2.1. An outlay of Rs. 85 lakhs has been proposed for Information and Publicity during the period of the Sixth Five Year Plan 1980-85. The schemewise outlays are as under:—

(Rs. in lakhs)

| | (Rs. 1 | n lakhs) |
|------------|---|-------------------------------|
| Sr. No. | Number and Name of Scheme | Proposed outlay 1980-35 |
| 1 | 2 | 3 |
| 1 (i) | PUB1. Rural Broadcasting. Establishment of Community viewing sets and rura broad casting sets. | 46.00 l |
| (ii) | Exhibitions. | 5.00 |
| (iii) | Development of Film section and Film Libraries. | 1.00 |
| (iv) | Field Publicity and coverage of tribal areas. | 6.10 |
| 2. | PUB-2. Strengthening of Information Offices. | 11.25 |
| 3. | PUB-3. Building of Publicity Offices | 15.65 |
| | Total | 85.00 |

7.10.3 Establishment of Community viewing sets and Rural Broad Casting sets

7.10.3.1. Radio and T. V. are the most powerful media of mass communication. Even illiterate people also can be approached successfully through this media to educate the common mass including those residing even in far off interior regions and informed about the policies of Government and progress achieved on different subjects like rural development, family welfare, agriculture, animal husbandry, sanitation, etc.

7.10.3.2. There are 18275 villages in the State and out of them only 7864 villages are covered under community radio listening scheme and about 638 villages under Community T. V. viewing scheme upto 31-2-1980.

7.10.3.3. During the Sixth Plan, it is proposed to install 1200 community Radio sets and 30 T. V. sets. Out of the above, it is proposed to install about 800 radio sets in tribal areas, economically backward areas and in villages where population is more than 25% of Scheduled Castes and the remaining 400 radio sets in the villages in the remaining areas of the State.

7.10.3.4. During the Plan period 1980-85, a High Power. T. V. Transmitter is proposed to be installed. The State Government is committed to provide land free of Cost. As a result of acquisition, a compensation of Rs. 20 lakhs will be required to be paid. Accordingly, a provision of Rs. 20 lakhs is made. Besides, after the Commissioning of the T. V. Transmitter, it is expected that, heavy demand for installation of Community T. V. Sets from the villages will be forthcoming. An outlay of Rs. 46.00 lakhs is, therefore, provided for the installation of T. V. Transmitter as well as for meeting with the demand of Community T. V. Sets during 1980-85.

7.10.4. Exhibition.

7.10.4.1. Among the visual media exhibitions constitute one of the most effective and powerful media both for mass education as well as for spreading the message in the urban and rural areas, irrespective of the age group factor. The due importance has therefore, been given to this effective medium. Besides, maintaining the general exhibition material, it is proposed to add atleast two more mobile exhibition units in the State during the Plan period 1980-85.

7.10.4.2. These units will move even in the remote areas and especially in the backward and tribal areas of the State. The units will, inter-alia include various visuals pertaining to developmental activities of the State, in the context of the social economic change, being ushered in, at the national and the State levels. Exhibitions will be so equipped that the schemes and programmes formulated and being implemented for the uplift of the volunerable groups are effectively and properly depicted. An outlay of Rs. 5.00 lakhs is, therefore, proposed in the Sixth Five Year Plan 1980-85 for the purpose.

7.10.5. Development of Film section and Film libraries.

7.10.5.1. A scheme of expansion of film unit by providing films and opening of film libraries is proposed to be continued during 1980-85. It is envisaged to expand the existing film units by providing additional latest cameras and technical services, scripts writers seenarist, etc., so that documentaries on plan progress as well as feature sequences for the news-reels could be produced effectively. It is proposed to have latest machinery, equipments, raw-stock, etc., for improving the standard of film3. In order to make film distribution more effective in the districts, it is proposed to provide prints of Films on loans to other departschools, colleges etc., private agencies, It is also proposed to open film libraries in the State and one central film library at the capital so as to meet with the demand of films at district level. An outlay of Rs. 1.00 lakh is proposed for the Plan 1980-85 for the purpose.

7.10.6. Field Publicity and Coverage of tribal areas.

7.10.6.1. News reels, documentaries as well as educative and training films play a vital role in field publicity and public relations and therefore fuller utilisation of this media is a matter of prime importance particularly in the tribal areas. To achieve this objective, a publicity van equipped with one projector, generator, films, allied equipments and publicity literature, will tour in tribal areas of

the respective districts of the State. Two information Centres are also proposed to be established in tribal areas. An outlay of Rs. 6.10 lakhs is, therefore, proposed for the Sixth Five Year Plan 1980-85.

7.10.7. Strengthening of Information Centres.

7.10.7.1. In order to implement various schemes proposed in the plan, it would be necessary to strengthen information offices at the Head quarter as well as at district level by providing necessary specialised and trained staff and also by providing latest equipments and machinery to gear up the publicity drive. It is also proposed to equip the information offices with the following facilities.

- 1. Uptodate and modern press-room
- 2. Film Auditorium
- 3. Reading Room
- 4. Enquiry desk
- 5. Educational Bureau
- 6. Reference Library
- 7. Research gallery
- 8. Exhibition Units

7.10.7.2. For this purpose an outlay of Rs. 11.25 lakhs is proposed for the Plan 1980-85.

7.10.8. Building for Publicity Offices

7.10.8.1. The work of construction of two office buildings at Amreli and Himatnagar is on the verge of completion. During the Plan 1980-85 it is proposed to construct three more office buildings for District Offices with sufficient facilities. An outlay of Rs. 15.65 lakhs has been proposed for the period of Sixth Five Year Plan 1980-85.

7.11 LABOUR AND LABOUR WELFARE

7.11.1.1. This sub-sector includes the development programmes pertaining to the activities relating to Labour and Labour Welfare and Employment Service and Training. A total outlay of Rs. 4000.00 lakhs is proposed for the programmes under this sub-sector for the Sixth Five Year Plan 1980-85. Broadly the break up of the proposed outlay is as under:—

(Rs. in lakhs)

| | No. | | Proposed Outlay for 1980–85 |
|-----|-------------|-------------------------------------|-----------------------------------|
| | Lab | our and Labour Welfare | 3 |
| 1. | Lag | | 3 |
| | (a) | Industrial Relations | 585.00 |
| | (b) | Working conditions and | - |
| | | \mathbf{safety} | 15.00 |
| | | TotalI | 600.00 |
| II. | Em | ployment Service and Training | ng |
| | (a) | Direction and Administration | 105.00 |
| | (b) | Education and Training | 2025.00 |
| | (o) | Research and Statistics | 11.00 |
| | (d) | Schemes for the educated unemployed | 1241.00 |
| | (e) | Other expenditure | 18.00 |
| | | | |
| | | Total—II | 3400.00 |
| | | Grand Total | 4000.00 |

The following paragraphs highlight the major development activities undertaken and envisaged in the Sixth Plan 1980-85 under this sub-sector.

7.11.2. Industrial Relations scene in Gujarat:

7.11.2.1. Owing to the progressive and pragmatic policies followed by the State Govt., there has been tremendous expansion of infrastructure base and the net work of supporting agencies, which has resulted in the State's taking rapid strides in the field of industry. The industrial base of the State, which was founded on textile mills, has been diversified as well as expanded many-fold. Industrial peace and tranquillity in

State has made significant contribution to the achievement of such rapid progress. It has been possible to attract industrialists from outside State and also to encourage local entrepreneurs to undertake varied enterprises due to the congenial industrial atmosphere of Gujarat. This success has been made possible by the effort of the disciplined workers of Gujarat as well as the enlightened managements with the support of the Industrial Relations Machinery of the State which has been always vigilant in anticipating labour situations and resolving the disputes as and when they arise by using the methods of negotiation, mediation, conciliation, arbitration, adjudication and other lawful means for resolving industrial disputes. The combined efforts of the Industrial Relations Machinery, the entrepreneurs workers and their unions have been instrumental in enabling the State Govt. to implement various measures for the growth of industries in the State, as the result of which the State occupies the second position industry-wise among all States in India and has the reputation of one of the fastest industrialsiing State in the country.

7.11.2.2. The last decade in the economic life of the State is marked by a steady climate of industrial peace as would be evident from the following facts.

7.11.2.3. There has been a substantial growth in the large, medium and small scale industries with the concamitant increase in the number of workers. The number of Trade Unions has increased from 773 to 978 in last five years i.e. from 1975 to 1979. During this period the number of registered factories has gone up from 9070 with 5.35 lakh workers in 1975 to 11887 factories with 6.39 lakh workers in 1979. According to available information, the number of strikes and lockouts and mandays lost due to them during these five years were as follows:—

| Year 1 | No. of strikes and lockouts | mandays lost (in lakh) | % to mandays lost in all India 4 |
|-----------|-----------------------------------|---------------------------|---|
| 1975 | 77 | 1.78 | 0.86 |
| 1976 | 56 | 0.43 | 0.35 |
| 1977 | 171 | 3.34 | 1.73 |
| 1978 | 174 | 3.40 | 1.77 |
| 1979 (P) | 220 | 5.33 | 1.23 |

The loss of mandays per worker in Gujarat (all--India figures shown in brackets) was 0.34 (3.59), 0.08 (2.09), 0.62 (3.26), and 0.63 (3.25) during the years 1975, 1976, 1977 and 1978 respectively.

7.11.3. The approach to labour Policy

7.11.3.1. In broad terms the chief objective of the labour policy of the State during the Sixth Plan is to improve the existing legislation and other provisions intended to protect the interests of labour, to continually monitor continually monitor their working and to assure that these provisions implement the directive principles in the Constitution insofar as they contained in the and also subserve the larger labour, \mathbf{relate} to poverty national goals of eliminating ensuring full employment. The State Govt. has to ensure the right of workers to peaceful agitation if justice is denied to them, encourage mutual settlement, collective bargaining and voluntary arbitration, intervene in favour of the workers ensure fairplay \mathbf{and} justice, participative management, ensure reasonable and wages alongwith augmenting of production productivity, and, above all. increase in maintain industrial peace, without, which economic growth would be impossible. Over the years, have been increasingly realised in goals these the case of organised and urban workers. However, not much has been done for the improvement of the working and living conditions of the agricultural labour, who constituted about 22 % (18.87 lakhs) of the total number of workers in the State according to 1971 census. Handicapped by years of economic and social subjugation, and unaided by strong organisation, they have not been in a position to express their grievances with as much effectiveness as their counterparts in the organised sector have done. They have also not benefitted to any significant the progress in agriculture brought extent by about by the green revolution. So, is the case with migrant and unorganised labour, who, due to the very nature of their work, continue to be exploited. The thrust of the labour policy of the State during the Sixth Plan would therefore be on giving a better deal to the underprivileged workers consisting of agricultural sections contract labour, migrant workers and workers in other unorganised categories. Surveyidentifying their pressing ing their conditions, handicaps, strangthening locating $_{
m their}$ their organisations, regulating their wages and working conditions and implementing schemes their welfare would form the main plank of the labour policy during the Sixth Plan.

7.11.3.2. In the field of industrial relations State intervention would continue to play an important role to restore normalcy as quickly as possible, whenever

there is work stoppage, so that loss of production, mandays and wages is kept to the minimum. Frequent strikes and lockouts on flimsy grounds and ge-slews are situations that a poor country like ours can ill afford. The State Govt. has to keep in view not marely the interests of the labour and managements but also the broad social and economic goals berefitting the community as a whole. The substantive and procedural laws enacted to regulate industrial relations have to be effectively implemented to fulfil these goals. It shall be the State Govt.'s endeavour to strengthen and streamline the institutional arrangements developed for evolving and implementing labour policies and programmes and remove their shortcomings. It is essential to direct the industrial relations machinery to the main objectives and, in order to do so, to anticipate events, pre-empt situations leading to work stoppages and in the event of work stoppages occuring, to inter vene quickly and effectively. On the whole, the working of the industrial relations machinery has to become more purposeful and result-oriented than formal and procedure-oriented. A new sense of dynamism has to be infused in their working, by training, refresher courses and research.

7.11.3.3. In regard to the unorganised sector, what is called for is more innovative and experimental initiatives to formulate a total strategy that would lead to the ameliration of the conditions of the workers in this sector. A lot has to be dene to build a network of institutions which will foster and sustain the welfare measures aimed at improving the lot of this section of workers. Reorganising and strengthening the regulatory machinery created for the implementation of the laws is the sine quannon for this task. This would go hand in hand with studies and research into the problems of these workers to obtain a better insight and concurrent evaluation of the schemes.

7.11.4. Review of Progress

7.11.4.1. The Industrial Relations Machinery for conciliation, adjudication and arbitration has been strengthened from time to time over the years to cope with the increasing volume of work. While this arrangement made mainly for the organised sector of labour has been growing, increasingly more attention has been paid to the programmes meant for the workers in the unorganised sector aso. The programmes for protection and welfare of unorganised and unprotected labour, training to trade union workers, enforcement of the Payment of Gratuity Act, 1972, safety measures for prevention of accidents, implementation of Minimum Wages Act and grant-in-aid to trade unions and social institutions for socially desirable objectives are some of more significant measures already taken by the State Govt. In addition, machinery has been created for enforcement of the Payment of Bonus Act, 1965, the Bidi and Cigar Workers (Conditions of Employment) Act, 1966, the Contract Labour (Regulation and Abolition) Act, 1970 and the Payment of Graduity Act, 1972.

- 7.11.42. In the ultimate analysis, the problem of industrial relations is essentially one of the attitudes of the parties concerned. In order to foster the spirit of co-operation along with safeguarding the rights and interests of the parties concerned, Joint, Management Councils have been constituted by making statutery provisions in this regard in the Bombay Industrial Relations Act, 1946 and the Industrial Disputes Act, 1947. To assess the conditions of the unorganised and unprotected workers, several surveys were conducted in the past. The Mahatma Gandhi Institute of Labour Studies has been established with the objectives of improving the quality of data, imparting training to, officers of Labour Department, and Labour Judiciary and trade union leaders and carrying out studies relevant to labour and employment.
- 7.11.4.3. In September 1977, the State Govt. appointed an ad-hoc tripartite Committee consisting of the representatives of employers, employees and Govt. under the chairmanship of Shri V.R.Mehta, for suggesing wavs and means for effective enforcement of the Minimum Wages Act, agriculture. The Committee submitted its report to the State Govt. in April 1978. The Committee made recommendations regarding simplification of forms which are required to be maintained by the agriculturists employing agricultural labour and the creation of a separate machinery for the enforcement of minimum wages in the employment in agriculture. The State Govt. has created 73 posts of Asstt. Govt. Labour Officers for being posted in talukas which have more than 10,000 agricultural labourers. 20 Govt Labour Officers also have been working for the implementation of the Minimum Wages Act in agriculture. Recently, the State Govt. has created a separate organisation of Rural Labour Commissioner to pay concerted attention to the implementation of Minimum Wages Act in the employment in agriculture and also to administer social security and welfare programmes for rural and agricultural labour. Advisory Committee has been constituted by the State Govt, for the purpose of revision of minimum wages employment in agricul thre and for recommending on allied matters so as to enable the tate Govt. to implement the law effectively but without harassment.
- 7.11.4.4. Considerable attention has been given to ensuring safety, hygiene and conducive working conditions for workers. The organisations of the Chief Inspector of Factories and the Chief Inspector of Steam Boilers have been in existence to implement the provisions of the Indian Factories Act and the Indian Boilers Act. These organisations have been strengthened to cope with the fast expanding number of factories and they would be further strengthened according to the needs of the situation in future.

7.11.5. Employment Servive and Training:

- 7.11.5.1. The number of the unemployed in the State has risen dramatically in recent years as against 1.58 lakh persons registered at Employment Exchanges at the end of 1970-71, unemployed persons on the Live Registers at the end of 1978-79 numbered 4.18 lakhs. It is thus necessary not only to increase employment opportunities but also to enhance the employability of job seekers through the provision of facilities for the acquisition of marketable skills. The Apprenticeship Training Scheme (which is a mode of "earning while learning") the Craftsmen Training Scheme and the module approach for short-term skill formation courses are significant in this context since they serve to open up avenues of both wage and self-employment.
- 7.11.5.2. At the end of the Fifth Plan 1974-79, the employment service in the State include:—
 - (a) an Employment Exchange in each district (seventeen of the nineteen Exchanges having a Vocational Guidance Unit attached to them).
 - (b) University Employment Information and Guidance Bureau at Five University towns.
 - (c) A Special Employment Exchange for the physically handicapped at Ahmedabad.
 - (d) Fourteen Employment Information and Assistance Bureau at taluka towns (to overcome difficulties experienced in registration/renewal by rural candidates.)
 - (e) Two Special Vocational Guidance Units in the tribal areas.
- 7.11.5.3. These facilities were augmented during the period of Annual Plans 1978-80 by establishing seven special Employment Exchanges in tribal areas replacing four Employment Information and Assistance Bureau and converting two Vocational Guidance Units, a Town Employment Exchange at Porbandar, a Job Development Unit in the Directorate of Employment and Training to explore the possibilities of employment in the private sector. Machinery in the Directorate for the enforcement of the provisions of the Compulsory Notification of Vacancies Act, 1959 was also strengthened during this period.
- 7.11.5.4. The Craftsmen Training Scheme is directed to developing skilled manpower for different operating levels in various industries, training under the scheme is imparted at Industrial Training Institute (ITI'S.). At the end of 1979-80, there were 22 Industrial Training Institutes in the State with a total intake capacity of 8040 including Girls Wings with an intake capacity of 64 each started during 1979-80 in the Industrial Training Institutes

at Gandhinagar and Vadodara and three Statelevel diversified courses (intake capacity 152) have been run at the Industrial Training Institutes at Ankleshwar and Dahod since the Fifth Plan period for the benefit primarily of tribal youth. An advanced Vocational Training Institute has been set-up at the Industrial Training Institute, Vadodara with UNDP, assistance for advanced training to candidates spensored by industries.

7.11.5.5. The National Apprenticeship Training Scheme under the Apprenticeship Act, 1961 envisages systematic on-the-job training in industrial trades leading to, both wag: and self-employment. Expansion under the scheme from its inception on 1st January, 1933 is indicated by the increase in the number of sanctioned seats.

| At the end of | Sanctioned seat under the App- renticeship Trg. Scheme (Nos.) |
|---------------------------------|---|
| Third Five Year Plan (1931-66) | 626 |
| Three Annual Plans (1966-69) | 1581 |
| Fourth Five Year Plan (1969-74) | 3431 |
| Fifth Five Year Plan (1974-78) | 6938 |
| Annual Plan (1973-79) | 7988 |
| Annual Plan (1979-80) | 12000 |
| | |

7,11.5,6. The number of seats allotted to industrial units which was 8,677 on 31st August, 1978 has risen to 11,681. The three Govt. Industrial Training Workshops in the State (Ahmedabad-10 courses, Vaded ra-2 courses, Rajket-3 courses) have a total intake capacity of 720 seats. These Workshops are intended to provide training facilities for industrial workers and their dependents.

7.11.5.7. Short-term courses of job-oriented training were introduced in 1970-71 towards increasing the employability of the educated unemployed. These courses which are run through Productivity Councils, Industrial Training Institutes, Polytechnics etc., have reference to such disciplines as Office Management, Secretaryship and Taxation, Computer Programming, Salesmanship, Industrial Engineering and Materials Management and such occupations as Stenographer, Receptionist-cum-PBX Operator, Driver-cum-Mechanic of Trucks/Autorickshis. The minimum educational qualification for admission varies, graduaees, matriculates and non-matriculates are eligible for different courses. By the end of 1979-80, a total of about 27,000 persons had availed of these courses since their inception.

7.11.5.8. Two Multi-purpose workshops were established in the tribal areas of the sState during the Fifth Plan period, these workshops which are intended to provide practical job training have a total intake capacity of 224 seats (Dahod 128, Mandvi 96). In 1979-80, the establishment of 19 Mini Industrial Training Institutes (intake capacity 2024) were senctioned towards augmenting the lavilability of training facilities, for tribal youths in Tribal Sub-Plan areas. Of these, 16 had commenced functioning by the end of 1979-80.

7.11.6. Programme for Labour and Labour Welfare for 1980--1985:

7.11.6.1. Outlays of Rs. 600.00 lakhs are proposed for the Labour and Labour Wolfare programmes during the Sixth Five Year Plan 1980-85. Broad break up of the proposed outlay is as follows:-

| | (| Rs. in lakhs) |
|------|-------------------------------|------------------------------------|
| | Programme | Outlay proposed for 1930–85. |
| Labo | ur Welfare | |
| (1) | Industrial Relations | 585.00 |
| (2) | Working conditions and safety | 15.00 |
| | Total | 600.00 |

Industrial Labour:

7.11.6.2. During the Sixth Plan period, it is proposed to strengthen and streamline the machinery which is already in existence for industrial relations. The machinery will be strengthened by opening offices of the Assistant Commissioners of Labour in various districts where there are no such offices at present, by increasing the number of Government Labour Officers and by providing transport for increasing mobility of the officers. Special attention will be paid to the growing industrial belts like Valsad, Vapi, Bharuch, Ankleshwar, Jamnagar and Porbandar. Expansion of the set up of Factory Inspectorates and assistance to the Safety Councils are other aspects which deserve mention in this connection. It is also proposed to devise training programmes for the officers to improve their under standing and knowledge of labour laws and labour situations. The Mahatma Gandhi Institute of Labour Studies are expected to play a leading role in this regard. The total outlay proposed for different programmes of industrial labour is Rs. 349 lakhs.

Agriculture Labour:

7.11.6.3. Agriculture labour constitutes about 22 % of the total work force in the rural area.

Most of the agricultural workers are either landless or belong to SC/ST and other backward communities. Their problems are compounded by escasonal unemployment, low and uncertain income and nutritional defficiencies. Their organizational strength is poor.

7.11.6.4. One of the significant measures taken during the Sixth Plan is to create a separate organisation of Rural Labour Commissioner. The field organisation already created for implementation of the minimum wages in the employment in agriculture comprising of Government Labour Officers and Assistant Government Labour Officers has been transferred to this new Head of Department. This Department will be strengthened further if necessary, to achieve effective implementation of minimum wages in agriculture.

7.11.6.5. The agriculture workers find it extremely difficult to earn their livlihood when they glow old. A pension scheme for them involves huge financial outlay. Nevertheless, the State has decided to make a beginning in this direction. To start with, the existing general scheme of old age Pension scheme has been liberalised in respect of agricultural workers of 69 years of age and above, whose family income does not exceed Rs. 609 per annum. They would get Rs. 15 per month more (i. e., a total of Rs. 45 per month including Rs. 30 per month under the general scheme), under the plan Scheme.

7.11.6.6. The condition of the agricultural labourers cannot be improved only by ensuring the payment of minimum wages. Socially and educationally they belong to the lowest strat of the society. In order to bring them on per with others, it would be necessary to devise welfare measures. It has been therefore, envisaged to establish a Rical Workers' Wolfare Board to exter to their welfare, educational, recreational and cultural needs. The Board will run Rical Workers Wolfare Centres which are expected to grow as notal points for co-ordinating and champlising the various schemes of which the rural workers can take benefit. An outlay of Rs. 145 lakhs is proposed for the schemes meant for agricultural labourers and rural workers.

Unorganised and unprotected labour

7.11.6.7. Unorganised labour due to their very nature become victims of explantation of several kinds. It is proposed to take up different programmes for the amelioration of their condition.

7.11.6.8. During the Sixth Plan it is proposed to start a Group Insurance Scheme for employees of sheps and commercial establishments who are not getting the advantage of Provident Fund Scheme. The necessary legislation in this regard has been enacted already and the scheme has come into operation from 1st January 1931. The scheme

envisages payment upto Rs. 2,500 to a qualified. employee in the event of his death while in service. A nominal premium is paid by the employer and employee and the scheme will be operated under the joint auspices of the LIC, Labour Dopartment and the four Municipal Corporations of Ahmedabad, Vadodara, Rajkot and Surat where the scheme is introduced in the first stage. The scheme may be extended to further areas in due course of time.

7.11.6.9. The Gujarat Unprotected Manual Workers (Regulation of Employment and Welfare) Act, 1979 has been enacted for the benefit of unproteeted manual workers. Under this Act, a Statutory Board has already been setup for the manual workers of cloth markets and shops in Ahmedabad. The Scheme is to be implemented from April 1981. The State Government has given loan assistance to this Board till it become self reliant. It is also proposed to establish more such Boards for different sections of unprotected manual workers during the Sixth Plan. An outlay of Rs. 23 lakhs is proposed for various activities connected with unprotected workers during the Sixth Plan.

Contract Labour

7.11.6.10. The contract Labour Advisory Board has been in existence for many years. The activities off the Board have been revamped to make its functioning more effective and speedy. This includes augmenting the staff and providing transport for the Board.

Migrant Labour

7.11.6.11. There is considerable seasonal migration of agricultural and construction labourers in search of jobs. It is necessary to pay attention to edlucational and nutritional problems of the children of such labourers. It is proposed to take up a scheme umder which it is proposed to give grant-in-aid to those institutions which can undertake the task of imparting primary education and provide nutritional care to the children upto 10 years. The provision during Sixth Plan is Rs. 10 lakhs for this scheme.

Bonded Labour

7.11.6.12. The available surveys indicate that the system of bonded labour is hardly prevelent in the State of Gujarat. However, in order to make all possible efforts to trace out the cases of bonded labour, if any, and to eradicate the same, it is proposed to carry out intensive surveys especially in the backward and tribal areas of the State. It is also proposed to take up a scheme in conjunction with the Government of India's scheme for rehabilitating them during the Sixth Plan. A provision of Rs. 5 lakhs is proposed for these purposes during the Sixth Plan.

Workers Participation - Joint Management Councils

7.11.6.13. The constitution of Joint Management Council is important from the point of view of participation of workers in the industry. Such councils will go a long way in preventing settling the disputes expeditiously. The constitution of such councils was made mandatory in the State for certain industries covered under the Bombay Industrial Relations Act, 1946 and the Industrial Disputes Act, 1947. Accordingly, Joint Management Councils in cotton textile industry and other industries were formed in 1976 and were re-constituted in 1979. A provision of Rs. 5 lakhs is made for a scheme of undertaking evaluation studies regarding the working of such Joint Management Council.

Strengthening of Machinery and Other Schemes

7.11.6.14. In order to cope with the increasing volume of work arising out of the variety and multiplicity of factories it is considered necessary to strengthen the establihment of Inspectorate of Factories during the Sixth Plan. For this purpose an outlay of Rs. 10 lakhs is proposed. Similarly for opening more offices under the labour wing and also to increase the mobility of the Officers by providing conveyance facilities, a provision of Rs. 15 lakhs is made. To improve the system of collection of data a provision of Rs. 5 lakhs is made. Modernization of library in the Office of the Labour Commissioner would be done with an outlay of Rs. 2 lakhs and a provision of Rs. 6 lakhs is made for training of tade union workers.

Workers Stadium at Ahmedabad

7.11.6.15. Under the Scheme it is proposed to construct a suitable building for workers' Stadium at Ahmedabad in the vicinity of the Lal Bahadur (Malek Saban) Stadium in Bapunagar area which is a concentrated working class locality in the city. Under the scheme it is intended to provide the necessary equipment and modicus of staff to look after the activities of the Workers' Stadium. It would also provide for open-air theeatre which can be utilised as a pavilion as well as stage for open air cultural programms. It is intended to provide indoor games facilities as well as outdoor games facilities. To start with, during the year 1980-81 it is intended to hire suitable accommodation in the Bapunagar area where the proposed activities can be undertaken so long as workers' Stadium is not constructed.

7.11.7. Programme for Employment Service and Training for 1980--85

7.11.7.1. Outlays of Rs. 3400.00 lakhs are proposed for the Employment Service Training Programmes during the Five Year Plan 1980-85.

| | Programme | Outlay | (Proposed |
|-------------|------------------------------|---------|-----------|
| | | 19 | 8085 |
| II. | Employment Service & Traini | ing. | |
| (a) | Direction & Administration | | 105.00 |
| (b) | Education & Training. | | 2025.00 |
| (c) | Research & Statistics. | | 11.00 |
| (d) | Scheme for the educated unen | nployed | 1241.00 |
| (e) | Other expenditure | | 18.00 |
| | Total | lII | 3400.00 |

7.11.7.2. The process of development set in motion by the plan investments in the primary, secondary and tertiary sectors leads to employment generation. But merely creation of jobs does not need to more employment for the needy families. There has to be an agency which links the ϵ mployers and the employment seekers and makes an acetive centribution to matching the job requirements with the abilities of the job seekers. The employment service will be geered to play this role more and more effectively in consonance with the distributive justice objective of the State policy. The employment service in the district will be given a new role of participating in the formation of the district employment plan by its representation on the district employment generation council. This will result in a new role of advising the registered candidates about new evenues of wage or self-employment instead of merely concentrating on its traditional role of obtaining mere placement against the notified vacancies. The programmers would also be suitably modified to lead to a better identification of the more needy families especially those in which no member has gainful employment. It is proposed to cover the rural areas of a few districts more intensively providing suitable mobile vans to the district employment exchanges. Three more special Employment Exchanges for physically handicepped would be started under the scheme of the Directorate of Social Defence to pay special attention to the employment of physically handicapped. The employment data would be improved by more vigorous implementation of the Compulsory Notification of Vaccancies Act. Door to door survey of the new establishments which are required to be brought to the employers register and undertaking area skill surveys of few district vhich are showing an accelerated industrial growth. The bigger Employment Exch anges would be bifurcated to lead to more effective service to the employment seekers. The construction of buildings for Employment Exchanges will be undertaken for those which do not have proper buildings.

Overseas Employment:-

7.11.7.3 Due to a large scale development taking place in the countries of middle cast, the need for manpower in such coentries is yery considerable. This lead to a phenomena of emigration of skilled, semi-skilled and unskilled workers particularly to the countries of 1 iddle cast for gainful employment. At pre ent promotion of such employment is being undertaken! y private agencies which fail to safeguerd the contractual rights of the camdidates. It is proposed to set up a cell in the Directorate for providing an agency to such candidates for reporting their grievancies on which suitable action could be taken by the Government. It is also proposed to gradually increase the scope of this cell to actively promote overseas employment by establishing contacts with reputed employers in such countries.

District Employment Council:--

7.11.7.4 In order to promote a mutually beneficial relationship among education, employment and dewelopment, a decentralised approach is necessary amd District Development Centres would play a very important role for employment planning. It hes, therefore, become necessary to set up an Employment Generation Council at the district level. This Council will consist of eleven members with Collector as Chairman, District Panchayat President as Co-Chairman and other members will include the following.

- (a) Two MLAs of the District.
- (b) Chairman, District Co-operative Bank.
- (c) A representative of the lead bank.
- (d) District Development Officer.
- (e) General Manager, Dist. Industries Centre.
- (f) Project Officer, Special Programmes.
- (g) District Panning Officer.
- (h) Dist. Enployment Officer-Member secretary.
- 7.11.7.5 The Council shall prepare an integrated district plan which will help to provide jobs in the Industrial, Agricultural and service sectors. It will also ensure that the District Employment Plans and the District Credit Plans are mutually supportive of each other. The constitution of the Council will also provide for incorporating the ideas and concept of programmes for employment generation set forth by the State level employment body.

Physically and Mentally Handicapped:--

7.11.7.6 Inspite of the fact that 4% of vacancies have been researed by the State Covernment for the physically and mentally hand capped, special efforts are required for the placement of physically and mentally hand capped candidates registered with Employment Exchanges not only with Goverment and public sector units but also with the private sector establishments. This work is being done by the special Employment Exclarge for physically Hand capped in Ahmedal ad and by respective Employment Exchanges in other districts. It is proposed to start three more special Employment Exchanges in three major towns of the State to increase the placement of physically and mentally handicapped through special and intensive efforts. Funds for these three Special Employment Exchanges will be provided by the Social Defence Directorate of the State and the scheme will be implemented by the Director of Employment and Training.

7.11.7.7 Since there is a waiting period before employment can be secured for physically and mentally handicapped the State Government has decided to extend the Retention Allow; nee Scheme to the Physicaly and mentally handicapped who were registered on the live Registers of the Employment Exchanges on or befroe 30-6-1979. The Retention Allowance beneficiaries are attached to Government and semi-Government offices with a view to provide them opportunities of knowing working of these offices and improve their employability through interacton with employees as well as employers. They are paid Rs. 50/75 and 100 per month respective.y depending on their academie qualifications of matriculation, graduation or diploma in technical subjects and postgraduation or degree in technical subjects for part time work in such offices for one hour, one and a half hours and two hours respectively.

7.11.7.8 Special efforts for self-employment of physically and montally handicapped will also be necessary to provide them with gainful employment i a large number than would be possible by merely promoting wage employment. The State Government will take steps to make institutional arrangements and give monetroy assistance for increasing the scope of self-employment of physically and mentally handicapped.

7.11.7.9 In order to increase the employability of physically handicapped it will also be necessary to give them more opportunities in vocational and skill-formation courses conducted by the Directorate. It has been decided to give special preference to physically and mentally handicapped in admission with the help of Vocational Rehabilitation Centre of Government of India for assessing their suitability for such courses. Such training will preare them for securing gainful, wage or self-employment more expenditiously.

Craftsmen Training Scheme:--

7.11.7.10 The features of the programme under the Craftsmen Training schemes during 1980-85.

| | Item | Unit | Physical target |
|-------------|--|---|-----------------|
| | | • 0 | 1980–85 |
| (a) | Establishment of new ITIs (inclu- cluiding 1, ITI for women). | I.T.Is establi- shed/addi- tional seats (Nos.) | 5/1,000 |
| (b) | Increase in intake capacity of subcted ITIs. | | 2,836 |
| (0) | Expansion of buildings housing I.T.Is. | ITIs covered (Nos.) | 12 |
| (d) | Construction of ITIs of. | I.T.Is covered (Nos.) | |
| | (i) Buildings | | 5 |
| | (ii) Staff quarters | 3 | 16 |
| | (iii) Hostels | | 10 |

7.11.7.11 The programme envisage, in addition to the provisions of physical facilities, an increase in intake capacity from 8040 seats at the end of 1979-80 to 11,876 seats at the end of 1984-85.

7.11.7.12 A special provision for admission to the dependents of small and marginal farmers, rural artisans, landless labourer and the families living below poverty line has been made at Rural ITI, Sarkhej.

7.11.7.13 Those families who have no earning members and whose income is below Rs. 4800/-per an ium will be given a facility for training to atleast one of their members. This will ultimately result in providing gainful employment through vocational training to at least one member per family.

7.11.7.14 One third of the trainees in the ITIs are given stipend on merit-cum-means basis. An upward revision would be made in the amount of stipend to provide relief to the students belonging to the scheduled tribe, scheduled caste and other indigent families.

7.11.7.15 To upgrade the skill of industrial workers, an advanced vocational training scheme is

in operation at the ITI, Vadodara. It is proposed to extend these facilities to three other ITIs located in towns where there is a large number of industries. The total estimated cost for the scheme is Rs. 15 lakhs.

Career Development Scheme:--

7.11.7.16 With the active involvement of he Universities, scientific establishments, local training and educational organisatons career development courses are proposed to be started in rural areas also. This will lead to higher employability in the matriculates and non-matriculates categories.

National Apprenticeship Training Scheme:

7.11.7.17. It has been decided to accelerate the implementation of the National Apprenticeship Training scheme which is one of the items of 20-points programme. Accordingly, the number of sanctioned scats under the scheme is proposed to be increased to 17,000 during 1980-85, 5000 additional scats are to be sanctioned by the end of 1984-85. Provision is made in the 1980-85 programme for:—

- (4) the establishment of four Basic Training Centres (for the provision of basic training facilities and related instructions to apprentices).
- (b) the strong-honing of the Directorate of Employment and Training to enable it to discharge the additional supervisory responsibility arising from the increased number of sanctioned seats.
- (c) The increase in hostel facilities for apprentices.

Training for skill formation:

7.11.7.18. An increase in educated unemployment is a do-tabilising factor in our country leading to general dis-satisfaction and sporadic social unrest as large number of candid tes having qualifications of matriculation or above registered with the Employment Exchages are waiting for longer periods in securing gainful employment. The main reason for such a situation is the fact that more possession of educational qualiafications is no longer adequate for securing employment. It has therefore been decided to launch a programme for incressing opportunities for training in trades and vocations which lead to quicker employment. For this purposa, existing training schemes for skill formation with various departments will be enhanced and the number of trainees under each scheme would be increased to tackle the problem of educated unemployed on a war-footing. Educational institutions having capacity to train more educated unemployed would be given

adequate grant-in-aid for increasing/setting up training facilities for skill farmation, such a measure is expected not only to make more skilled or semi-skilled workers available for industrial development of the State but will also lead to self-employment in the production as well as service sectors in the rural and urban areas. It is expected that 31,000 more matriculates would be provided with avenues for training for skill formation per amount by 1984-85. Of thes, 15000 willbe under ITIS.

Scheme for the Educated Unemployed:-

- 7.11.7.19. The short-term job-oriented courses run to increase the employability of the educated unemployed are proposed to be so extended and diversified as to benefit both a large number of youth in rural areas and the physically handicapped. Further, in order better to match the needs of identified target groups, a measure of restructuring of the courses is proposed.
- 7.11.7.2). In view of the magnitude of unemployment amongst educated youth, the programme for 1980-85 envisages the maintenance of the following facilities /services created during 1978-30 and where possible, an increase in their coverage.
- (a) Additional se ts (256) in ITIs in the disciplines/trades of Refrigeration and Air-conditioning, Motter Mechanic, and Instrument Mechanic.
 - (b) Mini I. T. Is in Tribal areas (the programme for 1930-85 envisiges the setting up of the three Mini ITIs that, though sanctioned, were not set up by the end of 1979-80, and the construction of buillidings, staff quarters and hostels for all Mini. ITIS.
 - (c) Short-term training courses for candidates for recruitment to the Defence Service (an increase in the number of training centres from three to ten is proposed during 1980-85).
 - (d) Pre-service examination training for scheduled Caste and scheduled Tribe candidates (this scheme is implemented through the Directorate of Social Welfare)
 - (e)Stipendiary employment for unemployed trained graduates under the scheme of coching facilities for school drop-outs (this scheme is implomented through the Education Department).
 - (f) Informal apprenticeship:—type training in skilled trades such as Masonary, Carpantry, Plumbing, Blocksmithy etc.
 - (g) Margin money to skilled workers and small entrepreneures to enable them take up self-employment (this schme is implemented through the the Industries Department.)

- (h) Financial assistance to enable persons trained in recognised vocational training institutions (for such vocations as electrician, Refrigeration Machanic, Carpenter and Mason) to take up self-employment (this scheme is implemented through DICS.)
- (i) Monetary relife, through the payment of a a retenation allowance against part-time work/vocational training to persons belonging to indigent families who—
 - (i) do not belong to the SC/ST and have remained unemployed for 5 years or more on the live register of Employment Exchange on 30-11-79.
 - (ii) Belong to the SC/ST and have remained unemployed for 3 years or more on the live Register of Employment Exchange on 30-11-79.
 - (iii) Are physically handicapped and have remained unemployed for six months or more on the live Register of Employment Exchanges on 31-12-79.
 - (iv) Have no regular earning member in their families and were on the live Register on 31-3-80.
- (j) Employment Information, through the supply, free of cost of the publication, Rojgar Samachar, to hard-core applicants on the live Register of Employment Exchanges.

Scheme for self-employed:

- 7.11.7.21 In order to encourage self-employment which is imperative in view of large number of unemployed in the State, certain measures were initiated during 1979-80 to encourage self-employment.
- 7.11.7.22 District Industries Centres were asked to implement the scheme of Margin Money to skilled workers and small entrepreneurs to enable them to take up self-employment. This scheme has improved the scope for self-employment and is proposed to be continued during the current plan. It is expected that with provisions of infrastructural facilities in taluka places the benefit of this scheme would be taken by those who are able to give some contribution for establishing self-employment ventures.
- 7.11.7.23. The scheme for providing financial assistance to enable the persons trained in recognised vocational and technical training institutions to take up self-employment was introduced in 1979-80 and is expected to gain momentum during the period of current plan. with the enhancement of training

facilities, this scheme would be useful in providing avenues for self employment for those technically trained persons by providing assistance, training and credit under bankable schemes. This scheme will also be continued during the current plan.

7.11.7.24. The sector of the small self-employed man found behind the hand carts or on cycles or in cabines, in both urban and rural areas, manufacturing or trading goods or servies required by the residents of the local areas, has remained a comparatively neglected sector so far. A scheme has been framed to carefully identify the members of this sector and provide them assistance in the

form of required assets in kind with the help of subsidy and institutional finance. A beginning is proposed to be made in 1981-82 and Rs. 20 lakhs have been provided in the budget for the scheme during this year.

7.11.7.25. It is proposed to make an effect to step up the growth of self-employment sector through the implementation of above mentioned schemes. An outlay of Rs. 100.00 lakhs proposed for this scheme for 1980-85 has been included in the total outlay of Rs. 1241.00 lakhs proposed for the entire programme for the educated unemployed.

STATEMENT

Labour and Labour welfare.

List of Schemes included in the Sixth Five Year Plan 1980-85

(Rs. in Lakhs)

| Sr. | No. | and Name of the Scheme | Sixth Five Year Plan | 1980-85 Outlay |
|----------|---------------|--|----------------------|----------------|
| No. 1 | | 2 | Total 3 | Capita! |
| I. Dire | ection and A | dministration. | | |
| 1. | LBR—l | Strengthening the Directorate of Employment and Training. | 20.00 | |
| 2. | LBR—2 | Job Development Machinery. | 3.00 | |
| 3. | LBR-3 | Expansion of Employment Service. | 65.00 | 12.00 |
| 4. | LBR—4 | Youth Employment Service, occupational Information and Research Analysis. | 1.00 | |
| 5. | LBR—5 | Studies and surveys for Employment Promotion Board. | 6.00 | •• |
| 6. | ⊥ВR—6 | Formation of District Employment Generation Council. | 10.00 | •• |
| | | Total I | 105.00 | 12.00 |
| II. Ind | lustrial Rela | ions. | | |
| | _ | | * 00 | |
| 7. | LBR—7 | Unit for Collection of labour Statistics | 5.00 | •• |
| 8. | LBR8 | Protection and Welfare of unorganised Labour including Satem | | |
| | | Commission. | 170.00 | •• |
| 9. | LBR—9 | Modernising Library in Headquarter offices. | 2.00 | ••. |
| 10. | LBR-10 | Training to Trade Union Workers and others. | 6.00 | |
| 11. | LBR-11 | Enforcement of Payment of Gratuity Aut. 1972. | 4.00 | •• |
| 12. | LBR—12 | Grant-in-aid to Trade Unions and Social Institutions for Socially desirable objectives. | 15.00 | _ |
| 13. | LBR—13 | Establishment of Institute for Research, Training and Developme | nt 170.60 | 125.00 |
| 14. | LBR—14 | Workers Stadium at Ahmedabad. | 10.00 | 5.00 |
| 15. | LBR→15 | Establishment of Rural Labour Welfare Board. | 60.00 | 14 |
| 16. | LBR—16 | Old age Pansjon for Agricultural Labourers. | 85 .00 | |
| 17. | LBR—17 | Implementation of Gujarat Unprotected Manual Workers (Regulation of Employment & Welfare) Act, 1979. To Constitue Statutory Board. | ıla- | |
| | T.D.D. 10 | | 23. 00 | ** |
| 18. | LBR—18 | Workers Participation-Joint Management Council. | 5.00 | •• |
| 19. | LBR19 | Welfare of Migrant Labour. | 10.00 | |
| 20. | LBR-20 | Abolition of Bonded Labour System. | 5.00 | |
| 21. | LBR-21 | Expansion of Labour Establishment. | 15.00 | ~•• |
| | | Total—II | 585.00 | 130.00 |
| m. w | orking Cond | ition & Safety. | | |
| 22. | LBR—22 | (A) Safety Cell for Prevention of Accidents. | 5.00 | |
| | | (B) District Establisment of Inspectorate of Factories | 10.00 | |
| | | Total—III | | |

| 1 | 2 | 3 | 4 |
|--------------------|--|-----------------|--------|
| V. Education an | 1 Training | | |
| 23. LBR-23 | Craftsman Training Scheme | 1182.00 | 514.48 |
| 24. LBR-2 | Grant-in-aid to private agencies for I.T.I. based courses | 5 0.00 | |
| 25. LBR-2 | Introduction of Additional seats under Vocational Programmes | 56 8.00 | |
| 26. LBR—2 | 6 National Appronticeship Training Scheme | 200.00 | 66.0 |
| 27. LBR-2 | Explasion of Existing Government Industrial Training Workshops | 25.00 | 25.00 |
| | Total—IV | 202 5.00 | 605.43 |
| V. Research and | Statistics | | |
| 28. LBR-28 | Collection of Employment Information | 11.00 | |
| VI. Schemes for | ducated unemployed. | | |
| 29. LBR—29 | Career Development courses | 2 00.00 | . • |
| VIL. Incentive Sch | emes for Educated Unemployed | | |
| 33. LBR-30 | (A) Atlitional Seats in I.T.Is. | 30.00 | 1.7. |
| | (B) Scheme for grant of retention allowance against part time work/Training | 150.00 | |
| | (C) Scheme for pre-service training for recruitment in defence service | 20.00 | |
| | (D) Informal type of Apprenticeship Training | 5.00 | |
| | (E) Job-Development Machinery | 1.25 | •• |
| | (F) Pre-service training Scheme for competitive examination for Scheduled Castes/Scheduled Tribes. | 5.00 | |
| | (G) Scheme for Margin money Assistance for self Employment | 140.00 | |
| | (H) Supply of Rojgar samachar | 20.00 | ••• |
| | (I) Mini I. T. Is. | 487.75 | 800.00 |
| | (J) Pre-services examination scheme (D. S. W.) | 6.00 | |
| | (K) Scheme for providing financial assistance for self employment | 100.00 | |
| | (L) Financial Assistance to vocationally trained persons for self- employment | 30.00 | •• |
| | (M) Nucleous Budget | 45.00 | •• |
| | (N) Sachivalaya Cell | 1.00 | |
| | TotalVII | 1041.00 | 300,00 |
| Other Exper | diture Multipurpose workshop for rural areas | 18.00 | £.00 |
| ere Mare -0 | | | |
| | Grand Total I-VIII | 4000.00 | 1052 4 |

7.12. WELFARE OF BACKWARD CLASSES

7.12.1. Introduction

7.12.1.1. It has been directed in our constitution that "The State shall promote, with special care, the educational and economic interest of the weaker section of the people, and in particular of the Scheduled C. stes and Scheduled Tribes and shall protect them from social injustice and all forms of exploitation." In conformity with these provisions, vigorous and systematic efforts are being made by the Government to bring about socio-economic amelioration of the weaker sections of the society in general and of the backward Classes in particular.

7.12.1.2. The Backward Classes of Gujarat comprise of Scheduled Castes, Scheduled Tribes, Nomedic Tribes and Denotified Tribes. According to 1971 census, the population of Scheduled Castes is 18.25 lakhs and that of Scheduled Tribes is 37.34 lakhs which comes to 6.84 and 13.99 percent respectively of the total population of 266.97 lakhs. The census figures for Nomedic Tribes and Denotified Tribes are not available. However they have been estimated to be 4 and 3 lakhs respectively. Thus Backward Class population is nearly 21% of the total population of the State.

7.12.1.3. The problems of raising substantially the socio economic levels of these groups, though quite difficult, can neither be postponed nor left to b; taken care of by general economic growth. The Scheduled Castes and Scheduled Tribes not only share the general problems of poverty and unemployment with rest of the population but also face the additional problems arising out of age-old social and cultural handicaps. They continue to pursue traditional occupations. While the Scheduled Castes continue to be subjected to numerous indignities emanating from the practice of untouchability, the Scheduled Tribes by and large continue to remain outside the Framework of the national economy. In their case, social poverty and economic poverty get merged into a Single problem. Special programmes however were formulated for their socio-economic development in successive plans, but they proved inadequate. The Sixth Plan has therefore laid a special emphasis on the problem of these backward classes.

7.12.1.4. According to the 1971 census, literacy amongst the Scheduled Castes is 27.24% and amongst the Scheduled Tribes 14.12% as against the general literacy level of 35.79% for the State. The main emphasis will therefore, be on raising literacy and improving the educational levels of backward classes through schemes of pre and post matric scholarships, coaching classes, boarding grants, hostel facilities etc. A concerted drive will be undertaken for expanding adult literacy.

7.12.1.5. Among Scheduled Tribes, most backward tribes are Kotwalia, Kolcha, Kolcha, Kathodi, Padhar and Sidia. The literacy percentage amongst these communities is hardly 2%. Amongst Scheduled Castes, the most backward Communities are Bhangi, Hadi, Senva, Nadia, etc.

7.12.1.6. Since the main objectives of the Five Year Plan 1980-85 are removal of unemployment, reduction in poverty and provision for Minimum basic needs and services, it is imperative that the Scheduled Castes, Scheduled Tribes and Backward Classes, who constitute the poorer sections of tle society, receive maximum benefits from the plan programmes designed to achieve these objectives. The programmes for the development of backward classes are now conceived as not merly additional but they are also to be integrated with the other development programmes of the Plan. The main approach will be idenitification of schemes under general sectors of development, which would be of particular benefit to them. Besides quantification of funds from beneficiary oriented programmes under each sector, specific target as to the number of individuals/families which would benefit from these programmes, would have to be determined. In the Five Year Plan 1980-85 the "Special con p nent plan for the Scheduled Castes" so devised is expected to play a vital role in the overall welfare and upliftment of the Scheduled Castes population of the State. Tais approach is proposed to be followed during the period of the Sixth Five Year Plan.

7.12.1.7. Another objective to be pursued with vigor will be the oradication of untourhability in all forms so that social disabilities do not inhibit the economic and social divelopment of the Scheduled Castes. For keeping vigilant watch over the eradication of unbouchanility "Special Cell" has been set up in the State for proper and speedy investigation of complaints involving offences against members of the Scheduled castes. Publicity and propaganda against the practice of untouchability will be intensified. Stiff punishment for violating the law in this respect will be administered.

712.2. Review of Progress

7.12.2.1. During the period of the planned devlopment emphasis has been laid on special development programmes for the Welfare of scheduled castes, scheduled tribes, romadic tribes and denotified tribes. Schemes aiming at their upliftment in the field of education, economic well being and other quenities such as health and housing facilities have been undertaken. The implementation of the Tribal Area Sub-Plan for the areas where tribal population is concentrated has also been initiated in the period of Fifth Plan. A Tribal Development Corporation has been set up in October, 1972 which is expected to help in the progress of amelia rating the conditions of the Tribal people. Similarly, the Scheduled Castes Economic Development Corporation has been set up in 1975. It has been registered under Company's Act. It is expected to help improving the economic condition of the harijans and providing employment opportunities to them through the Small Scale and other industries. A Special component Plan for Scheduled Castes is being formulated and implemented from the year 1979-80. Specific amount is being earmarked proportionate their population under Special Component Plan for the Welfare of Scheduled Castes under various sectors/sub-sectors viz. Agriculture, Power, Industries, Social Services etc. An outlay of Rs. 9.06 crores was provided for the year 1979-80 which has been increased substantially to Rs. 27.59 crores during 1980-81. The

different programmes under the "Component Plan" are expected to benefit the population of Scheduled Castes appreciately.

7.12.2.2. The Category-wise and groupwise breakup of the Fifth Plan outlay & Expenditure for the period of 1974-75 to 1978-79 is shown below:—

(Rs. in lakhs)

| | | | (1974–79) | | | | | |
|------------|------------------------------------|---------------|-----------|----------------|-----------------|--|-----------|--|
| Sr. No. | Category | | | Education | Econemic uplift | Healths, Housing and other Schemes. | Total | |
| 1 | 2 | | | 8 | 4 | 5 | 6 | |
| A. | Outlays : | | | 7 | | | | |
| | (a) State Plan | | | | | | | |
| | 1. Scheduled Castes. | | | 245.12 | 141.52 | 195.09 | 586.73 | |
| | 2. Scheduled Tribes. | | | 326 .09 | 149.87 | 122.55 | 583 :51 | |
| | 3. Nomedie Tribes. | | | 16.68 | 17.50 | ² 6/ 6 0 | 40.78 | |
| | 4. Denotified Tribes. | | | 14.84 | 17.50 | 6.64 | 38.98 | |
| | Nuclues Budget | | | | •• | | 10.00 | |
| | | Total (a) | ٠. | 602.73 | 326.489 | 330.88 | 1,260:00 | |
| | (b) Centrally Sponsored Programme: | | | | | | | |
| | 1. Scheduled Castes. | | | 878.85 | •• | 15.33 | .894.1,8 | |
| | 2. Scheduled Tribes | | | 473.17 | 231.18 | 8.82 | 718.17 | |
| | | Total (b) | | 1352.02 | 281.18 | 24.15 | 1607.35 | |
| | 4.0 | Total (a + b) | ٠. | 1954.75 | 557.57 | 355.03 | 2867 / 34 | |
| B. | Expenditure : | | | | | | ; | |
| | (a) State Plan. | | | | | | | |
| | 1. Scheduled Castes. | | ж. | 300.51 , | . ,62.00 | 141.52 | . 504.0 | |
| | 2. Scheffuled Tribes. | | | 448.03 | 121.36 | 15.31 | 655:5 | |
| | 3. Nomadic Tribes. | | | 51.85 | 3.13 | 15.31 | 70.29 | |
| | 4. Denotified Tribes. | | | 45.14 | 3 :22 | 21.17 | 70.07 | |
| | | Total (a) | | 845.63 | 189.71 | 264.7 0 | 1299.94 | |
| | (b) Centrally Sponsored Programme. | | | | | 1 111 | | |
| | 1. Soheduled Castes. | | | 566.01 | | 7:54 | 573.50 | |
| | 2. Scheduled Tribes. | | | 315.30 | 188.56 | 15.97 | 509.83 | |
| | | Total (b) | | 881:31 | 188.56 | 13.51 | 1083.38 | |
| | | Total (a + b) | | 1726.84 | 378.27 | 278.21 | 2383.82 | |

7.12.2.3. In the Fifth Plan 1974-79 against the outlay of Rs. 1260.00 lakks provided for the programme of Welfare Backward Classes in the State Plan, an expenditure of Rs. 1299.94 lakks has been incurred. Out of this an amount of Rs. 655.55 lakks has been incurred on the programmes for welfare of Scheduled Tribes and Rs. 504.03 lakks for the

programmes of welfare of Scheduled Castes. Comparatively more expenditure has been incurred on the programmes of education for Scheduled Tribes and Scheduled Castes. In respect of the Cantrolly Spensored Programme also, bulk of the expenditure has been incurred on the schemes for education.

- 7.12.2.4. The Government has taken various measures during the Fifth Plan for the advancement of backward classes. The more important of these measures are indicated below:
 - (1) The rates of pre-S.S.C. scholarships have been increased. The revised rates range from Rs. 30/to Rs. 90/- per annum for different standards and different courses in educational institutions.
 - (2) The income limit for Pre.S.S.C. scholarships has been raised from Rs. 6,000 to Rs. 7,200 P. A.
 - (3) The rate of scholarships for professional courses has been increased from Rs. 30/- p.m. to Rs. 40/- p.m.
 - (4) The stipends to students in backward classes hostels and Ashram schools have been raised from Rs. 45/-to Rs. 55/- p.m.
 - (5) The scholarships in training-cum production centres were raised from Rs. 55/- p.m. to Rs. 65/- p.m.
 - (6) The Government also raised the limit of the intercaste marriage incentive grant from Rs. 500/- to 5,000/-.
 - (7) The rate of post S.S.C. scholarships were increased and income limit raised from 1974-75.
 - (8) A scheme for grant to the Scheduled Castes and Scheduled Tribes Medical doctors for starting their own dispensaries is being implemented from 1976--77.
 - (9) The adoptation of the new education policy of 10+2+3 during the year 1976-77 has resulted in awarding post S.C.C. scholarships in Classes of the Higher Schools to the Scheduled Castes, Scheduled Tribes, Nomadic Tribes and Denotified Tribes students under the State Plan and centrally sponsored programme.
 - (10) Scheduled Castes Economic Development Corporation has been set up in the year 1975-76.
- 7,12,2.5. The programme has benefitted a large number of individuals and institutions. The number of beneficiaries in selected items of the programme in the Fifth Plan is given hereunder:—
- 297542 Students were given tution fees, examination Fees, and scholarships.
- .145775 Students were given free books and uniforms.
- 113231 Students were given post S.S.C. Scholarships.
 - 100 New grant in aid hostels started.
 - 3 New Government hostel started.

- 49 Grant-in-aid hostels granted building grants.
- 38 Ashram Schools and post basic Ashram schools started.
- 9888 Persons were given financial assistance for cottage industries, pumping setfor irrigation and aid for development of agricultural land.
 - 36 Scheduled Castes and Scheduled Tribes law graduates assisted for legal profession.
 - 10 New "Tailoring Classes" started.
 - 56 Medical doctors given financial assistance for starting their dispensarie.
- 6212 Youths were trained as approved artisans at workshops.
 - 45 Inter-caste marriages.
 - 100 New Balawadis started were encourased by by giving incentive grants
- 7403 Persons were given financial assistance for housing among them 4518 were Halpatis and 663 sweepers. Rs. 141.40 lakhs were given as loans and subsidies to cooperative housing societies of "Backward Classes".
- 7.12.2.6. Over the years the facilities and concessions granted to backward classes for education, economic uplift, health and housing have increased progressively. A broad list indicating the present features and concessions is given here under:—

Education :-

- (1) Education upto S.S.C. is free to all students including Backward Class students.
- (2) Grant of tution fees to all Backward Class students studying in post S.S.C. courses.
- (3) Grant of Examination fees to all Backward Class students at all levels.
- (4) Scholarships to Backward Class students as per rules for standards V and VI for professional courses in I.T.Is. also.
- (5) Scholarships to all Backward Class students in Colleges, as per scholarship rules of the Government of India.
- (6) Free hostel facilities for students studying in Secondary School.

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- (7) Free hostel facilities for college students at Ahmedabad, Vadodara, Surat, Rajkot and Junagadh. At Ahmedabad, Vadodara, Dahod and Surat there are also ladies hostels for college going backward class girls students.
- (8) Book Banks are started at Ahmedabad, Vaddara, Sunat and Rajkot for B. C. students reading in Medical and Engineering courses.
- (9) Free Coaching classes are conducted for English, Science and Mathematics subjects in Std. VIII to XI.

Economic Uplift :--

- (1) Grant of loan-cum-subsidy for starting cottage industries and profession upto Rs. 1000 on the basis of 50% subsidy.
- (2) Grant of loan-cum-subsidy for starting dispensaries upto Rs. 10,000 on the basis of 50% subsidy and 50% loan to S.C. and S. T. doctors.
- (3) Thirteen training-cum-production centres are being run. In these centres Backward Class Youths are being imparted training in carpentry, smithy, tailoring, motor mechanics, welding, turning and fitting, masonary etc.
- (4) Backwad Class Youths are also being imparted training as approved artisans at workshop.
- (5) 13 Tailoring classes are conducted for Nomadic Tribes and Denotified Tribes, Scheduled Castes and Scheduled Tribes women. The capacity of each class is of 20 seats.

Other Schemes (Housing):-

- (1) Sweepers are given 100% subsidy to the extent of Rs. 500 for purchasing house sites and 75% subsidy to the extent of Rs. 900 for construction of houses.
- (2) Nomadic Tribes and Denotified Tribes members are given 75% subsidy to the extent of Rs. 900/- for housing construction.
- (3) The registered co-operative Housing Societies of Scheduled Castes and Scheduled Tribes are given financial assistance at the following rates:—

Land Subsidy at-

Rs. 5.00 per sq.yd. in rural areas. Rs. 7.50 per sq.yd. in urban areas.

Rs. 10.00 per sq.yd. in Ahmedabad.

For House Construction-

For Scheduled Catses 70% loans and 20% subsidy.

For Scheduled Tribes 55% loans and 35% subsidy within the following ceiling.

Rs. 10,000 in Ahmedabad.

Rs. 8,000 in other urban areas.

Rs. 6,000 in rural areas.

- (4) Halpatis are given 100% subsidy to the extent of Rs. 450 for purchasing house sites and Rs. 1,000 for house construction subsidy and Rs. 650 interest free loan.
- (5) For inculcating good habits and culture among B. C. children, balwadis are run through voluntary agencies on grant-in-aid basis.
- (6) Neddy B.C. Members are given free Medical aid.
- (7) Posts for making propaganda for B.C. Welfare schemes and the programe for removal of untouchability are-sanctioned to voluntary agencies. These agencies are paid grant-in-aid on their pay and allowances. Each propaganda worker is paid Rs. 250 per month and Rs. 75 fixed travelling allowances per month.
- (8) Under Bhangi Kashta Mukti Programme, local bodies are given financial assistance for purchasing wheel barrows, gum boots etc. To train workers sweepers and Inspectors, Shibirs are origanised and short classes are also conducted. Local bodies and individuals are also given grant by Panchayats and the Government converting their dry latrines in to water-borne.
- (9) To study tribal problems and to under take research on important subjects and also to train officials, workers etc. Government of India gives 100% grant to the Research Institute of the Gujarat Vidyapith.
- (10) A pre-examination Training Centre, is started at Ahmedabad to prepare B.C. candidates for competitive examination for recruitment to Government services. Trainness are paid Rs. 75 p.m. as stipend.
- (11) Speical arrangement has been made for ensuring fulfilment of reservation of promotional quota for the Schedule Castes and the Scheduled Tribes.

- (12) To enforce effectively the untouchability offence Act, 1965 and to attend immediately to the harrasment cases, Special Cells have been created at Vadodara and Rajkot headed by the Dy. Superintendent of Police. Cells also have been created at the head-quarters of the Government and the office of the Inspector General of Police to attend to the work regarding the removal of untouchability and cases of harrasment etc.
- 7.12.2.7. A large number of institutions/classes/centres are being run for the benefits of Backward Classes as under:—
 - 518 B.C. Hostels for students studying in Pre-S.S.C. classes.
 - 10 B.C. Government Hostels for college going students.
 - 177 Ashram Schools.
 - 47 Cosmopolitan Hostels.
 - 492 Balwadis.
 - 18 Tailoring classes.
 - 13 Training-cum-production centres.

7.12.3. Programmes for 1980-85

- 7.12.3.1. The Government of India have classified the Backward Classes into following four main categories:—
- (1) Selected castes who are considered as untouchable and Harijans.

- (2) Scheduled Tribes who live in rural, hilly and forest areas and whose main problems are isolation, poverty and exploitation.
- (3) Nomadic Tribes who mostly move from place to place in search of bread. They are not educating their children and not equipped with houses.
- (4) Denotified Tribes who formerly have so called tendencies which resulted into social contempt towards them.
- 7.12.3.2. The State Government had appointed a Commission to study the social and economic, conditios of the backward classes other than S.C., S.T., N.T. and D.N.T. This Commission is popularly known as Baxi Commission. The Government has decided to consider 82 Castes. Classes/Groups identified by the Bakshi Commission as Socially and Educationally and Economically Packward.
- 7.12.3.3. The above castes, classes and groups have remained backward as compared to the rest of the society, Education is the very lack lone of all welfare measures undertaken for the integral development of the individual as well as of the Society. It enables the socially backward communities to achieve equally with the other sections of the society. Besides, a fundamental change in their environment and living conditions is also very essential for their assimilation with the rest of the society. In addition to the programme for welfare of Scheduled Castes, Scheduled Tribes, Nomadic Tribes and Denotified Nomadic Tribes which were undertaken so far the programme for welfare of socially, Educationally and Economically Packward elarses au propad to be accelerated in the Sixth Five year Plan 1980 85. The troad breakup is given as under:

RS. in lakha

| | | | Proposed outlay 1980-85 | | | | | |
|------------|--|-------|-------------------------|--------------------|----------------------------------|---------|--|--|
| Sr. No. | Category | | Education | Economic Uplift | Health, Housing and others | Total | | |
| 1 | 2 | | 3 | 4 | 5 | 6 | | |
| 1. | Scheduled Castes. | | 1200.00 | 7 50.00 | 850.00 | 2800.00 | | |
| 2. | Scheduled Tribes. | | 1335.00 | 79 0.00 | 875.00 | 3009.00 | | |
| 3. | Nomadic Tribes. | | 54.0 0 | 25.00 | 21.00 | 100.00 | | |
| 4. | Denotified Tribes. | | 50.00 | 27.00 | 23.00 | 100.00 | | |
| 5. | Socially and Educationally Backward Classes. | | 664.00 | 36 8.00 | 468.00 | 1500.00 | | |
| 6. | Economically Backward Classes | | 135.00 | 75.00 | 40.00 | 250.00 | | |
| 7. | Minority Communities. | | 158.00 | 45.00 | 47.00 | 250.00 | | |
| | | Total | 3596.00 | 2080.00 | 2324.00 | 8000.00 | | |

7.12.4. The Gujarat Tribal Development Corporation

7.12.4.1. The Gujarat Tribal Davelopment-Corporation has been established in October, 1972. The main objective of the Corporation is to take up socio-economic, welfare activities for the Tribal people. According to the provisions of the Act, the State Government has to provide the capital contribution upto Rs. 5 crores. The Corporation is supposed to plan and promote on its own or in cellaboration with scheduled Tribes organisations, any programme pertaining to Agricultural Development Small Scale Industries, Building Constructions, Transport and such other actitivites as may be approved in this behalf. The revised schemes of differential rate of interest of Nationalised Banks is also implemented through Tribal Development Corporation. The State Government has granted guarantee to the banks for the differential rates of interest, while loan to be routed through the Corporation. Out of the loan sanctioned so far, under the differential interest rates scheme, about 32,000 families have been benifitted till 1979-80. Additional loan of Rs. 441.00 lakhs has been advanced by the various banks through the Corporation under D.I.R. Scheme, for various programmes like supply of Milch Cattle, Bullooks, Bullook-Cart, Poultry fisheries, lift irrigation etc. During the Sixth plan period 1980-85, an outlay of Rs. 450.00 lakhs is provided for the Tribal Development Corporation.

7.12.5. The Scheduled Castes Economic Development Corporation.

7.12.5.1. The Scheduled Castes Economic-Development Corporation has been established in 1975. It is registered under the Company's Act. The objective of the Corporation is to identify the problems of socio economic backwardness of the Scheduled Castes and to plan and promote economic welfare activities either directly or through Panchayats, Co-operative banks, Government Departments or social organisations. The State Government provides grants to the Scheduled Castes Economic Development Corporation for implementing various

schemes and programmes benefitting of the Scheduled Castes. During the Sixth Plan period 1980-85, it is proposed to expand the activities of the Corporation. It is also proposed to cover 2 lakhs Scheduled Castes families under Economic Welfare Programmes so as to enable them to come above the poverty line. During the Sixth Five Year Plan 1980-85, an outlay of Rs. 290.00 lakhs is proposed for the purpose.

7.12.6. Programme for Socially, Educationally and Economically Backward Classes.

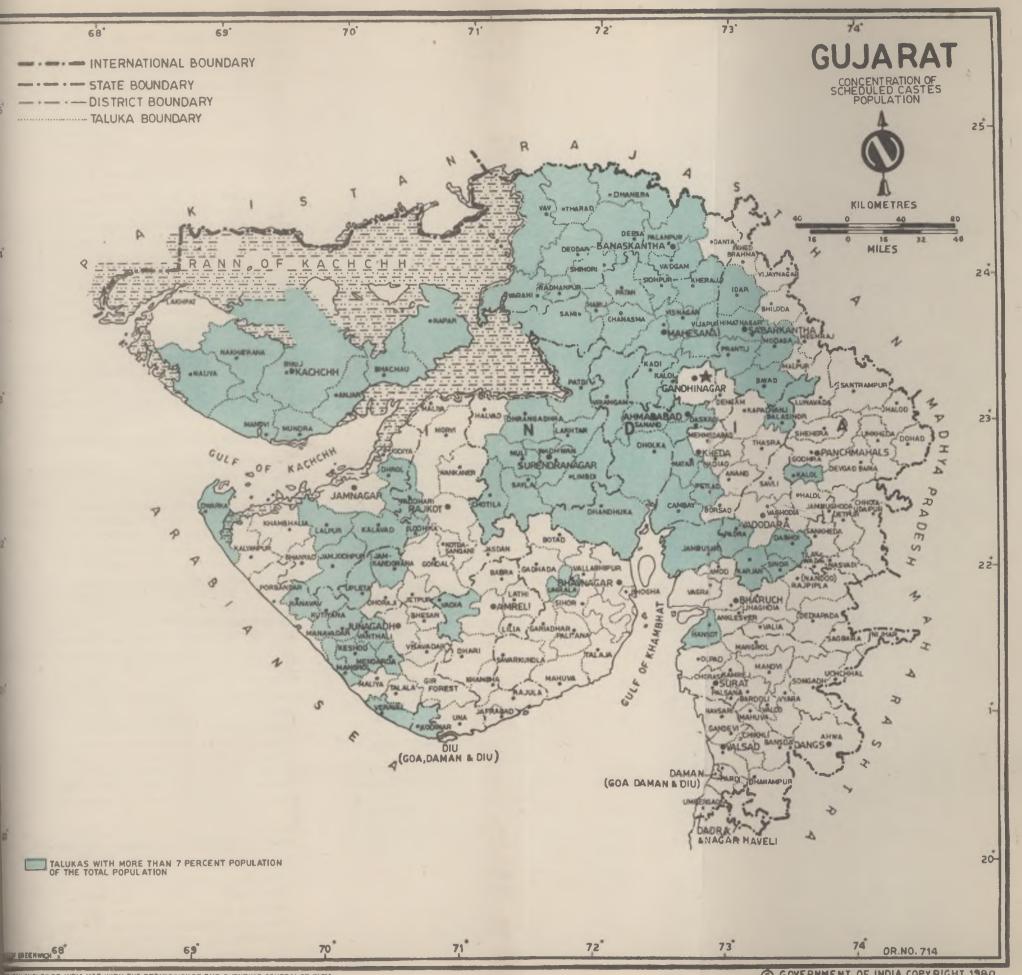
7.12.6.1. The Government has accepted all the recommendations of the socially and educationally backward class commission and 82 castes/classes/ groups are declared as socially and educationally backward. They are eligible for special concessions similar to those being granted to the Scheduled Castes and Scheduled Tribes in pursuance of the provisions of the articles of the Constitution. The Government has also extended the benefits of various recommendations of the Commission except those relation to reservation in services and reservation in educational institutions to economically backward classes such as agricultural labourers, rural artisan, marginal farmers, unprotected and unorganised labourers and other persons who are self employed such as hand cart pullers, drivers of pedal and autorickshaws (Not owners of autorikshaws) drivers of horse or camel drawn vehicles and small shop keepers. The income limit for the above mentioned category of economically backward class people is fixed at Rs. 4800 per annum. An outlay of Rs. 1759.00 lakhs is provided for the welfare programmes for socially and educationally backwards classes and Economically backward classes in the Sixth Five Year Plan 1980-85.

7.12.6.2. The programmes for the socially and educationally backward classes and economically backward classes are also grouped under three main heads viz., Education, Economic uplift and Health, Housing and other Schemes. A broad break up of the outlay of Rs. 1750.00 lakhs is given as under:—

1980-85

| (Ks. | in | lakhs) |
|------|----|--------|
| | | |

| | | | | | 1 | | |
|-----|---|----|---------|-----------|-----------------|---|---------|
| Sr. | Category | | | Education | Economic uplift | Health, Housing and other/schemes | Total |
| 1 | 2 | | <u></u> | 3 | 4 | 5 | 6 |
| Ł. | Socially and Educationally Backward Classes | •• | •• | 664.00 | 368.00 | 468.00 | 1500.00 |
| 2. | Economically backward classes | •• | | 135.00 | 75.00 | 40.00 | 250.00 |
| | | | Total | 799.00 | 443.00 | - 508.00 | 1750.00 |



7.12.6.3. The Gujarat Backward Class Board has also been set up under the Societies Registration Act, 1960 which is expected to formulate various schemes of economic uplift and health housing and other programmes as well as to undertake research studies and evaluation work. An outlay of Rs. 15.00 lakhs has been proposed for the Sixth Five Year Plan 1980-85.

7.12.7. Programmes for Minorities

7.12.7.1. Government has also constituted a Board for the welfare of Minorities. For the welfare of these classes, special schemes have been introduced during period of Sixth Five Year Plan. The schemes are more or less on par with schemes being implemented for S.E.B.C. and E.B.C. The programme is divided into three categories viz. Educational, Economic Uplift and Health, Housing and other Schemes. The benefit of these schemes will be made available to those persons whose annual income does not exceed Rs. 4800. This programme will help the poor persons of such classes and will provide opportunity for the educational and economical development. Under this programme, an outlay of Rs. 250.00 lakhs has been proposed for the purpose for the period 1980-85.

7.12.8. Component Plan for Scheduled Castes

7.12.8.1. According to 1971 census, the population of Scheduled Castes in Gujarat State is 18.25 -lakhs which is 6.84% of the total population of 266.97 lakhs. Government is deeply concerned about the problems of Scheduled Castes. There is clear nexus between the economic plight of the Scheduled Castes and the atrocities and social disabilities to which they are subjected. With a view to ameliorate the lot of these people a special component plan has been introduced from the year 1979-80. According to the new strategy now to be adopted during the period of Sixth Five Year Plan, the objective of the various development programmes in the "Special omponent Plan" is to enable Scheduled Castes families in the State to cross the poverty line within a short and specified period, if possible at least half of them in the Plan Period 1980-85 itself. Keeping in view the development needs of the Scheduled Caste in each occupational category, attempts have been made to identify available opportunites suitable for them and appropriate development programmes have been formulated for the period of Sixth Five Year Plan 1980-85. An outlay of Rs. 259.46 crores has been proposed for the purpose.

112.9. Community halls for Scheduled Castes

7.12.9.1. The Scheduled Castes peopte are treated as untouchables and therefore they find it difficult to arrange community functions like celebration of marriage, organising cultural activities, Sammelans etc. Even for organising economics activities, a common Meeting place for Scheduled Castes has been considered very necessary and

useful. With a view to mitigate these difficulties of Scheduled' Castes, it is proposed to construct Community halls/centres during the Sixth Flex period 1980-85 for which an outlay of Rs. 90.00 lekhs is proposed. Although these community halls will be primarily for Scheduled Castes, it is envisaged that such halls can be utilised by all members of the weaker sections of the society.

7.12.10. Centrally sponsored programmes

7.12.10.1. For the period of Sixth Five Year Plan 1980-85 an outlaay of Rs. 250.00 lakhs towards fully centrally sponsored programme and an outlay of Rs. 502.50 lakhs towards the 50 per cent aided centrally sponsored programme are expected from the centre. The broad break-up of the laided C.S.P. is as under:—

| do unuvi .— | (Rs. | in lakhs). |
|--------------------|---|--|
| Name of the Scheme | | Proposed outlay 1980-85 |
| 2 | - | 3 |
| tion | | |
| | | |
| | Name of the Scheme 2 tion re. S.S.C. Scholarships f | Name of the Scheme 2 tion re. S.S.C. Scholarships for |

| 1. | Pre. S.S.C. Scholarships for those who are engaged in unclean occupation | S.C. | 35.00 |
|----|--|--------------|------------------|
| 2. | Development and Maintenance of Book-Banks for medicals and Engineering student | S.C. S.T. | 5.50 6.50 |
| 3, | Grant-in-aid to voluntary agencies for construction of hostels for girls | S.C. S.T. | 16.00 13.00 |
| 4. | Construction of Government hostels for girls studying in colleges | S.C. S.T. | 14.00 20.00 |
| 5. | Pre-Examination, training-coaching for competetive examination. | S.C. S.T. | 7.00 5.00 |

II. Economic Uplift

| 6. | Scheduled Castes Economic | | |
|----|---------------------------|------|--------|
| | Development Corporation | S.C. | 290.00 |

III. Health, Housing and Others

| Grand Total | | 502.50 |
|--|--------------|-----------------|
| Total Total | S.C. S.T. | 432.50 70.00 |
| 9. Full fledged hostel at Gandhinagar | S.C. S.T. | 20.00 20.00 |
| f of untouchability 8.7 Tribal research and training Instituto | S.C. S.T. | 45.00 5.50 |
| 7.7 Intensive drive for cradication | | |
| ii. Ittalia, Hoasaib and Galler | | |

7.12.11. The physical targets proposed for the Sixth Five Year Plan period 1980-85 for

selected items under the sub-sector. "Welfare of Backward Classes" are given as under :—

Physical targets for seleted items

| | Schemes | S. C. | S. T. | N. T. & D.N.T. | S.E.B.C. & E.B.C. |
|-----|--|-------------------------|----------------------|-------------------|----------------------|
| | 1 | 2 | 3 | 4 | 5 |
| 1. | Examination Fees (Students) | 19285 | 20000 | 5714 | 94285 |
| 2. | Pre-S.S.C. Scholarship (Students) | 138666 | 172000 | 55 000 | 4 50000 |
| 3. | Post S.S.C. Scholarship for Girl students | 36 00 | 1930 | 2416 | ** |
| 4. | Post S.S.C. Scholarship (students) | 4 | • • | 3800 | |
| 5. | Free Books and Clothes | 3 81 <i>5</i> 60 | 258000 | 4693 | 75000 |
| 6. | Ashram Schools & Post Basic Ashram Schools | 87 | 57 | 4 | 23 |
| 7. | Coaching Centres | 150 | 214 | •• | 5 0 |
| 8. | Balwadi/Anganwadi | 450 | 330 | 10 | 75 0 |
| 9. | Small Trade & Cottage Industries (Persons to be assisted) | 40000 | 20000 | 1800 | 18000 |
| 10. | Law Graduates (persons) | 112 | 89 | 45 | 23 |
| 11. | Medical Graduate (Persons) | 167 | 134 | 20 | 53 |
| 12. | Training to B. C. Artisans at approved work shops (Trainees) | 1852 | 37 0 4 | 5 56 | 8333 |
| 13. | Inter Castes Marriage (Couples) | 160 | | •• | •• |
| 14. | Halpati Housing (Houses) | 15953 | •• | •• | •• |
| 15. | Housing on Individual basis (Houses) | 16112 | 7083 | 833 | 13875 |
| 16. | Housing for Sweepers & Seavangers (Houses) | 5555 | . •• | •• | •• |
| 17. | Co-operative Housing Societies (Societies) | 40 | 7 , | 12 | 8000 (Tenaments) |

Welfare of Backward Classes

List of Schemes included the Sixth Five Year Plan, 1980-85

(Rs. in lakhs).

| | | | • | Total | Capital |
|------|----------|---|---------------------------------|--|---------|
| No. | | Name oand Number of the Schemes | | | |
| 1 | | 2 | | 3 | 4 |
| Educ | cation | | | | |
| | | on Atom Wass | (a) S. C. | 6.75 | |
| 1 | BCK-1 | Examination Fees | (b) S. T. | $\substack{7.00\\1.00}$ | |
| | | | (c) N. T. (d) D. N. T. | 1.00 | - :: |
| | | | (e) S. E. B. C. | 25 .00 | |
| | | | (f) E. B. C. | 8.00 | •• |
| | | | (g) Minority | 15. 0 | •• |
| | | | Total | 63.75 | ••• |
| | | | | | |
| | | m to There | (a) S. C. | 2.50 | |
| 2 | BCK-2 | Tution Fees | (b) S. T. | 3.00 0.20 | |
| | | | (c) N. T. (d) D. N. T. | $\begin{smallmatrix}0.20\\0.20\end{smallmatrix}$ | |
| | | | Total | 5.90 | |
| | | | | | |
| | | - aaa at 1t. | (a) S. C. | 59. 00 | |
| 3 | BCK-3 | State Scholarship for Pre. S.S.C., Students | (b) S. T. | 60.00 | :: |
| | | | (o) N. T. | 4.50 | |
| | | | (d) D. N. T. | 4.50 | |
| | | | (e) S. E. B. C. (f) E. B. C. | $\begin{array}{c} \textbf{150.00} \\ \textbf{60.00} \end{array}$ | • • |
| | | | (f) E. B. C. (g) Minority | 60.00 | •• |
| | | | Total | 398.00 | •• |
| | BCK-4 | State Scholarship for Pre. S.S.C. children of those | (-) Q () | 35.00 | |
| 4 | E BOIL-1 | who are engaged in unclean Occupation | (a) S. C. | | ••• |
| | י אמעל-ג | State Scholarship for Post S.S.C. Girl students | (a) S. C. | 36.00 | |
| ŧ | 5 BCK-5 | Diffe 0 2011 1111 1111 | (b) S. T. (c) N. T. | $\begin{array}{c} 30.00 \\ 4.25 \end{array}$ | •• |
| | | | (d) D. N. T. | 2.80 | |
| | | | (g) Minority | 10.00 | |
| | | | Total | 83.05 | •• |
| | | | | | |
| | 6 BCK-6 | State Scholarship for Post S.S.C. Boy students | (o) N. T. | 20.00 | |
| | 6 BCK-6 | Dogot Constant | (d) D. N. T. | 18.00 | •• |
| | | | Total | 38.00 | •• |
| | | | | | |
| | 7 BCK-7 | State Scholarships for Higher Secondary students | (e) S. E. B. (| | |
| | 7 BCK-7 | | (f) E. B. C. (g) Minority | 39.00 25.00 | •• |
| | | | | | ••• |
| | | | Total | 149.00 | |
| | | | (a) S. C. | 10.00 | |
| | 8 BCK-8 | State Spholarship for Technical diploma, professional | (b) S. T. | 7.50 | • • |
| | | and Industrial courses | (e) "S. E. B. (| 50.00 | • • |
| | | | (f) E. B. C. | 8.00 | • |
| | | | (g) Minority | 20.00 | • |
| | | | Total | 95.50 | |

| 10 1 | BCK-11 | Free Books and Clothes to very needy student studying in primary upto I to VII std. Financial Assistance to very needy children's studying in primary schools Oppertunity Cost of Education for very needy Children studying in Primary schools Free Books and clothes to very needy students studying in VIII to X. Std. | (a) (d) (e) (a) (a) (d) (e) (d) (e) (d) (e) (d) (e) (d) (e) (d) (e) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e | N. T. D. N. T. S.E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 28.65 60.00 0.50 20.00 109.65 440.00 60.00 1.20 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
|------|------------------|--|--|--|--|---------|
| 10 1 | BCK-10 BCK-11 | Financial Assistance to very needy children studying in primary schools Oppertunity Cost of Education for very needy Children studying in Primary schools Free Books and clothes to very needy students | (a) (d) (e) (a) (a) (d) (e) (d) (e) (d) (e) (d) (e) (d) (e) (d) (e) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e | N. T. D. N. T. S.E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 0.50 0.50 20.00 109.65 440.00 60.00 1.20 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
| 11 : | BCK-11 | Oppertunity Cost of Education for very needy Children studying in Primary schools Free Books and clothes to very needy students | (a) (b) (c) (d) (e) (a) (d) (e) | D. N. T. S.E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 0.50 20.00 109.65 440.00 60.00 1.20 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | :: |
| 11 : | BCK-11 | Oppertunity Cost of Education for very needy Children studying in Primary schools Free Books and clothes to very needy students | (a) (b) (c) (d) (e) (a) (d) (d) (e) | S.E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 20.00 109.65 440.00 60.00 1.20 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
| 11 : | BCK-11 | Oppertunity Cost of Education for very needy Children studying in Primary schools Free Books and clothes to very needy students | (a) (b) (c) (d) (e) (a) (a) (d) (d) (e) | Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 109.65 440.00 60.00 1.20 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
| 11 : | BCK-11 | Oppertunity Cost of Education for very needy Children studying in Primary schools Free Books and clothes to very needy students | (a) (a) (b) (d) (e) (a) (d) (d) (e) | S. C. S. T. N. T. D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 8.00 20.00 1.20 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
| 11 : | BCK-11 | Oppertunity Cost of Education for very needy Children studying in Primary schools Free Books and clothes to very needy students | (a) (a) (b) (d) (e) (a) (d) (d) (e) | S. T. N. T. D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 8.00 20.00 1.20 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
| | | Oppertunity Cost of Education for very needy Children studying in Primary schools Free Books and clothes to very needy students | (a) (a) (a) (a) (d) (d) (e) | N. T. D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 1.20 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
| | | Children studying in Primary schools Free Books and clothes to very needy students | (a) (a) (a) (d) (d) (e) | D. N. T. S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 1.10 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
| | | Children studying in Primary schools Free Books and clothes to very needy students | (a) (a) (b) (d) (e) | S. E. B. C. Total S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 13.00 515.30 8.00 20.00 1.20 1.10 15.00 45.30 | |
| | | Children studying in Primary schools Free Books and clothes to very needy students | (a) (c) (d) (e) | S. C. S. T. N. T. D. N. T. S. E. B. C. Total | 8.00 20.00 1.20 1.10 15.00 45.30 | |
| | | Children studying in Primary schools Free Books and clothes to very needy students | (a) (c) (d) (e) | S. T. N. T. D. N. T. S. E. B. C. Total | 20.00 1.20 1.10 15.00 45.30 | |
| | | Children studying in Primary schools Free Books and clothes to very needy students | (a) (c) (d) (e) | S. T. N. T. D. N. T. S. E. B. C. Total | 20.00 1.20 1.10 15.00 45.30 | |
| 12 | BCK-12 | Free Books and clothes to very needy students | (e) (d) (e) (a) | N. T. D. N. T. S. E. B. C. Total S. C. | 1.20 1.10 15.00 45.30 | |
| 12 | BCK-12 | Free Books and clothes to very needy students studying in VIII to X. Std. | (d) (e) s | D. N. T. S. E. B. C. Total S. C. | 1.10 15.00 45.30 32.00 | |
| 12 | BCK-12 | Free Books and clothes to very needy students studying in VIII to X. Std. | (è) s | S. E. B. C. Total S. C. | 45.30 32.00 | |
| 12 | BCK-12 | Free Books and clothes to very needy students studying in VIII to X. Std. | | S. C. | 32.00 | .3x |
| 12 | BCK-12 | Free Books and clothes to very needy students studying in VIII to X. Std. | | | | |
| 12 | BCK-12 | Free Books and clothes to very needy students studying in VIII to X. Std. | | | | |
| | | | | | 36.00 | |
| | | | | Total | 68.00 | |
| | | | | | | 22 |
| 13 | BCK-3 | Financial Assistance to very needy students studying | | S.C. | 8.50 | • • |
| | | in VIII to X standard. | (D) | S. T. | 15.00 | ** |
| | | | | Total | 23.50 | •• |
| | DOTE 14 | Development and Maintanance of Eook-Bank for | (a) | S. C. | 5.50 | |
| 14 | BCK-14 | Medical and Engineering students | (h) | S. T. | 6.50 | - 5.5 |
| | | Moditon and Pullingering pondones | | Ñ. T. | 2.00 | ** |
| | | | | D. N. T. | 2.00 | |
| | | | . , | Total | 16.00 | <u></u> |
| | | | | | | |
| 15 | BCK-15 | Grant-in-Aid to Backward Class Hostels. | (a) | s.c. | 70.00 | |
| | - | | (b) | S.T. | 100.00 | |
| | | | (0) | N.T. D.N.T. | 5.60 | ** |
| | | | (d) (e) | S.E.B.C. | $\begin{smallmatrix} 5.60 \\ 100.00 \end{smallmatrix}$ | ** |
| | | | (g) | Minority | 8.00 | |
| | | | | Total | 289.20 | |
| | | | | | | |
| 16] | BCK-16 | Grant-in-Aid to Beckward Cless Boys Hostel | (a) | S.C. | 16.70 | |
| | | for Building construction | (b) | S.T. | 20.00 | |
| | | - | (c) | N.T. | 3.00 | |
| | | | (d) | D.N.T. S.E.B.C. | 2.60 20.00 | |
| | | | (e) | B.E.D.U. | 20.00 | •• |
| | | | | Total | 62.30 | |
| | | | | | | |
| 17 | BCK-17 | G.I.A. to B.C. Girls Hostel for Building construction | (a) | | 16.00 | • • |
| | | | (b) | S.T. S.E.B.C. | 13.00 8.00 | • • |
| | | | (e) (f) | E.B.C. | $\substack{\textbf{8.00}\\\textbf{2.00}}$ | |
| | | | - | Total | 39.00 | |

| 1 | 2 | | | 3 | 4 |
|-----|---|-------------------|--------------------------|---|----------------|
| 18 | BCK-18 G.I.A. to B.C. Hostel for Electriffication | (a) (b) (e) | S.C. S.T. S.E.B.C. | 12.00 10.00 6. 00 | :: |
| | | | Total | 28.00 | |
| 19 | BCK-19 G.I.A. to cosmopolitan Hostels | (a) | S.C. S.T. | $\substack{5.90 \\ 20.00}$ | |
| | | (b) | N.T. | 1.00 | |
| | | (d) | D.N.T. S.E.B.C. | $\substack{\textbf{1.00} \\ \textbf{6.00}}$ | •• |
| | | (e) (g) | Minority | 0.75 | |
| | | | Total | 34.65 | |
| 20. | BCK-29 I. G.I.A. To Higher Secondary & College Hostels. | (a) | s.c. | 0.25 | |
| 20. | JOAN NO. O. C. | (b) | S.T. | 2.00 | |
| | | | Total | 2.25 | •• |
| | II Adminission to S.C. and S.T. students in Hostels attached with colleges | (a) (b) | S.C. S.T. | $\begin{smallmatrix}20.00\\10.00\end{smallmatrix}$ | •• |
| | a control in the control of | | Total | 30.00 | ••• |
| | III Model Hostel for very bright students in all district | s (a) (b) | S.C. S.T. | 2 5.00 15.00 | ••• |
| | | | Total | 40.00 | ••• |
| ~1 | BCK-21 I G.I.A. for additional coaching and studying centres | (a) | S.C. | 5.25 | |
| 21 | BCK-21 1 G.I.A. for additional bounding and bounding out | (b) | S.T. | $\substack{8.00\\8.00}$ | |
| | | (c) | Total | 21.25 | |
| | II. G.I.A. to B.C. Hostels for Amber Charkha sewing & | (a) | ~ ~ | 0.25 | 14.60 |
| | Knitting Machine | (b | | 1.00 | •• |
| | | | Total . | 1.25 | •• |
| 00 | BCK-22 Establishment of New B.C. Hostals and Development and | (a | | 90.00 | |
| 22 | Maintanance of Government | (b (c | | $90.00 \\ 1.45$ | •• |
| | | (d | | 1.40 | |
| | | (e | | 18.00 | • • |
| | | (f (g | | $\substack{\textbf{8.00}\\ \textbf{7.00}}$ | :: |
| | | ν | Total . | . 215.85 | |
| | 3 BCK-23 Establishment of New B.C. Hostals and Development and | 6 | s) S.C. | 65.00 | |
| 2 | Maintnance of Government Hostels for Girls | į (| b) S.T. | 75.00 | • • |
| | | (0 | | $\substack{\textbf{1.40}\\\textbf{1.40}}$ | |
| | | (e |) S.E.B.C. | 15. 00 | |
| | | (1 (g | | $f{5.00} \\ f{5.25}$ | :: |
| | | 18 | Total . | | |
| | Total for Dame | 10 |) S.C. | 34.00 | 34.00 |
| 2 | 4 BCK-24 Construction of Government Hostel for Boys | (a (1 (c |) S.T. | 40.00 20.00 | 40.00 20.00 |
| | | , | Total | 94.00 | 94.00 |
| _ | 25. BCK-25 Construction of Government Hostel for Girls | , | a) S.C. | 14.00 | 14.00 |
| 2 | 25. BCK-25 Construction of Government Hostel for Girls Studying in Colleges | (| b) S.T. | 20.00 | 20.00 |
| | ~ | | c) N.T. | $\begin{array}{c} \textbf{2.70} \\ \textbf{2.70} \end{array}$ | 2.70 2.70 |
| | | | d) D.N.T. e) S.E.B.C. | 10.00 | 10.00 |
| | | | f) E.B.C. | 5.00 7.00 | 5.00 7.00 |
| | | (| | | |
| | | | Total | 61.40 | 61.40 |

| 1 | | 2 | | | | 3 | 4 |
|------------|----------------|---|------------|------------------------|------------|--|-----------------------|
| 26 | BCK-26 | Addictinal coaching Centre in Government Hostel for | (a) | S.C. | | 3.75 | |
| | | Medical Engineering College going Students | (0) | S.T. | | 6.00 | • |
| | | | | | Total | 9.75 | |
| 7 | BC K-27 | Lok Sahitya Vidyalaya | (e) | S.E.B.C | l . | 20.00 | |
| 8 | BCK-28 | Ashram Schools | (a) | S.C. | | 150.00 | 30.00 |
| _ | | | (b) | S.T. | | 450.00 | 50.00 |
| | | | (c) | N.T. D.N. T. | | $\substack{\textbf{4.00}\\\textbf{4.10}}$ | •• |
| | | | (e) | S.E.B.C | | 75.00 | 10.00 |
| | | | | | Total | 683.10 | 90.00 |
| 9 | BCK-29 | Post basic Ashram School | (b) | S.T. | | 150.00 | |
| | | TOTAL EDUCATION | (a) | s.c. | | 1200.00 | |
| | | TOTAL EDUCATION | (b) | | | 1335.00 | 78.00 110.00 |
| | | | (c) | N.T. | | 54.00 | 2.70 |
| | | | (d) (e) | D.N.T. S.E.B.(| | 50.00 66 4. 00 | 2.70 |
| | | | (f) | E.B.C. | . | 135.00 | 40.0 0 5.00 |
| | | | (g) | Minori | ÿ | 158.00 | 7.00 |
| | | | | | Total | 3596.00 | 245.40 |
| i – | -ECONOM | C UPLIFT . | | | | | |
|) | BCK-30 | | (a) | S.C. | | 30.00 | |
| | | Agri. land | (6) | S.T. | Total | 25.00 | •• |
| | D/T/ 91 | Financial Assistance for Electrification of Agri. wells | (a) | S.C. | 10001 | 6.00 | ••• |
| L | | I. Financial Assistance for Milch Cattle and Poultry | (c) | N.T. | | 4.00 | ••• |
| 2 | BUK-32 | 1. Financial Assistance for infield Cartic and Founty | (d) | D.N.T. | | 5.00 | |
| | | (e) | S.E.B.C |). | 40.00 | | |
| | | | (f) (g) | E.B.C. Minorit | У | $\begin{array}{c} \textbf{15.00} \\ \textbf{3.00} \end{array}$ | |
| | | | | | Total | 67.00 | |
| | | II. Training centre for farmers | (a) | s.c. | | 0.50 | |
| 3 | BCK-33 | Veternity aid to Socio Economic Council centre | (e) | S.E.B. | c. | 3.00 | |
| | DOIZ 94 | F.A. to small trades/cottage Industries and Other | (a) | s.c. | | 200.00 | |
| 1 | BCW-24 | professions | (b) | S.T. | | 100.00 | |
| | | | (c) | N.T. | | 4.00 | |
| | | | | D.N.T. S.E.B.C | | 5.00 75.00 | •• |
| | | | (f) | E.B.C. | | 15.00 | |
| | | | (g) | Minorit | У | 13.00 | •• |
| | | | | | Total | 412.00 | |
| 5 | BCK-35 | Subsidy for purchase of Bamboo | (a) | S.C. | | 9.00 | |
| | | | (b) (e) | S.T. S.E.B.0 | . | $\substack{10.00\\4.00}$ | :: |
| | | | , , | | Total | 23.00 | |
| | BCK-36 | F.A. for purchase of inherited profession | (a) | s.c. | | 3.00 | |
| | | | (b) | S.T. S.E.B.C | , | 7.50 6.00 | ••• |
| | | | (e) (g) | Minorit | | 2.00 | :: |
| | | | 107 | | Total | | |
| | BCK-37 | F.A. for Self Employed Persons | (8) | s.c. | | 10.00 | |
| | | | (b) | S.T. | | 15.00 | |
| | | | (c) (d) | N.T. D.N.T. | | 3.50 3.50 | • • |
| | | | (e) | S.E.B. | O . | 20.00 | :: |
| | | | (f) | E.B.C. | | 9.00 | |
| | | | (g) | Minori | υV | 5.00 | •• |
| | | | | | | | |

| 1 |) | 2 | | 3 | 4 |
|----|------------------|--|------------------------------|---|---|
| | DOLL SO | F.A. for Ambar Charkhas Units | (a) S.C. | 12.00 | |
| 8 | ₽0 .V~3 8 | E-W- IOI WHITOUT OUTSITION OFFI | (b) S.T. | $\substack{10.00 \\ 2.00}$ | •• |
| | | | (c) N.T. (d) D.N.T. | 2.00 | • • |
| | | | (e) S.E.B.C. | 25.00 | •• |
| | | | (f) E.B.C. | 7.00 | |
| | | | Total | 58.00 | •• |
| | DOTE DO | F. A. to for Law Graduates | (a) S.C. | 5.00 | 2.77 |
| 9 | RCK-39 | F. A. to for Law Graduates | (b) S.T. | 4.00 | 2.22 |
| | | | (c) N.T. | 1.00 1.00 | $\begin{array}{c} \textbf{0.55} \\ \textbf{0.55} \end{array}$ |
| | | | (d) D.N.T. (e) S.E.B.C. | 1.00 | 0.55 |
| | | | Total | 12.00 | 6.64 |
| | | | (a) S.C. | 25.00 | 13.36 |
| 0 | BCK-40 | F.A. to Medical Gradutes | (b) S.T. | 20.00 | 10.64 |
| | | | (c) N.T. | 1.50 | 0.80 |
| | | | (d) D.N.T. (e) S.E.B.C. | $\substack{1.50\\8.00}$ | $egin{array}{c} 0.80 \ 4.24 \end{array}$ |
| | | | (e) S.E.B.C | 56.00 | 29.84 |
| | | | 10tal | | 29.84 |
| 1 | BCK-41 | Training for women in Tailoring | (a) S.C. | $\begin{array}{c} 20.00 \\ 25.00 \end{array}$ | 4. |
| | . — - · | - | (b) S.T. (c) N.T. | 25.00 2.50 | ** |
| | | | (d) D.N.T. | 2.50 | •• |
| | | | (e) S.E.B.C. | 18.00 | |
| | | | (g) Minority | 2.00 | ••• |
| | | | Total | 70.00 | •• |
| 2 | BCK-42 | Training Contre for repairing of Radio and T.V. for Women | (a) S.C. (b) S.T. | $\substack{\textbf{9.00}\\15.00}$ | • • |
| | | III Woman | Total | 24.00 | •• |
| | | Coaching Centre for Women for Field Job such as | (a) S.C. | 4.00 | TATE |
| 13 | BCK-43 | a teachers in Balwadi, Anganwad, Health and | (b) S.T. | 4.00 | |
| | | Paramedical Services | (e) S.E.B.C. | 2.00 | |
| | | | (f) E.B.C. | 2.00 | ••• |
| | | | Total | 12.00 | •• |
| 4 | BCK-44 | Training to Backward Class artisans at approved | (a) S.C. | 10.00 20.00 | |
| | | Workshop | (b) S.T. (c) N.T. | 1.50 | |
| | | | (d) D.N.T. | 1.50 | |
| | | | (e) S.E.B.C. | 30.00 | •• |
| | | | (f) E.B.C. | $\substack{\textbf{15.00} \\ \textbf{6.00}}$ | •• |
| | | | (g) Minority | | |
| | | | Total | 84.00 | |
| l5 | BCK-45 | Rehabilitation of sovangers and Sweepers in Other trades occupations | (a) S.C. | 52. 00 | •• |
| S | BCK-46 | Singend to Trainess in Training-cum-Production | (e) S.E.B.C. | 4.00 | |
| ľ | UU13-40 | Centres | (g) Minority | 5.00 | ••• |
| | | | Total | 9.00 | •• |
| 17 | BCK-47 | Building for Training-cum-Production Centres | (a) S.C. | 8.00 | 8.00 |
| Ļ7 | D ∩ 17-#1 | Direction to transmit out and an annual of | (b) S.T. | 12.00 | 12.00 |
| | | | (e) S.E.B.C. (g) Minority | $\begin{array}{c} 30.00 \\ 2.00 \end{array}$ | $egin{array}{c} {\bf 30.00} \ {f 2.00} \end{array}$ |
| | | | | | 52.00 |
| | | | Total | 22.00 | |
| 8 | BCK-48 | Operating of New Training-ours-Production Centres | (e) S.E.B.C. | _ | •• |
| 19 | BCK-49 | Maintanence and Development of Training-cum-Produc- | (a) S.C. | 2.50 5.00 | •• |
| | | tion Centres | (b) S.T. (c) N.T. | 0.50 | •• |
| | | | (d) D.N.T. | 0.50 | ••• |
| | | | | | |
| | | | (e) S.E.B.C. | 40.00 | |

| 1 | 2 | | 3 | 4 |
|-----------|--|----------------------------|---------------------------|---|
| 0 BCK-50 | Pre-Examination training coaching centre for compe- | (a) S.C. (b) S.T. | 7.00 5.00 | |
| | titive examination | (e) S.E.B.C. | 10.00 | 100 |
| | | Total | 22.00 | •• |
| BCK-51 | Professional and Industrial Training and coaching | (a) S.C. | 8.00 | |
| BCK-51 | centre. | (b) S.T. (c) N.T. | $10.00 \\ 2.00$ | |
| | | (d) D.N.T. | 2.00 | • • |
| | | (e) S.E.B.C. | 8.00 | •• |
| | | Total | 30.00 | • • |
| 2 BCK-52 | Coaching centre for Administrative Filed jobs such as constables Teachers and Paramedical Services | (b) S.T. | 12.00 | •• |
| | Ta U El Jee Hestel et Candhineger | (a) S.C. | 20.00 | •• |
| 3 BCK-53 | Full Fledge Hostel at Gandhinagar | (b) S.T. | 20.00 | •• |
| | | Total | 40.00 | • • |
| | F.A. for Coaching central and State Services (IAS | (a) S.C. | 3.00 | |
| 14 BCK-54 | and IPS) Examination | (b) S.T. | 2.00 | |
| | | Total | 5.00 | • |
| 55 BCK-55 | Special facilities for Girls students for the central and | (a) S.C. | 1.00 1.50 | 3,5 |
| 88 BCK-55 | State Services (IAS and IPS) Examination | (b) S.T. | | |
| | | Total | 2.50 | |
| | | (a) S.C. | 3.00 | |
| 56 BCK-56 | Apprentice Hostels | (b) S.T. | 6.00 | |
| | (e) S.E.B.C. | 2.00 | • • • • | |
| | | Total | 11.00 | |
| | | (a) S.C. | 6.00 | |
| 57 BCK- | 57 Migrating working man shed | (b) S.T. | 1.00 | |
| | | (c) N.T. (d) D.N.T. | $\substack{2.50 \\ 2.50}$ | • • |
| | | (a) D.N.1. (e) S.E.B.C. | 5.00 | |
| | | (g) Minority | 2.00 | •• |
| | | | 10.00 | |
| | | Total | 19.00 | *** |
| | was with the de Hardel | (a) S.C. | 6.00 | •• |
| 58 BCK- | 58 Working Men's Hostel | (b) S.T. | 10.00 | •• |
| | | Total | 16.00 | |
| | To a similar Development Corneration and Boards. | (a) S.C. | 290.00 | 200.00 |
| 69 BCK- | 59 Economical Development Corporation and Boards. | (b) S.T. | 450.00 | •• |
| | | (e) S.E.B.C. (f) E.B.C. | $15.00 \\ 12.00$ | •• |
| | | (g) Minority | 5.00 | - |
| | ¥ | Total | 772.00 | 200.00 |
| | Tibel | (a) S.C. | 750.00 | 224.13 |
| | TOTAL—ECONOMIC UPLIFT | (b) S.T. | 790.00 | 24.80 |
| | | (c) N.T. | 25.00 | $\substack{\textbf{1.3} \\ \textbf{1.3} \\ }$ |
| | | (d) D.N.T. (e) S.E.B.C. | $27.00 \\ 368.00$ | 34.7 |
| | | (f) E.B.C. | 75.00 | _ |
| | | (g) Minority | 45.00 | 2.0 |
| | | TOTAL | 2080.00 | 288.4 |
| | | | | |

| 1 | | 2 | | | 3 | 4 |
|------------------|-----------|---|----------------------------|------|--|-------------|
| Ш- | _HEALTH, | HOUSING AND OTHER SCHEMES | | | | |
| 60 | BCK-60 | Free Medical Aid | (a) S.C. | | 40.00 | 9.227 |
| • | 202 00 | | (b) S.T. | | 90.00 | |
| | | | (c) N.T. | | 2.70 | |
| | | | (d) D.N.T. | | 3.70 | |
| | | | (e) S.E.B.C. (f) E.B.C. | | $\begin{array}{c} 39.00 \\ 7.00 \end{array}$ | •• |
| | | | (g) Minority | | 4.00 | •• |
| | | | Total | | 186.40 | |
| | | | Total | •• | 180.40 | |
| 61 | BCK-61 | Balwadi, Anganwadi and Primary Education Centres | (a) S.C. | | 35.00 | •• |
| | | | (b) S.T. (c) N.T. | | $\substack{24.00\\3.00}$ | •• |
| | | | (d) D.N.T. | | 3.00 | • • |
| | | | (e) S.E.B.C. | | 35.00 | |
| | | (g) Minority | | 2.50 | •• | |
| | | | Total | •• | 102.50 | •• |
| 62 | BOK-32 | Special facilities to children studying in Privates | (a) S.C. | | 4.00 | |
| 0.2 | 19.012-02 | Balmandir. | (b) S.T. | | 6.00 | ** |
| | | | Total | | 10.00 | •• |
| | | | | - | | |
| 63 | BCK-63 | Free clothing to children in Balwadi | (a) S.C. | | 18.00 | |
| | | | (b) S.T. | | 15.00 | • • |
| | | | (o) N.T. (d) D.N.T. | | 3.00 | |
| | | | Total | | 40.00 | |
| | | | 10001 | •• | | |
| 64 | BCK-64 | F.A.to Youth Mandal and Mahila for supply of sport | (a) S.C. | | 3.00 | |
| | | articles and cultural activities. | (b) S.T. | | 5.00 | •• |
| | | | (e) S.E.B.C. (f) E.B.C. | | 5.00 4.00 | •• |
| | | | (g) Minority | | 1.00 | •• |
| | | | (8) ===== | | 2.00 | •• |
| | | | Total | | 18.00 | |
| a s | DOV AS | Community centre | (a) S.C. | • | 45.00 | |
| 65 | BCK-65 | Community contra | (b) S.T. | | 35.00 | •• |
| | | | (c) S.E.B.C. | | 10.00 | - |
| | | | Total | •• | 90.00 | |
| | | | | | | |
| -66 | BCK-66 | F.A. for Housing on individual basis | (a) S.C. | | 145.00 | •• |
| | | | (b) S.T. (c) N.T. | | 85.00 3.00 | |
| | | | (d) D.N.T. | | 4.50 | 11.90 |
| | | | (e) S.E.B.C. | | 100.00 | |
| | | | (f) E.B.C. | | 11.00 | ** |
| | | | (g) Minority | | 16.00 | •• |
| | | | Total | •• | 364.50 | |
| R ^I 7 | BCK-67 | F.A. for Housing in urban area | (a) S.C. | | 85.00 | |
| •• | 70-41 | TITEL TAN TRANSMENT TO ME AND ADAM. | (b) S.T. | | 35.00 | |
| | | | (e) S.E.B.C. | | 40.00 | |
| | | | (f) E.B.C. | | 10.00 | |
| | | | (g) Minority | | 18.00 | • 8 |
| | | | Total | •• | 188.00 | ** |
| | | | | • | | |

| 1 | ł | 2 | | | 3 | 4 |
|-------------|-------------------------|---|----------------|------------------|---|--------|
| 6 8 | BCK-68 | F. A. to Halpatis for Housesites | (b) | S.T. | 335.00 | 163.77 |
| 69 9 | | Subsidy for Housing and provision for sweepers and | (a) S | S.C. | 50.00 | |
| | | Scavangers. | | S.C. | 80.00 | |
| 70 | | Special Housing Scheme for Bhangi on individual basis | ` ' | 8.C. | 20.00 | 14.00 |
| 71 | BCK-71 | F. A. to Co-operative Housing Societies P.W.R. 219 | (a) 8 (b) 8 | | 20.00 | 11.00 |
| | | | | N.T. | 4.70 | 2.58 |
| | | | (d) | D.N.T. | 6.00 | 3.30 |
| | | | | Total | 50.70 | 30.88 |
| _ | o DOZ 79 | F.A. to Co-op. Housing Societies | | s.c. | 7.00 | •• |
| 7 | 2 BUK-12 | (thorugh Rural H.B.) | | S.T. S.E.B.C. | $\begin{matrix} \textbf{7.00} \\ \textbf{60.00} \end{matrix}$ | |
| | | | | E.B.C. | 4.00 | |
| | | | | Total | 78.00 | |
| | | | | | | |
| 7: | BCK-78 | Free legal assistance for Civil and Criminal | (a) | S.C. | 2.00 2.00 | •• |
| • | | Proceedings | (b) (ø) | S.T. S.E.B.C. | 6.00 | |
| | | | | Total . | 10.00 | |
| 76 | RCK-74 | F.A. to Sch. Castes for social boycott and other calarity. | (a) | s.c. | 8.00 | 1100 |
| | | F.A. to victims vitims of atrocities | (a) | S.C. | 5.00 | |
| .71 | BUK-75 | F.A. to viguing viting of autocores | (b) (ø) | S.T. N.T. | 5.00 0.80 | |
| | | | (d) | D.N.T. | 1.00 | |
| | | | | Total | 11.80 | •• |
| | | | (0) | s.c. | 8.00 | ••• |
| 7 | BOK-78 | F.A. to encourages inter caste marriages between Harijans, and Hindu castes | (4) | | • | |
| I | 7 BCK-77 | Additional F.A. to local bodies for Purchasing of wheel barrows and organising shibirs for removal of untouchability | (a) | s.c. | 2.00 | ••• |
| 3 | 8 BCK-78 | Grant-in-aid to district Panchayat for upliftment | (a) | | 45.00 | |
| (2) | J OI 2 10 | | (b) | | 50.00 | ••• |
| | | | (e) | 8.E.B.C. | 30.00 | |
| | | | | Total | 125.00 | •• |
| | | | | | | |
| -7 | 79 BCK-7 | 9 Shibir for Bhangi Kasta Mukti and seminar on un- touchability and training classes for intensive drive for eradication of Untouchability. | (a) | s.c. | 10.00 | •• |
| | 80 BCK-8 | O Social Education Camps | (a |) S.C. | 2.00 | |
| ** | | • | (b |) S.T. | 8.00 | |
| | | ÷* | (e | | 0.00 | •• |
| | | | (f | | [0.80 0.50 | .: |
| | | | (g |) writering | | |
| | | | | Total | 12.30 | |

| 1 | | 2 | | | | 3 | 4 |
|----|------------|---|-------------|--------------------|----|---|------|
| 81 | BCK-81 | Special Cell and Vehicles for intensive drive for eradication of untouchability | (a) | S.C. | | 45.00 | |
| 82 | BCK-82 | Givil Protection Right Act | (a) | s.c. | | 20.00 | •• |
| | BOK-83 | Special Pracharak for Bhangi Welfare | (a) | s.c. | | 25.00 | •• |
| 83 | | F. A. to Voluntary agencies for propaganda Field | | S.C. | | 3.00 | |
| 84 | BCK-84 | Workers. | (b) | S.T. | | $\begin{array}{c} \textbf{4.00} \\ \textbf{2.00} \end{array}$ | ** |
| | | | (o) (d) | N.T. D.N.T. | | 1.00 | |
| | | | (e) (f) | S.E.B.C. E.B.C. | | $15.00 \\ 0.02$ | :: |
| | | | | Total | | 25,02 | ••• |
| | | and the second | (e) | S.E.B.C. | | 0.40 | |
| 85 | PCK-85 | Quantification Cell | (f) | E.B.C. | | 1.18 | •• |
| | | | (g) | Minorlty | | 2.00 | ·· |
| | | | | Total | •• | 3.58 | |
| | n 977 . 04 | Administrative Machinery for post S.S.C. Echoleschips | (a) | s.c. | | 9.00 | |
| 86 | BCK-86 | Administrative machinery for forest | (b) (e) | | | 15.00 3.60 | |
| | | | (-, | 212121 | | | |
| | | | | Total | | 27.60 | |
| | | a a literatura de all lengte | (a) | s.c. | | 10.00 | |
| 87 | BCK-87 | Strengthening of administrative machinery at all levels | (a) | S.T. | | 60.00 | |
| | | | (e) (f) | | | 90.00 1.60 | ••• |
| | | | (g) | Minorit y | | 3.00 | :: |
| | | | | Total | | 164.60 | 11.5 |
| | | Strengthening of staff for Special Component Plan | (a |) S.C. | | 64.00 | |
| 88 | BJZ-33 | Spraigonaling of sour los Spraig | (b) | S.T. | | 15.00 | |
| | | | (e) | S.E.B.C. | | 10.00 | •• |
| | | | | Total | | 89.00 | |
| | | | (a. |) S.C. | | 3.00 | 0.0 |
| 89 | BCK-88 | Technical Unit | (b) | S.T. | | 3.50 0.80 | •• |
| | | | (d. (c) | D.N.T. | | 0.80 | :: |
| | | | (e) | S.E.B.C. | | 1.00 0.40 | |
| | | | (f) | E.D.O. | _ | | |
| | | | | Total | •• | 9.50 | |
| 90 | BCK-90 | Survey of individual family oriented programmys for 282 villages under component plan | (a) | s.c. | | 5.00 | |
| | 200 | Research study and evaluation | (a) | S.C. | | 2.00 | |
| | | TERROPIUM DULLEY WING TITTETT | | | | | |
| 91 | BOK-91 | | (ө |) S.E.B.C. | | 1.00 | ••• |

| 1 | | 2 | | | | 3 | 4 |
|----|--------|--|------------|--------------|---|---------|----------------|
| 92 | BCK-92 | Tribal Research and Training Institutes | (b) | S.T. | | 5.50 | |
| 3 | BOK-93 | Training Programme for improving qualiffy of personal to for the advaice essessment of scheme. | (e) | S.E.B.C. | | 4.00 | |
| 94 | BCK-94 | Nuclues Budget | (a) | S.C. | | 50.00 | |
| _ | | • | (b) | S. T. | | 55.00 | |
| | | | (e) | S.E.B.C. | | 4.00 | 40.4 |
| | | | | Total | | 109.00 | |
| 5 | BCK-95 | Purchase and Maintanance of Vehicle | (e) | S.E.B.C. | | 8.00 | |
| | | TOTAL HEALTH, HOUSING AND OTHERS SCHEME | (a) | S.C. | | 850.00 | 14.00 |
| | | , . | (b) | | | 875.00 | 174. 77 |
| | | | (0) | N.T. | | 21.00 | 2.58 |
| | | | (d) | D.N.T. | | 23.00 | 3.30 |
| | | | (e) | S.E.B.C. | | 468.00 | •• |
| | | | (f) | E.B.C. | | 40.00 | |
| | | | (g) | Minority | | 47.00 | |
| | | | | Total | | 2324.00 | 194.65 |
| | | GRAND TOTAL | (a) | S.C. | | 2800.00 | 316.13 |
| | | | (b) | S.T. | | 3000.00 | 309.63 |
| | | 1.2.7 | (0) | N.T. | | 100.00 | 6.63 |
| | | | (d) | D.N.T. | | 100.00 | 7.35 |
| | | | (e) | S.E.B.C. | | 1500.00 | 74.79 |
| | | | (f) | E.B.O. | | 250.00 | 5.00 |
| | | | (g) | Minority | | 250,00 | 9.00 |
| | | | | TOTAL | _ | 8000.00 | 728.53 |

Note:- (a) S.C-Schedule Castes.

⁽b) S.T—Scheduled Tribes.

⁽c) N.T.—Nomadic Tribes.

⁽d) D.N.T.—Denotified Tribes.

⁽e) S.E.B.C.—Socially and Educationally Backward Classes.

⁽f) E.B.C.—Economically Backward Classes.

⁽g) Minority—Minoritiy Communities.

7.13. SOCIAL WELFARE

7.13.1. Introduction

7.13.1.1. In our social and economic environment women, children and handicapped persons face special problems. Social Welfare in its w der connotation would mean the family and group welfare for those who are deprived and afflicted by operation of social and economic forces. However, it would be necessary to identify special problems of women, children, delinquents handicapped, destitutes and beggars.

7.13.1.2. Total population of Gujarat (1971) was 267 lakhs, of these women were 129 lakhs. 10.26 lakhs women were workers participating in various economic activities. Women employed as agricultural labourers, mining and quarrying, forestry, construction and other hazardous and arduous-activities should receive our special attention in view of the nature of their work. Vast majority of these women are found in rural areas. Women participating in economic activities in urban sectors, especially those who are employed in an unorganised sector of industries, casual labour and petty self-employment also face various hardships.

7.13.1.3. The programme under the social welfare mainly covers destitute and delinquent children afflicted young girls and women, young offenders, handicapped, old and physically handicapped destitutes and beggars. Measures are directed to provide relief and succour to those categories of weaker-sections of the society so that they can have an opportunity of overcoming the difficulties facing them. The various measures are carried out through institutional and non-institutional services. The activities under this sub-sector also cover educational and propoganda work on prohibition.

7.13.2. Approach

7.13.2.1. The programme for the period 1980-85 has been designed to increase self reliance among cially and physically handicapped persons who are the most vulnerable sections of the society. Due priority has been given to the Welfare programme for women, children and handicapped. In order to assist women to become self relient through selfemployment, it is proposed to establish a Women's Economic Development Corporation in the State. Provision is made for the care, protection and rehabilitation of children and for the effective implementation of the Children Act as well as the Probation of Offenders Act. In view of the strategy now adopted in the field of social welfare for the betterment of the weaker sections, suitable new schemes are also proposed to be taken up. An amount of Rs. 450.00 lakhs has been proposed for the Sixth five year plan 1980-85 for implementing the different programmes under this sub-sector.

7.13.3. Perogramme for 1980-85

7.13.3.1. An outlay of Rs. 450.00 lakhs has been proposed for the Sixth Five Year Plan 1980-85. The broad break up of the outlay is as under:—

| | (Rs. i | n lakhs) |
|------------|-----------------------------------|-----------------|
| Sr. | Programme | Outlay |
| No. | | 19 ິ0-85 |
| 1 | 2 | 3 |
| 1. | Direction and Administration | 10.00 |
| 2. | Family and Child Welfare | |
| | (including Women Welfare) | 187.00 |
| 3. | Education and Welfare of Handi- | |
| | capped (International Year for | |
| | Disabled persons) | 70.00 |
| 4. | Welfare of Poor and Destitutes | 5.00 |
| 5 . | Grants to Voluntary Organisations | 30.00 |
| 6. | Other Schemes of Social Defence | 98.0 |
| 7. | Prohibition | 50.00 |
| | Total . | . 450.00 |

Direction and Administration

7.13.3.2. The various programmes are implemented through the Directorate of Social Defence. During the last ten year the activities have considerabley expanded. It is, therefore, proposed to strengthen the administrative machinery at State Level. In order to co-ordinate the women welfare programme and to implement news services, a Women's Bureau has been suggested at Headquarters. The department is disbursing scholarships to the physically handicapped chidren. State scholarship is for students upto VIIIth Standard and the Government of India Scholarships is for students beyond VIIIth standard upto higher education. A Scholarship cell at headquarters is proposed. Similarly, it is proposed to estabish a Monitouring Unit for effective feed-back of the programme. The Rehabilitation Colony established at Morbi for the flood affected women, children and old persons through assistance is to be constinued as the programmes will cover the new beneficiaries. Provision is also suggested to organise seminars, training programmes, to publish useful literature for the programmes of International Year of Child and as well as the programmes for the International year for Disabled persons (I.Y.D.P.).

Family and Child Welfare

Child Welfare.

7.13.5.3. Provision is proposed for the State share under the centrally sponsored schemes viz. services for children in need of care and protection and a programme for foster care. The programme of holiday homes for children, balwadi started in urban slum, rural and tribal areas, bal kendras etc. started during International Year of

Child will be continued. It is proposed to provide a vehicle at the Mental Hygiene Clinic, Ahmedabad for providing specialised services to the mentally retarded children. It is proposed to establish one more clinic to be established. It is also proposed to strengthen the administrative machinery at district level for the co-ordination of the programme and for the effective implementation of the Social Legislations by converting the existing posts of Child Marriage Prevention Officers as the District Social Defence Officers and creating some more posts of the Social Defence Officers in the remaining districts. Under the I.Y.C. Programme the various child welfare programmes including initiating Balbhavan activities in 16 towns have been undertaken. It is proposed to implement the welfare programme for the children working in an unorganised sector by establishing welfare centres and providing training programme for the children engaged in child labour work. It is also proposed to improve the facilities a to expand the programme for children in the Government as well as in the voluntary institutions.

Women Welfare

7.13.3.4. Under the Women Welfare Programme it is proposed to establish Socio-Economic unit every year for a specialised category of small industry, through which women will learn a new job to earn livlihood. It is proposed to study the health problems of women engaged in hazardous work. Mahila Mandals are given grant through State Social Welfare Board. It is proposed to organise such women groups through Taluka Panchayat. The training centres will be organised and the destitute widows will be assisted to become selfreliant by sanctioning them the financial assistance for maintenance at the rate of Rs. 30/per month and the dependent children (upto two) will be given Rs. 25/- per month per child. They will have to join a training programme during which she will get stipend of Rs. 50/- per months. To coordinate and to implement new economic programme for women it is proposed to establish a Women's Development Corporation. In order to make an impact on the the problem of child mortality by improving the health of the mother it is proposed to provide foodgrains of the value of Rs for the first and second birth, provided they accept family planning practice. The expectant or nursing mothers will be covered from the landless labourers and working women in hazaerdous work living below the poverty line. This is a programme for the assistance in the Area Development Programme as social inputs

Education and Welfare of the Handicapped (International year for Disabled persons)

7.13.3.5. The welfare activities which are being carried out for the physically handicapped are educa-

tion, training and rehabilitation for blind, deafdumb, the orthopaedically handicapped, mentally retarded etc. The normal activities under this progsamme will be continued. In addition to these, one school for the blind and deaf-dumb children will be established in the tribal area. The application under the State Scholarship to the physically handicapped students and for the prospthetic aids to the physically handicapped persons are increase and it is proposed to cover all the beneficiaries during the International year for Disabled persons (I.Y.D.P.). It is proposed to revise the rates of prosthetic aid from Rs. 600/- to Rs 1000/- per case in relation to the income aslab so as to cover all the needy been ficairies during I.Y.D.P. A new scheme has been proposed to encourage the parents to send their handicapped children to normal schools and it is proposed togive financial assistance at the rate of Rs 25/- per month in the form of food grains. This will enableto enchance the enrolment of physically handicappped children in normal schools and thereby stranethening the scheme of integrated Education for the physically handicapped children. Provisions has been made to develop the training programme in the existing schools and institutions for the physically handicapped. Similarly, the number of voluntary institutions serving the physically handicapped. are increasing. It is proposed to increase the rate of grant-in-aid to cover up the needy during the I.Y.D.P.

Welfare of Poor and Destitutes:

7.13.3.6. Under this programme, the orphan children are given scholarships for higher studies, the released prisoners and their dependent are given financial aid for their rehabilitation. It is proposed to increase the rate of aid from Rs. 600 to Rs. 1000 for the purchase of house-hold equipments etc. and Rs. 3000 in the form of National Saving Certificate to be given to the orhphan girls in their rehabilitation and marriage.

Others

7.13.3.7. The activities pertaining to probation services under the probation of offender Act will be continued and expanded during the Sixth Plan period. The programme for the rehabilitation of beggers will also be continued.

Prohibition:

7.13.3.8. An outlay of Rs. 50.00 lakhs is provided mainly for starting of New Nashabandhi Sanskar Kendras, subsidy to Bhajan Mandlies setting up of Vigilance and Prohibition intelligence squad and Subsidies to Yuvak Mandals and Mahik. Mandals.

Social Welfare.

List of Schemes included in the Sixth Five Year Plan 1980-85

(Rs. in lakhs).

| Sr. No. | . N | To. and Name of the Scheme. | Sixth Five Year Plan Outlay. | 1980-85 |
|---------|-------------|---|---------------------------------|----------|
| | | | Total | Capital. |
| 1 | | 2 | 3 | 4 |
| I. Di | rection and | Administration. | | |
| 1 | SCW1. | Strengthening of Administrative machinery at State level. | 3.00 | |
| 2 | SCW2. | Training, Research and Seminar in the field of Social Welfare. | 1.50 | |
| 3 | SCW3. | Establishment of Women's Bureau (Cell) | 2.50 | •• |
| 4 | SCW—4. | Establishment of Scholarship cell at Headquarter. | 2.00 | |
| 5 | SCW5. | Monitoring Unit for Development Programme. | 1.00 | |
| | | Total—I | 10.00 | |
| II. F | amily and c | hild Welfare | | |
| | (i) child | Welfare | | |
| 6 | SCW6. | Services for children in need of care and protection (C. S. P.). | 8.00 | |
| 7 | SCW7. | Holiday Homes for Children. | 2.00 | • • |
| 8 | SCW8. | Development Programmes for Child Welfare Balwadies etc. | 15.00 | |
| 9 | SCW9. | Setting up of machinery for implementation of Social Legislation and Social Reforms. | 5.00 | ., |
| 10 | SCW-10. | Setting up of Mental Hygiene Clinic for problematic children and mentally retarded children. | 2.00 | ++ |
| 11 | SCW11. | Established of an Institutional under Children Act and expansion of institutions services. | 5.00 | •• |
| 12 | SCW12. | Training programme for children working as child labour. | 2.00 | •• |
| 13 | SCW—13. | Implementation of National Policy for children and establishment of Children's Board (I. Y. C. Programmes). | 100.00 | •• |
| | | Total—(i) | 139.00 | |

| 1 | | 2 | 3 | 4 |
|----------------------------------|--|---|---|-------|
| | (ii) Wom | en Welfare | | |
| 14 | SCW-14. | (a) Setting up of Day Care Centres and Creches for working women (Gandhinagar complex) | 3.00 | ••• |
| | | (b) Establishment of working women's Hostel | 2.00 | 63 |
| 15 | SCW15. | Setting up of Socio-economic units. | 5.00 | |
| 16 | SCW-16. | Study of the Health problem of women engaged in economic activities. | 10.00 | |
| 17 | SCW-17. | Grants to taluka Panchayats to organise Mahila Mandals. | 2.00 | 44 |
| 18 | SCW—18. | Establishment of Women's Development Corporation. | 7.00 | |
| 19 | SCW19. | Establishment and Expansion of Institutions and new services under S. I. T. Act. | 5 .00 | |
| 20 | SCW-20. | Social inputs in Area Development Programme. | 15.00 | |
| 21 | SCW-21. | Grant of financial Assistance to destitutes widows for their rehabilitation. | 5.00 | 1.12 |
| 22 | SCW22. | Training Centre for the rehabilitation of the women in distress (C. S. P.) | 3.00 | |
| | | Total (ii) | 48.00 | |
| | | 10041 (11) | 40.00 | *** |
| ш. | | Total—II nd Welfare of Handicapped onal Year for Disabled Persons.) | 187.00 | 114.6 |
| III. | (Internation | Total—II nd Welfare of Handicapped | | |
| | (International SCW—23. | Total—II ad Welfare of Handicapped anal Year for Disabled Persons.) Establishment of one school for blind, deaf and | 187.00 | |
| ´ 23 | SCW—23. | Total—II ad Welfare of Handicapped anal Year for Disabled Persons.) Establishment of one school for blind, deaf and mute children. | 2.50 | |
| ´ 23 24 | SCW—23. | Total—II nd Welfare of Handicapped mal Year for Disabled Persons.) Establishment of one school for blind, deaf and mute children. Scholarships to Physically Handicapped children. Financial Assistance to parents of Handicapped children to encourage schoolling in the form of Food | 187.00 2.50 | |
| 23 24 25 | SCW—23. SCW—24. SCW—25. | Total—II nd Welfare of Handicapped mal Year for Disabled Persons.) Establishment of one school for blind, deaf and mute children. Scholarships to Physically Handicapped children. Financial Assistance to parents of Handicapped children to encourage schoolling in the form of Food Grains. Prosthetic aid and other relief to Physically | 187.00 2.50 13.00 2.00 | |
| 23 24 25 26 | (International SCW—23.) SCW—24. SCW—25. | Total—II and Welfare of Handicapped smal Year for Disabled Persons.) Establishment of one school for blind, deaf and mute children. Scholarships to Physically Handicapped children. Financial Assistance to parents of Handicapped children to encourage schoolling in the form of Food Grains. Prosthetic aid and other relief to Physically Handicapped. Expansion and Improvement of facilities in the existing institutions and schools for physically | 187.00 2.50 13.00 2.00 | |
| 23 24 25 26 27 | (Internation SCW—23. SCW—24. SCW—25. SCW—26. SCW—27. | Total—II and Welfare of Handicapped and Year for Disabled Persons.) Establishment of one school for blind, deaf and mute children. Scholarships to Physically Handicapped children. Financial Assistance to parents of Handicapped children to encourage schoolling in the form of Food Grains. Prosthetic aid and other relief to Physically Handicapped. Expansion and Improvement of facilities in the existing institutions and schools for physically handicapped. Grant in aid under the scheme of welfare of | 187.00 2.50 13.00 2.00 7.00 6.50 | |
| 23 24 25 26 27 28 | (Internation SCW—23. SCW—24. SCW—25. SCW—26. SCW—27. | Total—II and Welfare of Handicapped and Year for Disabled Persons.) Establishment of one school for blind, deaf and mute children. Scholarships to Physically Handicapped children. Financial Assistance to parents of Handicapped children to encourage schoolling in the form of Food Grains. Prosthetic aid and other relief to Physically Handicapped. Expansion and Improvement of facilities in the existing institutions and schools for physically handicapped. Grant in aid under the scheme of welfare of Physically Handicapped. Integrated Education for Physically-Handicapped | 187.00 2.50 13.00 2.00 7.00 6.50 | |

| | 1 | 2 | 3 | 4 |
|------|-----------------|--|--------|-------|
| IV. | Welfare of | Poor and Destitutes. | | |
| 31 | SCW-31. | After Care and Rehabilitation programmes for orphans and persons released from Correctional and non-correctional Institutions. | 5.00 | •• |
| | | Total-IV. | 5.00 | •• |
| V. | Grant to Vol | untary Organisations | | |
| 32 | SCW-32. | Grant to Voluntary Organisations for expansion of existing services and for starting new services. | 30.00 | •• |
| | | Total-V. | 30.00 | •• |
| VI. | Other Schen | nes of Social Defence | | |
| 33 | SCW-33. | After care and rehabilitation programmes for beggats in big cities and places of pilgrimages. | 17.00 | •• |
| 34 | S CW-34. | Expansion for Probation Services under P. O. Act, and other Social Services. | 5.00 | •• |
| 35 | SCW-35. | Provision for building Programmes of new and existing homes. | 76.00 | 76.00 |
| | | Total-VI. | 98.00 | 76.00 |
| VII. | Prohibition | | | |
| 36 | SCW-36. | Starting of New Nashabandhi Sansker Kendras. | 15.75 | •• |
| 37 | SCW-37. | Subsidies to Bhajan Mandalies. | 10.33 | •• |
| 38 | SCW-38. | Vigilance and Prohibition Intelligence squad. | 13.87 | ••• |
| 39 | SCW-39. | Subsidies to Yuvak Mandals and Mahila Mandals. | 10.05 | •• |
| | | Total-VII. | 50.00 | •• |
| | | GRAND TOTAL | 450.00 | 76.00 |

7.14 NUTRITION

7.14.1. Surveys both elsewhere in the country and in the State have revealed deficiencies of calories and protein in the daily diet of the following groups.

| | Group | Deficiency d | in daily |
|----|--|-----------------|-----------|
| | | Calories | Protein |
| а. | Children below 6 years belonging to weaker sections. | 300 | 10-12 gm. |
| b. | Prognant women and nursing mothers. | 500 | 20-25 gm. |

number of school going children also A large from nutritional deficiencies. Nutritional deficiency in these groups corelates we dity and mortality and malnutrition with morbiamongst women and premature births. pregnant is some evidence to show that the growth (including the cognitive develorment) of a child may be permanently affected if nutritional deficiency occurs during the terminal part of gestation in the uterus and the first year of postnatal life. These facts constitute the context of the inclusion of 'Nutrition' in the Minimum Needs Programme. Both the programmes under implementation in the State viz., (i) the Special Nutrition Programme and (ii) the Mid-day Meal Programme are primarily meant for supplementary feeding. The salient features of these schemes are summarised in the following table:-

| | | Special Nutrition Programm | Programme |
|------------|---|---|--|
| A | Target group(s) | 1 | School going children in the age group 6-11. |
| (b) | Area of operation. | Tribal/rural area and urban slums | Rural area |
| (c) | Supplementary protein supply | 300 calories and 10-12 gm. of protein to children; 500 caloreis with 20-25 gms. of protein to pregnant women and nursing mothers. | 300 calories; 10-12 gm of protein. |
| (d) | Annual duration of supplementary feeding. | 240 (CARE food materials) 300 days (WFP food materials) | 200 days. |
| (e) | Coverage at the end of 1979-80 | 7.70 lakhs | 4.28 lakhs |
| (f) | Implementing agency | Local bodies | Primary Schools |

7.14.2. The Special Nutrition Programme envisages, further, the integration of medical care, immunization, health, and referral services and nutrition education with the provision of the nutritional supplement. These services are delivered through the organiser (balsevika) at the feeding centre under the supervision of health visitors, the auxiliary nurse mid-wife and the medical officer of a Primary Health Centre/dispensary. At the end of 1979-80, 550 feeding centres under the programme had been upgraded to integrated health-cum-nutrition centres. The nutrition component of ICDS projects is also served under the Special Nutrition Programme.

7.14.3. Programme for 1980-85

7.14.3.1. An outlay of Rs. 1665 lakhs is proposed for the sub-sector "Nutrition" for the Sixth Five Year Plan 1980-85. The broad break up of the proposed outlay is as under:—

| | | (Rs in lakhs) |
|------------|-----------------------------|----------------------------|
| Sr. No. | Programme | Proposed outlay 1980-85 |
| 1 | 2 | 3 |
| 1. | Special Nutrition Programme | 1015.00 |
| 2. | Mid-day-Meal Programme | 650.00 |
| | To | tal 1665.00 |

Out of an outlay of Rs. 1015.00 lakhs for Special Nutrition Programme, an outlay of Rs. 470.00 lakhs is proposed for Nutrition Component in non ICDS Projects while an outlay of Rs. 545.00 lakhis for ICDS Projects.

7.14.4. The Physical targets envisaged under the programmes are as under:—

1980-85 (lakhs)

1-Special Nutrition Programme:

- (a) number of additional beneficiaries.
- 4.00
- (b) number of additional feeding centres to be upgraded.

1200

2-M'd-day Meal Programme:

number of additional beneficiaries

4.25

7.14.5. Integrated Child Development Services Schemes (Centrally Sponsored programme).

7.14.5.1. The objectives of the Scheme are :--

- (i) to improve the nutritional and health status of Children in the age group 0-6 years and of nursing and expectant mothers;
- (ii) to lay the foundation for proper psychological, physical and social development of the child;
- (iii) to reduce the incidence of mortality, morbidity, malnutrition and school drop-out;
- (iv) to achieve effective coordination of policy and implementation amongst the various departments to promote child development; and
- (v) to enhance the capability of the mother to look after the normal health and nutritional needs of the Child through proper nutrition and health education.

The following is the package of Six Services provided to the children in the age group 0-6 and to pregnant and nursing mothers in the ICDS Project areas.

- 1. Supplementary nutrition,
- 2. Nutrition and health education.
- 3. Immunisation.
- 4. Health check-up;
- 5. Referral Services; and
- 6. Non-formal pre-school education.

7.14.5.2. Initially a project was started in Chhotaudepur tribal block on an experimental basis in the Fifth Plan. 11 more blocks namely Chikhali, Chotila, Ahmedabad, Dehgam, Valia, Talala, Danta, Valod, Dohad, Vadodara, Khedbrahma have been taken up during 1979-80. The UNICEF assists these projects through the provision of vehicles refrigeration equiument etc.

STATEMENT

Nutrition

List of Schemes included in the Sixth Five Year Plan 1980-85 outlays.

| | | (Rs | in lakh) |
|---------|--|-------------------------|----------------------|
| Si N | | | Year Plan outlays |
| 1 | . 2 | Total 3 | Capital 4 |
| 1 | NTR-1 Special Nutrition Programme in non-ICDS. | 470.00 | |
| 2 | NTR-2 Nutrition element in ICDS. | 5 4 5 .00 | |
| 3 | NTR-3 Mid-day Meal- Programme | 650. 0 0 | • • |
| | Total | 1665.00 | |

7.15. CIVIL SUPPLIES, PUBLIC DISTRIBUTION AND CONSUMERS' PROTECTION

7.15.1.1. In the context of increasing price situation the need for adequate production as well as smooth distribution of essential commodities assumes critical importance. In Gujarat which has a significant tribal population and areas which have poorcommunication, implementation of this programme becomes all the more relevant, urgent and significant. The State Government at present does not have adequate muchinary for open market purchase. Moreover, in the absence of a Central Agency it is very difficult to open fair price shops in remote places and tribal areas as private entrepreneurs are not willing to open shops at such places.

7.15.2. Juliurat State Civil Supplies Corporation :

7.15.2.1 The Gujarat State Civil Supplies Corporation was set up in October 1980 primarily with a view to achieve the following objectives viz., (i) streamlining of procurement, storage and distribution of food-grains and other essential commodities; (ii) strengthening of public distribution system by widening products mix of essential commodities sold through the fair price shops, (iii) to supplement existing outlets by opening outlets in remote and tribal areas to make essential commodities. evailable easily to the vulnerable section of the society; and (iv) to act as an agency to get better deal for the vulnerable sections of the producers especially tribals and marginal farmers by achieving treasonable returns for their products.

77.15.2.2. A wide range of activities is visualised for the Civil Supplies Corporation. In the initial stages; it will supplement procurement operation of the agencies of the Government of India by undertaking procurement operation of coarse-grains and also the Corporation would actively try to increase the number of products sold through the fair price shops in co-ordination with agencies like State Textile Corporation. Handloom Corporation. etc., and the producer's items required by the common man like soap, matches, etc. The Corporation will be the model agency for negotiating with the producers of various products, arrange distribution through the existing fair price shops as well additional outlet will be opened. It is also expected to undertake agency for distribuction of cooking gas in the first instance. A prowision of Rs. 125 lakhs is proposed for the Corpora' tion.

Creation of additional Storage Capacity:

7.15.2.3. Adequate warehousing and storage facility as an important element in the stategy for building

up requisite quantum of buffer stock of foodgrains and other essential commodities. At present there is a not work of nearly 412 godowns with a capacity of about 1.92 lakh tonnes. 45 Taluka Headquarters are without godowns. During the Sixth Plan period it is proposed to enhance this capacity to 2.12 lakh tonnes. It is proposed to set up standard type of godowns, in view of the need to provide outlets at remote places; it is also proposed to have godown-cum-shop outlets for which optimum design would be finalised. This aspect would achieve the objective of ensuring steady supplies of essential commodities in the Tribal and in remote areas of the State. An outlay of Rs. 10 lakhs is proposed for 1980-85.

Consumers' Protection:

7.15.2.4. With a view to bring down prices by streamlining procurement and distribution of essential commodities and to protect the rights and interests of the consumers against the exploitation by unscrupulous traders and adulteration in foodgrains and other essential commodities, it is necessary to strengthen the consumers' protection movement by way of multi-media approach and thereby making consumers awars of their rights.

7.15.2.5. Consumer Education.—A systematic programme is visualised under which multi-media approach will be adepted for making consumers aware of their rights under the various orders relating to the Essential Commodities Act and Prevention of Food Adulteration Act, Weights and Measures Act, etc. Another aspect of the Consumer education would be to ensure that they do not become willing agencies for encouraging hoarding and speculation. This will involve display of cinema slides, advertisements in paper, TV and documentary films as well as booklests and pamphlets.

3.15.2.6. Consumer Protection Societies.—Under the consumer movement is it also proposed to encourage formation of active consumer guidance protection societies. The grant-in-aid for these institutions would be for activities like formation of consumer libraries, organising campaign for consumers' education and the scientific study of selected products with a view to improve their quality and reduction in prices. A provision of Rs. 15 lakhs is proposed in the Sixth Five Year Plan 1980-85 for this purpose.

Civil Supplies

List of schemes included in the Sixth Five Year Plan 1980---85

| | | | (Rs | s. in lakhs) |
|------------|--|---|-----------------------|--------------|
| Sr. No. | No. and Name of the Scheme | | ixth Firlan, outla | 1980-85 |
| | | Ţ | otal | Capital |
| 1 | 2 | | 3 | 4 |
| | | | | |
| r PD8-1 | Share capital contribution for Civil Supplies Corpora- tion. | | 125 | 125 |
| PD8-1 | Share capital contribution for Civil Supplies Corpora- | | 125 15 | 1 25 |
| | Share capital contribution for Civil Supplies Corpora- tion. Grant-in-aid to consumers' | | | |

7.16 STATISTICS

7.16.1.1. The need for a comprehensive and integrated system of statistics arises from three interrelated considerations; the complexity both of the process of eodernic change and of inter-sectoral linkages in economic development; the role of Government in the determination of the direction and rate of economic change, the significance of detais at all stages of the planning process (especially formulation and implementation), and the information needs of the machinery set up in the State for decentralised planning.

7.16.2. Review

7.16.2.1. Considerable importus was given to the Statistics programme during the period of the Fifth Plan, 1974-78. In addition to strengthening the machinery for the collection of statistics at both district and taluka levels, encouraging the conduct of socio-economic surveys by research/professional institutions, and providing for the generation of regional/district level estimates from socio-economic data collected under the National Sample Survey, a data bank was established at the State Computer Centre to provide comprehensive and up-dated information for diverse planning needs. A third generation computer (Model: ICL-1901-A) with generation computer enhanced storage and processing capability was installed in 1975, and a large number of personnel have been trained in programming languages and software programmes for the computer.

7.16.2.2. In 1977-78, an economic census was conducted throughout the State in respect of establishments in the non-agricultural sector under the Central plan scheme of Economic Census and Surveys; this was followed in 1978-79 and 1979-80, by sample surveys of different segments of the unorganised non-agricultural sector to provide information on investment, employment, income input, output, etc.

7.16.2.3. A Training Division is established in the Bureau of Economics and Statistics in 1979-80 to cope up with training needs arising from expansion of the machinery for statistics at various levels and from the increased use of electronic data processing for the information needs of Government departments. Other schemes taken up in 1979-80 include the upgradation, in a phased manner, of the posts of District Statistical Officer in all except two districts of the State; and the creation of a Field Task Force for evaluation studies by the Directorate of Evaluation.

7.16.3. Programme for 1980-85:

7.16.3.1. The major objectives of the programme for 1980-85 are :—

(a) to enhance capability for the collection and processing of data at the levels both the State and the district;

- (b) to make available reliable disaggregated information on socio-economic indicators in respect of sub-regions of the State.
- (c) to increase the availability of specialist studies on various aspects of socio-economic development in the State.

7.16.3.2. The following table presents an activity-wise breakup of the outlay of Rs. 250 lakhs for the period 1980-85:

(Rs. in lakhs)

| Programme | Outlay 1980-85 |
|---|-------------------|
| 1. Strengthening of EDP Capability | 77.00 |
| 2. Conduct of surveys, analyses, research and evaluation studies (including compilation of Regional Accounts) | - |
| 3. Strengthening of statistical machinery at district level for data collection, project planning and evaluation. | |
| 4. Training | 9.50 |
| 5. Other expenditure. | 70.00 |
| Total | 250.00 |

Strengthening of Electrionic Data Processing Capability:

7.16.3.3. Owing to the incresing use of electronic data processing by Government departments, Government corporations, and local bodies, the existing ICL-1901-A computer is proposed to be replaced by a computer with a larger memory and with multi-Programming capability. Steps have been initiated to select a model appropriate to the projected increase in work load; the new computer is to be installed by 1982-83. A microcomputer (ECIL-MICRO-78) has been acquired in 1980-81; its processing capability is proposed to be augmented. The acquisition, in a phased manner of key-to-floppy machines to replace the existing. punching/varifying machines is also envisaged. An outlay of Rs. 77 lakhs is proposed for the purpose during the plan period 1980-85.

Surveys, Analysis, Research and Evaluation Studies :

7.16.3.4. In the context of decentralised planning, the need exists for a system of Regional (State) accounts which would present information on major economic indicators (production, consumption, capital formation, etc.); on transactions of the State with the rest of the economy; and on transactions of the State Government both with the Government of India and with local bodies and other economic institutions within the State. Such a system would involve the estimation of capital formation and savings (in the public, private, and household sectors), and the compilation of an index of industrial production for the State. The drawing up of a system of regional (State) accounts is thus a task of considerable magnitude requiring the resolution of a wide range of methodological and conceptual problems. Accordingly, it is proposed to appoint separate staff for the initiation of the necessary, analysis. An outlay of Rs. 2.15 lakhs is proposed for the purpose for the period 1980-85.

7.16.3.5. The need is often felt in the conduct of evaluation stales for professional expertise that can be supplied by neither the Directorate of Evaluation nor the Alministrative Departments concerned. To meet this need, the creation is envisaged of a consultancy fund for expenditure on professional services. An outlay of Ro. 6.00 lakks has been proposed for the purpose.

7.16.3.6. Additional establishment was created in 1979-3) for the inalysis of Social Statistics from data collected through various census, surveys, etc. This establishment is proposed to be continued and strengthened during the Plan period 1980-85 with an outlay of Rs. 6.0) lakes. This establishment will be entrusted, in addition, with analysis (for the purpose of comparisions between Gujarat and other States in the country) of data made available by the agencies like the Reserve Bank of India, the National Sample Survey Organisation etc.

7.16.3 7 (a) It is proposed to continue the establishment created in the Directorate of Evaluation for the building up of district-wise development indicators and for the preparation of district-wise reports on development during plan period 1980-85 with an outlay of Rs. 8.50 lakhs. (b) The task force created in the Directorate of Evaluation for field inquiries forming part of evaluation studies is proposed to be continued during the Sixth Plan 1980-85 for which a provision of Rs. 5.75 lakhs is proposed. (c) The scheme of financial assistance to professional/ academic institutions for undertaking socio-economic surveys and special studies of use in the planning process is proposed to be continued during the Sixth Plan 1980-85 for which an outlay of Rs. 10.00 lakhs is proposed.

Strengthening of Statistical Machinery at District Level:

7.16.3.8. The increased decentralisation of planning responsibilities to the level of the district and the emphasis in the area planning approach on areas smaller than that of the district (for instance, special programme for rural development and the Tribal Area Sub-Plan) require a much higher level of capability than that exists at present at district level for the formulation and evaluation of projects. Two schemes are, accordingly, proposed for the strengthening of the machinery for planning at district level.

7.16.3.9. Under a Central sector programme, a District Project Planning Cell was established during the Fifth Plan period in Panchmahals District. The establishment of the Cell (which works under the technical guidance of the Sardar Patel Institute of Social and Economic Research, Ahmedabad) has been made for Project formulation that is realistic, effective, and consonant with local needs and resources. It has been decided to continue the cell under state plan on completing its term as Central Project from 1981-82. In view of the encouraging results of the experiment in Panchmahals a similar cell is proposed to be established in another district under the State Plan. A provision of Rs. 18.00 lakhs is proposed for the Sixth Plan 1980-85.

7.16.3.10. Owing to differences in local conditions, concurrent project evaluation at State level is less capable of providing useful corrective feedback than district level evaluation machinery. It is therefore proposed to build evaluation capability into the existing machinery for planning at district level through the creation, in a phased manner, of evaluation cells that would be subordinate to the District Planning Boards. A provision of Rs. 1.35 lakhs is proposed for the plan period.

7.16.3.11. In view of the increased emphasis on district and block level planning, a scheme for the strengthening of statistical machinery at district level was taken up in 1979-80. The scheme envisages the creation of an additional post of Research Assistant in each district and the upgradation to Class I status of the post of District Statistical Officer in all but two districts (Dangs and Gandhinagar) in a phased manner. An outlay of Rs. 35.75 lakks is proposed for the purpose for the period 1980-85

7.16.3.12. The expansion of the machinery for planning at various levels and the decentralisation of the planning process argue the need for systematic training in the concepts, methods, and techniques of planning. It is therefore proposed to organise training courses for planning personnel with modern equipment and teaching aids and, as a supportive measure, to improve library and research facilities in the Directorate of Evaluation. An outlay of Rs. 2.32 lakhs is proposed for the purpose for the plan period 1980-85.

7.16.3.13. The Training Division has been established in the Bureau of Economics and Statistics in 1979-80 for imparting training to satistical personnel and for the running of courses having reference to electronic data processing. The Division is proposed to be strengthened during the plan period 1980-85. An outlay of Rs. 7.18 lakh proposed for the purpose.

Centre for Monitoring Gujarat Economy

7.16.3.14. A Centre for monitoring Gujarat Economy is proposed to be set up for the monitoring of major projects in the State and for the study of socio-economic aggregates viz., Prices, incomes, employment, production, consumption levels, etc. at micro level. Further, electronic data processing

systems consisting of a micro-processor with peripheral equipment are proposed to be introduced in a phased manner in a few districts towards improving the availability of district level data. A provision of Rs. 59.00 lakhs is proposed for this purpose for this plan period 1980-85.

Planning Atlas

7.10.3.15. For countinuance of the schemes of elanning Atles and for the strengthening of the establishment unit of the Bureau of Economics and Statistics as wellas the projects initiated in 1979-80 for the preparation of a Planning Atlas of Gujarat suitable previsions is preposed in the Sixth Plan 1980-85.

Statistics

Schemewise Outlays in the Sixth Five Year Plan 1980--85.

| Stati | stics:— | - | • | | | (Rs. in lakhs). |
|-------|---------|----------------|--|-------------------|---------------|-----------------|
| Sr. | | No. and N | Name of the Scheme. | Sixth Five Year F | Plan 1980-85. | |
| No. | | | | Total | Capital | |
| 1 | | | 2 | 3 | 4 | |
| Α. | Bure | su of Econ | omics and Statistics. | | | |
| | 1. | STT-1 | Development of Computer Centre. | 77.00 | • • | |
| | 2, | STT—2 | Strengthening of Administration in Bureau of Economics and Statistics. | 6.00 | | |
| | 3. | STT—3 | Stengthening of Statistical Machinery at district level in District Panchayat. | 35.75 | | |
| | 4. | STT-4 | Financial Assistance to Research Institution. | 10.00 | •• | |
| | 5. | STT-5 | Training Division. | 7.18 | •• | |
| | 6. | STT—6 | Socio-Economic Research Studies and Economic analysis of statistical data. | 6.00 | •• | |
| | 7. | STT—7 | Studies for compilation of Regional Accounts. | 2.15 | | |
| | 8. | S T T—8 | Setting up of a Centre for Monitoring Gujarat Economy. | 50.00 | | |
| | 9. | STT-9 | Preparation of Planning Atlas of Gujarat. | 20.00 | | |
| | | | Total (A) | 214.08 | | |
| B. | Dire | ctorate of E | Evaluation. | | | |
| | 10. | STT-10 | Strengthening of Directorate of Evaluation. | 8.50 | •• | |
| | 11. | STT-11 | Creation of Field Task Force in the Directorate of Evaluation. | 5.7 5 | | |
| | 12. | STT-12 | Creation of District Project Planning Cell. | 18.00 | • • | |
| | 13. | STT-13 | Establishment of Training Units for Planning Personnel. | 2.32 | • • | |
| | 14. | STT-14 | Creation of Evaluation Machinery at district .level. | 1.35 | •• | |
| | | | Total (B) | 35.92 | | |
| | | | Grand Total (A+B | 250.00 | | |

7.17. PLANNING MACHINERY

7.17.1. The Planning Division in the General Administration Department headed by the Chief Secretary has been placed in charge of the Special Secretary (Planning) from 1978. This division provides general direction and looks after co-orination of plan programmes and reviews the overall progress of plan implementation. It is obvious that to justify the work of the formulation of the appropriate economic policies, programmes and projects at different stages, their effective implementation is necessary. In order to achieve the objectives of the Plan for the next phase of development of the State, it was deemed necessary to strengthen and reorganise the Planning Division and, therefore, some new posts have been created and the division has been strengthened and reorganised with the following Units:-

- 1. Programming Unit
- 2. Financial Analyst Unit.
- 3. Perspective Planning Unit.
- 4. Multi-level Planning Unit.
- 5. Monitoring and Evaluation Unit.
- 6. State Planning Board Unit.
- 7. 20-Point Economic Programme Unit.

7.17.1.2. At the apex level the State Planning Board in its present form was constituted for the first time in August, 1973 under the Chairmanship of the Chief Minister. It underwent modifications from time to time. The State Planning Board has been reconstituted in September, 1980 with the Chief Minister as Chairman, Minister of Finance and Planning as Vice-Chairman and includes other members with considerable knowledge and distinguished record of service in different fields. The functions of the Board includes those relating to Plan formulation, moniroting and evaluation of plan program ness and training for Development Personnel.

7.17.1.3. Plan programmes at State level are implemented by the executive Heads of Departments under the directions and control of the various Administrative Departments of the Secretariat concarned with their respective sectors of development. At the district level schemes are divided into two parts viz., those retained by the Government and those transferred to the District Panchayats. The schemes retained by the Government are implemented by the district executive heads of departments under the direction and supervision of the Government Departments directly while the transferred schemes are implemented by the District Panchayats.

7.17.1.4. In the Draft Sixth Five Year Plan 1980-85 prepared by the Planning Commission emphasis has been laid on grass-root planning by augmenting the capabilities of development administration both at the district level as well as the block level. Greater importance is also being attached to effective decentralisation of the planning process. In this context, systematic and realistic formulation and efficient implementation of district plan assumes considerable significance. It is of vital importance that planning at district level fully reflects the local aspirations and meaningful popular participation as also partipation of experts and local leaders is ensured to the utmost extent possible both in the formulation and implementation of the plans. It is equalyy necessary that district plans are formulated having due regard to the State Plan objectives, stategies and priorities and within the limits of financial resources in sight.

7.17.1.5. In addition, effective linkages need to established between the State level and the district level planning. Having regard to these considerations, the State Government has reconstituted in September, 1980, the District Planning Board in each district with District Collector as Chairman, President of the District Panchayat as Co-Chairman, Presidents of two or three Taluka Panchayats, all M.Ps. and all M.L.As. in the district, President/ Mayor of one Municipality/Corporation, President of One Nagar Panchayat, expert from a Research Institution, Chairman, District Central Co-op. Bank, a member of the State Planning Board, a representative of the District Lead Bank, District Development, Officer, Project Administrator, Tribal Area Sub-Plan as members and District Planning Officer and District Statistical Officer as Member-Secretary and Additional Member-Secretary respectively. A small Executive Planning Committee for ensuring effective working of the District Planning Board under the Chairmanship of the District Collector has also been constituted. The functions of the District Planning Board are vide enough to cover various aspects of the Plan formulation, monitoring and evaluation besides facilitating popular participation in the development process. Special monitoring and evaluation of the implementation of minimum needs programme also constitutes the vital function of A new element the District Planning Board. of discretionary and incentive outlay for district level schemes has been introduced with effect from the year 1980-81. The schemes are to be formulated by the District planning Board with complete freedom of choice keeping the local needs and balanced development of in view the district, mainly in the selected fields such as Agriculture, Minor Irrigation, Cottage Industries and the programmes covered under the Minimum Needs Programme;

7.17.1.6. Till the end of the Fifth Plan, there was no separate Planning Unit at the District

Level. During the year 1978-79, a District Planning Unit in each district under the control of the Collector has been established by Government. Each such unit has a small technical staff consisting of one Research Officer, one Research Assistant, one Statistical Assistant and a clerk and typist and is headed by a District Planning Officer. Posts of one Deputy Mamlatda and a sub-auditor have also been added to the unit. In the context of the responsibilities now cast, the organisation and the structure of the district Planning Unit will be reviewed from time to time and suitable strengthening and improvement will be effected as and when necessary.

7.17.1.7. An outlay of Rs. 5 lakhs is proposed for the Sixth Five Year Plan 1980-85 as State's Share towards machinery in the Planning Division at appex level which is expected to be supplemented by the Central Government to the tune of Rs. 10 lakhs, thus resulting in the total outlay of Rs. 15 lakhs for the five year period 1980-85.

7.17.2 Training of Development personnel

7.17.2.1. Plan projects and programmes in the various sectors are being implemented by a number of agencies namely Government departments, public undertakings, Panchayats, other local bodies and even voluntary agencies. Realising the role of training in developing necessary skills, the State has been taking advantages of the training facilities available with the Government of India and the National Institutes working in he field of training and research etc. The State also runs certain training centres/courses for imparting training to suit the needs of programme in specific sectors like Community Development, Public Works, Medical and Health etc. Even though there is a functional division of work and responsibilities amongst various administrative and implementing agencies concerned with different sectoral projects and programmies, there has to be a close inter-relationship in the total scheme of plan formulation and implementation. The quality of formulation and implementation of plan programmes ultimately depends on the quality of personnel deployed on this task. It is, therefore, necessary to pay more-special attention to the training needs of development personnel. This is sought to be achieved by the development of Sardar Patel Institute of Public Administration which has been set up by the Government in 1962.

7.17.2.2. The Sardar Patel Institute of Public Administration mparts pre-service and in-service train-

ing to various categories of officers and staff. It is now proposed to improve the coverage and quality of training imparted through this institute and to develop it as the premier institute in the State for imparting training to improve the administrative, technical and managerial capabilities of the personnel engaged in the economic development, planning and implementation task. For this purpose, it has been considered necessary to provide suitable and adequate accomodation to the institute, better facilities for the trainees and to strengthen and improve the library and reseach facilities and to provide modern equipments and teaching aids, etc., on an adequate seale.

7.17.2.3. The institute does not have its own building at present. It is proposed to construct suitable building for the institute. Land for the building has already been acquired. The institute will also conduct research in the behavioural agencies, management techniques and district administration. It has therefore been proposed to set up a research cell in the institute. It is also proposed to strengthen and provide upto date facilities for library teaching equipments and aids etc. In view of the new strategy of decentralised planning which also calls for much more intimate popular participation in the development process and the massive programmes for accelerating the development of rural and backward areas and the upliftment of the weaker sections and the poor, it will also be necessary to impart the appropriate motivation and healthy attitudental changes in the minds of the trainees. aspect will be given due importance in the programme for faculty development.

7.17.2.4. An outlay of Rs. 75.00 lakhs is provided in the Sixth Five Year Plan, 1980-85 for development of the Sardar Patel Institute of Public Administration and the training programmes, etc. Broad break-up of the outlay is as under:—

| | | - | (Rs. in lakhs) Outlay 1980-85 |
|----|---------------------|-----------------------|-------------------------------------|
| 1. | | Research and Library. | 15.00 |
| 2. | Building, aid, etc. | Training equipments | 60.00 |
| | | | 75.00 |
| | | | |

Planning Machinery and Training of Development Personnel

List of Schemes included in the Sixth Five Year Plan Plan 1980---85

(Rs. in lakhs)

| Sr. | Na a Calla Callana | Sixth Five Y | Sixth Five Year Plan 1980-85 Or | | |
|-----------------------------------|------------------------------|--------------|---------------------------------|---------|--|
| No. No. and | Name of the Scheme | | Total | Capital | |
| 1 | 2 | | 3 | 4 | |
| I. Training of Development Person | nnel. | | | | |
| 1. TDP1 Training Programme | for Development of Personnel | | 15.00 | | |
| 2. TDP2 Building, Training E | quipment aid, etc. | | 60.00 | 60.00 | |
| | | Total | 75.00 | 60.00 | |
| II. Planning Machinery. | | | | | |
| 3. PLM1 Planning Machiner | 7. | | 5.00 | 4.4 | |
| | | Grand Total | 80.00 | 60.00 | |

STATEMENT-I

Major Headwise Summary of outlays for the Sixth Five Year Plan 1980-85

(Rs. in lakhs)

| Sr. No. | | Head of Development | Outlays for the S Plan 1 | |
|------------|------|--|-----------------------------|----------|
| | | | Total | Capital |
| 1 | | 2 | 3 | 4 |
| I. | 1. | Agricultural Research and Education | 1000.00 | |
| | 1. | Crop Husbandry | 3100.00 | 363.36 |
| | 3. | Land Reforms | 1000.00 | •• |
| | 4. | Minor Irrigation | 8800.00 | 1240.00 |
| | 5. | Soil and Water Conservation | 2894.00 | 410.00 |
| | 6. | Irrigation Command Area Development | 1877.00 | 451.40 |
| | 7. | Animal Husbandry | 1770.00 | 363.25 |
| | 8. | Dairy Development | 205.00 | 50.00 |
| | 9. | Fisheries | 2000.00 | 994.76 |
| | 10. | Forests | 9000.00 | 7526.50 |
| | 11. | Investment in Agricultural Financial Institutions. | 350.00 | 350.00 |
| | 12. | Marketing, storage and Warehousing | 170.00 | 90.00 |
| | 13. | Community Development and Panchayats | 627.00 | 14.46 |
| | 14. | Development of backward areas | 250.00 | •• |
| | 15. | Special Programmes for Rural Development. | 14407.00 | 492.00 |
| | | Total-Agriculture and Allied Services | 47450.00 | 12345.73 |
| • | 16. | Co-operation | 3200.00 | 2696.26 |
| I. | 17. | Water Development (Irrigation) | 100000.00 | 98045.00 |
| 7. | 18. | Power Development | 96484.00 | 96384.00 |
| | Indu | stries and Minerals | | |
| | 19. | Village and Small Industries | 9596.40 | 3790.42 |
| | 20. | Large and Medium Industries | 6363.60 | 5761.60 |
| | 21. | Mining and Metarlurgical Industries. | 1150.00 | 800.00 |
| | | Total-Industries and Minerals | . 17110.00 | 10352.02 |
| • | Tran | sport and Communications | | |
| | 22. | Road Development | 22000.00 | 22000.00 |
| | 23. | Road Transport | 9000.00 | 9000.00 |
| | 24. | Tourism | 260.00 | 150.83 |
| | 25. | Ports, Light Houses and shipping | 2600.00 | 2580.00 |
| | | Total-Transport and Communication | 33860.00 | 33730.83 |
| | | • | | |

H-2683-83

| 1 | 2 | 3 | 4 |
|-------------|---|-----------------|-----------------|
| II. Soc | ial and Community Services | | |
| 26. | General Education | 5560.00 | 564.48 |
| 27. | Technical Education | 600.00 | 23 0.00 |
| 28. | Medical, Public Health and Sanitation | 7000.00 | 725.76 |
| 29. | Social Inputs | 500.00 | •• |
| 3 9. | Sewerage and Water Supply | 15076.00 | 13851.00 |
| 31. | Housing | 8530 .00 | 5253 .00 |
| 32 . | Urban Development | 2850.00 | 1895.00 |
| 33. | State Capital Project | 3000.00 | 3000.00 |
| 34. | Information and Publicity | 85.00 | 15.65 |
| 35. | Labour and Labour Welfare | 4000.00 | 1052.48 |
| 36. | Welfare of Backward Classes | 8000.00 | 728.53 |
| 37. | Social Welfare | 450.00 | 76 .00 |
| 38. | Nutrition | 1665.00 | |
| | Total—Social and Community Services . | 57316.00 | 27391.90 |
| III. Eo | onomic Services | | |
| 3 9. | Secretariat Economics Services (Planning Machinery) | 5.00 | • • |
| 40. | Economic Advice and Statistics. | 250.00 | •• |
| 41. | Training of Dovelopment Personnel | 75.00 | 60.00 |
| 42. | Administrative Machinery for Tribal Area Sub-Plan. | 100.00 | •• |
| 43. | Civil Supplies Corporation and Consumers Protection | 150.00 | 135.00 |
| | Total-Economic Services | 580.00 | 195 .00 |
| X. 44. | Decentralised District Planning | 20000.00 | |
| | GRAND TOTAL . | . 376000.00 | 281140.7 |

STATEMENT—II

Minor Headwise Outlays for the Sixth Five Year Plan 1980--85.

(Rs. in Lakhs)

| r. Minor Head of Development | 0 | utlays for the Si Plan 198 | xth Five Yea: |
|---|-------|-------------------------------|---------------|
| | | Total | Capital |
| 2 | | 3 | 4 |
| 1. Agricultural Research and Education. | | | |
| 1. Agricultural Education. | | 554 .00 | · · · |
| 2. Agricultural Research. | | 346 .00 | |
| 3. Assistance from ICAR. | | 100.00 | |
| | Total | 1000.00 | |
| 2. Crop Husbandary. | | | |
| 1. Direction and Administration. | | 999.49 | 202.00 |
| 2. Multiplication and distribution of seeds. | | 171.95 | 0.25 |
| 3. Manures and Fertilizers. | | 45 0. 94 | 64.69 |
| 4. Plant Protection. | | 237.45 | 3.27 |
| 5. Commercial Crops. | | 354.55 | |
| 6. Extension and Farmer's Training. | | 304.00 | 93.21 |
| 7. Agricultural Engineering. | | 191.28 | |
| 8. Agricultural Economics and Statistics. | | 95.43 | •• |
| 9. Horticulture | | 208.91 | •• |
| 10. Other Expenditure | | 20.00 | |
| 11. Contingency Plan. | | 45.00 | •• |
| 12. Nucleus Budget. | | 21.00 | •• |
| | Total | 3100.00 | 363.36 |
| Land Reforms. | | | |
| 1. Land Reforms. | | 820.00 | • |
| 2. Consokidation of Holding. | | 180.00 | |
| | Total | 1000.00 | •• |
| . Minor Irrigation | | | |
| 1. Investigation and Development of Ground Water Resources. | | 6000.00 | 40.00 |
| 2. Tubewells. | | 2350.00 | 1200.00 |
| 3. Lift Irrigation Scheme. | | 80.00 | •• |
| 4. Other Minor Irrigstion Works. | | 370.00 | •• |
| | Total | 8800.00 | 1240.00 |

| 1 | 2 | | 3 | 4 |
|------------|--|-------|----------------|--------|
| S. Soil | and Water Conservation. | | | |
| 1. | Direction and Administration | | 50. 00 | • • |
| 2. | Research. | | 5.00 | ** |
| 3. | Education and Training. | | 10.00 | 10.00 |
| .4. | Soil Conservation | | 1482.55 | •• |
| 5. | Other Expenditure | | 946.45 | •• |
| 6. | Ghed Area Development | | 400.00 | 400.00 |
| | | Total | 2894.00 | 410.00 |
| 6. I,rri | gation Command Area Development. | | 1877.00 | 451.40 |
| | | Total | 1877.00 | 451.40 |
| 7. Ani | mal Hyusbandry. | | | |
| 1. | Direction and Administration | | 70.00 | 45.00 |
| 2. | Veterinary Education and Training | | 12.00 | |
| ·- 3. | Veterinary Services and Animal Health | | 271.00 | 79.21 |
| 4. | Investigation and Statistics. | | 18.00 | • • |
| 5. | Cattle Development. | | 663.00 | 66.00 |
| 6, | Poultry Development. | | 431.00 | 92.90 |
| 7. | Sheep and Wool Development | | 214.00 | 55.84 |
| 8. | Other Live stock Development. | | 41.00 | 24.30 |
| 9. | Feed and Fodder Development | | 5 0.00 | •• |
| | | Total | 1770.00 | 363.25 |
| . Dairy | Development | | | |
| 1. | Direction and Administration | | 4.00 | |
| 2. | Dairy Development. | | 195.00 | 50.00 |
| 3. | Research, Education and Training. | | 6.00 | •• |
| | | Total | 205.00 | 50.00 |
| 9. Fish | eries. | _ | · · · | |
| 1, | Direction and Administration. | | 25 .00 | •• |
| 2. | Extension. | | 50.00 | •• |
| 3. | Research. | | 200.00 | 104.22 |
| 4. | Education and Training. | | 89.91 | 45.31 |
| 5. | Inland Fisheries. | | 636. 00 | 220.89 |
| 6. | Deep See Fisheries. | | 76.40 | |
| 7. | Processing, Preservation and Marketing. | | 3 50.00 | 275.00 |
| 8. | Mechanisation and Improvement of Fishing Crafts. | | 411.60 | 193.00 |
| | Others. | | 161.09 | 156.34 |
| 9. | | | | |

| 10. For | , | | | |
|----------|--|-------|--------------------------------|--------------------|
| 1. | rests. | | | |
| | . Direction and Administration | | 110.30 | |
| 2. | Research. | | 41.00 | |
| 3. | Education and Training. | | 153.00 | |
| 4. | . Forest Conservation and Development. | | 63 0.90 | 630.90 |
| 5. | 146.1 | | 6 57.40 | 295.90 |
| 6. | | | 188.70 | 186.50 |
| | | | | * |
| 7. | | | 179.30 | 179.30 |
| 8. | Preservation of Wild life. | | 310.00 | |
| 9. | Extension. | | 6186.40 | 6186.40 |
| 10. | Management and Zamindari (Acquisition of Private Forests). | | 40.00 | 12.00 |
| 11. | Other Expenditure. | | 503.00 | 35.50 |
| st , 4. | was a state of the | Total | 9000.00 | 7526.50 |
| 11. Inv | vestment in Agricultural Financial Institutions. | | | |
| 1. | Investment in Agricultural Financial Institutions. | | 350.00 | 350.00 |
| | | Total | 350.00 | 350.00 |
| 12. Ma | arketing, Storage and Warehousing. | 9.200 | | |
| 1. | Development of Regulated Markets. | | 70.00 | 35 .00 |
| 2. | Share-Capital to State Warehousing Corporation. | | 55.00 | 55.00 |
| 3. | | | 25.00 | |
| 4. | | | 20.00 | |
| | | Total | 170.00 | 00.00 |
| 13. Cor | mmunity Development and Panchayats. | 10041 | | 90.00 |
| | 1 1 | | 4.00 | |
| ι. | | | 4.20 | •• |
| 2. | ŭ | | 42.05 | .14.46 |
| 3. | | | 355.00 | |
| 4. | Community Development Programme. | | 225.75 | |
| | 4. | Total | 627.00 | 14.46 |
| 14. De | velopment of Bachward Areas. | | 250.00 | |
| l5. Spe | cial Programme For Rurzl Development. | | | |
| 1. | Integrated Rural Development. | | 3815.00 | |
| 2. | | | 4500.00 | •• |
| 3. 4. | Drought Prone Area Programme (including Desert Development Programme) Antyodaya. | | 1950.00 | 400.00 |
| 5. | Block Level Planning for Employment. | | 492.00 700.00 | 492.00 |
| 6. | Strengthening and Supporting Special Programme Organisation. | | 500.00 | - |
| 7. | Local Development Works Programme. | | 1250.00 | |
| 8. 9. | Abhinav Gram Nirman Karyakram, Off-Season Unemployment Relief Works. | | 1050.00 150.00 | •• |
| | Total:- | • | | 409.00 |
| | TotalI Agriculture and Allied Services. | - | 14407.00 47450.00 | 492.00 12345.73 |

| 1 | * | 2 | 3 | ė |
|------|--------|--|-----------------------|------------------|
| II. | Co-o | peration. | | |
| | 1. | Direction and Administration. | 50.00 | |
| - 1 | 2. | Credit Co-operatives. | 1952.80 | 1690.90 |
| | 3. | Labour Co-operativos. | 6.00 | 2.53 |
| | 4. | Farming Co-operatives. | 5.20 | 1.50 |
| | 5. | Warehousing and Marketing Co-operatives. | 83.50 | 21.00 |
| | 6. | Processing Co-operatives. | $\boldsymbol{100.00}$ | 100.00 |
| | 7. | Co-operative Sugar Mills. | 500.00 | 485.00 |
| | 8. | Consumer Co-operatives. | 40.00 | 32.83 |
| | 9. | Co-operative Training and Education. | 109.00 | 11.330 |
| | 10. | Others. | 362 .50 | 362.50 |
| | | total | 3200.00 | 2696.2 6 |
| | | | | 90 99 |
| "П. | Wata | r Development (Irrigation). | | |
| ,44. | 1. | Multipurpose River Valley Projects. | 3 8560.00 | 385 57.00 |
| | 2. | Major and Medium Irrigation Projects. | | 1 1 1 1 1 |
| | ۳. | (a) Major Projects. | 21207.00 | 21161.09 |
| | | (b) Modium Projects. | 17068.00 | 17068.00 |
| | 3. | Flood Control, Drainage, Prevention of Salinity Ingress, Water Development Services etc. | 23165.00 | 21259.00 |
| | | Total | 100000.00 | 98045.00 |
| | | | | |
| IV. | Powe | r Development : | | |
| | 1. | Power Development (Survey, Investigation and Research.) | 100.00 | 100.00 |
| | | Power Projects (Generation) | 63095.00 | 63095.00 |
| - | | Transmission and Distribution. | 25000.00 | 25000.00 |
| | 4. | Rural Electriffcation. | 8024.00 | 8024.00 |
| | 5. | General | 265.00 | 165.00 |
| | | Total IV : Power Development . | . 96484.00 | 96384.00 |
| | | | | |
| v. | Indust | ries and Minerals. | | |
| • | (A) \ | Village and Small Industries: | | |
| | 1. | Direction and Administration. | 25.00 | •• |
| | 2. | Small Scale Industries. | 6565.40 | 3347.00 |
| | 3. | Handloom Industry. | 470.00 | 121.00 |
| | 4. | Handieraft Industries. | 115.00 | 10.00 |
| | 5. | Co-operative Industries | 240.00 | 70.00 |

| 1 | | 2 | | 3 | 4 |
|---------|---------|---|----------------------------------|-------------------|------------------------|
| 6 | i. K | hadi Industries. | | 1450.00 | 171.52 |
| 7 | . 0 | tiors. | | 831.00 | 7 0. 9 0 |
| | | | Total—(A) | 9596.40 | 379042 |
| (8) | f.as. | rge and Medium Industries. | · | 6 3 63.60 | 5761.60 |
| (C) | | ning and Motallurgical Industries. | * . | | 5102.00 |
| i (°) | | ineral Exploration and Development | | 1150.00 | 800.00 |
| • | | motor Employed for the Editors Page 1 | Total-V-Industries and Minerals. | 17110.00 | 10352.02 |
| VI. Tr | 9710710 | ort and Communications. | - | | (0) |
| | | | | | |
| (1) | | ad Development : | | | |
| 1 | | nimum Needs Programme Rurai Roads), | | 1 6659 .00 | 16659.00 |
| 2 | . Oi | her than M. N. P. Roads. | | 5841.00 | 534 1.00 |
| | | - 446 | Total | 22000.00 | 22000.00 |
| (2) | | ad Transport. | 0 | 900.000 | 9009.00 |
| (3) | To | driam. | × | - | |
| | 1. | Tourist Accommodation. | | 150.83 | 150.83 |
| | 2. | Tourist Information and Publicity. | | 11.00 | |
| | 3. | Other expenditure | 1 | 95.17 | |
| | | | Total | 260.00 | 150.88 |
| 8.3 | | 174 | _ | (e) | |
| (4) | Por | ta, Light Houses and Shipping. | | | |
| | 1. | • | | 1796.00 | 1776.00 |
| | 2. | • | β | -5.00 | 5.00 |
| | 3. | | | 250 .00 | 250.00 |
| | 4. | • | | 54 2.00 | 542.00 |
| | 5. | Light Houses and ships and construction and Development of other Navigational Aids. | 7 | 7.00 | 7.00 |
| | | | Total | 2800.00 | 2580.00 |
| | | Total-VI7 | Cransport and Communications | 33860.00 CL | 33730.S3 |
| II. Soc | ial a | nd Community Services : | | , | |
| (1) | Gene | eral Education. | | | |
| (-) | | Primary Education. | | | ¥- |
| | | (i) Elementary Education. | | 3256.74 | 138 . 7 9 |
| | | (ii) Teachers' Training. | | 53.26 | 21.00 |
| | | (iii) Special Education. | | 250.00 | |
| | 2. | | | 822.29 | 172.00 |
| | 3. | | | 507.90 | |
| | 4. | | | 200.70 | 55.00 |
| | 5. | | | 369.11 | 177.78 |
| | 6. | | | 100.00 | |
| | | • • | | | |

| | 2 : | | | 3 . | 4 |
|---------|---|-------|-------|-----------------|----------------------|
| (2) To | echnical Education. | | | | |
| | 1. Direction and Administration. | | | 10.00 | |
| | 2. Technical Schools | | | 130.00 | 40.00 |
| | 3. Polytechnics | | | 195.00 | 60.00 |
| | 4. Engineering Colleges and assistance to non-Government Technical Colleges/Institutes. | | | 160.00 | 50.00 |
| | 5. Scholarships. | | | 0.50 | |
| | 6. Research and Training | | | 10.00 | |
| | 7. Other Expenditure. | | 4 | 94.50 | 80.00 |
| | | Total | | . 600.00 | 230.00 |
| (3) M | ledical, Public Health and Sanitation. | | | 15.00 | - 0 |
| 11.000 | 1. Direction and Administration. | | | 15.00, | 100.00 |
| | 2. Medical Relief | | | 428.00 | 166.32 |
| | 3. Training. | | | 25.00 | 2.00 |
| | 4. Medical Education and Research | | | 660.00 | 240.00 |
| | 5. Indigenous system of Medicine, Ayurved and Homeopathy | | | 120.00 | 11.00 |
| | 6. Employees' State Insurance Corporation | | | 15.00 | 050 00 |
| | 7. Minimum Needs Programme | | | 2009.00 | 273 .80 |
| | 8. Other Programmes | | | 0.60 | 1.00 |
| | 9. Health Services to the School going children | | | 40.0 | |
| | 10. Drugs Control Administration | | | 142.00 | 15,00 |
| | 11. State share for Payment for additional incentive under Family Welfare Programme. | | | 285.00 | ·' ·· |
| | 12. Control of Communicable diseases and provision of Centrally sponsored scheme on sharing basis | | | 3280.00 | 16.64 |
| | | Total | | 7000.00 | 725.76 |
|) Socia | l Inputs. | | | 500 .00 | |
| Sewer | rage and Water Supply | | 1.41 | - | |
| 1. | Survey and Investigation | | | 100.00 | 142 |
| 2. | Research | | | 5.00 | 5.00 |
| 3. | Sewerage Scheme (Urban) | | | 350.00 | 60.00 |
| 4. | Drainage Schome (Rural). | | | 26.00 | . (1 |
| 5. | Urban Water Supply | | | 487.00 | 436.00 |
| 6. | Rural Water Supply (GIA) | | | 8.00 | |
| 7. | Rural Water Supply (MNP) | | | 3 500.00 | 2750.00 |
| | | | | | |
| | | | Total | 4476.00 | 3251.00 |
| | Market Borrowing | | | 1500.00 | 15 ₀ 0.00 |
| | L. I. C. | | | 2500.00 | 25 00.00 |
| | | | | | |
| | World Bank Projects | | | 6600.00 | 6600.00 |

| 1 | 2 | | 3 | 4 |
|------------------|--|-------|---------------------------------------|----------------|
| (6) Housi | ng | | | |
| 1. | Integrated subsidised Housing scheme for Industrial workers and Economi weaker sections of the community | oally | 605.00 | 603.00 |
| 2. | Low Income Group Housing Scheme | 545 | 400.00 | 400.00 |
| 3. | Rental Housing Scheme (Government Resi./Qrt.) | | 900.00 | 900.00 |
| 4. | Slum Clearance and Rehousing Scheme | | 100.00 | 60.00 |
| 5. | Village Housing Projects Scheme | | 404.00 | 3 89.00 |
| 6. | Assistance for construction of houses on the house sites alletted to landle labourers (MNP) | 5.5 | 3085.00 | 150 |
| 7. | Police Housing Scheme and Jail Buildings | | 75 0.00 | 750.00 |
| 8. | Other Schemes | | 2286. 00 | 2151.00 |
| | | Total | 8530.00 | 5253.00 |
| (7) Urba | n Development | | · · · · · · · · · · · · · · · · · · · | |
| 1. | Financial Assistance to local bodies for non-remunerative schemes | | 660.00 | 660.00 |
| 2. | Town and Regional Planning | | 320.00 | •• |
| 3. | Environmental improvement of slums (MNP) | | 500.00 | |
| 4. | Urban Development Programme | | 1370.00 | 1235.00 |
| 416 14 15 | | Total | 2850.00 | 1895.00 |
| (8) Stat | e Capital Project | | 3000.00 | 3000.00 |
| (9) I nfo | ermation and Publicity: | _ | | - 3 |
| 1. | Information Centres | - | 11.25 | •• |
| 2. | Field Publicity | | 58.10 | |
| 3. | Other expenditure | | 15.65 | 15.65 |
| | | Total | 85.00 | 15.65 |
| (10) La | bour and Labour Welfare | | | |
| 1. | Direction and Administration | | 105.00 | 12.00 |
| 2 | Industrial Relationr | | 585.00 | 130.00 |
| 3 | . Working conditions and Safety | | 15.00 | |
| 4 | Education and Training, | | $\boldsymbol{2025.00}$ | 605.48 |
| 5 | Research and Statistics | | 11.00 | |
| 6 | . Career Development courses | | 200.00 | |
| 7 | . Incentive Scheme for Educated Unemployed | | 1041.00 | 300.00 |
| 8 | Other Schemes | | 18.00 | 5.00 |
| | | Total | 4090.00 | 1052.48 |

| 1 | | 2 | 3 | 4 |
|------|-------|--|-----------------|---------------|
| (11) | Welf | are of Backward Classes: | | |
| | 1. | Wolfare of Scheduled Castes | 2800.00 | 316.13 |
| | 2. | Welfare of Scheduled Tribes | 30 00.00 | 309.63 |
| | 3. | Welfare of Nomadic Tribes | 100.00 | 6.63 |
| | 4. | Welfare of Denotified Tribes | 100.00 | 7.38 |
| | 5. | Welfare of Socially and Educationally Backward Classes | 1500.00 | 74.78 |
| | 6. | Welfare of Economically Backward Classes | 250.00 | 5.00 |
| | 7. | Minorities and Linguistic | 250.00 | 9.00 |
| | | Total. | 8000.00 | 728.58 |
| (12) | Socia | 1 Welfare | | |
| | 1. | Direction and Administration | 10.00 | 7.0 |
| | 2. | Family and Child Welfare (including Women Welfare) | 187.00 | |
| | 3. | Education and Wolfare of Handicapped | 70.00 | 10 |
| | 4. | Wolfare of Poor and Destitutes | 5.00 | |
| | 5. | Grant to Voluntary Organisations | 30.00 | 1.44 |
| | 6. | Other Schemes of Social Defence | 98.00 | 76 .00 |
| | 7. | Prohibition | 50.00 | 796 |
| | | Total | 450.00 | 76.00 |
| (13) | Nutr | ition | | * 1 |
| | 1. | Special Nutrition Programme | 1015.00 | |
| | 2. | Mrd-day-Meals Programme | 650.00 | |
| | | Total | 1605.00 | |
| | | Total:-VII. Social and Community Services. | 57316.00 | 26391.90 |
| VIII | Econ | omic Services | | |
| | 1. | Secretariat Economic Services (Planning Machinery) | 5.00 | |
| | 2. | Economic Advice and Statistics | 250.00 | •• |
| | 3. | Training of Development Personnel | 75.00 | 60.00 |
| | 4. | Administrative Machinery for Tribal-Areas Sub-Plan. | 100.00 | •• |
| | 5. | Civil Supplies Corporation and Consumers' Protection | 150.00 | 135.00 |
| | | Total | 580.00 | 195.00 |
| IX. | Dace | stralised District Planning | 20000.00 | |
| | | Grand Total | 376000.00 | 281140.74 |

STATEMENT-III
Selected Targets and Achievements

| Sr. No. | $It_{\mathbf{em}}$ | | Unit | Level of achievement at the end of | | | |
|---------------|--|-------------------|-------------|------------------------------------|---------|---------|----------------------------------|
| NO. | | | Cuit | 1977-78 | 1978-79 | 1979-80 | 1984-85 Target (Cumulative |
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 |
| AGRICU | JLTURE AND ALLIED SE | ERVICES | | | . 12 | 4 | |
| I. | Food Grains | | | | | | |
| Ar | ea to be covered: | | | (1) 60 | | | - 9 |
| (a. |) Paddy | | Lakh Hect. | 4.84 | 4.59 | 4.58 | 4.95 |
| (b |) Bajra | | ,, | 13.69 | 14.61 | 12.56 | 13.20 |
| (e) | Majze | | ,, | 2.73 | 2.94 | 3.05 | 2.90 |
| (d |) Jowar | | 17 | 10.32 | 10.17 | 9.46 | 9.20 |
| (e) | Wheat | | ,, | 6.84 | 6.20 | 18.6 | 7.38 |
| (f) | Other cereals | | ** | 1.82 | 1.84 | 1.96 | 1.60 |
| (g) | Pulses | | " | 4.52 | 5.46 | 5.42 | 6.60 |
| | | Total: Foodgrains | 79 | 44.76 | 45.80 | 43.84 | 45 . 80 |
| 2. Gom Are | amercial Grops a to be covered) Groundaut | | ,, | 19.54 | 20.46 | 20.21 | 20.95 |
| ՝ (Ն | | | ,, | 1.10 | 1.02 | 0.93 | 1.20 |
| (e | , | | ** | 1.00 | 1.04 | 1.08 | 1.15 |
| (d | | | ,, | 1.01 | 1.01 | 1.24 | 1.20 |
| | | Total:- Oil seeds | •• | 22 65 | 23 53 | 23.46 | 24.50 |
| | | | | | / | | |
| (е |) Cotton | | ** | 18.29 | 17.59 | 17.17 | 17.00 |
| (f) | Sugaroane | | ,, | 0.62 | 0.58 | 0.57 | 0.85 |
| (g | | | 17 | 0.82 | 0.75 | 1.15 | 0.92 |
| 3. Proc | duction of foodgrains. | | | | | | |
| (a |) Rice | | Lakh tonnes | 6.69 | 5.34 | 4.37 | 8.45 |
| (b |) Wheat | | ,, | 12.21 | 11.92 | 12.15 | 14.00 |
| (e) |) Jowar | | ,, | 5.53 | 5.77 | 5.57 | 7.00 |
| (d |) Bajra | | " | 10.19 | 15.54 | 13.32 | 14.69 |
| (e) | Maize | | , , | 1.22 | 2.44 | 1.39 | 1.93 |
| (f) | Other coreals | 1.1 | ,, | 1.41 | 1.53 | 1.34 | 1.43 |
| (g) | Pulses | | ** | 1.49 | 2.31 | 1.94 | 6.00 |
| | | Total: Foodgrains | , | 38.74 | 44.85 | 40.08 | 53.50 |
| 4, Proc | luction of Commercial crop | • | | | | | |
| (a) |) Groundnut | | Lakh tonnes | 17.23 | 18.23 | 17.69 | 23.28 |
| (ե |) Sesamum | | ** | 0.23 | 0.30 | 0.33 | 0.50 |

| 1 | 2 | Ta T | 3 | 4 | 5 | 6 | 7 |
|-------------------|-----------------------------|---------------------|-------------------------|--------------------|-------------|-------------|----------------|
| (o) | Rape and Mustard | | ,, | 0.40 | 0.51 | 0.50 | 0.62 |
| (4) | Castor | | ,, | 1.29 | 1.35 | 1.41 | 1.60 |
| | | Total: Oilseeds | " | 19.15 | 20.39 | 19.93 | 2 6. 00 |
| (e) | Cotton | | Lakh bales | 19.42 | 21.01 | 17.85 | 24.30 |
| (f) | Sugaroane (in terms of gu | r) | (170 KG) Lakh tonnes | 3.49 | 3.29 | 3.19 | 4.50 |
| (g) | Tobacco | |): | 1.25 | 1.54 | 1.75 | 2.00 |
| | under High Yielding variet | ies of seeds. | | | | | |
| (a) | Paddy | | Lakh Hect. | 2.16 | 2.19 | 2.56 | 3.80 |
| (b) | Wheat | | ** | 5.82 | 4.56 | 4.60 | 5.60 |
| (0) | Jowar | | ,, | 0.32 | 0.31 | 0.38 | 1.10 |
| (d) | Bajra | | | 10.46 | 11.63 | 10.46 | 13.00 |
| (e) | Maize | | " | 0.58 | 0.70 | 0.76 | 1.00 |
| 4 | | Total | ,, | 19.34 | 19.39 | 18.76 | 24.50 |
| | | 15401 | | | | | |
| 6. Com | mercial Crop (H. Y.) | | | | | | |
| - (n) | Cotton. | | ** | 1.98 | 3.19 | 3.26 | 4.00 |
| (b) | Castor | | ** | 0.80 | 0.81 | 0.60 | 0.80 |
| 7. Ferti | lizers (Consumption) | | | | | | H * |
| (a) | Nitrogenous (N) | | Lakh tonnes | 07.1 | 1.92 | 2.24 | 4.00 |
| (b) | Phosphatic (P) | | ,, | 0.79 | 0.93 | 1.15 | 2.00 |
| (c) | Potassic (K) | | ,, | 0.28 | 0.36 | 0.39 | 0.70 |
| | | Total | •• | 2.77 | 3,21 | 3.78 | 6.70 |
| (d | Urban Compost | | 3, | 2.15 | 2.15 | 1.89 | 3.00 |
| (e) | Green Manuring (Area o | overed) | Lakgh Heet. | 1.51 | 1.61 | 1.98 | 2.50 |
| 8. Plan | t Protection (Area to be co | | | | | | |
| (a) | Foodgrain crops | | Lakh Heet. | | 14.62 | 10.97 | 18.92 |
| (b | - | | ,, | - 33 | 36.50 | 49.89 | 68.12 |
| | | $Tot_{\mathbf{a}}$ | " | • • • • | 51.12 | 60.86 | 87.04 |
| 9. Soil | Conservation | | | | | | |
| | Area covered | | Lakh Heet. | 17.61 | 18.14 | 18.79 | 22. 3 0 |
| 40 Av | ea under Major, Medium a | nd Minor Irrigation | | | | | |
| |) Minor Irrigation | | | | | | |
| (10 | (i) Potential | | "000 Heot. | 1659 | 1693 | 1734 | 2027 |
| | (ii) Utilisation | | | 1427 | 1448 | 1467 | 1698 |
| /1 | | gation | ,, | - 1-p1 | - 140 | | |
| (1 | (i) Potential created | Rayton | d. | 924 | 953 | 1012 | 1272 |
| | | | ,, | 52 4 501 | 50 3 | 529 | 758 |
| | (ii) Utilisation | | " | 901 | JVJ | U 43 | 100 |
| 11. A | gricultural Marketing. | | | | | | |

| 1 | = | 2 | 3 | 4 | 5 | 6 | |
|----------------|------------------|--|-------------|-------|----------------------|-------------|-------|
| 12. | Storage | | | | | | |
| | Owned c | apacity with | | | | | |
| | (i) | State warehousing Corporation | "000 tonnes | 48 | 68 | 73 | 18 |
| | (ii) | Co-operative | ,, | •• | 310.00 | 319.00 | 322.8 |
| 13. | Animal H | usbandry and Dairy Products. | | | | 515.00 | 022.0 |
| | (i) ¹ | Milk | "000 tonnes | 2025 | 2188 | 2200 | 264 |
| | (ii) | Eggs. | Million | 198 | 215 | 240 | 366 |
| | (iii) | Wool | In lakh Kgs | 18.19 | 18.19 | 18.34 | 21.(|
| 14. | Animal H | usbandry Programmes | | | | - 5,02 | 24.(|
| 15 | (i) ¹ | ntensive Cattle Development Projects | Nos. | 8 | 8 | o | |
| | (ii) | Mobile Units. | 3) | 10 | 13 | 8 | 9 |
| | (iii) | No. of inseminations performed with | | | 10 | 13 | 22 |
| | | xotic bull semen (annual) | In lakhs | 0.32 | 0.64 | 0.84 | 4.6 |
| | (iv) | Establishment of sheep breeding farms. | Nos. | 3 | 3 | 3 | 4 |
| | (v) S | Sheep and Wool Extension Centres. | •• | 88 | 88 | 88 | 102 |
| | (vi) | Intensive sheep Development Projects | 91 | 2 | 2 | 2 | 4 |
| | (vii) m | Intensive Eggs and Poultry productionarketing Centres. | cum- | 9 | 9 | 9 | 12 |
| | (viii) | Estt. of fodder seed production farms | ** | 4 | 4 | 4 | 4 |
| | (ix) | Veterinary hospitals | ** | 19 | 19 | 19 | 19 |
| | (x) V | eterinary Dispensaries. | •• | 211 | 211 | 211 | 220 |
| | (xi) | Veterinary stockmen Centres. | 29 | 455 | 457 | 462 | 542 |
| | (xii) | Polycl inics | ž g | • • | •• | 1 | 2 |
| | (xiii) | Frozen Seman Station. | 3'9 | •• | 1 | 1 | 1 |
| .5. D | airy progra | ammes | | | | | |
| | (i) Flu | id Milk Plants | Nos. | 7 | 8 | 9 | |
| | (ii) M | ilk products factories | ** | 5 | 5 | | 13: |
| | (iii) D | airy cooperative Unions | | | | 5 | 5 |
| | | airy Co-operative Societies | 19 | 18 | 18 | 18 | 18 |
| | | Feeder Societies) | ,, | 4520 | 5458 | 6158 | 7158 |
| . Fi | sheries | | | | | | 1100 |
| (1) | Mechanis | ed boats (with inboard engines | | | | | |
| , _ | | board motors) | Nos. | 2952 | 33 8 6 | 3734 | 6944 |
| | I) Torwers | lo lo | ,, | 10 | 10 | 10 | 11 |
| (1) | II) Fish Se | eed farms established | ** | 9 | 12 | 12 | 23. |
| (I) | V) Fish pro | oduction | | | | | |
| | (b) Mar | ine | Lakh tonnes | 1.77 | 2.30 | 2.07 | 3.45 |
| | (b) Inla | nd | 99 | 0.13 | 0.16 | 0.16 | 0.55 |
| | | TOTAL | | 1.90 | | | |

| 1 | | 2 | 3 | 4 | 5 | 6 | 7 |
|-----------|--------|---|----------------|------------------------|--------------|-------------|-------------|
| 17. | Fores | its: | | | | | |
| | (a) | Pastation of quick growing speciess | 000' Hect. | 32.00 | 34.12 | 36.22 | 45.20 |
| | (b) | E30 tomic and commercial Plantations | ** | 54.50 | 59.56 | 64.76 | 90.20 |
| | (a) | Farm Forestry | Nos. in orores | •• | 8.82 | 13.65 | 44.00 |
| | (£) | Improvement of existing roads | Kms. | 344 | 435 | 481 | 57 7 |
| 18. | Co-op | eration | | | | | |
| | (a) | Short term loans | Rs. in orores | 138.76 | 141.00 | 155,00 | 225.00 |
| | (b) | Medium term loans | 29 | | 8.46 | 10.00 | 90.00 |
| | (e) | Long term loans | ** | 209.96 (cumulative) | 2.82 | 3.82 | 55.00 |
| | (L) | Retail sales of fertilizers | ,, | 77.00 | 87.00 | 98.00 | 175.00 |
| | (e) | Agricultural produce marketed | ** | 190.00 | 195.00 | 195.00 | 300.00 |
| | (f) | Retail sales of consumer goods by urban consumer co-operatives | 29 | 43.00 | 44.00 | 46.60 | 55.00 |
| | (g) | Retail sales of consumer goods through co-operatives in rural areas | ** | 98.00 | 98.00 | 98.20 | 140.00 |
| | (h) | Co-operative storage | In lakh tonnes | 3.18 | 3.10 | 3.19 | 3.85 |
| | 1-7 | (i) Processing Units: | | | | | |
| | | (1) Organised | No. | 157 | 158 | 159 | 165 |
| | | (2) Installed | ** | 157 | 158 | 159 | 165 |
| 5. | Powe | or estalled Capacity | м. W . | 1907 | 2188 | 2384 | 3730 |
| | 2. R | ural Electrification: | | | | | |
| | | (a) Villages Electrified | Nos. | 8121 | 9464 | 10867 | 18275 |
| | | (b) Pump sets energised by electricity | No. in lakhs | 1.56 | 1.78 | 2.03 | 3.28 |
| 3. | Transp | ort and Comunications | | | | | |
| | 1. R | loads : | | | | | |
| | 1. | State Highways | | | | | |
| | | (a) Surfaced | Kms. | 8445 | 8517 | 8654 | 9104 |
| | | (b) Unsurfaced | ** | 5 82 | 541 | 443 | 293 |
| | | (c) Total | ** | 9027 | 9058 | 9097 | 9397 |
| | II. | Major District Roads | | | | | |
| | | (a) Surfaced | ** | 7392 | 7673 | 8316 | 10716 |
| | | (b) Unsurfaced | ** | 2438 | 2370 | 2226 | 1326 |
| | | (o) Total | ** | 9830 | 10043 | 10542 | 12042 |
| | m | . Other District Roads | | | | | |
| | | | | 4721 | 5022 | 5922 | 8772 |
| | | (a) Surfaced | " | 21 | - | | |
| | | (a) Surfaced (b) Unsurfaced | " | 4918 | 4812 | 4649 | 3299 |

| 1 2 | 8 | 4 | 5 | 6 | 7 |
|--------------------------------------|---------|--------------|---------------|--------|---------------|
| IV. Village Roads | | | | | |
| (a) Surfaced | Kms. | 4814 | 4885 | 5568 | 1276 8 |
| (b) Unsurfaced | ** | 8160 | 8011 | 7895 | 5295 |
| (e) Total | ** | 12480 | 12896 | 18468 | 18063 |
| V. Total Roads | | | | -0,200 | 10000 |
| (a) Surfaced | H | 24872 | 2 6097 | 28460 | 41360 |
| (b) Unsurfaced | ,, | 16104 | 15784 | 15213 | 10213 |
| (e) Total | ** | 40076 | 41881 | 43673 | 51573 |
| 4. Education : | | | | | 01010 |
| I. General Education : | | | | | |
| A. Elementary Education | | | | | |
| 1. Classes IV (Agr Group 6-11) | | | | | |
| (i) Enrolment | | | | | |
| (a) Boys | '000 | 2378 | 2399 | 2480 | 2497 |
| (b) Girls | ,, | 1598 | 1615 | 1658 | 2153 |
| (c) Total | 98 | 39 71 | 4014 | 4138 | 4650 |
| (ii) Percentage to age group | | | | 2230 | 1000 |
| (a) Boys | Percent | 115 | 115.77 | 118.77 | 114.38 |
| (b) Girls | ,, | 82 | 82.82 | 84.86 | 105.88 |
| (e) Total | ** | 90 | 99.80 | 102.14 | 110.00 |
| 2. Classes VI-VIII (Age Group 11-14) | | | | | 110.00 |
| (i) Enrolment | | | | | |
| (a) Boys | '000 | 675 | 689 | 200 | |
| (b) Girls | >9 | 376 | 398 | 699 | 1050 |
| (e) Total | » | 1051 | 1087 | 408 | 668 |
| (ii) Percentage to age-group | | | 100, | 1102 | 1712 |
| (а) Воун | Percent | 56 | 57.46 | E9 04 | |
| (b) Girls | ** | 84 | 85.16 | 58.01 | 83.83 |
| (o) Total | ** | 45 | 46.68 | 85.44 | 56.3 <u>2</u> |
| B. Secondary Education | | | ±0,0 0 | 47.05 | 70.29 |
| 1. Classes IX-X | 4 | | | | |
| (i) Enrolment | | | | | |
| (a) Boys | °000 | Ara | • | | |
| (b) Girls | | 278 | 282 | 291 | 341 |
| (e) Total | ** | 144 | 149 | 155 | 185 |
| 2. Classes XI-XII (General classes) | ** | 419 | 481 | 446 | 526 |
| • | | | | | |
| (i) Enrolment | | | | | |
| (a) Boys | '000 | 94 | 121 | 148 | 283 |
| (b) Girls | ** | 41 | 44 | 47 | 02 |
| (e) Total | ** | 185 | 165 | 195 | 345 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|--|------------|--------|---------------|-----------------|--------|
| c. | Enrolment in Non-Formal (Part-Time) Continuation Classes | | | | | - |
| | (a) Agre group 9-14 | Nos. | | 1538 3 | 23107 | 240000 |
| | Adult Education | | | | | |
| 1: | (a) Number of participants (Age Group 15-35) |) '000 | 215 | 516 | 869 | 3530 |
| | (b) No. of Centres opened under | | | | | |
| | (i) Central Programme | Nos. | | 5935 | 6202 | 30850 |
| | (ii) State Programme | ** | | 6270 | 8820 | 16620 |
| | (iii) Voluntary Agencies | ** | | 5020 | 13318 | 70187 |
| E. | Teachers | | | | | |
| | (i) Primary Classes I-V | | | | | |
| | (ii) Middle Classes VI-VIII | Nos. | 114861 | 117861 | 1 2 2011 | 133011 |
| | (iii) Secondary Classes IX-X | ,, | 36215 | 36420 | 37170 | 42270 |
| | (iv) Higher Secondary Classes (XI-XII) (Add | itional ,, | •• | 160 | 64 | 14515 |
| | II. Technical Education | (w) | | | | |
| | (i) Degree Courses | | | | | |
| | (a) No. of Institutions | Nos. | 7 | 7 | 7 | 7 |
| | (b) Seats (Intake) | ** | 1840 | 1840 | 1885 | 2320 |
| | (ii) Diploma Courses | | | | | |
| | (a) No. of Institutions | Nos. | 19 | 19 | 19 | 19 |
| | (b) Seats (Intake) | ** | 3255 | 3315 | 3705 | 4982 |
| 5. | Health and Family Welfare | | .) | 6 | | |
| • | 1. Hospitals and Dispensaries | | | | | |
| | (a) Urban | Nos. | 295 | 297 | 298 | 300 |
| | (b) Rural | ** | 395 | 395 | 399 | 417 |
| | 2. Beds | | | 3,50 | | |
| | (a) Urban Hospitals and dispensaries | Nos. | 10997 | 11025 | 11217 | 11414 |
| | (b) Rural hospitals and dispensaries | 37 | 4464 | 4479 | 4569 | 5960 |
| | 3. Primary Health Centres | ,, | **** | | 2000 | |
| | (a) Main Centres | Nos. | 251 | 251 | 251 | 276 |
| | (b) Sub-Centres | | 2400 | 2400 | 2500 | 3400 |
| | 4. Training of auxiliary Nurses-mid-wives | ** | 2100 | 2100 | 2000 | 0100 |
| | Institutes | Nos. | 22 | 19 | 19 | 22 |
| | (a) Annual Intake | Nos. | 113 | 266 | 266 | 414 |
| | (b) Annual Outturn | | 125 | 206 | 206 | 400 |
| | 5. Family Welfare Programme | ,, | 120 | 200 | 200 | 400 |
| | No. of voluntary Sterilisations done— | | | | | |
| | (a) Tubectomy | In lakhs 🧎 | 1.12 | 1.97 | 2.20 | :0.00 |
| | (b) Vasectomy | " j | | | | |
| | (c) No. of IUD insertions (d) Conventional Contraceptives- | In lakhs | 0.30 | 0.35 | 0.38 | 4.20 |
| | Free Supply | ** | 1.72 | 2.05 | 1.87 | 13.36 |

| 1 | 2 | 8 | 4 | 5 | 6 | Ŧ |
|----|---|----------------------------------|--------------|--------|--------|---------------------|
| | 6. Sewerage and Water Supply | | | | | <u></u> |
| | A. Urban Water Supply | | | | | |
| | Towns (Other than Muni. Corporation) | | | | | |
| | (i) Towns covered | Nos. | 154 | 158 | 167 | 192 |
| | (ii) Population covered | Lakho | 68.56 | 69.05 | 71.17 | 78.00 |
| | B. Urban Sanitation | | | | | |
| | 1. Sewerage scheme | | | | | |
| | (a) Towns covered | No. | 20 | 20 | 72 | 12 |
| | (b) Population covered | Lakhs | 82.82 | 32.82 | 84.18 | 29.12 |
| | 2. Latrines-conversion programme | | | | | |
| | (i) Latrines converted | Nos. | 68846 | 72010 | 76388 | 106868 |
| | (ii) Population covered | Lakhe | 4.19 | 4.41 | 4.67 | 5. 59 |
| | C. Rural Watzr Supply | | | | | |
| | 1. Rural Water Supply Programme | | | | | |
| | (a) Piped Water Supply | | | | | |
| | (i) Village covered | Nos. | 165 6 | 2606 | 2442 | 4940 |
| | (ii) Population covered | Lakhs | 20.54 | 25.12 | 80.59 | 77.74 |
| | (b) Hand Pump/Tubewells | | | | | |
| | (i) Villages covered | Nos. | 978 | 1169 | 1293 | 2874 |
| | (ii) Population covered | Lakhe | 8.88 | 4.61 | 4.60 | 1.45 |
| | (o) Open Dugs (Simple) Wells | | | | | |
| | (i) Villages covered | Nos. | 2 82 | 638 | 779 | 7768 |
| | (ii) Population covered | Lakha | 0.78 | 1.49 | 2.10 | 8.70 |
| | Total villages covered | Nos. | 2915 | 8698 | 4514 | ¥6 84 |
| 7. | Rural Housing | | | | | |
| | (1) Assistance for construction of houses on the house sites allotted to landless labourers | Nos. of houses Constructed | E1933 | 78889 | 111866 | 422 26 3 |
| 8. | Urban Development | | | | | |
| | 1. Enviornmental Improvement of Slume (MNP) | | | | | |
| | (i) Persons benefitted | Nos. | 109875 | 182048 | 149238 | 4:2673 |
| | (ii) Preparation of development Plans | No. | •• | 1 | 33 | 16 |
| | (iii) Town Planning Schemes | No." | 9 | 1 | 5 | 10 |
| 9. | Labour and Labour Welfare | | | | | |
| | Orastemen Training Scheme (including Vocationalisation) | | | | | |
| | (a) Institutions | No. | 20 | 20 | 22: | 82 |
| | (b) Seate | | | | | |
| | (i) Craftsmen training | Seats No. | 6460 | 6940 | 8048 | 13876 |
| H- | (ii) Vocationalisation -2683—87 | 99 | •• | •• | - | 15900 |

| 1 | 3 | 8 | 4 | 8 | 6 | 7 |
|------------|---|-----------------|--------------|----------------|--------|--------|
| lo. "Welfe | are of Backward Classes | | | | | |
| 1. P | rematrio education incentives | | | | | |
| | (i) Soholarahips/Stipends | No. of Students | 244000 | 199000 | 205000 | 840000 |
| | (ii) Other insentives like branding, grants, books, stationery and uniforms, etc. | " (Net) | 80,000 | 52,00 0 | 66000 | 902487 |
| | (ili) Ashram Schools | •• | 177 | 199 | 204 | 820 |
| 5. A | Topomia Aid | | | | | |
| (i) | For agriculture | No. of families | 480 | 1068 | 1668 | 11000 |
| (ii) | For Animal Husbandry | •• | 950 | 4129 | 2600 | 6700 |
| (iii |) For Cottage Industry | ** | 227 5 | 20128 | 21100 | 82600 |

STATEMENT-IV.

Minimum Needs Programme-outlays for the Sixth Five Year Plan 1980-85

(Rs. in Lakha)

| Sr. No. | Name of the Programme. | Outlays | for the Sixth Five Year Pl 1980-85. |
|------------|---|---------|--|
| 1 | 2 | | 3 |
| 1. | Rural Electrification | | 364.00* |
| 2. | Rural Roads, | | 16659.00 |
| 3. | Elementary Education including Adult Education. | | 356 0.00 |
| 4. | Rural Health. | | 2009.00 |
| 5. | Rural Water Supply. | | 6500.00 |
| 6. | Housing assistance to Rural Landless Labourers. | - 1 | 3085.00 |
| 7. | Environmental Improvement of Sluma. | | 5 00.00 |
| 8. | Nutrition. | | 1665 .00 |
| | | Total | 34342 .00 |

^(*) A total outlay of Rs. 8024 lakhs is provided in the State Plan for Rural Electrification.

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STATEMENT—V
Minimum Needs Programme for the Sixth Five Year Plan 1880-88—Targets and Physical

| Sr. | Programme/Item | $\mathbf{U}_{\mathbf{nit}}$ | Level of achievement at the end of | | | | |
|-----|--|-----------------------------|------------------------------------|---------------|---------------------------------|---|--|
| No. | | • | 1977-78 | 1978-79 | 1979-80 (Base Year level) | 1984–85 (Target (Cummula- tive). | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1 | Rural Electrification ; | | | | | | |
| | (a) Villages | No. | 8121 | 9464 | 10867 | 18275 | |
| | (b) Pumpsets/Tubewells | No. in lakha. | 1.56 | 1.78 | 2.03 | 3.28 | |
| 2 | Rural Roads; | | | | | | |
| | (a) Length | Kms | 22119 | 2273 0 | 24034 | 31634 | |
| | (b) Villages Connected ; | | | | | | |
| | (i) Having Population of 1500 and above | No. | 2038 | 2146 | 2441 | 8664 | |
| | (ii) Having Population between 1000-1500 | No. | 1118 | 1168 | 1402 | 2183 | |
| 8 | Elementary Education | | | | | | |
| (i) | Enrolment | | | | | | |
| | (a) Classes I-V (age group 6-11 years) Enrolment | *000 | 3971 | 4014 | 4138 | 4650 | |
| | (b) Classes VI-VIII (age group 11-14 years) Enrolment | *000 , | 1051 | 1087 | 1102 | 1713 | |
| (2) | Fercentage to age group | | | | | | |
| | (a) Classes I.IV-(Age group 6-11 years) Enrolment | percent | 99 | 99.80 | 102.14 | 110.00 | |
| | (b) Classes VI-VIII (age group 11-14 years) Enrolment | Percent | 45 | 46.63 | 47.05 | 70.29 | |
| 4 | Rural Health | | | | | | |
| | Primary Health Centres | | | | | | |
| | (i) Main Centres | No. | 251. | , , 251 | 251 | 276 | |
| | (ii) Sub-Centres | No. | 24 00 | 2400 | 25 00 | 8400 | |
| 5 | Rural Water Supply; | | | | | | |
| | (a) Villages covered | No. | 2916 | 869 8 | 4514 | 9600 | |
| 6 | Rural Housing: | | | | | | |
| | (a) Assistance for construction of houses on the house sites allotted to landless labourers. | No. of houses constructed. | 56013 | 78889 | 111866 | 42386 | |
| 7 | Environmental Improvement of Slum: | | | | | | |
| | (a) Beneficiaries | No. | 109375 | 132048 | 149338 | 482671 | |
| 8 | Nutrition: | | | | | | |
| | (a) Beneficiaries under Special Nutrition Programme | No. in lakhs | 5.4 0 | 6.93 | 7.70 | 11.70 | |
| | (b) Beneficiaries under Mid-Day-Meals Programme | ** | 2.40 | 3.80 | 4.28 | 8.53 | |

STATEMENT-VI

Outlays for Centrally Sponsored Schemes for the Sixth Five year Plan 1980-85

(Continued on sharing basis)

(Rs. in lakhs)

| Sr. No. | Sector/Sub-Sector | Total outlay (State share + Central share) 1980-85 | Sr. No. | Sector/Sub-Sector | Total outlay (State share + Central share 1980-85 |
|------------|--|--|------------|----------------------------------|---|
| 1 | 2 | 3 | 1 | 2 | 3 |
| 1 | Agricultural Education and Rese | arch 35.00 | 11. | Forests | 363.6 5 |
| 2 | Crop Husbandry | 4116.26 | 12 | Industries and Minerals | 620.00 |
| 3 | Land Reforms | 165.76 | 13 | Ports, Light houses and shipping | g 7.00 |
| 4 | National Rural Employment Programme | 9000.00 | 14 | Road Development | 778.00 |
| 5 | Drought Prone Area Programme | e 3900.00 | 15 | General Education | 36.00 |
| 6 | Integrated Rural Development | 7630.00 | 16 | Medical and Public Health | 848 8.£0 |
| 7 | Soil and Water Conservation | 160.00 | 17 | Urban Development | 1000.00 _{>} |
| - | | | 18 | Welfare of Backward Classes | 1005.00 |
| 8 | Command Area Development | 2673.60 | 19 | Social Welfare | 36.00 |
| 9 | Animal Husbandry | 331. 5 8 | | Chand Makal | |
| 10 | Fisheries | 3018.17 | | Grand Total | 43364.52 |

STATEMENT-VI

Outlays for Centrally Sponsored Schemes for the Sixth Five year Plan 1980-85

(Continued on Sharing basis)

| Sr. | Name of the Scheme. | Total outlay | 1 | 2 | 3 |
|---------------|--|--------------------------------|-------|--|-------------|
| No. | | (State share | | | |
| 1 | ź | + Central share) 1980-85 | | Tational Rural Employment Pro- camme – | \$060.00 |
| | n'a Na al Plan A' a g Page | | 5. I | Prought Prone Area Programme: | |
| 1. A | gricultural Education & Research Intensive Cotton District Programme | n : 35.00 | 1. | D. P. A. P. (including Desert Development Programme | 3900.00 |
| | 3 | 0-100 | 6.Int | egrated Rural Development. | |
| .2. C | rop Husbandry : | | 1. | Integrated Rural Development | 7630.00 |
| 1. | Production of hybrid cotton seeds | 41.72 | 7. | Soil and Water Conservation. | |
| . 2. | Scheme to help farmers in eradication of pests and dis eases on crop in endemic areas | | 1. | Soil Conservation works in River Valley Projects. | 160.00 |
| | by aero-chemical operations. | 80.00 | 8. 0 | command Area Development. | |
| 3. | Control of white grubs. | 36.00 | 1. | Establishment of Area Deve- lopment Authority for Mahi- | |
| 4. | Intensive oilseeds development Programme (groundnut) | 146.00 | | Kadana Project, Ahmodabad. | 40.00 |
| ъ. | Intensive production of ground- nut including Summer pro- | | 2. | Agricultural Support Programme for Kadana Project | 25.00 |
| | gramme. | 3515.00 | 3. | Soil and Water Management in Mahi Kadana Project, | 11.00 |
| | Intensive cotton district programme in Bharuch, Vadodara, Surendranagar and Sabarkantha districts. | 183.52 | 4. | in the projects of Area Deve- lopment Authority for Mahi- | 878.00 |
| 7. | Development of pulses | 52. 6 0 | | Kadana, Ahmedabad. | 316.00 |
| 9. | Pilot Sample Survey for determining the cost of production of important fruits and | | 5. | Establishment of Area Deve- lopment Authority for North Gujarat and Saurashtra Region, Gandhinagar. | 34.00 |
| | spices and studying their mar- ket practices. | 9.74 | 6. | Establishment of Jt. Director's office at Gandhinagar. | 18.00 |
| 10. | Timely reporting of estimates of area and production of principal crops. | 31.42 | 7. | Agricultural Support Pro- gramme for Shetrunji Project | 22.00 |
| 11. | Improvement of crop statistics | 20.26 | 8. | Pilot Project for soil and water management in Shetrunji Pro- | |
| | Total: | 4116.26 | | ject. | 6.00 |
| 3 . Lat 1. | nd Reforms: Financial Assistance to Allot- tees of Surplus land | 165.76 | 9. | On farm Development Works in the projects of Area Development Authority for North Gujarat and Saurashtra. | 896.00 |

| 1 | 2 | 3 | 1 | 2 | 3 |
|-----|---|---------------|------------------|---|--------------|
| 10. | Establishment of Area Development Authority of Ukai- | | 10. | Fisheries : | |
| | Kakrapar, Surat. | 4 7.00 | 1. | Landing and berthing facilities at minor ports. | 409.00 |
| 1. | Introduction of Warabandhi in Ukai-Kakrapar Command Areas. | 93.00 | 2. | Infrastructure facilities and fish based ancillary industries. | 24.00 |
| 12. | On farm Development Works in the projects of Area Deve- lopment Authority for Ukai- Kakrapar, Surat. | 671.80 | 3. | Fish Farmtrs' Development Agency, Godhra/Surat. | 48.78 |
| 13. | Opening of Regional Soil and Water Management Pilot Project at Bardoli. | 20.60 | 4. | Fish seed production and augmentation of inland fish resourd (ICAR) | ces 15.39 |
| 14. | Ayacut Development Programme in Surat District. | 6.00 | 5. | Water Supply-World Bank Project Veraval-Mangrol. | 2521.00 |
| | | | | Total | 3018.17 |
| 15. | Establishment of TCD farm in Ukai Damanganga Project. | 107.20 | 11. | Forests: | |
| 16 | Special loan account for ineligible farmers. | 200.00 | 1. | Dantiwada River Valley Project. | 124.60 |
| 17. | Subsidy for Small and Marginal farmers. | 160.00 | 2. 3 . | Rural Fuel Wood Plantations. Development of Gir Lion Sanc- | 205.38 |
| | | 0.000 | | tuary. | 24.12 |
| | Total | 2673.60 | 4. | Development of sanctuary for | |
| 9. | Animal Husbandry: | | | Wild ass and black Luck. | 9.55 |
| 1. | try, sheep and piggery produc- | | | Total | 363.65 |
| | tion programme. | 240.00 | 12. | Industries and Minerals: | |
| 2. | Assistance to Small farmers for cross-bred heifers. | 50.0 0 | 1. | District Industries Centres. | 320.00 |
| 3. | Rinder-pest Eradication Programme. | | 2. | Rural Industrial Projects and Rural Artisan's Project. | 300.00 |
| | (a) Establishment of Vigilance | | | Total | 620.00 |
| | Unit. | 14.05 | 49 | Davis Tighthauses and China | |
| | (b) Rinder-Pest Surveillance and | | 19. | Ports, Lighthouses and Shipping | |
| | Containment Vaccination Programme. | 4.00 | 1. | Inland Water Transport Scheme- Landing facilities at River Bank. | 7.00 |
| 4. | Disease control programme for | | 14. | Road Development | |
| | foot and mouth disease (pur- chase of Vaccine) | 18.51 | 1. | Roads of Economic Importance | 778.00 |
| | 02450 01 (400410) | | | - | |
| .5, | | 5.02 | 15. | General Education: Introduction of National Service | |

| 1 | 2 | 3 | 1 2 | 3 |
|--------------|--|----------------|---|--------------------------|
| 1 6 . | Medical and Public Health: | | 5. Pre-examination training and c ing for competitive examination | |
| 1. | Fileria Control Programme | 36.00 | Scheduled Castes | 14.00 |
| 2. | National T. B. Control Programme. | 70.00 | Scheduled Tribes | 10.00 |
| 3. | Prevention of Visual impairment and Control of blindness. | 210.00 | 6. Scheduled Castes Economic Development Corporation. | |
| 4. | National Leprosy Control Programme. | 80.00 | Scheduled Castes | 580.00 |
| 5. | Multipurpose Workers scheme. | 302.50 | 7. Intensive drive for eradication of untouchability. | on |
| 6. | Reorientation of Medical Education. | 60.00 | Scheduled Castes | 90.00 |
| 7. | National Maleria Eradication Programme. | 6230.00 | 8. Tribal Research and Traini Institute. | |
| 8. | Community Health Volunteers Scheme. | 1500.00 | Scheduled Tribes 9. Full Fledged Hostel at Gandh | 11.00 inagar. |
| | Total | 8488.50 | Scheduled Castes | 40.00 |
| 17. | Urban Development | | Scheduled Tribes | 40.00 |
| 1. | Integrated development of Small and Medium Towns. | 1000.00 | Summary : | |
| 18. | Welfare of Backward classes : | | Scheduled Castes | 865.00 |
| 1. | Pre-S. S. C. children of those | | Scheduled Tribes | 140.00 |
| | who are engaged in unclean occupations. | | Total | 1005.00 |
| | Scheduled Castes | 70.00 | 19. Social Welfare. | |
| 2. | Development and Maintenance of Book Bank for Medical and | | 1. Welfare of destitute children. | 16.00 |
| | Engineering Students. | | Training Centre for rehabilita- tion of Women in distress. | 6.00 |
| | a 1 | 11 00 | | |
| | Scheduled Castes Scheduled Tribes | 11.00 13.00 | 3. Establishment of working women's hostel | 8.00 |
| 3. | Scheduled Tribes | | | |
| 3. | Scheduled Tribes Grant-in-aid to voluntary agencies for Construction of hostels | | women's hostel 4. Integrated education of har capped children. 5. Special Employment exchan | 2.00 ges |
| 3. | Scheduled Tribes Grant-in-aid to voluntary agencies for Construction of hostels for girls. | 13.00 | women's hostel 4. Integrated education of har capped children. | 2.00 ges |
| 3. 4. | Scheduled Tribes Grant-in-aid to voluntary agencies for Construction of hostels for girls. Scheduled Castes Scheduled Tribes Construction of Government Hostels for girls Studying in | 13.00 32.00 | women's hostel 4. Integrated education of har capped children. 5. Special Employment exchan for physically handicapped | 2.00 ges 1 4.00 |
| | Scheduled Tribes Grant-in-aid to voluntary agencies for Construction of hostels for girls. Scheduled Castes Scheduled Tribes Construction of Government | 13.00 32.00 | women's hostel 4. Integrated education of har capped children. 5. Special Employment exchan for physically handicapped persons. | 2.00 ges 1 4.00 |

STATEMENT—VII.

Outlyys proposed by the Departments for the Fully Centrally Sponsored Schemes.

| (Rs. in lakhs.) | | | | 2 | 3 | |
|-----------------|---|----------------------------|-----|--|----------------|--|
| Sr. No. | Name of the Scheme. | Total outlay 1983–85 | 7. | Accelerated Rural Water Supply Scheme. | 2100.00 | |
| 1 | 2 | 3 | 8. | General Education Schemes. | 8 92.50 | |
| 1. | Agricultural Credit Stabilisation | | 9. | Technical Education Schemes. | 25.00 | |
| | Fund. | 590.00 | 10. | Upgrading the Department of Post Graduate Training and Research | | |
| 2 . | Payment of 10% out-right Central Subsidy | 1500.00 | | in Kayachikitsa | 10.00 | |
| 3 . | Promotion of Electronics | 7.00 | 11. | Development of ISM Pharmacy and Drugs Testing Laboratory. | 10.00 | |
| 4. | Interest Subsidy to Engineer Entrepreneurs | 7.00 | 12. | Post Matric Scholarships | 250. 00 | |
| 5. | Family Welfare Programme. | 6477.04 | 13. | Integrated Child Development Services | 350. 00 | |
| 6. | Roads of Inter-State Importance | 59 8. 00 | | Grand Total 1 | 12816.54 | |

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APPENDIX-A

STATE-WISE PUBLIC SECTOR PLAN OUTLAY: 1980-85.

| M. C. C. | | Plan Outlay | | | |
|---------------------|-----|-------------|----|----------------|-------------|
| Major States | | | | Rs. in crores. | Per Capita. |
| Haryana | •• | •• | •• | 1,800 | 1,385 |
| Punjab | •• | •• | •• | 1,957 | 1,179 |
| Gujarat | • • | •• | •• | 3,760 | 1,096 |
| M aharashtra | • • | | •• | 6,175 | 983 |
| Madhya Pradesh | • • | •• | | 3,800 | 687 |
| Tamil Nadu | • • | • • | •• | 3,150 | 651 |
| Karnataka | • • | •• | •• | 2,265 | 614 |
| West Bengal | • • | •• | •• | 3,500 | 6 00 |
| Andhra Pradesh | • • | | •• | 3,100 | 584 |
| Kerala | • • | •• | •• | 1,550 | 578 |
| Rajasthan | • • | •• | | 2,025 | 577 |
| Orissa | | •• | •• | 1,500 | 536 |
| Uttar Pradesh | • • | •• | •• | 5,850 | 53 5 |
| Assam | •• | •• | •• | 1,115 | 52 6 |
| Bihar | •• | •• | •• | 3,225 | 456 |

States are ranked by per capita outlay

Per capita outlay is worked out by taking into account the estimated population as on 1st March, 1983.

Source:- Table 2.5 Centre for Minotiring Indian Economy-Feb. 1981.

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APPENDIX—B
Statewise Sixth Plan Outlays for Selected sectors of Development

(Rupees in erores)

| Major States | Fisheries | Forestry | Special Pro- gramme for Rural Develop- | Irrigation (Minor, Major & C.A.D. | Power | Large and Medium Indus- tries | Small Scale Indus- tries | Transport & communications | Health | Nutrition |
|----------------|-----------|----------|--|--|-------------|--|-----------------------------------|----------------------------|------------|-----------|
| 1 | 2 | 3 | ment 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Andhra Pradesh | 14 | 10 | 87 | 925 | 790 | 76 | 30 | 236 | 65 | 11 |
| Assam | 6 | 25 | 42 | 161 | 371 | 25 | 3 0 | 104 | 32 | 3 |
| Bihar | 7 | 18 | 190 | 1209 | 800 | 52 | 47 | 250 | 82 | 10 |
| Gujarat | 20 (3) | 90(1) | 144(4) | 1107(5) | 965(5) | 7 5(8) | 96(2) | 339(3) | 70(6) | 17(5 |
| Haryana | 2 | 14 | 29 | 569 | 545 | 11 | 19 | 170 | 48 | 4 |
| Karnataka | 13 | 31 | 49 | 555 | 6 01 | 89 | 74 | 145 | 66 | 23 |
| Kerala | 20 | 19 | 25 | 328 | 313 | 110 | 5 0 | 107 | 37 | 17 |
| Madhya Pradesh | 7 | 38 | 155 | 1147 | 1500 | 36 | 33 | 162 | 94 | 20 |
| Maharashtra | 12 | 49 | 81 | 1331 | 2157 | 132 | 6 0 | 441 | 89 | 26 |
| Orissa | 10 | 12 | 105 | 470 | 410 | 38 | 27 | 108 | 3 0 | 6 |
| Punja b | 2 | 13 | 36 | 397 | 733 | 61 | 20 | 113 | 49 | 1 |
| Rajasthan | 2 | 15 | 106 | 521 | 675 | 64 | 19 | 136 | 41 | 3 |
| Tamil Nadu | 24 | 59 | 120 | 2 2 5 | 1023 | 92 | 80 | 234 | 6 8 | 26 |
| Uttar Pradesh | 7 | 71 | 148 | 1547 | 2126 | 198 | 125 | 450 | 135 | 9 |
| West Bengal | 27 | 22 | 126 | 603 | 887 | 213 | 60 | 285 | 84 | 25 |

Note-Number in brackets against Gujarat Indicates its rank amongst the States.

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