

DRAFT ANNUAL PLAN

1980—81



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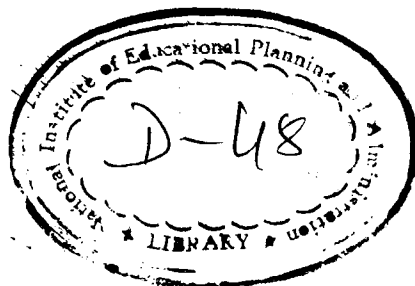


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PART I

CHAPTER I

Approach to the Annual Plan 1980-81

The overall strategy and objectives of the Draft Annual Plan 1980-81 are in conformity with those laid down in the Sixth Five Year Plan 1978—83 : Framework. The objective and strategy have been derived from the basic goal of developing Punjab into a Model State during the next nine years. The main elements of this strategy are :

Accelerated growth.

Diversification of the economy.

Fuller employment.

Reduced rural-urban disparity in health, Education and other Social Services.

Welfare of the weaker sections.

Integrated Rural Development.

Emphasis on improvement in the quality of life.

1.2 A new approach based on integrated area sub-plans for the development of the backward areas and a special component plan for scheduled castes and backward classes has been adopted in order to give direct benefit to the indentified weaker sections of the society.

1.3 Over the period 1965-66 to 1975-76, the Punjab economy grew at the rate of 4.78 per cent per annum. This rate, though substantially higher than the national average of around 3.5 per cent, is, nevertheless, inadequate both in relation to the growth potential of the State and the fulfilment of the Plan objectives. Increase in the average family income to higher than Rs. 15,000 per annum, significant progress towards industrialisation and diversification of the economy, removal of poverty from the State, reduction of unemployment and under-employment to acceptable proportions, significant improvement in the income and social condition of the weaker sections, universalisation of school education and literacy, reduction in the rural-urban disparity with regard to living standards, social services and civic amenities, economic development of backward areas and all round improvement in the quality of life, all call for accelerated pace

of development. An annual 7 percent rate of growth for 1980-81 has been considered the minimum necessary for progress towards the long-term goal of a Model State.

1.4 The size of the State's Annual Plan 1980-81 is proposed at Rs. 300.34 crores. The details of outlays by sub-head are shown in Annexure-I.

1.5 The Physical Targets for 1980-81 of selected items are shown in Annexure II.

1.6 The overall strategy and objectives of the Annual Plan 1980-81 are in conformity with those laid down in the Sixth Five Year Plan 1978—83 : Framework.

Agriculture :

1.7 With a joint effort of the State Government and the farmers of the State record agricultural production was achieved in 1978-79. Foodgrain production of the order of 116.76 lakh tonnes was recorded in 1978-79 as against 103.47 lakh tonnes achieved during 1977-78, showing an increase of 13.29 lakh tonnes, ever highest recorded in a single year. Major addition came from rice production which increased from 24.94 lakh tonnes in 1977-78 to 30.91 lakh tonnes in 1978-79, the production of wheat increased from 66.39 lakh tonnes to 74.23 lakh tonnes which is also a record. The annual Plan 1980-81 contemplates some adjustments in the pattern of development of crop production. The out put of cotton is expected to increase from the current year's estimates of 11.20 lakh bales to 13.50 lakh bales in 1980-81 and oilseeds from 1.50 lakh tonnes to 3.00 lakh tonnes, in 1980-81. The sugarcane (Gur) production is expected to increase upto 7.00 lakh tonnes in 1980-81 as against an estimated production of 5.00 lakh tonnes during 1979-80. Similarly, the production of potato is expected to go up to 8.50 lakh tonnes against the estimated production of 8.00 lakh tonnes during 1979-80.

1.8 The programme of production for 1980-81 has to be viewed in the backdrop of the severe drought conditions prevailing in the State during the current year. Despite the State's having 79%

of its areas irrigated, Kharif crops in 1979-80 have suffered heavily. Rice production is expected at a level of 28.50 lakh tonnes in 1979-80 as against 30.91 lakh tonnes in 1978-79. Similarly, fall in production is expected in respect of bajra, maize, cotton, oilseeds, particularly groundnut, rapeseed and mustard. Extension of drought to the current Rabi season is expected to damage the production levels in agriculture sector. Unless there is break in the drought spell and improvement in the availability of electric power and diesel supply, the targets set forth for 1980-81 as given in Annexure II may not be fully achieved. However, the following measures are proposed to be adopted to ensure the fulfilment of production targets :—

1. To increase irrigation, a major input, through installation of tubewells with the financial support from Government/Land Mortgage Bank ;
2. Efficient water management through lining of channels and water courses ;
3. To increase productivity per unit area with the economic and efficient use of vital inputs and increasing cropping intensity ;
4. To carry out a significant land reclamation programme so as to exploit the maximum available land potential ;
5. To give benefit to the common farmers of cotton growing areas of the State and to lay major emphasis on ground spray ;
6. To diversify farming so as to increase the production of important commodities like cotton, oilseeds and other cash crops including potato ;
7. To supplement the farming community by way of export of fresh vegetables ;
8. Training of farmers to educate them in advanced technology for improving their efficiency and skill by organising farmers training camps.

1.9 The main thrust in agriculture remains towards intensification, diversification and integrated rural development and post-harvest

technology. The plan includes a comprehensive package of programmes to achieve these objectives.

1.10 An outlay of Rs. 1960.00 lakhs is proposed for the sub-head of development 'Agriculture' for the year 1980-81 as against the original allocation of Rs. 1797.00 lakhs for 1979-80. Centrally Sponsored Schemes which were wholly/partly transferred to the State by the Government of India in accordance with their revised pattern of financing are also being adjusted. Stress has been laid on reclamation of alkaline and saline lands in the State. It is proposed to reclaim an area of 32,000 hectares during 1980-81 against an anticipated reclamation of 31,504 hectares during 1979-80. Subsidy amounting to Rs. 50.00 lakhs is proposed to be provided on imported zinc sulphate.

Horticulture

1.11 A separate Directorate of Horticulture to arrest the general decline in horticulture and to develop fruit industry on sound footing has been set up. The State has a vast potential for building up horticulture on commercial lines. The Submontane tracts comprising the districts of Rojhar, Hoshiarpur, Gurdaspur and parts of Patiala (Dera Bassi) districts are ideally suited for growing Mango, Litchi, Chiku in particular and other sub-tropical fruits like lime, lemon, Sangtra, Guava etc. in general. It is proposed to cover the entire tract with superior kinds of choice grafted varieties of mangoes and other sub-tropical fruits. During 1980-81 it is also proposed to give push to the grape industry by ensuring efficient marketing of the produce. Similarly, Cultivation of Mushrooms aromatic and medicinal plants will be popularised.

1.12 At present, the estimated area under plantation is 20,000 hectares. It is proposed to bring an additional area of 2,000 hectares under fruit plants during 1980-81. Rejuvenation of most of the gardens including replantation of the old deteriorated and uneconomic orchards is also proposed during 1980-81

ANIMAL HUSBANDRY

1.13 In order to diversify agricultural base of the State economy and to properly utilise cattle wealth to augment milk production, it is proposed to integrate farming with animal husbandry. This strategy will increase milk production and offer

employment opportunities in the rural areas of the State. During 1980-81, an amount of Rs. 250.00 lakhs has been proposed for various programmes under the sub-head of development 'Animal Husbandry' against an outlay of Rs 260.00 lakhs for the current year. The main emphasis during the year will be on improvement of cattle breeding through cross-breeding programme, adequate and effective health cover against various diseases, sufficient supply of feed and fodder concentrates, dissemination of scientific information of feeding, breeding and management practices. During 1980-81, milk production will increase to 32.36 lakh tonnes against the anticipated production of 30.59 lakh tonnes during 1979-80. Wool production will rise from the likely achievement of 12.20 lakh kgs. during 1979-80 to 13.13 lakh kgs. during 1980-81. Egg production will also increase from about 4,740 lakhs in 1979-80 to 5,140 lakhs during 1980-81. Besides, the maintenance of 307 veterinary hospital-cum-artificial insemination centres to be opened up to the end of 1979-80, 105 new veterinary hospital-cum-artificial insemination centres will be opened during 1980-81.

1.14 To combat the problem of poultry and Sheep diseases, it is proposed to take up the production of sheep pox vaccine and antigens like Brucella and Salmonella etc.

Soil Conservation

1.15 A provision of Rs 340.00 lakhs has been made in the Annual Plan 1980-81 for Soil and Water Conservation works for covering an area of 21,700 hectares. The major thrust of the plan of the Soil Conservation and Engineering Department is on Soil and Water Conservation works viz, contour bunding, bench terracing, land levelling, storage tanks, gully reclamation and installation of underground pipelines. An outlay of Rs 145.00 lakhs has been proposed in the Annual Plan 1980-81, to cover 9,000 hectares of area with various soil and water conservation measures in sub-montane and adjoining areas of the State. An outlay of Rs 42.00 lakhs is proposed to be utilised for treatment of 1400 hectares in the sub-montaneous tract of the State with World Bank assistance. Another sum of Rs 42.00 lakhs has been provided for soil conservation works over an area of 8,000 hectares in central districts. An amount of Rs 24.00 lakhs has been provided for land levelling and laying

underground pipelines in an area of over 1,500 hectares in border areas. Besides, a sum of Rs 22.00 lakhs has been earmarked for bench terracing and gully reclamation works over an area of 800 hectares in the catchment of river valley projects during 1980-81.

1.16 Institutional finance of Rs 2.46 crores is proposed to be raised for the implementation of various programmes like laying of underground pipelines.

Dairying and Milk Supply

1.17 An outlay of Rs 70.00 lakhs has been earmarked in the Annual Plan, 1980-81 under the sub-head "Dairying and Milk Supply" against an allocation of Rs 98.00 lakhs for the current year. The reduction in the allocation is mainly due to the fact that National Dairy Development Project—Operation Flood—II is being taken up in the State to develop self-sustaining and self-supporting dairy industry with financial assistance from Indian Dairy Corporation/National Dairy Development Board. The Corporation is likely to provide about Rs 25.00 crores in about 7 years. In the State plan schemes, the main thrust would be to organise intensive dairy training programmes so as to provide essential know-how in dairying to farmers and unemployed young men/women so as to enable them to establish mini-dairy farms for improving the socio-economic conditions of the people belonging to weaker sections of the society. An amount of Rs 34.00 lakhs has been provided for completing the construction of buildings and installation of machinery in 12 milk chilling-cum-demonstration centres in the State during 1980-81. Three such centres will be commissioned during 1980-81.

Fisheries

1.18 In order to supplement agriculture with aquaculture and to reduce the gap between the requirements and availability of high quality protein/subsidiary food at reasonable prices, due attention will be given to augment fish production in the State during 1980-81. An outlay of Rs 30.00 lakhs has been proposed for the sub-head "Fisheries" in the Annual Plan 1980-81 which is at the same level as that of the current year. During 1980-81, emphasis will be laid on the speedy completion of construction work relating to fish seed

farms and fish seed nurseries which have been under construction since 5th Plan. With the completion of these fish projects, the shortage of fish for stocking in village ponds and tanks in the State will be mitigated considerably. Funds to the tune of Rs 4.00 lakhs have been provided for assistance in the form of subsidy for intensive fish culture in the State under IRDP for the excavation of 20 hectares of water area and renovation of another 40 hectares of area during 1980-81.

1.19 It is hoped that the fish production in the State will increase to 3.00 thousand tonnes during 1980-81 against the anticipated production of 2.80 thousand tonnes during the year 1979-80.

Forests

1.20 For forestry operations in the State, an outlay of Rs 175.00 lakhs has been provided in the Annual Plan 1980-81 which is equal to the outlay for the year 1979-80. An outlay of Rs 80.00 lakhs has been provided for planting Sisso, Babul, Eucalyptus, Chil, Poplar etc. over an area of 3,400 hectares during 1980-81. An outlay of Rs 22.00 lakh has been provided for another main scheme of 'Farm Forestry' to raise and distribute 44 lakh plants for planting on private areas. Besides sufficient funds have been proposed for Zoological Park at Chhat Bir also.

Community Development

1.21 Considering the importance of people's participation in the formulation and execution of various developmental schemes in the State, the programmes relating to Community Development and Panchayats have been given high priority in the Annual Plan, 1980-81. An outlay of Rs. 515.00 lakhs including funds for Central IRDP has been provided for Rural Development and Panchayats Department for the Annual Plan, 1980-81 against the original outlay of Rs. 165.00 lakhs for 1979-80. During 1980-81 an additional amount of Rs. 2.00 crores will be provided for the scheme of matching grant for the development of villages. Under this scheme an equal amount will be contributed by village panchayats for the execution of developmental

schemes formulated by them. Besides, an amount of Rs. 42.80 lakhs is proposed for providing financial assistance to Panchayats for the implementation of revenue earning schemes like construction of shopping complexes at focal points. An outlay of Rs 60.00 lakhs and Rs. 25.00 lakhs has been earmarked for pavement of streets and construction of drains and for the construction of Panchayat ghars respectively, during 1980-81.

Co-operation

1.22. A provision of Rs. 580.00 lakhs has been proposed under this head of development for 1980-81 against original outlay of Rs 455.00 lakhs for 1979-80. The main target of the Cooperative Department in 1980-81 will be the reorganisation and revitalisation of credit structure and utilisation of institutional finance flowing from National Co-operative Development Corporation and IFCI to the maximum extent.

1.23. A major part of this outlay i.e. a sum of Rs. 269.65 lakhs has been earmarked for the programme 'Credit Co-operatives' to provide managerial assistance to reorganised Primary Co-operative Agricultural Service Societies and assist 264 societies for construction of 500 metric tonne capacity godowns. The State Government has already embarked upon streamlining the credit structure in the State by reorganising about 11,000 Primary Co-operative Agricultural Credit/Service Societies into 2,581 viable units and introduction of cheque system for drawal of loan direct from the branches of Central Co-operative Banks. The number of Central Co-operative Bank branches which were 542 at the end of 1978-79 are expected to increase to 580 by the end of 1979-80. 30 new Bank Branches will be opened during 1980-81.

1.24. An outlay of Rs. 90.00 lakhs has been provided in the Annual Plan, 1980-81, for strengthening the capital base of Co-operative Banks and Primary Co-operative Agricultural Service Societies. This amount will be provided after availing loan assistance from the Reserve Bank of India. It is also proposed to set up six

Spinning Mills in the Cooperative Sector at a total estimated cost of about Rs. 36.00 crores out of which Rs. 26.00 crores would flow from the NCDC and IFCI. To begin with, a sum of Rs. 51.00 lakhs including Rs. 23.50 lakhs to be availed from NCDC will be provided during the year 1979-80 for the spinning mills. An outlay of Rs. 100.00 lakhs has been earmarked in the Annual Plan 1980-81 for this purpose.

Irrigation

1.25. For the Irrigation Sector, an enhanced provision of Rs. 46.46 crores (Rs. 38.38 crores for Major and Medium Irrigation and Rs. 8.08 crores for Minor Irrigation) has been made for the year 1980-81 as against an anticipated expenditure of Rs. 36.03 crores during the year 1979-80.

1.26. The major programmes under the Irrigation Sector include lining of channels, lining of water-courses and Thein Dam. The provision for lining of channels has been kept at Rs. 12.00 crores during 1980-81 and another Rs. 13.50 crores have been provided for Thein Dam. The allocation for Punjab State Tubewell Corporation has been increased from Rs. 4.50 crores in the current year to Rs. 7.58 crores in 1980-81 to accelerate the pace of work on lining of water-courses. The project 'Diversion Weir of Shahnehar Canal' is likely to be completed during 1980-81 affording regular and regulated water supplies to the existing Shahnehar canal. The provision for this project has also been increased to Rs. 4.50 crores as against an anticipated expenditure of Rs. 2.50 crores during the year 1979-80. The implementation of various irrigation schemes would cover additional 32,000 hectares of land during the year 1980-81.

1.27. It is targetted to line 550 Kms. of canal distributaries, minors during 1980-81 against 640 Kms. likely to be lined during 1979-80. Similarly, 3525 Kms. of water-courses would be lined during the year 1980-81 as against 2710 Kms, anticipated during the current year.

Power

1.28. The outlay for Power has been stepped up from Rs. 94.71 crores during 1979-80 to

Rs. 108.30 crores for 1980-81. The main thrust will continue to be on completion of Anandpur Sahib Hydel Project, Shanan renovation and Shanan Extension Project, and accelerating work on the Mukerian Hydel Project. Outlay of Rs. 21.00 crores, Rs. 0.71 crores, Rs. 3.06 crores and Rs. 12.00 crores have been provided for these projects for the year 1980-81 as against Rs. 22.50 crores, Rs. 1.37 crores, Rs. 2.00 crores and Rs. 10.00 crores likely to be spent on these projects respectively, during the current year. A provision of Rs. 10.44 crores has been made for Rupar Thermal Plant Project a new project in the Sixth Plan.

1.29. Two units of Beas Project Unit-I have been commissioned during the current year and it is anticipated that the work of uprating the capacity of the four units of Shanan Renovation Project from 12 MW to 15 MW each will be completed during 1980-81. As a result of the commissioning of these projects the installed capacity which stood at 1383 MW at the end of 1978-79 will move upto 1,537 MW at the end of 1979-80 and to 1,549 MW at the end of 1980-81. The power generation would increase to 5,970 Mkw. during 1980-81 as against the likely achievement of 5,426 MKwh during 1979-80 and 5,087 MKwh in 1978-79.

1.30. It is targetted to energise 28000 Tubewells/pumping sets and give 1,40,000 general connections and 3,000 industrial connections during 1980-81.

Industry and Minerals

1.31. During the year 1978-79, an expenditure of Rs. 11.40 crores was incurred on the developmental schemes of this sub-head. For the year 1979-80 the outlay is Rs. 11.92 crores. The anticipated expenditure is also Rs. 11.92 crores. In the year 1980-81, the programme for development is by and large the same as was taken up during the year 1979-80. It aims at promoting private investment in the field of industry though direct investments of pioneering nature are also contemplated. A provision of Rs. 12.81 crores has been proposed for the Annual Plan 1980-81 which is 4.27 per cent of the total proposed outlay of Rs 300

crores of the State Plan. This conforms to the norm fixed under the Sixth Five Year Plan.

1.32. Out of the total proposed outlay of Rs. 12.81 crores, a sum of Rs. 918.00 lakhs has been earmarked for the development of Large and Medium Industries including Rs. 470.00 lakhs for the Punjab State Industrial Development Corporation, Rs. 181.00 lakhs for the acquisition of land for focal growth points for the development of industries and Rs 145.00 lakhs for the disbursement of interest free loans to entrepreneurs. For the Small Scale Sector, a sum of Rs. 360.00 lakhs has been provided wherein the outlays are for the completion of Centres/Institutions which will cater to services, technical know-how and guidance to the entrepreneurs. A sum of Rs. 36.00 lakhs has been provided for the establishment of District industries Centres to give a push to small scale and village industries. For the promotion of leather industry, a new scheme has been proposed at a cost of Rs. 30.00 lakhs which will help the leather workers in decentralised sector. Another scheme of Carpet Weaving Training Centres which was a Centrally Sponsored scheme will now be implemented from the State Plan. For this scheme, a sum of Rs. 30.00 lakhs has been earmarked.

1.33. During the year 1979-80, the following projects involving a total investment of Rs. 32.65 crores are expected to start production :—

- (1) Punjab Khand Udyog Ltd. Sugar Mills, Zira.
- (2) Punjab Khand Udyog Ltd. Sugar Mills, Gurdaspur.
- (3) Punjab Maize Products Ltd., Sangrur.
- (4) Steel Strips Ltd. V. Kup, District Sangrur.
- (5) Punjab Ceramics, Bhatinda.
- (6) Bagrian Shoes Ltd.

1.34. During the year 1980-81, it is proposed to take up investment in 11 projects, out of which 7 are expected to start functioning during the year 1981—82

Roads and Bridges

1.35. With a view to providing first links to all the 12,188 villages in the State, the emphasis

during the last few years has been on the construction of village link roads. During 1974-78, the expenditure incurred on this was as much as Rs. 29.26 crores out of a total expenditure of Rs. 39.63 crores on roads and bridges. In the Annual Plan 1978-79, an expenditure of Rs. 952 crores was incurred. In the Annual Plan 1979-80 a sum of Rs 4.50 crores out of a total provision of Rs. 15.00 crores had been provided for this purpose. As on April, 1979, 647 villages remained unlinked with roads which required construction of 1,249 Kms. of link roads. It was proposed to provide links to all villages by the end of the year 1979-80. It was felt that all the villages would be connected with link roads except about 250 villages which were either situated on the bed of river or could not be connected due to objections raised by the defence authorities. It was anticipated that 1,000 Kms. of road length would be added to the village roads net work giving metalled links to 397 villages. The number of villages left unlinked at the beginning of 1980-81 would be 250 for which construction of 249 Kms. of road length would be required. In the Annual Plan 1980-81 Rs.4.45 crores out of a total provision of Rs. 15.00 crores have been proposed for this scheme for completing the spill over work pertaining to surfacing of village roads already metalled and for the construction of the remaining road length in order to provide links to the remaining villages to the extent feasible and desirable. The construction of village roads has brought the villages into intimate contact with the mandies and the rest of the urban areas in the State.

1.36. The Sixth Plan, accords a high priority during 1979—83 for improvement and widening of roads and the provision of additional crusts on them. An outlay of Rs. 4.45 crores had been provided in the Annual Plan 1979-80 and a sum of Rs. 4.00 crores has been proposed for 1980-81 for the same purpose. In the Annual Plan 1979-80, a sum of Rs. 2.80 crores had been provided for the construction of bridges. Under this scheme a bridge on the river Beas near Goindwal is expected to be completed during 1979-80. In the Annual Plan 1980-81 a sum of Rs. 2.25 crores has been proposed for construction of bridges.

Road Transport

1.37, The goods transport is almost entirely in the private sector. The passenger transport is shared between the two public undertakings and the private sector, the ratio being 60: 40. In the Plan, provision has been made only for the two public sector undertakings. Their urgent requirements for the next four years include construction of additional depots so as to work towards the norm of 100 buses in a depot; replacement of old buses, addition to the fleet, and provision of workshop facilities. In the Annual Plan 1979-80, a sum of Rs. 6.00 crores had been provided. In the Annual Plan 1980-81, a provision of Rs. 7.00 crores has been proposed. The Punjab Roadways accounts for the provision of Rs. 4.95 crores. Being a departmental undertaking, it has no access to institutional finance. As such, a proposal to convert it into Corporation is under the active consideration of the Government. Its requirements have been met entirely from the State Plan. The Pepsu Road Transport Corporation will have, besides the plan provision, the contribution of railways and the funds expected to be available from banks.

Tourism

1.38. In order to provide tourist facility in the State, the Punjab Tourism Corporation was formed in March, 1979. Rs 50.00 lakhs was provided by way of share capital contribution to the Corporation during 1978-79 and a budget provision of Rs. 45.00 lakhs exists for 1979-80. In the Annual Plan 1980-81, a sum of Rs. 45.00 lakhs has been proposed. It is hoped that by mobilising institutional finance and by carefully husbanding its own internal resources, it would be possible for the Corporation to undertake its projected programme of development.

Urban Development

1.39. The State Government is very keen to develop urban areas and to provide civic amenities to the urban population. A provision of Rs. 25.00 crores has been made for the sub-head 'Urban Development' during 1980-81. It is expected that this provision will be supplemented with instit-

tional finance, including municipal committees/corporations and other resources to provide substantial urban facilities/civic amenities. Major programme under this sub-head of development is Rs. 66.7 crores IDA (World Bank) Urban Water Supply and Sewerage Project to be implemented in 8 major cities. A provision of Rs. 9.00 crores has been made for this purpose during 1980-81, which will be supplemented by direct loans (Rs. 3.60 crores) from LIC and contribution of beneficiary municipal committees/corporations. The loan from LIC has now been reflected in the State Plan as advised by the Government of India. Another important scheme to be implemented under this sub-head of development is Urban Estates for which a provision of Rs. 4.00 crores has been made for the year 1980-81. A total investment of Rs. 3358.58 lakhs has been made in the setting up of Urban Estates upto 31st March, 1979. An additional investment of Rs. 400 lakhs is likely to be made during 1979-80. Another provision of Rs. 1.50 crores is for other minor schemes of this sub-head of development like Urban Water Supply and Sewerage Board (Rs. 100.00 lakhs), assistance to Improvement Trusts (Rs. 15.00 lakhs), allotment of plots to Urban Harijans (Rs. 15.00 lakhs), for town and regional planning (Rs. 18.00 lakhs) and environmental improvement of slums (Rs. 2.00 lakhs).

1.40. A sum of Rs. 1.50 crores has been allocated for Integrated Urban Development Programme to be used as revolving fund for this scheme. In addition, a provision of Rs. 92.68 lakhs has been tentatively made for Centrally Sponsored Schemes transferred to the State e.g. Sewage Sullage Utilisation (Rs. 50.00 lakhs) and Rs. 42.68 lakhs for setting up of Compost Plants at Jullundur, Ludhiana and Amritsar.

Housing

1.41. Government is conscious of the housing problem in the State and therefore, steps are being taken to solve the same within the limited resources at its command. A provision of Rs. 10.24 crores has been made for the sub-head 'Housing' during 1980-81. Of this, a sum of Rs. 3.55 crores is proposed for construction of houses for Government employees at various places including focal points. This will be supplemented with loan assistance from HUDCO. With this outlay it will be possible

to construct 1209 houses and 362 flats. In addition, an amount of Rs. 1.50 crores has been provided for construction of 870 police houses and this provision will also be supplemented with loan from HUDCO. Another provision of Rs. 200.00 lakhs has been made for advancing loans to Government employees for constructing their houses themselves. For constructing houses at house sites allotted to landless Harijan workers a provision of Rs. 70.00 lakhs has been made and a matching assistance is likely to be received from HUDCO by the Housing Board. With this provision 1765 houses are likely to be constructed. Other schemes to be implemented under this sub-head of development are loans for LIG houses (Rs. 60.00 lakhs), contribution to Housing Board (Rs. 70.00 lakhs), loans for building houses in Urban Estates (Rs. 60.00 lakhs).

General Education

1.42. During the year 1978-79, expenditure incurred on various schemes was Rs. 1504.69 lakhs against the provision of Rs. 1541.98 lakhs. Of this, a sum of Rs. 1275.00 lakhs has been committed to Non-Plan budget. In the Annual Plan 1979-80 a provision of Rs. 597.00 lakhs was made for on-going and new programmes. During the year 1980-81 an outlay of Rs. 657.00 lakhs has been proposed. The department-wise details are as under:—

(Rs. in lakhs)

1	Primary Education (Directorate of Primary Education)	..	55.00
2	School Education (D.P.I. Schools)		347.50
3	College and University Education		170.00
4	Languages	..	10.00
5	Sports	..	38.00
6	Youth Services (including N.S.S.)		13.00
7	Archaeology & Museum	..	7.50
8	Promotion of Art and Culture	..	15.50
9	Archives	..	0.50
	Total	..	<u>657.00</u>

1.43. The main objective during 1980-81 is to maintain and consolidate the expansion of educational facilities undertaken during the previous years. The main thrust would be in the following sectors:—

1. Vocationalisation of Education;
2. Adult Education;
3. Strengthening of Administration & Supervision;
4. Improvement and construction of the institutional buildings;
5. Non-formal education;
6. Quality improvement.

Public Health and Sanitation

1.44. For the year 1979-80 a sum of Rs. 680.00 lakhs was provided under this head. This also takes care of the Centrally Sponsored transferred to the State Sector.

1.45. For the year 1980-81 an outlay of Rs. 800.00 lakhs has been proposed. The major efforts during 1980-81 would be to provide health facilities in the rural areas as during 1979-80, to narrow down the imbalance between such facilities available in the urban and rural areas

Medical Education and Research

1.46. Taking into consideration the approach to the formulation of Sixth Five-Year Plan, during 1979-80, efforts have been made to complete on-going works and equip the medical institutions with modern equipment and provide staff according to the norms laid down by Medical Council of India/Dental Council of India. The main activities during 1980-81 would be:—

- (i) expeditious completion of on going works;
- (ii) increase in out-turn of para-medical training;
- (iii) improvement & expansion of physical facilities, construction of colleges

campus in Guru Gobind Singh Medical College, Faridkot ;

- (iv) re-orientation of Medical Education with a view to progressively make the training of the Medical Students more community based ;
- (v) making up of deficiency in faculty staff Nursing/paramedical/Ministerial Staff ;
- (vi) encouragement to research activities in Medical Colleges.

1.47. For 1980-81 an outlay of Rs 265.00 lakhs has been provided for Medical Education and Research against the anticipated expenditure of Rs. 225.00 lakhs during 1979-80.

Rural Water Supply

1.48. 3,800 villages have been identified as scarcity villages in the State according to the criteria laid down by Government of India. The total cost of providing piped water supply to all these villages is Rs. 146.00 crores. At the end of the year 1979-80, an expenditure of Rs 41.22 crores would have been incurred to commission the water supply in 1945 villages. An outlay of Rs. 500.00 lakhs is proposed for 1980-81 to commission the water supply in 135 additional villages and thus at the end of the year, 2,080 villages shall be covered.

Development of Scheduled Castes and Backward Classes

1.49 A special attention is being paid to the welfare of the Scheduled Castes and Backward Classes. In the Sixth Five-Year Plan, an outlay of Rs. 2130.00 lakhs has been earmarked for the development of Scheduled Castes and Backward Classes. An outlay of Rs. 264.00 lakhs was provided in the Annual Plan 1979-80. For the year 1980-81, an outlay of Rs. 414.00 lakhs is proposed for continuing the on-going schemes as well as for the new inducted schemes, 'Share Capital' for Punjab Scheduled Castes Land Development and Finance Corporation, 'Subsidy on the interest rates' and 'B.Ed. and J.B.T. training to Scheduled Castes Graduates and Matriculates'. Under the 'Education Programme' an outlay of Rs. 50.65 lakhs has been proposed under which

pre-matric coaching to 31000 students of 9th to 11th classes and free books and stationery to one lakh students of 6th to 8th classes will be given. Grants will also be given to the law, medical and engineering institutions for the purchase of books for further distribution to the students belonging to the Scheduled Castes and Backward Classes. The training in Stenography will also be imparted to the members of Scheduled Castes. For the programme 'Economic Uplift' an outlay of Rs. 206.80 lakhs is proposed against the provision of Rs. 56.85 lakhs in 1979-80. Under this programme, subsidy/loan assistance is provided to the Scheduled Castes and Backward Classes. Rs. 18.60 lakhs are proposed under the scheme 'Subsidy for the purchase of agricultural land, houses and wells on land and also to defray the stamp duty charges over purchase of land by members of scheduled castes. Outlays of Rs. 30.00 lakhs and Rs. 50.00 lakhs are proposed as the share capital contribution to the Punjab Backward Classes Land Development and Finance Corporation and Punjab Scheduled Castes Land Development and Finance Corporation respectively so as to strengthen the financial base of these Corporations. A sum of Rs. 8.00 lakhs is proposed for the I.T.Is., being run only for the Scheduled Castes. An outlay of Rs. 100.00 lakhs is proposed to subsidise the interest rates on loans raised from the commercial banks through the said Corporations for the members of Scheduled Castes and Backward Classes.

1.50. Under 'Health, Housing and other programmes' for Scheduled Castes, an outlay of Rs. 40.00 lakhs is proposed to construct 400 dharamshalas. An outlay of Rs. 74.00 lakhs is proposed under the scheme 'Environmental improvement of Harijan basties including drinking water wells' under which environmental improvement will be done in 140 villages by providing there pacca streets, drains and drinking water. An outlay of Rs. 27.00 lakhs is proposed for providing subsidy at the rate of Rs. 2,000 per beneficiary under the scheme 'Construction of houses for Sweepers/Scavengers/Flayers and Tanners' to construct 1,350 houses. Under another similar scheme 'Construction of houses for vimukat jaties' an outlay of Rs. 13.00 lakhs is proposed to provide subsidy at the rate of Rs. 2,000 per beneficiary of vimukat jaties for

the construction of 650 houses. Rs. 0.30 lakh is also proposed under the scheme 'Legal Aid' to the Scheduled Castes in the form of lawyers' fee to enable them to protect themselves against the forcible eviction from land and to pursue other allied cases. An outlay of Rs 2.25 lakhs is proposed as the State share for two Centrally-sponsored Schemes 'I.A.S. coaching Centre, Patiala' and 'Girls Hostels'.

Social Welfare

1.51. In the Sixth Plan an outlay of Rs. 592.00 lakhs has been provided under various programmes for the welfare of children, women, the destitutes, the old and the infirm, the mentally retarded, the orthopaedically handicapped, the blind, the deaf and dumb and other under-privileged and mal-adjusted groups. From year 1979-80 Defence Services Welfare has been inducted under this programme by floating the Punjab Ex-Servicemen Corporation. For the Social Welfare Programme, an outlay of Rs. 88.00 lakhs is proposed for 1980-81 against the current year's plan provision of Rs. 80.00 lakhs.

1.52. Under the scheme 'Assistance to dependent children' an outlay of Rs. 17.00 lakhs is proposed to cover 3,000 beneficiaries for providing Rs. 50 per month to each. Under the scheme 'Assistance to widows and destitute women',

an outlay of Rs. 23.00 lakhs is proposed to cover 4,500 beneficiaries. Each beneficiary will be given Rs. 50 per month. The institutional care will also be provided to 45 widow and destitute women under the scheme 'Home for widow and destitute women' for which Rs. 0.50 lakh is proposed. Spill over requirement of Rs. 3.80 lakhs is proposed to construct the building of the Certified School at Hoshiarpur. Under the welfare programme of handicapped a sum of Rs. 0.50 lakhs is earmarked under which artificial limbs will be provided to 150 orthopaedically handicapped. The stipend will be provided to 120 handicapped students with the proposed outlay of Rs. 0.45 lakh. An outlay of Rs. 1.75 lakhs is proposed for providing grant-in-aid to Voluntary Welfare Organisations undertaking such programmes. An outlay of Rs. 20.00 lakhs has been earmarked for contribution towards the share capital of the Punjab State Women and Child Welfare Corporation, set up with an authorised capital of Rs. 5.00 crores.

1.53. The Punjab Ex-servicemen Corporation has been set up during 1979-80 with an authorised capital of Rs. 5.00 crores to provide help to the Ex-servicemen in re-settling in life after their retirement. An outlay of Rs. 5.00 lakhs is proposed for the contribution to its share capital during 1980-81

ANNEXURE I

ANNUAL PLAN, 1980-81

Proposed outlays by Development Heads

(Rs. in lakhs)

Sub-Head of Development	1979-80 Outlay		1980-81 Outlay
	Original	Revised	
1	2	3	4
I. Agriculture and Allied Sectors			
Agriculture ..	1797.00	1797.00	*1960.00
Minor Irrigation ..	520.00	520.00	808.40
Soil Conservation ..	340.00	340.00	340.00
Food ..	5.00	5.00	5.00
Animal Husbandry ..	260.00	260.00	250.00
Dairying and Milk Supply ..	98.00	98.00	70.00
Fisheries ..	30.00	30.00	30.00
Forests ..	175.00	175.00	175.00
Community Development and Panchayats ..	165.00	165.00	515.00
Total ..	3390.00	3390.00	4153.40
III. Cooperation			
Total ..	455.00	455.00	580.00
III. Irrigation and Power			
Irrigation ..	3083.00	3083.00	3838.00
Anti-water logging Drainage and Flood Control ..	750.00	750.00	500.00
Power ..	9471.00	9471.00	10830.00
Total ..	13304.00	13304.00	15168.00
IV. Industry and Minerals			
Large and Medium Industries, Small Scale Industries, Mines and Minerals ..	1192.00	1192.00	1281.00
Total ..	1192.00	1192.00	1281.00
V. Transport and Communication			
Civil Aviation ..	15.00	15.00	59.00
Road and Bridges ..	1500.00	1500.00	1500.00
Road Transport ..	600.00	600.00	700.00
Tourism ..	45.00	45.00	45.00
Total ..	2160.00	2160.00	2304.00

*Includes SFDA.

+ Includes Central IRDP.

ANNEXURE I—contd

ANNUAL PLAN—1980-81—contd

Proposed outlays by Development Heads—contd

(Rs. in lakhs)

Sub-Head of Development	1979-80 Outlay		1980-81 Outlay
	Original	Anticipated Expenditure	
1	2	3	4
VI. Social and Community Services :			
General Education ..	597.00	597.00	657.00
Technical Education ..	45.00	45.00	80.00
Public Health and Sanitation ..	680.00	680.00	800.00
Rural Water Supply ..	500.00	500.00	500.00
Housing ..	934.00	934.00	1024.00
Urban Development ..	2000.00	2000.00	2500.00
Information and Publicity ..	40.00	40.00	40.00
Labour and Labour Welfare ..	75.00	75.00	*96.00
Welfare of Schedule Castes and Backward Classes ..	264.00	264.00	414.00
Social Welfare ..	80.00	80.00	**88.00
Nutrition ..	16.00	16.00	16.00
Total ..	5231.00	5231.00	6215.00
VII. Economic Services :			
Statistics ..	15.00	15.00	21.60
Planning Machinery ..	10.00	10.00	10.00
Total ..	25.00	25.00	31.60
VIII. General Services :			
Stationery and Printing ..	11.00	11.00	11.00
Film Corporation ..	—	—	—
PUNSUP ..	10.00	10.00	10.00
Public Works ..	232.00	232.00	270.00
Administrative Training Institute ..	10.00	10.00	10.00
Employment Promotion ..	—	—	—
Total ..	263.00	263.00	301.00
Grand Total ..	26020.00	***26020.00	30034.00
* (1) Industrial Training ..	70.00		
(2) Employment Services ..	22.00		
(3) Labour Welfare ..	4.00		
Total ..	96.00		
** (1) Social Welfare ..	83.00		
(2) Ex-Servicemen Corporation ..	5.00		
Total ..	88.00		

***It is not possible at this stage to indicate revised estimates which are usually based on actual expenditure for the three quarters of the year, the figures for which would be available only in January, 1980. Hence, current year's outlays which are synonymous with the expenditure targets have been repeated in the column 'Anticipated expenditure.'

ANNEXURE—II

Draft Annual Plan 1980-81 Targets of Production and Physical achievements ..

Item	Unit	1978-79 Achievements (estimates)	1979-80		1980-81	
			Targets	Anti- cipated Achieve- ment	Proposed target	
1	2	3	4	5	6	
I. AGRICULTURE AND ALLIED SERVICES						
1. Production of foodgrains						
(a) Rice	.. 000 tonnes	3,091	3,100	2,850	3,250	
(b) Wheat	.. " "	7,423	6,900	6,900	7,100	
(c) Jowar	.. " "	1	2	2	2	
(d) Bajra	.. " "	95	100	50	90	
(e) Maize	.. " "	698	650	590	700	
(f) Other Cereals	.. " "	56	50	40	75	
(g) Pulses	.. " "	312	398	318	383	
Total Foodgrains	..	11,676	11,200	10,750	11,600	
2. Commercial Crops						
(a) Cotton	.. 000' Bales	1,325	1,350	1,120	1,350	
(b) Jute & Masta	.. " "	—	—	—	—	
(c) Sugarcane	.. 000' tonnes	607	700	500	700	
(d) Oilseed (Major oil seeds)	.. " "	180	299	150	300	
(i) Groundnut	.. " "	114	164	96	165	
(ii) Castor seed	.. " "	—	—	—	—	
(iii) Sesamum	.. " "	6	5	3	5	
(iv) Rapeseed & Mustard	.. " "	58	128	50	128	
(v) Linseed	..	2	2	1	2	
(vi) Others	..	—	—	—	—	
3. Chemical Fertilizer consumption						
(a) Nitrogenous(N)	.. " "	420	525	550	575	
(b) Phosphatic (P)	.. " "	155	200	225	250	
(c) Potassic (K)	.. " "	28	40	40	40	
Total	.. " "	603	765	815	865	
4. Plant Protection	.. 000' tonnes of technical grade material	4.2	4.2	4.2	4.2	
5. Area under High Yielding Varieties						
(a) Paddy	.. 000' Hect.	1,001	1,040	1,028	1,050	
(b) Wheat	.. "	2,634	2,650	2,600	2,600	
(c) Jowar	.. "	—	—	—	—	
(d) Bajra	.. "	34	60	40	50	
(e) Maize	.. "	65	100	90	100	
Total	.. "	3,734	3,850	3,758	3,800	

Item	Unit	1978-79 Achieve- ment	1979-80		1980-81
			Target	Antici- pated Achieve- ment	Proposed target
1	2	3	4	5	6
6. Cropped area					
(a) Net	.. 00' hect.	4,170	41,70	4,170	4,230
(b) Gross	.. "	6,400	6,400	6,400	6,600
7. Agricultural Marketing					
(a) Regulated markets	.. Nos.	110	N.A.	115	115
(b) Sub-market yards	.. "	224	N.A.	227	N.A.
(c) Sub-market yards developed	.. "	224	N.A.	227	N.A.
8. Land Reclamation					
(i) Area reclaimed	.. 000, Hect.	9.3	80.0	31.5	32.0
AGRICULTURAL CREDIT (during the year)					
(i) Short-term	.. (Rs crores)	112.00	140.00	147.00	181.00
(ii) Medium-term	.. "	3.00	3.50	3.00	4.00
(iii) Long-term	.. "	20.93	34.00	24.00	56.00
II SOIL CONSERVATION AND WATER MANAGEMENT during the year)					
(i) Land levelling	.. 000 Hect.	2.5	10.00	6.00	7.7
(ii) Bench Terracing	.. "	2.1	2.00	2.50	3.8
(iii) Contour bunding and gully reclamation	.. " ..	0.4	1.00	0.50	1.2
(iv) Laying of under ground pipelines	.. "	4.2	10.00	9.0	9.0
Total	.. "	9.2	23.00	18.00	21.7
III. ANIMAL HUSBANDRY					
(i) Production of animal products (during the year)					
(a) Milk/Milk products	.. 000 tonnes	2911	3059	3059	3236
(b) Wool	.. Lakhs Kgs.	11.25	12.20	12.20	13.13
(c) Eggs	.. Millions	444	474	474	514
(ii) Veterinary Dispensaries at the end of the year	.. No.	360	360	360	360
(iii) Veterinary Hospitals -cum-artificial insemination centres (under I RDP)	.. No.	202	324	324	429
(iv) Artificial Insemination during the year	.. In Lakhs	3.25	4.00	4.00	4.50
IV. DAIRYING AND MILK SUPPLY					
(i) Milk Chilling-cum-demonstration centres (at the end of the year)					
(a) Continuing	.. No.	8	7**	12	9
(b) New	.. No.	4	—	—	—
(c) Completion	.. No.	—	3	—	3

Item	Unit	1978-79 Achievements	1979-80		1980-81	
			Target	Likely achievement	Target	
1	2	3	4	5	6	
V. FISHERIES						
(i) Fish Production (during the year)	.. 000 tonnes	2.50	2.80	2.80	3.00	
VI. FORESTS						
(i) Area under economic plantation for industrial and commercial uses (during the year)	000' hectares	6.68	8.08	6.38	5.00	
(ii) Area under fuel wood plantations	.. 000 hectares	4.15	4.40	4.40	4.40	
VII. IRRIGATION						
(i) Area under major and medium Irrigation (at the end of the year)						
(a) Potential	.. 000 Hect.	375.5	406.5	406.5	438.0	
(b) Utilisation	.. "	370.5	—	397.5	—	
(ii) Lining of distributaries/ Kms Minors (during the year)		572	640	640	550	
(iii) Lining of water courses (during the year)	.. "	1422	2200	2710	3525	
VIII. POWER						
(i) Installed capacity (at the end of the year)	.. MW	1383	1556	1537	1549	
(ii) Electricity generated during the year (including purchases from outside)	MKwh.	5087	5433	5426	5970	
(iii) Electricity sold during the year (within the State)	.. "	3687	4292	4366	4802	
(iv) Tubewells/pumping sets energised (during the year)	.. No.	36670	30000	30000	28000	
(v) General connections (during the year)	.. "	148273	125000	125000	140000	
(vi) Industrial connections (during the year)	.. "	4184	3000	3000	3000	
IX. TRANSPORT						
1. Roads (at the end of the year)--						
(i) State Highways surfaced	.. K.M.	1900	1900	1900	1900	
(ii) Major District Roads surfaced	.. K.M.	2100	2100	2100	2100	
(iii) Other district roads surfaced	.. K.M.	2346	2379	2404	2406	
(iv) Village roads surfaced	.. M.K.	21246	**23520	23886	24520	***25520
Total roads surfaced*	.. K.M.	27592	29899	30280	30911	31926
2. Villages not connected by roads (at the end of the year)—	No.	1785	647	—	250	—
3. Vehicles owned by State undertakings—						
(a) P.R.T.C.						
(i) Fleet strength (at the end of the year)	.. No.	803	849	930	930	1325
(ii) Route kilometrage operated daily	.. No.	167024	176592	193440	193440	209040
(b) Punjab Roadways:						
(i) Fleet strength (at the end of the year)	.. No.	2171	2271	2361	2361	2441
(ii) Route Kilometrage operated daily	.. No.	451568	472368	491088	491088	500750

*Excluding 964 kilometers of National highways.

**Includes 883 Kms. of road length constructed with the funds of M.C.'s/M.B.

***Includes inter-links besides 249 kms of 1st links.

**Excludes milk chilling centres which were scheduled to be completed during 1978-79.

Item	Unit	1978-79 Achievement	1979-80		1980-81
			Targets	Likely achievements	Targets
1	2	3	4	5	6
X. PUBLIC HEALTH AND SANITATION					
(i) Medical Education					
(a) Annual admission	.. No.	400	460	460	460
(b) Annual Outturn	.. No.	390	450	450	450
(ii) Rural Health					
(a) Block Level Rural Hospitals (by the end of the year)	.. No.	86	116	101	118*
(b) Subsidiary Health Centres (at the end of the year)	.. No.	846	1096	1096	1096*
(c) Number of P.H.C.s (at the end of the year)	.. No.	129	129	129	129
(d) Sub-Centres (at the end of the year)	.. No.	1034	1034	1034	1034
(iii) Rural Water Supply:					
(a) Number of Villages covered under R.W.S. programme at the Number end of the year (commulative)		1810	1945	1945	2080
XI. GENERAL EDUCATION					
(i) Enrolment at the end of the year—					
(a) Age-group 6—11	.. 000	2106	2120	2120	1975
(b) Age-group 11—14	.. 000	662	735	735	790
(c) Age-group 14—17	.. 000	264	287	287	335
(ii) No. of institutions (at the end of the year)					
(a) Primary Schools	.. No.	14059	14069	14069	14079
(b) Middle Schools	.. No.	1576	1576	1526	1576
(c) High/Higher Secondary Schools	.. No.	1557	1607	1676	1726
XII. HOUSING					
1. Houses for Government Servants (during the year)	.. No.	100	3057	2997	1209
2. Houses for Police	.. No.	198	1000	1000	870
3. Subsidised Industrial Housing	.. No.	—	60	60	60
4. Low Income group houses	.. No.	981	1456	1456	1200
5. Houses for Harijans	.. No.	118	3500	3500	1765
XIII. URBAN DEVELOPMENT					
1. Area acquired	.. Acres	1000	400	400	400
2. Area Developed	.. Acres	250	200	400	400
3. Plots carved (during the Year)	.. No.	4882	3500	3200	3200
4. Plots sold (during the year)	.. No.	4882	7500	3200	3200
5. Proceeds realised (during the year)	.. (Rs. in lakhs)	1322.77	580	580	NA

*Figures are subject to change.

*This figure is inclusive of Primary Schools detached from the Middle/High/Higher Secondary Schools and were made independent units after setting up of Primary Directorate.

CHAPTER II

Financial Resources

Revised Financial Resources for 1979-80 :—

The Annual Plan size of Rs. 260 crores for the year 1979-80 was determined on the assumption that State's own resources towards financing the plan would be Rs. 182.57 crores and Rs. 17.35 crores would be on account of additional market borrowings, additional quantum of negotiated loans, share of additional resources mobilisation by the Centre and deferment of payment of deposits of the Boards/Corporations and the rest would be Central Assistance. However, as a result of the discussion with the Planning Commission on 15th and 16th November, 1979 the State resources add upto Rs. 171.93 crores only. The erosion of State resources has been largely on account of shortfall in the share of Central taxes, non-tax revenue, contribution from local bodies and absence of additional resources mobilisation. Besides, as against the earlier assumptions, there has been depletion in Central Assistance of Rs. 10.64 crores under IATP and Rs. 3 crores under IDA Projects. The increase in non-plan expenditure on account of revision of dearness allowance and pay scales etc. has also acted as a drain on the resources of the State for financing the Plan. The aggregate resources, as assessed in the above discussion with the Planning Commission, including Central Assistance etc. for the current year aggregate to Rs. 218.33 crores, leaving still a gap of Rs. 41.67 crores in the size of Annual Plan and the resources earlier estimated. It is proposed to bridge the gap by relying on buoyancy in tax receipts, economy in non-plan expenditure, additional resources mobilisation etc. If it were not found possible as a last resort the State would have to revert to the only painful alternative to prune the size of the Plan.

Financial Resources for 1980-81 :—

2.2. In the discussion with the Planning Commission on 15th and 16th November, 1979, the

financial resources for the year 1980-81 including Central Assistance were estimated at Rs. 223.10 crores based on the assumption that the gap of Rs. 41.67 crores in the Annual Plan size for the year 1979-80 and Plan resources would be made good. Keeping in view the developmental needs of the State, the State Government has proposed the Annual Plan of the order of Rs. 300 crores for the year 1980-81 giving a step up of 15.4 percent over the provision for the year 1979-80. Detailed estimates of State resources for the year 1980-81 are given in Annexure-I and resources position in brief is as under :—

(Rs. in crores)

	Estimates as worked out in the discussion with the Planning Commission
1. State resources at 1977-78 level of taxation, rates, tariffs, etc. (including market borrowings and share of Central taxes) ..	158.80
2. Additional Resource Mobilisation (already achieved)	8.30
3. Resources Accruals from Government of India ..	56.00
Total ..	223.10

2.3. The resources for the year 1980-81 have been estimated on the following assumptions :—

- (1) No credit has been taken on account of additional resource mobilisation. Only the resource mobilisation of Rs. 6.80

crores in 1978-79 which would bring in Rs. 8.30 crores for the year 1980-81 has been taken into account.

- (2) The latest estimates for the resources which would accrue as Central Assistance are Rs. 56 crores. This is inclusive of Rs. 15 crores tentatively assumed on account of IDA Projects and Rs. 6.50 crores on account of Centrally-Sponsored Schemes in accordance with the IATP formula.
- (3) The State's resources at 1978-79 levels of taxation, water and power rates, fares, etc. have been projected for 1980-81 and the surplus made available for the Plan outlay after providing fully for non-plan expenditure (including non-plan development outlay on maintenance of assets and services).

- (4) The contribution from the Local Bodies has been assumed at Rs. 10 crores.
- (5) The suggestion of the Planning Commission that the State effect economy in the non-plan expenditure of Rs. 8 crores in the year 1980-81 has also been accepted.
- (6) The suggestion of the Planning Commission that there be less off loading of deposits of Corporations/Local Bodies to the extent of Rs. 5 crores than the amount of Rs. 13.50 crores suggested by the State Government, has been incorporated.

2.4 The resource gap of Rs. 77 crores in the proposed Annual Plan size and the plan resources would be covered through additional resource mobilisation, buoyancy in tax receipts and further economy in non-plan expenditure.

ANNEXURE I
ESTIMATES OF STATE RESOURCES

(Rs crores)

Item	1979-80			1980-81	
	Annual Plan Estimates	Latest	Estimates	As furnished by the State Government	As worked out in the discussion with the Plan- ning Com- mission
		As furnished by the State Government	As worked out in the discus- sion with the Planning Commission		
1	2	3	4	5	6
I. Plan outlay	250.00	260.00	260.00	300.34	300.34
II. State's budgetary resources other than negotiated loans and State enterprises market borrowings—					
1. Balance from current revenue at 1977-78 rates of taxation	92.65	51.50	51.39	79.60	86.34
2. Contribution of Public Enterprises at 1977-78 fares and tariffs—					
(a) State Electricity Board	3.30	6.40	6.40	5.50	3.20
(b) Road Transport Corporation	0.25	(—)0.60	(—)0.46	(—)2.20	(—)1.14
3. Loans from market by State Government (Net)	6.80	5.60	5.60	6.10	5.50
4. Share of Small Savings	11.00	18.00	18.00	18.00	20.00
5. State Provident Fund	6.80	16.40	16.40	10.10	10.10
6. Miscellaneous Capital Receipts (Net)	1.30	22.40	(—)9.78	(—)9.10	(—)2.10
7. Contribution of Local Bodies	20.00	10.00	10.00	10.00	10.00
Total II	142.10	129.70	97.55	118.00	131.90
III. Additional Resource Mobilisation—					
(a) 1978-79 Measures	7.80	7.80	7.80	8.30	8.30
(b) 1979-80 Measures	20.00	—	—	—	—
(c) 1980-81 Measures	—	—	—	—	—
Total III	27.80	7.80	7.80	8.30	8.30
IV. Negotiated loans and State enterprises market borrowings—					
A. Negotiated loans (Gross)—					
1. State Government—					
(a) Loans from L.I.C.	7.00	7.00	7.00	1.10	1.10
(b) Loans from R.B.I.	3.37	3.40	3.40	2.10	2.10
2. State Enterprises—					
(a) Loans from L.I.C.	6.16	6.20	6.20	6.80	6.80
(b) Loans from R.E.C.	4.67	10.50	4.70	6.50	5.20

Item	1979-80			1980-81	
	Annual Plan Estimates	Latest Estimates		As furnished by the State Government	As worked out in the discussion with the Planning Commission
		As furnished by the State Government	As worked out in the discussion with the Planning Commission		
1	2	3	4	5	6
3. Others—					
(a) Loans from L.I.C. for Water-Supply ..	1.10	1.10	1.10	1.20	1.20
B. Market Borrowings (Net)—					
1 State Enterprises (P.S.E.B.) ..	7.72	9.10	9.10	9.10	10.50
Total IV (A+B) ..	30.02	37.30	31.50	26.80	26.90
V. Withdrawal from reserves etc.—					
(a) Drawings on reserves ..	—	2.90	{ 2.90 32.18 }	—	—
(b) Sale of long term securities ..	—	—	—	—	—
(c) Increase in ways and means advances from R.B.I.	—	—	—	—	—
(d) Increase in over-draft ..	—	—	—	—	—
Total V ..	—	2.90	35.08	—	—
VI. State's Total Resources ..	199.92	177.70	171.93	153.10	167.10
VII. Central Assistance ..	60.00	46.40	46.40	56.50	56.00
VIII. Aggregate Resources (VI+VII) ..	259.92 (Say 260.00)	224.10	218.33	209.60	223.10
IX. Gap in resources (VIII-I) ..	—	(—)35.90	(—)41.67	(—)90.74	(—)77.24

CHAPTER III

Agriculture and Rural Development (I)

With massive efforts of State Government and hard work of farmers of the State, it was possible to harvest the record agriculture production, particularly of rice and wheat during 1978-79. In spite of unprecedented drought during Kharif 1979, ever recorded in the history of this country during the current century and acute shortage of diesel and power for Irrigation purposes, production

was not allowed to suffer heavily. This was possible on account of various steps such as arrangements for the timely and adequate supply of essential inputs like seeds, fertilizers, plant protection measures, accelerated reclamation programme, etc. The growth in the output of principal crops is given in the table 3.1 :—

Table 3.1 : Output of Principal Crops

Crop	Unit	1973-74	1977-78 (Provisional)	1978-79 (estimates)	1979-80		1980-81 (targets)
					(targets)	(estimates)	
1	2	3	4	5	6	7	8
Wheat	.. 000' tonnes	5181	6639	7423	6900	6900	7100
Rice	.. "	1140	2494	3091	3100	2850	3250
Maize	.. "	764	681	698	650	590	700
Bajra	.. "	144	119	95	100	50	90
Barley	.. "	94	68	56	50	40	75
Other Cereals	.. "	4	3	1	2	2	2
Total Cereals	.. "	7327	10004	11364	10802	10432	11217
Gram	.. "	315	319	284	350	300	350
Other Pulses	.. "	37	24	28	48	18	33
Total Pulses	.. "	352	343	312	398	318	383
Total foodgrains	.. "	7679	10347	11676	11200	10750	11600
Groundnuts	.. "	150	154	114	164	96	165
Other Oilseeds	.. "	145	73	66	135	54	135
Total Oilseeds	.. "	295	227	180	299	150	300
Cotton	.. 000' bales	1158	1224	1325	1350	1120	1350
*Sugarcane	.. 000' tonnes	582	652	607	700	500	700
Potato	.. "	317	727	816	800	800	850

*(in-term of Gur)

3.2. Wheat and Paddy are the major crops contributing about 90 per cent of the total foodgrains production in the State. Foodgrains production to the extent of 116.76 lakh tonnes was recorded in 1978-79 as against 103.47 lakh tonnes during 1977-78 showing an increase of 13.29 lakh tonnes, ever highest recorded in a single year. Major addition has come from rice where production increased from 24.94 lakh tonnes in 1977-78 to 30.91 lakh tonnes in 1978-79. But the production is likely to slump to 28.50 lakh tonnes during 1979-80 due to severe drought. The targets for 1980-81 have, however been put at 32.50 lakh tonnes. Similarly wheat production increased from 66.39 lakh tonnes in 1977-78 to 74.23 lakh tonnes in 1978-79 and the target for 1980-81

is 71.00 lakh tonnes. The targets for the production of pulses has been raised to 3.83 lakh tonnes for 1980-81 against an estimated production of 3.18 lakh tonnes during 1979-80, while the targets proposed for 1980-81 for the production of oilseeds is 3.00 lakh tonnes as against an anticipated achievement of only 1.50 lakh tonnes during the year 1979-80.

3.3. Major increase in rice and wheat production in the State has come from enhanced productivity at an accelerated growth. A statement indicating average yield of wheat and paddy in respect of main wheat and paddy producing states of India is given below :—

Table 3.2 Yield of wheat and Paddy of various States (1977-78)

States	Average Yield (Per hectare in kgs)
1	2
Wheat—	
Punjab	2537
Haryana	2099
U.P	1064
Madhya Pradesh	909
All-India	1477
Paddy—	
Punjab	4365
Haryana	3907
Tamil Nadu	3315
Andhra Pradesh	2236
All-India	2052

It may be observed from the above table that average yields in Punjab are the highest amongst the important wheat and rice growing States of the Country.

3.4. Yield per hectare of various crops in the State for 1974-75 to 1977-78 is given in the table below :—

Table 3.3 Yield of different crops in Punjab

Crop	Year			
	1974-75	1975-76	1976-77	1977-78
1	2	3	4	5
Rice	2071	2553	2605	2910
Jowar	493	596	441	666
Bajra	886	1038	924	1129
Maize	1720	1467	1144	1527
Wheat	2395	2373	2432	2537
Barley	1155	1267	1205	1392
Gram	813	987	892	911
Sugarcane (Gur)	4997	5374	5362	5629
Potatoes	15946	16648	21279	19976
Cotton (American)	416	404	379	374
Cotton (Desi)	301	292	283	264

3.5. Assured irrigation facility is a must for growing High Yielding Varieties of crops. As a result of the expansion in the area under tube-wells and canal irrigation, about 3,243 thousand hectares have assured irrigation supplies which comes to 78 per cent of the net cropped area. Net area sown in 1977-78 was about 4,169 thousand hectares

which formed more than 82.8 per cent of the total reporting area of 5,033 thousand hectares in the State. About 2,222 thousand hectares of area is sown more than once which gives a cropping intensity of 153.3 per cent during 1977-78. The table indicating the trend of irrigated area as compared to the cropped area in the State is given below :—

Table 3.4 : Irrigated Area and Area Sown in Punjab

(000' Hectares)

Year	Net area sown	Net Irrigated area	Percentage of net irrigated area to net area sown	Total cropped area	Gross irrigated area	Percentage of Gross irrigated area to total cropped area
1	2	3	4	5	6	7
1960-61	3757	2020	54	4732	2646.0	55.9
1965-66	3803	2263	59	4889	3136.0	64.1
1969-70	4027	2835	70	5499	4080.0	77.2
1974-75	4092	3183	78	5905	4770.2	80.8
1975-76	4158	3119	75	6255	4930.8	78.8
1976-77 (P)	4167	3194	77	6285	5080.2	80.8
1977-78 (P)	4169	3243	78	6391	5194.9	81.3

Programme for 1980-81

3.6. Basic objective of Sixth Plan is to provide gainful employment and remove underemployment among people particularly living in rural areas. An increase in cropping intensity helps in mitigating underemployment by providing farm work round the year. Agricultural production, therefore, needs to be increased at an accelerated rate enabling the State to develop bigger resources for the benefit of the masses. However, the programme of production has to be viewed with the backdrop of the severe drought conditions prevailing in the State during the current year. Thus despite the State's having 79 per cent of its area irrigated, Kharif crops in 1979-80 have suffered heavily. Extension of drought to the current Rabi season is expected to damage the production levels in agriculture sector. Unless there is break in the drought spell and improvement in the availability of electric power and diesel supply, the targets

set forth for 1980-81 as given in Table 3.1 may not be fully achieved.

3.7. The Annual Plan, 1980-81 contemplates some adjustments in the pattern of development of crop production. With the achievement of remarkable progress in respect of the production of cereals, efforts will have to be put in for increasing production of other important commodities like cotton, oilseeds, cereals and horticulture crops. The main thrust in agriculture is towards intensification, diversification, integrated rural development and post harvest technology. A number of measures as given below are proposed to be adopted to ensure the fulfilment of production targets set for 1980-81 :—

- (1) Increase irrigation, a major input, through installation of tubewells with the financial support from Government/L.M.B.

- (2) Efficient water management through lining of channels and water courses.
- (3) Increase productivity per unit area with the economic and efficient use of vital inputs and increasing cropping intensity.
- (4) Carry out a massive land reclamation programme so as to exploit the maximum available land potential.
- (5) Give benefit to the common farmers of cotton growing areas of the State by laying more emphasis on ground/aerial spraying.
- (6) Diversify farming so as to increase the production of important commodities like cotton, oilseeds and other cash crops including potato.
- (7) Supplement the income of the farming community by arranging export of fresh vegetables.
- (8) Involve a large number of farmers in Intensive Agricultural Programme by

imparting them know-how for the large-scale use of sophisticated inputs in an intensive manner and keep them abreast with fast changing agricultural technology.

3.8. The Plan includes a comprehensive package of programmes to implement this strategy of agriculture and rural development. The programmes relating to agriculture and soil and water conservation are discussed below :—

AGRICULTURE

3.9. An outlay of Rs 1,960.00 lakhs is proposed for the sub-head of development 'Agriculture' for the year, 1980-81 as against the original allocation of Rs 1,797 lakhs for 1979-80. Centrally Sponsored Schemes which were wholly/partly transferred to the State in accordance with their revised pattern of financing are also being adjusted. The actual expenditure under this sub-head for the period, 1978-79, anticipated expenditure for 1979-80 and proposed outlay for 1980-81 and 1978-83 are as under :—

Table 3.5 : Actual/anticipated expenditure and outlays

Year	(Rs in lakhs)
1	2
1978-79	.. 893.14
1979-80 (Anticipated)	.. 1797.00
1980-81 (Proposed)	.. 1960.00
1978-83 (Proposed)	.. 9604.67

3.10. The major portion of the outlay of Rs 1,960.00 lakhs for the Annual Plan, 1980-81 has been earmarked for the following programmes :—

Table 3.6 : Major Outlay

Serial No.	Name of the Programme	Outlay for 1980-81
1	2	3
1	Punjab Agricultural University, Ludhiana	.. 230.00
2	Land Reclamation	.. 462.34
3	Multiplication and distribution of seeds	.. 34.70
4	Manures and Fertilizers	.. 66.20
5	IRDP	.. 50.00
6	Plant Protection	.. 329.71
7	SFDA's	.. 195.00
8	Development of Mandis	.. 50.00
9	Horticulture	.. 100.00
10	Agricultural Credit	.. 185.00

The major programmes/schemes are discussed below :—

Research, Education, Extension and Training

3.11. PAU undertakes various agriculture research, education and extension programmes. The university has evolved a number of new varieties of crops with the help of which it has been possible to sustain agriculture production in the State. Their main areas of research are wheat, rice, cotton, oilseeds, cereals and pulses, etc. The university also undertakes programmes for spreading higher and specialised education in agriculture for which facilities like precision equipment, audio-visual and laboratory facilities are required. It also undertakes programmes for disseminating information regarding various aspects of farm practices. To enable the university to continue the programmes of research, education and extension an outlay of Rs. 230.00 lakhs has been provided for 1980-81 against an anticipated expenditure of Rs. 220.00 lakhs for the current year.

Reclamation of Land

3.12 At the beginning of the Fifth Plan, about 698,000 hectares were affected with alkalinity/salinity. Of this 463,000 hectares marginally or moderately and 235,000 hectares were seriously affected. Most of the area in the first category is under cultivation but on account of affected patches gives low yield. The reclamation of these lands was undertaken in the Fifth Plan but the progress was very slow as only about 16029 hectares were reclaimed by 1977-78. The pace of the programme was stepped up in 1978-79 and the target for the

year was set at 80,000 hectares. However, due to limited supply of gypsum, an area of 26,990 hectares was reclaimed during 1978-79, while an area of 31,504 hectares is expected to be reclaimed during 1979-80. The programme has been given high priority in the Annual Plan 1980-81 and it is envisaged to reclaim 32,000 hectares.

3.13 There are three main programmes under scheme A(P)5.1, the Government takes on lease the affected area owned by village Panchayats for setting up demonstration plots for reclamation work. Three reclamation centres have been set up at Gurdaspur (280 hectares), Kapurthala (120 hectares) and Sangrur (40 hectares). After reclamation, these areas will be used for seed production. Under another scheme A(P)5.2, Gypsum, the main ingredient for reclamation of soils, is supplied to the farmers at a highly subsidized rate. The rate of subsidy is 75 per cent for small and marginal farmers and 50 per cent for others. The procurement and supply of Gypsum is handled by Land Development and Reclamation Corporation. It has set up a chain of depots in the districts for the purpose. The Corporation has also set up a machinery unit which provides bulldozers at reasonable rates for levelling and shaping of lands.

3.14. An outlay of Rs. 462.34 lakhs has been provided for the programme of Land Reclamation for the year 1980-81 as against an approved outlay of Rs. 261.40 lakhs during 1979-80.

3.15 The Physical achievements for 1977-78, 1978-79 anticipated achievement for 1979-80 and targets for 1980-81 are given below :—

Table 3.7 : Area Reclaimed, Gypsum Supplied and Subsidy advanced

Item	Unit	1977-78	1978-79	1979-80 (estimates)	1980-81 (targets)
1	2	3	4	5	6
1. Area reclaimed	.. Hectares	9,348	26,990	31,504	32,000
2. Gypsum supplied	.. Tonnes	62,255	1,51,670	2,20,528	2,25,000
3. Subsidy utilized	.. Rs in lakhs	107.66	210.00	423.40	435.00

Multiplication and Distribution of Seeds

3.16 Improved Seeds increase productivity. Self-pollinated seeds require replacement every 4-5 years and hybrids every year. Therefore, the

programme for multiplication and distribution of seeds has to be expanded from year to year. The progress made hitherto and targets for 1980-81 are indicated below :—

Table 3.8 : Supply of Improved Seeds

Seed	(000' Quintals)			
	1977-78	1978-79	1979-80 (estimates)	1980-81 (target)
1	2	3	4	5
Wheat ..	28	37	80	100
Paddy ..	10	20	17	20

3.17. For the intensification of seed production, the Punjab State Seeds Corporation has been set up. It arranges for production of seed through registered growers. The 'Seed Certification Authority,' an autonomous organisation has the responsibility for certified seed. Provision has also been made for the expansion of Seed Testing Laboratory to ensure enforcement of quality control measures throughout all stages of production, processing and marketing.

3.18. The total allocation for the programme of Multiplication and distribution of seeds for 1980-81 is Rs. 34.70 lakhs as against an approved outlay of Rs. 46.00 lakhs during 1979-80.

Manures and Fertilizers

3.19 Since the onset of green revolution, fertilizer consumption has increased rapidly. By 1977-78, the total consumption in terms of plant nutrients (N, P₂O₅, K₂O) had increased to 465,000 tonnes. This works out to 74 kg. per hectare of cropped area which is about three times the national average of 25 kg. There is, however, still a vast scope for further improvement in the consumption rate. Accordingly, the target for 1980-81 has been set as 865,000 tonnes against an anticipated consumption of 815,000 tonnes during 1979-80 as per details given below :—

Table 3.9 : Fertilizer Consumption

Year	(000' tonnes of nutrient)			
	N	P ₂ O ₅	K ₂ O	Total
1	2	3	4	5
1973-74 ..	218	68	21	307
1977-78 ..	331	105	29	465
1978-79 ..	420	155	28	603
1979-80 (anticipated) ..	550	225	40	815
1980-81 (targets) ..	575	250	40	865

3.20. Fertilizer is a costly input for making a balanced efficient and economic use of fertilizer, soiltest is a pre-requisite. The State has established

six soil testing laboratories at Nabha, Patiala, Ferozepur, Faridkot, Tarn-Taran and Nawan-Shehar. Each laboratory has the capacity of

analysing 10,000 samples and the samples are analysed free of cost. In addition to these, there are five mobile laboratories at Kapurthala, Sangrur, Gurdaspur, Hoshiarpur and Bhatinda. Keeping in view the increased demand of soil test four soil testing laboratories, for Mansa, Barnala, Samrala, Garhshankar and three mobile testing laboratories for Ropar, Moga and Abohar were sanctioned during 1979-80. During 1980-81, it is proposed to establish five stationery and two mobile testing laboratories in the State. The object of another scheme 'Fertilizer demonstration and training on cultivators' fields' is to educate the farmers through demonstration about the proper use of fertilizers. These demonstrations are carried out on cultivators' fields. The cost of N is borne by cultivators and that of P, K and zinc sulphate and weedicide is borne by State Government. It is envisaged to lay 750 demonstration plots of one acre each during 1980-81.

3.21. Another important scheme under this programme is A(P) 7.3 "Subsidy for the off-time storage for timely availability"; for which a provision of Rs. 50 lakhs has been proposed in 1980-81. Fertilizer is applied at specific times. The demand is, therefore, concentrated over short periods. The farmer purchases fertilizer at the time of application. Accordingly, in order to meet the peak season demand, the supplying organisations (The Markfed and Agro-Industries Corporation) have to build up stocks in the off-season which involves extra cost. Provision has been made for 1980-81 for providing subsidy on imported zinc sulphate.

3.22. The consumption of Zinc Sulphate for the last few years along with targets for 1980-81 is as under :—

Table 3. 10: Consumption of Zinc Sulphate

Year	(Tonnes) Consumption
1	2
1975-76	850
1976-77	1000
1977-78	1800
1978-79	5500
1979-80 (estimates)	6500
1980-81 (targets)	10000

3.23. An allocation of Rs. 66.20 lakhs has been earmarked for the programme of Manures and Fertilizers for 1980-81, against the approved outlay of Rs. 63.40 lakhs during the current financial year.

High Yielding Varieties Programme

3.24. Under this programme emphasis is laid on the spread of high-yielding varieties of various crops which are responsive to larger doses of fertilizers and consequently result in increased per unit production. This programme played an important role in raising agriculture production in Punjab, especially of wheat and rice. Under IRDP launched in 1977-78, the technical staff located at the focal

point will provide technical guidance to the farmers at their doorsteps through personal contact with group of farming families at 10-15 days interval. This is expected to lend further support to HYV programme.

3.25. An outlay of Rs. 50.00 lakhs has been provided in 1980-81 for IRDP under this programme.

Plant Protection

3.26. The Plan provides for a variety of plant protection measures including both soil/seed treatment before sowing and prophylactic and curative spraying of crops.

3.27. So far the insecticides/pesticides have been supplied by private trade. There are widespread

complaints of malpractices by traders particularly with regard to sub-standard quality and high price. The Government has decided to enter the market to provide healthy competition to private trade and to regenerate confidence among farmers. The materials are supplied to farmers on 'no profit no loss' basis and the plant protection equipment is supplied on rent. Under the scheme 'Ground Spraying of crops' it is proposed to cover an area of 10 lakh hectares during 1980-81 against the estimated coverage of 8 lakh hectares during 1979-80. It is envisaged to organise campaigns, by providing squads, pesticides and equipment. To this end, provision has been made in the Plan to strengthen the plant protection organisation. Provision has also been made for large scale campaigns to tackle the spread of pests and diseases in an epidemic form.

3.28. When the cotton plants grow to certain size, ground spraying becomes difficult. In this case Government arrange aerial spray of cotton on campaign basis. Loaning facilities are offered to the farmers for this purpose in the form of Taccavi loans which are recovered along with land revenue. Provision has also been made for Pacca airstrips at four suitable places in district Ferozepur.

3.29. The Physical progress in respect of ground and aerial spraying along with the target for 1980-81 is as under:—

Table 3.11 : Ground/Aerial Spraying of Crops

(000 Hects)

Achievement	1977-78 actual	1978-79 actual	1979-80 antici- pated	1980-81 target
1	2	3	4	5
Ground Spray ..	600	1,241	800	1,000
Aerial Spray ..	203	173	150	240

3.30. With the increase in cropping intensity, weeds have become a problem. It is proposed to

undertake measures for the control of weeds and loose-smut with the use of chemicals. Some Herbicides, Tribunil and Dosavex, have been found effective. The provision of Rs. 28.00 lakhs (State share) has been made in the Annual Plan, 1980-81 for subsidizing weedicides. Matching contribution will be made by Government of India. It is proposed to supply the same at 25% subsidy out of which 12½% of subsidy of the actual cost of weedicides will be met by Central Government, for undertaking the spraying on an area of about 80,000 hectares of wheat. Under this programme, one new scheme regarding 'Bee-keeping' has been proposed. It is proposed to establish one bee-keeping development centre at Hoshiarpur with a sub-centre at Gurdaspur with the object to popularise bee-keeping industry with Italian honey bees. A sum of Rs. 2.31 lakhs has been provided for this scheme.

3.31. A sum of Rs. 329.71 lakhs has been provided for the programme of plant protection in the Annual Plan, 1980-81, against the approved outlay of Rs. 477.00 lakhs during the current year.

Commercial Crops

3.32. Punjab's agriculture is predominantly cereal based. In view of the comfortable food-grain reserves, it is envisaged to diversify agriculture and promote commercial crops.

3.33. The programme for the development of sugarcane around sugar factory areas is to assist the sugarcane cultivators in the supply of good quality seed of improved varieties of sugarcane and in the prevention and control of sugarcane diseases and pests. Like previous years the subsidies on the following items will be given for this purpose:—

(i) Subsidy of Re. 1 per quintal to the producer of sugarcane seed and a subsidy of Re. 1 to the purchaser of that seed.

(ii) 25% subsidy on the cost of pesticides.

3.34. Provision of Rs. 15.16 lakhs has been made for the continuance of the Integrated Cotton Development Project Muktsar block of Faridkot district.

3.35. Funds to the extent of Rs. 40.61 lakhs have been provided for the scheme 'Intensive cotton district programme including sub-scheme for production of nucleous seed of cotton'. Under another scheme 'Intensive oilseed development programme' it is envisaged to apply intensive approach to groundnut and rapeseed and mustard in selected high potential areas with a view to increase production of edible oils. A sum of Rs. 5.00 lakhs has been provided as State share for 1980-81 for the scheme 'Intensive pulses development programme' which aims at raising production of pulses in the State by adopting intensive cultivation practice. Funds for all these schemes will be provided on matching basis by the State and Centre.

3.36. Total outlay of Rs. 90.92 lakhs has been earmarked for 1980-81 for this programme of commercial crops as against the approved outlay of Rs. 15.00 lakhs during 1979-80.
Small Farmers and Agricultural Labourers Development Agencies

3.37. The Small/Marginal Farmers and Agricultural Labourers Development Agencies were sponsored by the Centre for improving the economic condition of these categories. Previously eight districts covering 76 blocks were covered under the Centrally-sponsored programme while four districts, Gurdaspur, Bhatinda, Faridkot and Ludhiana were covered under the State Plan. But now the sharing pattern has changed and Government of India has decided to bear the expenditure of these agencies on 50 : 50 sharing basis.

3.38. Subsidy is provided to the extent of 33½% to marginal farmers and 25% to small farmers for various schemes by these agencies including (i) Installation of pumping sets, tubewells and irrigation equipment; (ii) purchase of improved agricultural implements and storage bins; (iii) setting up of demonstration plots; (iv) purchase of buffaloes; (v) setting up of poultry, sheep and piggery units etc. An outlay of Rs. 195.00 lakhs has been provided for this programme in the State Annual Plan 1980-81.

Agricultural Engineering

3.39. Under this programme technical know-how and guidance is provided to farmers to take proper care of their machinery, proper and efficient service to farmers is extended for the

installation of standard design tubewells and selection of suitable tractors and machinery. The rational of the scheme 'establishment of testing, maintenance and standard certification of agricultural machinery' is to test the agricultural machinery, pumping sets, implements and other equipment and help the manufacturers to produce standard machinery and also provide safety devices in the machinery to prevent accidents etc. A sum of Rs 6.00 lakh has been proposed for 1980-81 for this scheme. A sum of Rs. 9 lakhs has been proposed for another scheme 'Intensification of Farm Mechanisation and popularisation of improved agricultural implements' for 1980-81. It aims to introduce the newly evolved farm machinery amongst farmers besides imparting training to farmers regarding selection, operation and maintenance of Agricultural machinery.

3.40. A sum of Rs 26.00 lakhs has been earmarked for 1980-81 for this programme of Agricultural Engineering which is at par with the current, year's allocation.

Warehousing

3.41. A sum of Rs. 30.00 lakhs has been proposed for 1980-81 for the construction of warehouses in Punjab as against an approved outlay of Rs. 41.00 lakhs during 1979-80

Agricultural Marketing and Quality Control.

3.42. Under this programme an outlay of Rs. 50.00 lakh has been provided for one of the major scheme 'Development of Mandis' for the year 1980-81. This scheme has been in the Plan since 1974-75. By the end of 1978-79, the Department of Colonisation had taken in hand the development of 98 Mandis and out of which project pertaining to Saila Khurd Mandi in Hoshiarpur district has been dropped.

3.43. Out of the 97 projects, 40 projects have been completed, 10 are expected to be completed by the end of the current financial year. The development works in the remaining 47 projects as well as 3 projects for which land is being acquired during 1979-80, will be carried out during 1980-81. A sum of about Rs 15.00 lakhs has been earmarked for the development works of these projects during 1980-81.

3.44. The department plans to acquire land for two more mandis during 1980-81. An amount of Rs. 35 lakhs for acquisition of sites for two mandis plus expenditure on court fee stamps and decretal amount has been proposed for 1980-81.

3.45. It is expected that an amount of Rs. 135 lakhs will be recovered from the sale of plots during 1980-81.

3.46. The proposal of merger of the department with the Punjab State Agricultural Marketing Board is under consideration. With this merger, the assets and liabilities of the department will be transferred to the Board.

Agricultural Credit

3.47. The Plan visualises mobilisation of maximum institutional finance for long term investment in agriculture. It has been proposed to finance installation of about 8,000 of tubewells, purchase of 2000 tractors, reclamation of about 1,600 hectares of alkaline/saline lands through long term loans provided by Land Mortgage Bank. The Bank raises the needed finance mostly by floating debentures. The State Government is required to invest in varying percentage of debentures related to the loaning programme for different purposes.

A sum of Rs. 185 lakhs has been provided for this programme for the year 1980-81.

Vegetables

3.48. Under vegetables, the most important programme is that for the production and multiplication of Seed Potato. For supplying quality and disease free potato seed to farmers at a reasonable rate, the Government has set up a chain of seed multiplication farms covering about 200 hectares. Under another scheme, 'Development of vegetables in rural areas' it is proposed to promote vegetable cultivation around tubewells.

3.49. A sum of Rs. 21.00 lakhs has been proposed for this programme for 1980-81 against the approved outlay of Rs. 37.00 lacs for 1979-80.

Employment Programme

3.50. A sum of Rs. 25 lakhs has been proposed for this programme in 1980-81. It is en-

visaged to set up Agro-Service Centre in villages. These centres will provide custom service to the villages at reasonable rates. Engineering graduates are provided with training facilities and seed money assistance to set up these centres.

HORTICULTURE

3.51. A separate Directorate of Horticulture has been established in the State with a view to arresting the general decline in horticulture and quicken the pace of development of fruit industry on sound footings.

3.52. The Punjab State has a vast potential for building up horticulture on commercial lines. The sub-mountane tracts comprising the districts of Ropar, Hoshiarpur, Gurdaspur and parts of Patiala (Dera-Bassi) district are ideally suited for Mango, Litchi, Chiku in particular and other sub-tropical fruits like Lime, Lemon, Sangtra, Guava etc. in general. The Department of Horticulture proposes to cover the entire tracts with superior choice grafted varieties of Mangoes and other sub-tropical fruits. During 1980-81, it is also proposed to give fillip to grape production by ensuring efficient marketing of the produce. Similarly, cultivation of mushrooms, aromatic and medicinal plants will be popularised.

3.53. At present, the estimated area under plantation is 20,000 hectares, which has been static for the last many years. During 1980-81, it is envisaged to bring an additional area of 2,000 hectares under fruit plants. Besides, it is expected to rejuvenate most of the gardens including replantation of the old deteriorated and un-economic orchards. To achieve these objectives, some of the important measures proposed for 1980-81 include 'Development of two Nursery-cum-progeny orchards', besides strengthening the present network; (ii) the purchase of high-power spray equipment for ensuring timely spraying; (iii) efficient marketing of the produce; (iv) approach commercial banks for the grant of loan to the intending growers at Rs 2,500 to Rs 5,000 per acre through ARDC schemes. It has also been proposed to subsidize the rate of interest on loan advances by the commercial banks to bring down the differential rate of interest applicable to industrial loans. As an incentive, it has also been proposed to grant

50 % subsidy on fruit plants to the growers. In order to inculcate the habit of spraying orchards regularly, 50% subsidy on insecticides/pesticides will be provided for which an allocation of Rs 2 lakhs has been made in the Annual Plan, 1980-81.

3.54. A Fruit Preservation Laboratory is functioning in the State at Patiala and the other is being set up at Hoshiarpur during the current year. Similar Preservation Laboratory will also be established in Faridkot District during the year 1980-81. In addition to this, 5 Community Canning Centres will also be established at Jullundur, Ludhiana, Amritsar, Gurdaspur and Bhatinda.

3.55. A sum of Rs. 100.00 lakhs has been proposed for the Department of Horticulture for 1980-81 as against the approved outlay of Rs. 98.00 lakhs for 1979-80.

FOOD

3.56. Under this sub-head there are only two schemes, namely, 'Acquisition of land for open Storage/complexes' and 'Construction of godowns' for which a sum of Rs. 2.00 lakhs and Rs 3.00 lakhs, respectively, stands provided for the current financial year.

3.57. For the year 1980-81 the funds are being provided for the completion of a godown of 4,000 tonnes capacity at Dhuri which is under construction. This godown could not make any headway during the last several years due to some dispute between the PWD and the contractor which is now reported to have been settled. The construction work is in progress. There is no scheme/programme for the construction of new godowns by the department of Food and Supplies. As such a provision of Rs. 5.00 lacs in 1980-81 is for the completion of godown at Dhuri.

SOIL CONSERVATION

3.58. There is a very limited scope for further increase in cultivated area in Punjab State as 82.8% of the total geographical area is already under plough. Large areas in the State are undulated and are affected by sheet erosion and there is much wastage of water by way of seepage, etc. Soil and water conservation measures are, therefore, necessary to conserve soil and water resources to obtain optimum return.

3.59. An outlay of Rs. 340.00 lakhs has been provided in the Annual Plan, 1979-80, for covering an area of 127,000 hectares. To accelerate the work of lining of canal water courses, this work has been transferred to the Punjab State Tubewell Corporation. The Soil Conservation and Engineering Department shall, however, be completing the incomplete works already in hand over 670 Kms. against the original target of covering 2,600 Kms. An outlay of Rs. 340.00 lakhs has been provided in the Annual Plan 1980-81, for carrying out Soil Conservation and Water Management works over an area of 21700 hectares. Out of the total outlay of Rs. 340.00 lakhs, a sum of Rs. 20.00 lakhs has been earmarked for the Forest Department for carrying out afforestation work in sub-montane region of the State over an area of 700 hectares. The Soil Conservation Department also proposes to raise institutional finance of Rs. 246.00 lakhs during 1980-81 for carrying out various soil and water conservation works. Various programmes/schemes to be implemented under the sub-head during 1980-81 are discussed below:

Soil Survey and Testing

3.60. In order to assess the magnitude of the problem of Soil Conservation and to calculate the remedial measures needed, detailed soil survey of command, problem and other areas of the State is necessary. In fact, Soil surveys are crucial to adjust the proper and optimum use of land capability for scientific development of Agriculture, formulation of cropping pattern, proper soil and water management, land development, land reclamation and other management practices. An outlay of Rs. 5.00 lakhs has been provided for survey of 150,000 hectares in problem and command areas. The scheme SC (A)2.2 'Strengthening of State Soil Survey Organisation' was previously being funded by the State Government and Government of India on matching basis. But in accordance with the revised pattern of financing of centrally sponsored schemes, this scheme has been transferred to the State Sector for implementation. A sum of Rs. 7.00 lakhs has been provided for the implementation of this scheme in 1980-81 against anticipated expenditure of Rs. 6.85 lakhs during 1979-80 for surveying an area of 150,000 hectares. Thus it is envisaged that 3.00 lakh hectares of area will be surveyed during 1980-81.

Education, Research and Training

3.61. The works under soil and water conservation programme are of highly specialised nature and the cultivators are not expected to carry out these measures themselves. The Department of Soil Conservation and Engineering has, therefore, undertaken to execute the work on behalf of the cultivators. The field staff engaged on these works is required to have full knowledge of the techniques of these works. In order to equip them with the latest soil conservation techniques, inservice training of the field staff deployed for executing these works is essential. The operational research regarding utility of new irrigation and land levelling techniques is also included under this programme. The conservation irrigation techniques like drip irrigation, sprinkler irrigation, furrow border and lining irrigation, use of canvass, check dams and syphon tubes also need to be propagated extensively. The Plan envisages 150 demonstrations of these techniques during 1980-81 for which an outlay of Rs. 6.00 lakhs is being provided. The Soil Conservation Training Institute imparts requisite training to surveyors/agricultural sub-inspectors. Refresher courses for agricultural inspectors and other categories of staff are also held in this Institute. Expenditure incurred for providing training to officers and agricultural inspectors at Government of India Training Institute is also met out of this scheme. It is proposed to train 5 gazetted officers and 20 Agricultural Inspectors at the Government of India Training Institute during 1980-81. Training will also be imparted to 100 Agricultural sub-Inspectors/Surveyors at the State Training Institute. An outlay of Rs. 4.00 lakhs has been provided for this purpose under the scheme SC(A) 3.1 'Training, research and demonstration' in the Annual Plan 1980-81.

3.62. The scheme SC(A)3.3 'Applied research on soil conservation practices and methods' envisages to conduct operational research on various soil conservation measures suitable under different set of conditions. It is proposed to lay 15 research trials under this scheme during 1980-81 with an outlay of Rs. 4.00 lakhs provided in the annual Plan.

Soil Conservation Programme

3.63. The Punjab State has been divided into the following five regions for Soil and Water Conservation Programme. The Soil conservation measures will be undertaken in these regions as per detail below :—

	<i>1980-81 Target (Hects.)</i>
(i) Sub-montane region ..	10,400
(ii) Border areas ..	1,500
(iii) Bet areas ..	800
(iv) Central Plains ..	8,000
(v) South-West Canal Command areas ..	1,000
Total ..	21,700

Soil and Water Conservation in Sub-montane/Kandi areas :

3.64. The scheme 'Soil and Water conservation on watershed basis' is being implemented in the submontane region of the State. In this region, an area of about 1.96 lakh hectares is under cultivation, out of which only 0.90 lakh hectares are irrigated. In this region about 53,000 hectares are culturable waste land and 26,000 hectares are Cho damaged lands. It has been estimated that about 110,000 hectares in the Kandi tract require land levelling and bench terracing and about 15,000 hectares require gully reclamation measures. Water management works are needed over an area of 90,000 hectares.

3.65. Upto the end of 1978-79, land levelling and bench terracing work has been carried out in 8,000 hectares. 6,000 hectares have been covered under gully reclamation and cho training and about 17,000 hectares under water management works. During 1979-80, it is envisaged to cover 8,500 hectares under bench terracing, land levelling, gully reclamation and water management works. Bench terracing over an area of 3,000 hectares, land levelling over 2,220 hectares, gully reclamation in 600 hectares and laying of underground pipe lines in 3,180 hectares is proposed to be carried out in the sub-montane

region of the State under this scheme during 1980-81. The State provides subsidy at the rate of 25 per cent on land levelling and water management works, 50 per cent on other Soil Conservation works such as contour bunding, bench terracing and gully reclamation and 100% on community common works like check dams. The scheme envisages to cover 9,000 hectares with an outlay of Rs. 145.00 lakhs provided in the Annual Plan and Rs. 50.00 lakhs to be raised as institutional finance during 1980-81.

3.66. The scheme SC(A) 4.2 'Pilot Project for development of kandi areas with World Bank assistance' is also being implemented in this region. An outlay of Rs 42.00 lakhs has been provided under this scheme and it is proposed to execute Soil and Water Conservation works over an area of 1,400 hectares.

Soil and Water Management in border/bet areas :

3.67. The western part of the districts of Gurdaspur, Amritsar and Ferozpur falling within 10 miles distance from the international border is comparatively under-developed. The development of these areas has been given priority and it is envisaged to carry on soil conservation works like land levelling, reclamation of alkali/saline soils and water management works on subsidized basis. The works are implemented at State cost. Subsidy at the rate of 50% is being allowed to the farmers, on land levelling and reclamation of alkali/saline soils. The balance amount is treated as loan recoverable from the beneficiaries. It is proposed to carry on soil conservation measures over 1,500 hectares in the border area of the State. An outlay of Rs. 24.00 lakhs has been provided in the Annual Plan, 1980-81, for this purpose.

3.68. A sum of Rs. 4.00 lakhs has been provided under the scheme 'Development of Bet Area'. Institutional finance to the tune of Rs. 16.00 lakhs is also proposed to be utilized for tackling the problems of bet areas of 800 hectares during 1980-81. An amount of Rs. 5.00 lakhs has been provided for reclamation and checking the extension of existing ravines along the river banks over an area of 200 hectares. Institutional finance amounting to Rs. 20.00 lakhs is also proposed to be utilized for this purpose.

Soil and Water Conservation in canal commands :

3.69. The scheme SC(A) 4.9 'Soil and Water Conservation in the catchment of River Valley Projects'

was initiated as entirely centrally sponsored scheme to be implemented during 1979-80. But now in accordance with the latest financing pattern of Centrally sponsored Schemes, 50% of the funds are to be provided by the State and the remaining 50% will be available from the Government of India. During 1980-81, it is proposed to cover 800 hectares under this scheme in the catchment of Ghaggar river. An outlay of Rs. 11.00 lakhs has been earmarked as State share in the Annual Plan, 1980-81. An equal amount will be provided by the Government of India for this scheme.

3.70. The programme of lining of canal water courses was being implemented under the scheme SC(A) 4.4 'Land development work in command areas'. This work has been transferred to the Punjab State Tubewell Corporation from the current year. A sum of Rs 20.00 lakhs has been provided under this scheme for carrying on other soil conservation works during 1980-81.

Soil Conservation work in Central districts :

3.71. Development of soil and water resources in the villages selected under IRD is of vital importance for raising productive capacity. The scheme 'Soil Conservation in Central districts on IRD pattern' is a staff scheme so far as allocation of funds in the plan is concerned. The department proposes to carry out works of land levelling and laying of underground pipelines over an area of 8,000 hectares in central districts of the State under Integrated Rural Development Programme by availing institutional finance to the extent of Rs. 160.00 lakhs. An allocation of Rs. 42.00 lakhs is being provided for the staff component for implementing this scheme in an intensive manner.

Forest Department Soil Conservation :

3.72. An important project of 'Kandi water shed area Development' has been taken up in the current year with assistance from World Bank. Kandi tract of Punjab falling in Gurdaspur, Hoshiarpur and Ropar districts is backward areas. The main problem is in the upper catchment areas of Shivalik Hills which are devoid of vegetation. This has resulted in severe erosion. Flash floods occur during rainy season and carry away a lot of debris which is spread in the fertile fields. Due to change in the course of floods, huge devastation is caused to productive agricultural land. It is in this context that the project has been proposed for the integrated development of land and water resources in the five

catchments up to their outfalls. It is proposed to cover catchments of Dholbaha, Janauri, Chabal, Maili and Patiala Rao. For the implementation of the forest part of this project, provision has been made under the programme of "Soil and Water Conservation on Watershed basis" where

an outlay of Rs. 20.00 lakhs has been provided for raising plantation on 700 hectares of area in the Annual Plan, 1980-81.

3.73. The major physical targets/achievements of Soil Conservation Department are given below:—

Item	Unit	Actuals 1977-78	1978-79 achievement	1979-80		1980-81 Targets
				Targets	Likely achieve- ment	
1	2	3	4	5	6	7
A. Soil Conservation and Water Management—						
(i) Land levelling	.. Hectares	3,245	2,528	10,000	6,000	7,700
(ii) Bench terracing	.. Do	1,334	2,104	2,000	2,500	3,800
(iii) Contour bunding & gully reclamation	.. Do	176	372	1,000	500	1,200
(iv) Laying of underground pipelines	.. Do	8,109	4,269	10,000	9,000	9,000
(v) Lining of watercourses	.. Do	59,813	35,000	1,04,000	20,000	—
Total	..	72,677	44,273	1,27,000	38,000	21,700
B. (i) Laying of underground pipelines						
(i) Laying of underground pipelines	.. Kms.	373	180	410	400	400
(ii) Lining of canal water courses	Do	1,213	810	2,600	670	—

CHAPTER IV

Agriculture and Rural Development (II)

Agriculture and Rural Development form an important sector of the State's economy, as over 56 per cent of the total State income (G.D.P.) is contributed by this Sector. Within the Agriculture and Allied Sectors, it is the general field crops that account for a major portion of the farm economy. The contribution from allied activities is comparatively small. In view of the limited scope of addition to net area sown in the State, increased stress is being laid on the diversification of agriculture and on bringing profitability from other allied activities like animal husbandry, dairying, fisheries, forestry, etc. Besides, in order to reduce rural-urban disparity, enlarged provision is being earmarked for Community Development and Panchayat works and new programme of matching grant has been launched in the State to encourage peoples' participation. Development programmes in these fields are discussed below :—

ANIMAL HUSBANDRY

4.2 Livestock occupies a pivotal position in the life of the people especially in rural areas of the State. They are still the main source of drought power in agricultural operations and transportation. They provide essential food of animal origin like milk, meat and eggs. For many years to come, live-stock is likely to continue to be the main-stay of agricultural operations, particularly of small and marginal farmers in the State. The growing pressure of human population on land has resulted in reduction in the size of holdings. The cost of production of crops is continuously on the increase causing reduction in the net income especially of small/marginal farmers. Thus, stress is being laid for diversification of agriculture through adoption of mixed farming where live-stock development plays an important role. Live-stock production through the weaker sections of farmers in the rural areas could also be relied upon as a major

instrument of social change for supplementing the income and providing a large scope for self-employment of these sections of people in the rural areas.

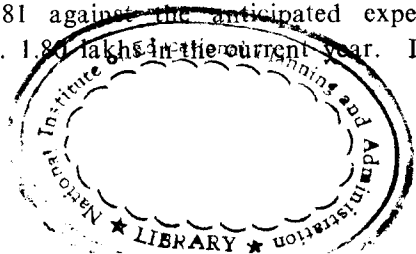
4.3 An outlay of Rs. 250.00 lakhs has been provided in the Annual Plan 1980-81 under the sub-head of development of "Animal Husbandry" against the anticipated expenditure of Rs. 260.00 lakhs during the current year. The actual expenditure incurred under this sub-head for the period 1974—79, anticipated expenditure for 1979-80 and outlay for 1980-81 are given as under :—

Years	(Rs. in lakhs)
1974-75	73.15
1975-76	106.48
1976-77	129.88
1977-78	183.83
1978-79	243.61
1979-80 (Anticipated)	260.00
1980-81 (Outlay)	250.00

4.4 During 1980-81, stress has been laid on the breed improvement, health cover and feed and fodder programmes for the accelerated development of cattle, poultry, piggery, sheep and wool. Various programmes/schemes under this sub-head proposed to be implemented in the Annual Plan 1980-81 are discussed below :—

Direction and Administration

4.5 An outlay of Rs. 3.00 lakhs has been provided under this programme in the Annual Plan 1980-81 against the anticipated expenditure of Rs. 1.80 lakhs in the current year. Dur-



ing 1980-81, a provision of Rs. 0.80 lakh has been made for the continuation of planning cell strengthened during 1979-80 and for the preparation of evaluation reports of progress achieved. A sum of Rs. 0.50 lakh has been provided for the creation of Publicity and Monitoring Cell for the dissemination of modern techniques regarding massive cross-breeding and fodder development programme. Besides, an outlay of Rs. 1.70 lakhs has been provided for the continuation/strengthening of the staff at headquarters and at the sub-offices and the districts.

Veterinary Services and Animal Health

4.6 The programme aims at providing an effective health cover for the improvement and preservation of cattle wealth by setting up veterinary-cum-artificial insemination centres. At the end of 1978-79, there were 910 veterinary institutions in the State, out of which 550 were manned by qualified veterinarians. In 1979-80, 105 more veterinary hospitals-cum-artificial insemination centres are likely to be set up under Integrated Rural Development Programme at focal points. During 1980-81, 105 more veterinary hospitals-cum-artificial insemination centres will be established under I.R.D.P. at the focal points. It is envisaged to have 10 per cent increase in production of existing vaccines and production of

10,000 doses of Flury Vaccine and 10 lakh doses of Tissue Culture Vaccine at the State Biological Institute will be fully achieved during 1980-81. State Veterinary Medical Store, Jullundur will be expanded by taking up the production of Sheep-pox Vaccine and antigens like Brucella and Salmonella. Increased production of existing vaccines is also envisaged.

4.7 For the control of Foot and Mouth Diseases, prophylactic vaccinations of cross-bred animals will continue. This is a centrally sponsored scheme and funds for this scheme will be provided by the State and Central Government on matching basis. Vaccine worth Rs. 6.00 lakhs will be purchased during 1980-81 under this scheme. An amount of Rs. 1.50 lakhs has been provided in the State Annual Plan 1980-81 for this purpose. Matching contribution of Rs. 1.50 lakhs will be received from Government of India and the balance of Rs. 3.00 lakhs will be charged for vaccinations from the cattle owners. Thus, subsidy to the extent of 50 per cent will be provided under this scheme for vaccinations of cross-bred animals. This scheme will be extended to the entire State covering most of the small/marginal farmers.

4.8 Main achievements/targets under this programme are given in the table below :—

TABLE 4.1—Physical Achievements and Targets regarding Veterinary Institutions

Item	Unit	1973-74 Actuals	1974-75 Actuals	1975-76 Actuals	1976-77 Actuals	1977-78 Actuals	1978-79 Actuals	1979-80 likely Achieve- ment	1980-81 Targets
1	2	3	4	5	6	7	8	9	10
Veterinary Hospitals	No.	276	291	321	346	346	348	348	348
Veterinary Dispensaries	No.	259	277	285	292	362	360	360	360
Veterinary Hospitals-cum- Artificial Insemination Centres under IRDP	No.	—	—	—	—	89	202	307	412
Mobile Veterinary Dispensaries	No.	6	27	27	33	33	—	—	—
Total Veterinary Institutions		541	595	633	671	830	910	1015	1120
Livestock population	In lakhs	91.15	93.42	95.76	98.15	100.61	103.12	105.71	108.35
Heads of Livestock served per Veterinary Institution	In 000	16.85	15.70	15.12	14.63	12.12	11.33	10.41	9.67

Veterinary Education and Research

4.9 A grant-in-aid of Rs 50.00 lakhs has been provided for the implementation of various veterinary research, education and extension schemes to be implemented by Punjab Agricultural University, Ludhiana in the Annual Plan 1980-81. To meet the shortage of veterinarians, double shift has been introduced at the College of Veterinary Science raising the admission from 80 seats to 140 seats. The course for Stock Assistants/Veterinary Compounders is being revived to meet the shortage of these categories of personnel. Internship is also being introduced by the Punjab Agricultural University for B.V.Sc. and A.H. Degree courses.

Cattle Development

4.10 The main thrust of the cattle development programme is on increased production of milk. The total milk production in 1978-79 was estimated at 2,911 thousand tonnes. The buffaloes number about 2,348 thousand as against 788 thousand milch cows according to the survey of livestock conducted during 1976-77. Buffalo also gives a higher average daily milk yield of 4.31 litres as against 2.45 litres in the case of the cow. In the Annual Plan, while cattle development covers both cow and buffalo development, the accent is on the latter. During 1980-81, it has been contemplated to set up a

Bull Station-cum-Frozen Semen Laboratory at Kapurthala with a Liquid Nitrogen Plant of 25—30 litres per hour capacity and another plant of 5 litres capacity at Ropar. Under the programme for small and marginal farmers and agricultural labourers, subsidy will be given in the form of concentrates for 7,000 cross-bred calves, 1,000 poultry units, 200 piggery units and 200 sheep units. 24 Farm Houses at the Dairy Farm, Kule Majra will be constructed. For the improvement of buffaloes, selective breeding and progeny testing programme in the field conditions will continue. 21 buffalo Bulls and 20 cross-bred bulls will be treated under this programme. About 100 male calves will be purchased for rearing at Bull Rearing Farm, Mattewara during 1980-81.

4.11 The term of the Indo-Swiss Project expired on 31st March, 1979. Considering the experience and results already achieved, it is proposed to extend this project with modified terms and conditions. It has been found that the Indo-Swiss breed has not become very popular with the farmers. Thus, it is envisaged to switch over to Holstein Friesian breed. Negotiations regarding agreement between Government of India and Swiss Government are going on regarding the changes in terms and conditions.

4.12 Achievements under this project are as under:—

TABLE 4.2—Achievements of Indo-Swiss Project

Item	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80 Anticipated	1980-81 Proposed
1	2	3	4	5	6	7	8	9
Number of Units	77	144	164	165	180	200	200	200
Number of Inseminations	12,984	25,649	39,664	45,355	50,877	58,971	60,000	65,000
Number of calves born	2,359	5,609	10,328	14,069	15,995	17,670	18,000	20,000
Number of Inseminations per unit	168.6	178.1	241.9	274.9	282.7	294.8	300.0	325.0
Number of calves born per unit	53.3	72.8	71.7	85.3	88.0	88.9	90.0	100.0

4.13 During 1980-81, Feed and Fodder development programme through demonstration, production, multiplication and distribution of fodder seeds will continue. About 25,000 farmers will receive training in feeding, breeding, management practices of exotic/cross-bred ani-

mals. Two cattle catching parties will function to control the problem of wild and stray cattle.

4.14 Achievements and targets regarding milk, eggs, wool production, etc. under this programme of cattle development are given below :—

TABLE 4.3—Stock of Milch Cattle and Milk Production, by type of cattle

Item	Unit	1973-74 Actuals	Fifth Plan Targets	Actuals					1979-80 Likely Achievements	1980-81 Targets
				1974-75	1975-76	1976-77	1977-78	1978-79		
1	2	3	4	5	6	7	8	9	10	11
Milk	000 Tonnes	2,100	3,050	2,250	2,400	2,550	2,729	2,911	3,059	3,236
Eggs	Million	321	495	350	380	410	419	444	474	514
Wool	Lakh Kgs.	10.00	14.00	10.80	11.60	12.40	10.35	11.25	12.20	13.13
Number of Inseminations performed with exotic bull semen	In lakhs	1.23	16.00	1.60	1.98	2.24	2.64	3.25	4.00	5.00

4.15 An outlay of Rs. 45.16 lakhs has been provided in the Annual Plan 1980-81 for cattle development against the anticipated expenditure of Rs. 57.49 lakhs during 1979-80.

Poultry Development

4.16 Commercial poultry farming has made a considerable headway in the last decade. In 1977, there were about 2.6 million layers and 2.1 million chicks in 3,907 private poultry farms. 656 farms had more than 1,000 layers. Egg production in the State was estimated at 444 million in 1978-79, which is likely to go up to 474 million in 1979-80. A sum of Rs. 9.00 lakhs has been placed at the disposal of the Punjab Poultry Corporation during 1979-80 for setting up an Egg Tray Project, expansion of feed compounding activities and for the collection and marketing of eggs.

4.17 An outlay of Rs. 9.40 lakhs has been provided in the Annual Plan 1980-81 for poultry development in the State against the anticipated expenditure of Rs. 12.00 lakhs during 1979-80. It is proposed to

maintain additional 4000 layers at the Poultry farms, Gurdaspur, Jullundur, Patiala and Malerkotla. The existing hatching capacity of each farm varies from 20,000 to 30,000. It is proposed to purchase incubators of 17,280 and 30,000 eggs capacity thereby raising the hatching capacity to 50,000 at each farm during 1980-81.

Sheep and Wool Development

4.18 Sheep population was estimated at 565 thousand in 1976-77 by the Animal Husbandry Department. The average wool yield of a ram was 3.23 kg ; of an ewe 1.86 kg ; and of a lamb 1.96 kg. Total wool production was 1,125 thousand kg. in 1978-79 which is likely to go upto 1220 thousand kg. in 1979-80.

4.19 An outlay of Rs. 2.50 lakhs is being provided for 1980-81 against the anticipated expenditure of Rs. 1.14 lakhs during 1979-80. 9 existing Sheep and Wool Extension Centres will be selected for production of cross-bred rams. At each selected centre, 7 corriedale rams and other facilities will be provided. Cross-bred rams produced at these

centres will be supplied to sheep breeders for setting up sheep units by Small/ Marginal Farmers and Agricultural Labourers.

4-20 To provide effective disease control and health cover by conducting mass vaccination against contagious diseases, regular drenching against internal parasites and spraying/dipping of external parasites of sheep will be undertaken. Anthelmintics, insecticides, general medicines and vaccines worth Rs. 2.00 lakhs will be supplied to farmers during 1980-81.

Piggery Development

4-21 Pig population has been estimated at 85,000 in 1976-77. At present, there are six Government Pig Breeding Farms in the State. In the Annual Plan 1980-81, an outlay of Rs. 7.27 lakhs has been provided for piggery development in the State against the anticipated expenditure of Rs. 4.94 lakhs during 1979-80. It is envisaged to complete the construction work of Farrowing/Weaners pens at Government Pig Breeding Farms, Nabha and Kharar during 1980-81. These farms will be expanded and additional animals will be provided to raise the strength of breeding sows to 150. Pig Breeding Farm at Mattewara will be established and staff and animals will be provided at the farm during 1980-81. To meet the demand for the Pork Processing Plant, Kharar, it is envisaged to establish a Fattening Unit at Government Pig Breeding Farm, Kharar where 100-150 pigs will be fattened every month.

Other Livestock Development

4-22 Kandi Watershed and Area Development Project has been formulated with World Bank assistance for the integrated development of land and water resources in five catchments upto their out-falls. A provision of Rs. 5.00 lakhs has been made in the Annual Plan 1980-81 for the Animal Husbandry development programme in the project area. Under this programme, interested breeders will be supplied cross-bred heifers/cows. Besides, exotic cow bulls, cross-bred sheep, exotic rams will be made available. Poultry and piggery units will also be set up. A provision of Rs. 5.00 lakhs has been made for the polytechnic for imparting training to para-veterinary staff and vocational training to farmers.

Integrated Rural Development Programme

4-23 Under this programme, an outlay of Rs. 90.00 lakhs has been provided to set up 105 new Veterinary Hospital-cum-Artificial Insemination Centres, besides the maintenance of 307 such institutions likely to be set up at the focal point complexes by end of the current financial year. During 1980-81, 1180 Composite Fodder Demonstration Plots and 5,900 Simple Demonstration Plots will be laid out. 118 silo-pits will be constructed. 11,800 farmers will be supplied improved fodder seed for production of fodder. 5,850 farmers will be trained in one day camp in rearing, feeding, breeding and management practices of cross-bred animals.

Feed and Fodder

4-24 To ensure adequate fodder perennially, it is proposed to reclaim an additional area of 25 acres at the existing farms of Mattewara and Nabha. This will produce about 150 quintals of quality fodder seed for distribution among farmers. For this, an outlay of Rs. 14.27 lakhs has been provided in the Annual Plan 1980-81. Additional machinery, irrigation facilities and inputs will be provided. Feed and Fodder Cell for the formulation and implementation of fodder development programme will be strengthened for which a sum of Rs. 0.50 lakh has been provided in the Annual Plan 1980-81. For the implementation of the programme of production and popularization of fodder varieties, 900 quintals of cow peas, 550 quintals of Barseem and 150 quintals of Jowar will be purchased from the registered growers and supplied to farmers for raising superior quality of fodder. 285 hectares will be covered for the production of fodder seed. 59 hectares will be covered for the construction of silo-pits and 750 hectares for demonstration plots in the State during 1980-81.

DAIRYING AND MILK SUPPLY

4-25 Dairy Development Programmes launched in the State aim at meeting the nutritional needs of the population in the rural areas and at the same time yielding surplus milk for marketing in towns. This programme will also provide the milk producers, landless, small/marginal farmers and agricultural labourers with a remunerative supplementary activity, thus, promoting diversification of agriculture. Commercial dairy farming on scientific

lines would also provide the educated un-employed with new avenue of gainful self-employment.

4.26 A table indicating the number of milch cattle and milk production by the type of cattle in the State is given below:—

	Unit	1973-74	1977-78
	1	2	3
1. Milch cattle	(000 No.)	2,884	3,136
(i) buffaloes	„	1,979	2,348
(ii) cows	„	905	788
2. Milk Production	(000' tonnes)	2,100	2,729
(i) buffaloes	„	1,700	2,200
(ii) cows	„	400	529
3. Per capita availability of milk per day	gms.	404	492

4.27 An outlay of Rs. 70.00 lakhs has been earmarked in the Annual Plan, 1980-81 for the implementation of various schemes under the sub-head, "Dairying and Milk Supply" against an allocation of Rs. 98.00 lakhs for the current year. The reduction in the allocation is mainly due to the reason that National Dairy Development Project Operation Flood-II is being taken up in the State to develop self-sustaining and self-supporting dairy industry with financial assistance from Indian Dairy Corporation/National Dairy Development Board. The Corporation is likely to provide about Rs. 25.00 crores in about 7 years. In the State plan schemes, the main thrust of the department would be to organize intensive dairy training programmes so as to provide essential know-how in dairying to farmers and un-employed youngmen/women so as to enable them to establish mini dairy farms for improving the socio-economic conditions of the people belonging to weaker sections of the society. Work relating to the construction of building and installation of machinery undertaken on 12 milk chilling-cum-demonstration centres in border, sub-montane, bet

and backward areas of the State will be stepped up during 1980-81. Various programmes/schemes to be implemented during 1980-81 are discussed below:—

Dairy Development

4.28 A sum of Rs. 24.00 lakhs is being provided in the Annual Plan, 1980-81 under the programme of dairy development for increasing milk production and maintenance of animal health, against the allocation of Rs. 53.00 lakhs during 1979-80. The decrease in outlay for 1980-81 under this programme as compared to that for the current year is mainly due to the fact that Operation Flood-II is being undertaken in the Co-operative Sector with funds from Indian Dairy Corporation/National Dairy Development Board.

4.29 A sum of Rs. 12.50 lakhs has been allocated for the continuation of two dairy extension/training units provided during 1979-80 for imparting technical know-how to the farmers in the scientific technique of feeding, breeding and better managerial practices.

4.30 An amount of Rs. 10.00 lakhs is being provided for the Special Self-employment Scheme under this programme to impart intensive dairy training to educated young men/women belonging to weaker sections of society of rural areas for introduction of scientific/commercialised milk production. Under this scheme, it is envisaged to impart 21 days training to 720 candidates during 1980-81. Stipend @ Rs. 100 p.m. will be paid to each trainee. After the completion of training, the trainee will be assisted to get loans @ Rs. 15,000 from various financial institutions for the purchase of upto 5 milch animals. Besides, the following subsidies are also proposed to be provided to the trainees:—

- (i) Interest subsidy @ 5% on loan per annum for the purchase of animals for three years.
- (ii) 2/3 insurance premium per animal for 12 months provided 1/3 is paid by the beneficiary.
- (iii) Subsidy @ Rs. 240 per animal for the purchase of cattle feed.

4.31 An allocation of Rs. 2.00 lakhs has been made for the Punjab Dairy Development Corporation during 1980-81 for replacement, addition and renovation of machinery at the existing Milk Plants and to meet other essential obligations for the development of dairy industry.

Milk Supply Schemes

4.32 An outlay of Rs. 34.00 lakhs has been provided during 1980-81 for the establishment/completion of milk chilling-cum-demonstration centres in border, sub-montane, bet and backward areas of the State. Each chilling centre will have a daily handling capacity of 5,000 litres expandable to 10,000 litres. The chilling-cum-demonstration centres will provide ready remunerative and all the year round market to milk producers of the area and help in producing milk on commercialized lines. This will go a long way in rehabilitating the economically weaker sections of the society. Work relating to the construction of building and installation of machinery is in progress on the chilling-cum-demonstration centres at Lopoke (Amritsar), Narot Jaimal Singh (Gurdaspur), Ghallu (Ferozpur), Gho (Gurdaspur), Jhingri (Ropar), Chokran (Jullundur), Lassara (Jullundur), Swedi (Ludhiana), Changaliwala (Sangrur), Sardulgarh (Bhatinda), Andana (Sangrur) and Ghughial (Hoshiarpur). Three of these Milk chilling-cum-demonstration centres will be commissioned during 1980-81.

Other Programmes

4.33 An outlay of Rs. 5.00 lakhs is being provided in the Annual Plan, 1980-81 for giving various incentives to milk producers under the Integrated Rural Development Programme. Under this scheme, it is envisaged to cover 5 villages in each of the selected blocks. Further 5 families in each village will be identified for providing following subsidies:—

(i) Subsidy for the construction of Model Cattle sheds for five animals @ Rs. 1,000 per animal (Rs. 3,000 to be borne by the beneficiary)

(ii) Subsidy for the purchase of cattle feed @ Rs. 200 for 5 animals.

4.34 A sum of Rs. 5.00 lakhs has been provided for the supply of subsidized milk to the weaker sections of the society in the periphery of Ludhiana city. This is in accordance with the terms of

agreement executed with UNICEF that the Punjab Government will arrange to supply milk worth Rs. 50 lakhs equal to $1\frac{1}{2}$ times the landed value of machinery and equipment donated by UNICEF in a period of 10 years. Subsidised milk will be supplied to the scheduled castes, backward classes and other weaker sections of the society in the ratio of 2 : 1 : 2 respectively.

4.35 A sum of Rs. 1.00 lakh has been provided for strengthening the headquarters and field staff to enable the department to streamline its activities. An amount of Rs. 0.50 lakh has been provided for the training of technical personnel required to meet their growing requirements for milk plants and milk chilling centres. During 1980-81, 8 candidates will be sponsored for I.D.D. course and 4 for B.Sc. course. The I.D.D. trainees will be paid stipend @ Rs. 150 p.m. and B.Sc. courses trainee will be given stipend @ Rs. 200 p.m.

FISHERIES

4.36 According to the survey conducted by Fisheries Department, Punjab has considerable resources for fresh water fish culture. The length of the rivers is 1,830 km. and that of canals and distributaries 13,445 km. The village ponds and tanks suitable for fish culture have a total area of 3,100 hectares. In addition, there are 1,200 hectares of backwater areas and 4,400 hectares of continuous strips of depressions along canals. The total impounded area available for fish culture adds upto 8,700 hectares. A large number of tubewells and pumping sets make it possible to practise fish culture in dug ponds. Thus Punjab has a good scope for supplementing agriculture by aquaculture. To reduce the gap between the availability and requirements of high quality proteins, subsidiary food at reasonable prices, attention will be paid to augment fish production in the State during 1980-81.

4.37 Out of 118 blocks in the State, fish culture programme has been introduced so far in 72 blocks covering an area of 500 hectares. In addition to this, with the introduction of fish culture schemes of fish farmers development agencies at Gurdaspur, Jullundur, Amritsar and Ludhiana, additional 800 hectares of water area will be brought under fish culture. Thus the total requirements of fingerlings for continuing fish culture activities in 1,300 hectares of water area will be to the extent of 65 lakh fingerlings annually if stocked @ 5000 fingerlings per

hectare. The production capacity of existing fish seed farms and eleven fish seed nurseries which are still under construction will be to the extent of 60 lakh fingerlings annually. Therefore to cover the 1,300 hectares of water areas and to bring 1,800 hectares under intensive fish culture, the requirements of fingerlings will be of the extent of 1.44 crores annually.

4.38 Annual Plan 1980-81 makes a provision of Rs. 30.00 lakhs for the promotion of fisheries in the State against the anticipated expenditure of the same amount during the current financial year. Various programmes/schemes to be implemented during 1980-81 are briefly discussed below :—

Direction and Administration

4.39 An outlay of Rs. 1.00 lakh has been provided in the Annual Plan 1980-81 for strengthening the staff at headquarters and in sub-offices with a view to streamline the activities of the Department and to enable the department to achieve the target of fish production. The additional staff will also look after the work of formulation of plan schemes and evaluation of the progress of the department.

Fish Farms

4.40 An outlay of Rs. 14.50 lakhs has been provided during 1980-81, under this programme. The department envisages the completion of the construction work on the on-going fish seed farms and fish seed nurseries and establishment of one Fish Seed Farm in District Hoshiarpur with World Bank assistance under Kandi Water Shed and Area Development Project. For this, an amount of Rs. 13.50 lakhs has been provided during 1980-81. Establishment of one fish seed farm in the vicinity of Shah Nahar Reservoir has also been proposed during 1980-81. A site for this has been selected and construction work is being taken up during 1979-80. For the continuation of this scheme, a provision of Rs. 1.00 lakh has been earmarked in 1980-81. On completion of this farm, it will yield 500 thousand fingerlings per year for stocking this reservoir.

Research, Education and Training

4.41 Under this programme, it is envisaged to disseminate technical know-how of fish farming by way of publicity, exhibition of film shows, etc. To handle the fisheries projects, officers/officials are

sent for training at Bombay, Barrackpur and Agra for institutional training. Besides this, 40 candidates will be trained at Training Centre, Nangal. It is also envisaged to set up small dry bundhs in the sub-montane area of District Hoshiarpur. These are likely to produce 25,000 fingerlings during 1980-81. 50 cages will be installed in Ropar Reservoir where fingerlings will be stocked. About 20 metric tonnes of fish valued at Rs. 10.00 lakhs per year will be produced. For this programme, an outlay of Rs. 5.00 lakhs has been provided in the Annual Plan 1980-81.

4.42 Under the ambitious programme of I.R.D.P., fish farming will be introduced in the rural areas of the State so as to utilize the existing water areas and by creating new water areas to the extent of 600 hectares for fish farming in order to improve the rural economy. This will provide self-employment opportunities to the under employed/unemployed people living in rural areas. Subsidy for the renovation of 40 hectares @ Rs. 2,500 per hectare, for the excavation of 20 hectares @ Rs 6,250 per hectare and for the inputs @ Rs. 500 per hectare for 60 hectares will be given during 1980-81. For this, an outlay of Rs. 4.00 lakhs has been provided for 1980-81. A sum of Rs. 1.00 lakh has been provided during 1980-81 for popularising of composite fish culture under the plan scheme, "Demonstration of fish culture" in suitable water areas of the State. A sum of Rs. 500 per hectare will be given as 25% subsidy for the inputs. Under this scheme 100 hectares will be covered under poly-culture during 1980-81. An outlay of Rs. 0.50 lakh has been provided for strengthening the economic and statistical wing of the Fisheries Department to have more accurate assessment of fisheries resources in the State. Under the Centrally Sponsored Scheme 'Assistance to Fish Farmers Development Agencies', an outlay of Rs. 4.00 lakhs has been provided during 1980-81. Matching funds of Rs. 4.00 lakhs will be contributed by Government of India. Each of the 4 agencies functioning in the State will cover 200 hectares of water area for fish production.

FORESTS

4.43 The Punjab State is deficient in forest area as compared to the norms laid down under the National Forest Policy. In March, 1978, the total forest area was 209 thousand hectares comprising

103 thousand hectares of Government area and 106 thousand hectares of private area. This is barely 4.02% of the total geographical area of the State. However, in view of the farm expansion which has taken place in the State, it would not be possible to enhance area under forest on a large scale. In this situation, intensive management of existing forest area has to be resorted to overcome the acute shortage of forest products such as timber, fuel wood and industrial wood. Besides, road and rail strips, trees can be planted along farm boundaries.

4.44 In the Annual Plan 1980-81, the main emphasis will be laid on the development of forests in the sub-montane areas of the State particularly shivalik hills and distribution of plants among the people to cover the boundaries of their land holdings, water channels and waste/marginal lands owned by the individuals and Panchayats. Block strips along railways roads and canals will also be covered.

4.45 In order to continue the forestry operations in the State, an outlay of Rs. 175.00 lakhs has been provided in the Annual Plan 1980-81 which is at the same level as that of the current year. Main programmes/ schemes to be implemented under this sub-head are briefly discussed below:—

Forest Research, Education and Training

4.46 An outlay of Rs. 3.50 lakhs has been provided under this programme during 1980-81. It is proposed to under-take research regarding plantation techniques, nursery techniques, selection of the species suitable for different climatic and soil conditions, trial of medicinal plants and fodder grasses. Research will be conducted departmentally and by Punjab Agricultural University. For this purpose, an outlay of Rs. 2.50 lakhs has been provided in the Annual Plan 1980-81. In order to keep the staff abreast of the modern techniques, training is imparted to field staff namely forest guards, foresters and deputy rangers at forest school, Hoshiarpur, for which an amount of Rs. 1.00 lakh has been provided in 1980-81. Refresher courses will also be conducted.

Plantation Schemes

4.47 An outlay of Rs. 120.00 lakhs has been provided in the Annual Plan 1980-81 for undertaking

afforestation over the vast areas owned by individuals, state waste lands under the control of the Forest Department. Plantation of economic species like Shisham, timber, eucalyptus, mulberry, khair, bamboos, poplar & chil will be raised in block forests and strips along railways, roads and canals to meet the agricultural, domestic and industrial requirements. The existing tree crops of inferior species will be replaced by superior species of economic trees. Under this main scheme of Plantation of Sisso, Babul, Eucalyptus, chil, poplar, etc., a sum of Rs. 80.00 lakhs has been provided in 1980-81 for raising plantation over 3400 hectares of areas to supplement wood resources. The strip plantations would serve as shelter belts and wind breaks against wind erosion and hot dry winds. A sum of Rs. 18.00 lakhs has been provided under the plan scheme 'Development of forests on private lands' for raising plantation over 1600 hectares of area. Initially the expenses on planting will be borne by the Government and the after-care including maintenance and protection will be the responsibility of the owners of the lands.

4.48 Under another scheme of raising plantation under "Farm Forestry", it is proposed to supplement the forest wealth by planting of trees by the people in their agricultural fields along the boundary of their holdings, edges of water channel, along village paths, in schools and various other institutions and private waste lands. An amount of Rs. 22.00 lakhs has been provided in the Annual Plan 1980-81 for raising and distribution of 44 lakh plants to the people during 1980-81.

Preservation of Wild Life

4.49 An outlay of Rs. 44.00 lakhs has been provided in the Annual Plan 1980-81 for this programme. A modern zoological park which is considered a necessity in a progressive State for recreational and educative purposes, for conservation, multiplication & rehabilitation of wild life particularly those species threatened with extinction is being established at Chhat Bir. An outlay of Rs. 38.00 lakhs is being provided for Zoo in the Annual Plan 1980-81. This provision will be utilized for the maintenance of existing buildings and construction of new buildings/enclosures for animals and birds in the Zoo.

Other Programmes

4.50 For the identification & demarcation of protected and unclassified forests, a scheme, "Demarcation of Forests", has been introduced during the current year with an outlay of Rs. 1.00 lakh. For the continuation of this work, a sum of Rs. 2.00 lakhs has been provided in the Annual Plan 1980-81, as in the absence of demarcated boundaries pro-

tection of forest areas becomes difficult. A provision of Rs. 0.50 lakh has also been made in the Annual Plan 1980-81 for the establishment of a Statistical Cell at the headquarters for the collection of statistical data pertaining to the forest activities and preparation of project report. Physical achievements during 1978-79, estimates for 1979-80 & projected target for 1980-81 are given in the table below:—

TABLE 4.4
Physical Achievements and Targets in Forest Department

Item	Unit	1978-79 Actual	1979-80		1980-81
			Target	Anticipated Achievement	Proposed Target
Area under plantation					
a) Govt. area	000 hecets.	4.95	5.35	4.10	3.40
(b) Private area	000 hecets.	1.73	2.73	2.28*	1.60
(c) Farm Forestry (private areas)	000 hecets.	4.15	4.40	4.40	4.40
Total		10.83	12.48	10.78	9.40

COMMUNITY DEVELOPMENT & PANACHAYATS

4.51. Rural Development and Panchayats Department is concentrating mainly on the welfare activities and improvement of village sanitation by pavement of streets, construction of drains disposal of sullage water, construction of Panchayat Ghars and school buildings, construction of shopping complexes at focal points and provision of other facilities like children parks, playgrounds, drinking water wells, setting up of libraries etc.

4.52. An outlay of Rs. 165.00 lakhs was originally earmarked for the sub-head 'Community Development and Panchayats' for the Annual Plan 1979-80. An additional amount of Rs 367.30 lakhs will be provided during the course of the current year for implementation of the following schemes by Rural Development and Panchayats Department during 1979-80 :—

(Rs in lakhs)

(i) Matching grants to Panchayats for development works ..	200.00
(ii) Grant-in-aid to Zila Parishads/ Panchayat Samitis for development of villages of historical/ religious importance ..	17.80

(iii) Integrated Rural Development Programme in Central SFDA blocks ..	115.00
(iv) Area Planning Programme for full employment ..	34.50

4.53 An outlay of Rs 515.00 lakhs is being provided for the implementation of various schemes under this sub-head during 1980-81.

4.54 The main thrust of the 1980-81 plan is on providing matching grants to Panchayats for development works. In order to encourage peoples participation in the formulation, financing and execution of the useful projects in accordance with the needs of a particular village, this scheme was launched in the State during the current year with an outlay of Rs 2.00 crores. An equal amount will be provided by the villagers to avail of this assistance for the implementation of identified approved schemes/projects viz., construction of school buildings, hospitals, pavement of streets and construction of drains, creation of revenue earning assets and opening of community centres and the like. This scheme is gaining popularity in the State. An outlay of Rs. 2.00 crores has, therefore, been provided in the Annual Plan 1980-81 under this scheme.

4.55 Pavement of streets and construction of drains is an important programme aiming at improvement of village sanitation. The scheme, "Disposal of sullage water and sanitation" has been integrated with this scheme. Previously grants upto Rs. 60,000 were provided for executing works in approved villages. The financing pattern under this scheme has been revised from 1979-80 and it has now been decided to provide funds under this scheme as per detail below :—

	Rs.
(i) Total estimated cost ..	1,70,000
(ii) Funds to be provided by concerned Panchayats @ 25% ..	42,500
(iii) Funds to be provided under 'Food for Works Programme' @ 30% ..	51,000
(iv) Funds to be provided by the State Government @ 45% ..	76,500

4.56 An expenditure of Rs 55.00 lakhs including Rs. 15.00 lakhs under 'Food for Works Programme', benefitting 118 villages was incurred during 1978-79. Provision of Rs. 60.00 lakhs has been made for 1979-80. An equal amount is being provided in the Annual Plan 1980-81 for covering 118 villages at focal points.

4.57 Under the scheme 'Financial assistance to Panchayats, Panchayat Samitis and Zila Parishads for expenditure on revenue earning schemes', Panchayats and Panchayat Samitis are provided financial assistance in the form of 15 years loan at 3% rate of interest to develop their sources of recurring income. With this assistance, Panchayats are in a position to instal tubewells and pumping sets, set up industrial enterprises such as flour, rice, oil and saw-mills and establish fish, poultry and piggery farms. Besides, assistance @ Rs. 36,000 is also being provided to each Panchayat of focal point villages for construction of shopping complexes of 4 shops each under the Integrated Rural Development Programme. Expenditure of Rs. 48.70 lakhs was incurred during 1978-79 and assistance was provided to 130 Panchayats and 4 Panchayat

Samitis. A sum of Rs. 62.00 lakhs has been earmarked for the implementation of this programme during 1979-80. An outlay of Rs. 42.80 lakhs is being included in the Annual Plan 1980-81 for this scheme. Assistance will be provided to 118 focal point Panchayats for the construction of shopping complexes.

4.58 The scheme of 'Integrated Rural Development in Central S.F.D.A. blocks was being funded fully by the Government of India, but from 1979-80 onwards, it has been decided to implement this scheme with funds to be provided by Government of India and the State Government on matching basis. Under this scheme, Government of India have already selected 46 blocks for intensive development with a view to creating employment opportunities and increasing the income of the rural masses and provide civic amenities in the rural areas. As per financing pattern, a sum of Rs. 5.00 lakhs per block is being provided under this scheme. Total liability in respect of 46 blocks works out to Rs 230.00 lakhs. An outlay of Rs. 115.00 lakhs as State share is, therefore, being provided under this scheme for 1980-81.

4.59 The scheme 'Area Planning Programme for Full Employment' was introduced by the Govt. of India during 1978-79 and funds for this were being fully provided. During 1978-79, 10 blocks were selected to be covered under this scheme. As per the revised pattern of financing the Centrally Sponsored Schemes, this scheme is implemented with funds to be provided by Govt. of India and the State Govt. on matching basis from 1979-80. An outlay of Rs. 30.00 lakhs is proposed to be provided @ Rs. 3.00 lakhs for implementation of this scheme in the selected 10 blocks during 1980-81. Out of this, 50 per cent of the funds i.e. Rs. 15.00 lakhs have been provided in the State Plan. Besides, 15 more blocks have been selected by the Govt. of India for the implementation of this scheme during 1979-80. An outlay of Rs. 30.00 lakhs @ Rs. 2.00 lakhs per block is required to be provided during 1980-81. The State share @ 50 per cent of the total i.e. Rs. 15.00 lakhs has been provided in the Plan budget for 1980-81.

4.60 During 1979-80 a sum of Rs. 15.00 lakhs was originally provided for the construction of 150

Panchayat Ghars @ Rs. 10,000 per Panchayat Ghar to be granted to Panchayats. During the course of current year it has been decided that due to escalation of the cost of construction, the quantum of grant for construction of a Panchayat Ghar of approved design and specifications be raised from Rs. 10,000 to Rs. 25,000. Though the quantum of Govt. grant has been raised, it has been made obligatory on the part of the concerned Panchayat to contribute atleast Rs. 10,000 for this purpose. An outlay of Rs. 25.00 lakhs has been provided for construction of 100 Panchayat Ghars during 1980-81.

4.61 Under the scheme 'Composite Programme for Women and Pre-School Children/Strengthening of Craft Centres' nutritive diet is being provided to nursing mothers and pre-school children in the age-group of 3—6. Expenditure is also incurred for purchase of equipment for balwadis and craft centres. Against an outlay of Rs. 3.80 lakhs provided during 1979-80, a sum of Rs. 5.50 lakhs has been earmarked in the Annual Plan 1980-81 for meeting the expenditure under this scheme as per detail below :

	Rs
(i) Nutrition Education in 49 blocks for 5 centres in each block @ Rs 200	49,000
(ii) Equipment for 3 craft centres in each of the 118 blocks @ Rs 1000 ..	3,54,000
(iii) Equipment for 3 Balwadis in each of the 49 Non-ANP blocks @ Rs 1000	1,47,000
Total ..	5,50,000

4.62 The scheme, 'Promotion and strengthening of Mahila Mandals' aims at imparting training to the office bearers of the Mahila Mandals in respect of kitchen gardens, storage, small savings, food preservation, etc. These Mahila Mandals have undertaken various activities such as Balwadis. The department also proposes to initiate revenue earning schemes by the selected Mahila Mandals. This scheme was previously being funded as 100 per cent centrally sponsored, but from 1979-80 onwards, it has been decided by the Govt. of

India to transfer this scheme to the State sector for implementation. Accordingly, it has been decided to provide assistance to 1500 Mahila Mandals during 1980-81, as per detail below:—

	Rs
(i) Honorarium to Secretary of the Mahila Mandals @ Rs 25 per mensem for 1500 Mahila Mandals ...	4,50,000
(ii) Training of office bearers @ Rs 100 per office bearer for two members from each Mahila Mandal ..	3,00,000
(iii) Contingent Expenditure ..	50,000
Total	8,00,000

4.63 The scheme 'Development of Model Villages' was started during the year 1969-70 for overall development of 981 selected villages. An expenditure of Rs. 4.21 lakhs was incurred during 1978-79 for completing in-complete works in 74 villages. An outlay of Rs. 10.00 lakhs has been provided in the Annual Plan 1979-80 for covering 130 additional villages. An allocation of Rs. 10.00 lakhs has been made for completion of incomplete works in 129 villages during 1980-81.

4.64 The staff for the implementation, monitoring and evaluation of Integrated Rural Development Programme has been provided under the scheme 'Staff for Integrated Rural Development Programme and Publicity through Audio Visual Aids at Focal Points'. A sum of Rs 5.00 lakhs has been provided for the Annual Plan 1979-80. In order to acquaint the rural masses about this Programme, it has also been proposed to give publicity through Audio-Visual Aids at the focal points. An outlay of Rs. 4.25 lakhs has been provided for implementation of this scheme during 1980-81.

4.65 The scheme 'Reorganisation of administrative arrangements at block level' has been initiated during the current year. It is envisaged that new Block Level Agencies may be created in each block for overall development of rural areas and implementation of Integrated Rural Development Programme in an intensive manner, in the State. As the re-organisation and registration of the

proposed Block Level Agencies is likely to take some time, only a token provision of Rs. 5.00 lakhs has been made in the Annual Plan 1980-81.

4.66 The scheme 'Grant-in-aid to Zila Parishads/ Panchayat Samitis for development of villages/ towns of historical/religious importance' has been introduced during 1979-80. A sum of Rs 17.80 lakhs has been allocated for the development of Sri Goindwal Sahib and Basarke Gillan, the

birth place of the third Guru Sri Guru Amar Dass Ji for the overall development of these villages. A token provision of Rs. 1.00 lakh has been made for this scheme in the Annual Plan 1980-81. Besides, an outlay of Rs 6.95 lakhs has been provided under the scheme C.D 3.8. 'Underground water Sewerage' for covering 7 villages during 1980-81.

Integrated Rural Development Programme

The Integrated Rural Development Programme is one of the pioneering and ambitious projects taken up by the Punjab State to rectify economic imbalances, strengthen rural economy and to usher in the socio-economic transformation in the rural areas. The underlying idea behind this programme is to provide impetus to economic growth and development of all facets of rural life.

5.2. Integrated Rural Development Programme was launched in the Punjab State in October, 1977 with an aim to move optimum utilisation of natural and human resources in a cluster of villages for overall enrichment of life of all sections of the people. Since its inception, this programme has been recognised as a bold thrust towards all round progress and prosperity of all the rural masses of this State. In several Asian Countries as well as in some parts of India, some efforts towards integrated rural development have no doubt been made in the past. All these were, however, essentially in the nature of small, *ad hoc* localised experiments. The programme taken up in the Punjab State is unique in the sense that initially, 117 clusters consisting of five villages each were selected during 1977-78 in all the blocks of the State and its coverage is to be extended to the entire State within a period of about five years. Under this programme the entire State has been divided into 500 clusters. 118 clusters consisting of 5 villages each are to be added to the existing clusters each year so as to raise the number of focal points to 500. From 1978-79 onwards 5 villages are also to be added to each existing cluster every year so as to encompass the entire State under Integrated Rural Development Programme. Ultimately 20-25 villages will be attached to each focal point for integrated area development.

5.3. The operational strategy behind this programme is the development of suitable growth centres in a manner that farmers and

artisans meet their production requisites, marketing and banking needs within five kilometres of their living places. The programme has been appropriately phased out because of heavy financial implications and its gigantic dimensions. It is multi-sectoral programme involving development in agriculture, soil conservation, animal husbandry, co-operation, dairying, rural industries and provision of infrastructures with an aim to give a boost to the rural economy in a short span of five years. The major objectives of this programme are :—

- (i) to provide full and gainful employment ;
- (ii) to achieve atleast 50 per cent increase in agriculture production ;
- (iii) to revive/intensify traditional rural industries and trades ;
- (iv) to facilitate development of cottage, small scale and agro-based industries ;
- (v) full development of local resources ;
- (vi) to ensure that weaker sections of the rural society also participate and suitably benefit from the development process.

5.4. In the first phase facilities like cooperative bank branch, cooperative retail shop for agricultural inputs and essential commodities, marketing yard, Agro-service centre with custom and repair facilities for tractors, diesel engines and other agricultural implements, medical dispensary, veterinary hospital, diesel/petrol pump and post-office etc. are proposed to be provided simultaneously to enable the farmers to avail all these facilities in the nearby vicinity. At a later stage it is proposed to provide additional facilities such as cold storage, research and training facilities, cinemas, piped water supply, community centre-cum-library and the like. Stress is also being laid on the development of agro-based industries,

lining of canal distributaries, lining of water courses, laying of underground water channels, land reclamation, soil conservation and setting up of dairy, piggery and poultry units to ensure to achieve the targets of agriculture production, raising the income levels and generating full employment in rural areas.

5.5. There are two major aspects of this programme. The first is to provide package of services such as marketing, banking and production requisities to the villagers within five kilometres of their living places by the establishment of focal points. 476 of the proposed 500 focal points have already been selected. Secondly this programme is oriented to create more job opportunities for skilled, semi-skilled and unskilled persons in the rural sector and thus discourage the drift from the villages to the towns.

5.6. Special efforts will be made to provide full and gainful employment to scheduled castes and other economically weaker sections like agricultural labourers, village artisans and other unemployed educated persons. From these classes, the poorest families will be identified. The unemployed persons of these house-holds will be assisted through the grant of subsidies, loans and provision of other necessary facilities to set up cottage industries, repair and service shops, enter into retail trade and establish small dairy, piggery and poultry units. Thus in this comprehensive programme of rural development main focus in 1980-81 will be on the economic betterment of the poorest section of the rural population.

5.7. An outlay of Rs. 728.78 lakhs has been provided in the Annual Plan 1980-81 for implementing the programme of I.R.D.P. as per detail below :

(Rs. in lakhs)

Serial No.	Sub-Head of development	1980-81 outlay
1	Agriculture	.. 50.00
2	Soil Conservation	.. 42.00

(Rs. in lakhs)

Serial No.	Sub-Head of development	1980-81 outlay
3	Animal Husbandry	.. 90.00
4	Dairying	.. 5.00
5	Fisheries	.. 4.00
6	Community Development and Panchayats	.. 257.05
7	Co-operation	.. 185.73
8	Industries	.. 45.00
9	Housing	.. 50.00
	Total	.. 728.78

Agriculture.

5.8. The Integrated Rural Development Programme has attained success to the extent that it has set in motion an integrated approach and boosted agriculture production through increased use of inputs and better farm practices. Nearly all the departments concerned with development are trying to pool their efforts to achieve targets. One net result of the package of measures including increased, balanced and optimum use of fertilizers, proper water management and improved farm practices by plant protection and weed control measures has been that during 1977-78 and 1978-79 the yield of wheat in these villages increased by 14 per cent to 24.57 per cent as against the State increase of 4.6 per cent and 11.49 per cent, respectively. Area under PR-106 increased in I.R.D. villages by 45-50 per cent as against 20-25 percent at the State level. Similarly increase in paddy yield in I.R.D. areas was to the extent of about 45 percent as against State increase of 20 percent. During 1978-79 Agriculture Department was in a position to undertake various measures in I.R.D. areas as per detail below :

Item	Unit	1978-79 achievement
1	2	3
(i) Land reclamation	.. Hectares	7580
(ii) Gypsum distributed	.. Tonnes	28337
(iii) Soil tests	.. No.	61205
(iv) Farm Plans prepared	.. No.	73129
(v) Crop area brought under insecticides	.. Hectares	112948

5.9 In addition to the above measures, training camps in the villages covered under I.R.D. for imparting training to the farmers regarding improved seeds, balanced use of fertilizers, utility of insecticides etc. have been initiated. By 31st July, 1979, 1171 training camps have been organised.

5.10 It has been possible to achieve the above results with coordinated approach of various departments and concerted efforts made by the additional staff provided for the implementation of I.R.D. A sum of Rs. 50.00 lakhs has been allocated under the sub-head 'Agriculture' for implementing this programme during 1980-81 as against the approved outlay of Rs. 50.00 lakhs during the current year.

Soil Conservation

5.11 The Soil Conservation and Engineering Department has estimated that 1,92,000 hectares of area falling under I.R.D. villages will need soil and water conservation. Proper development of soil and water resources in the villages selected under I.R.D. Programme is needed to raise productive capacity. The following works have been carried out in I.R.D. villages :—

the extent of Rs. 160.00 lakhs. An allocation of Rs. 42.00 lakhs is being provided for the staff component of this scheme so that it may be implemented with a vigorous pace to achieve the desired results.

Rural Development & Panchayats

5.13 Each Panchayat of focal point village is required to provide 5-10 acres of shamlat land, free of cost, for construction of focal point complex. The Gram Panchayats of focal point villages in the State contributed about Rs. 2.00 crores in the form of land and labour during 1977-78 and the like amount has been contributed during 1978-79.

5.14 Rural Development and Panchayats Department is constructing shopping complexes of four shops each at every focal point. It is also proposed to pave the streets of all the 118 focal point villages to be selected during 1980-81. An outlay of Rs. 257.05 lakhs is being proposed during 1980-81 as per detail below :

(Rs. in lakhs)

Serial No.	Name of the Scheme	1980-81 Outlay
1	CD 1.3 Staff for Integrated Rural Development Programme and publicity through Audio-Visual aids at focal points	4.25
2	CD 3.1 Financial assistance to Panchayats, Panchayat Samitis and Zila Parishads for expenditure on revenue earning schemes	42.80
3	CD 3.5 Pavement of streets and construction of drains	60.00
4	CD 3.11 Integrated Rural Development Programme in Central S.F.D.A. blocks	115.00
5	CD 3.12 Area Planning Programme for full employment	30.00
6	CD 3.13 Reorganisation of administrative arrangements at Block level	5.00
Total		257.05

Item	Unit	Up to 31-3-79	1979-80 (Up to 31-7-1979)
1	2	3	4
(i) Lining of common water courses	.. Kms.	216	25
(ii) Land Levelling	.. Hect.	1600	276
(iii) Bench terracing	.. Hect.	572	270
(iv) Underground pipelines	.. Hect.	1764	240

5.12 The department proposes to carry out works of land levelling and laying of underground pipelines over an area of 8000 hectares in Central districts of the State under I.R.D. Programme by availing institutional finance to

5.15 The construction of 117 focal point complexes was started during 1977-78 by P.W.D. (B. & R.) and S.E. Panchayati Raj circle which are almost complete. Construction work at 118 focal points selected during 1978-79 has also been taken up by these agencies during the current year. The construction work has been completed at 10 focal points. The estimated cost of different items per focal point is given as under :—

(i) Marketing yard	..	1.50 lakhs
(ii) Veterinary hospital	..	0.55 lakh
(iii) Shopping complex	..	0.36 lakh
(iv) Bank Building	..	0.40 lakh

5.16 The Co-operative department has also made provision for construction of 500 metric tonne capacity godowns at each focal point. The work in regard to construction of these godowns has also been entrusted to S.E. Panchayati Raj circle. The construction of houses for government employees posted at 51 focal point villages has been taken in hand. Each focal point will have 4 houses of upper category and 4 houses of lower category. It is proposed to construct such houses at all the focal points.

Co-operation

5.17. The Integrated Rural Development Programme is being implemented by the Department of Co-operation in all the 500 clusters. 1187 Primary Agricultural Credit/Service Societies initially attached with focal points have already been reorganised into 500 viable units. 197 bank branches were opened by the end of 1978-79. Their number at the focal points has been raised by 300 by the end of Sept., 1979. It is proposed to open 30 new bank branches during 1980-81. The programme of advancement of short and medium-term loans has also been stepped up by introducing cash credit limits, under which personal ledger accounts of all the non-defaulting members of the affiliated service societies can be operated upon by the members themselves according to their requirements within their maximum borrowing limits. 354 rural godowns of 500 metric tonne capacity have also been taken up for construction. 65 godowns have already been completed. Government share capital @ Rs 10,000 and managerial

subsidy @ Rs. 15,000 for a period of three years is also being provided to the focal point Primary Co-operative Agricultural Service Societies to strengthen them and enable them to discharge their functions effectively. These societies propose to undertake direct lifting of fertilizers, marketing of agricultural produce of their members and supply of consumer articles in rural areas. 921 consumer retail outlets are already functioning in IRD areas.

5.18. An outlay of Rs 185.73 lakhs is being provided under various schemes of the Department of Co-operation under Integrated Rural Development Programme during 1980-81 as per detail given below :—

(Rs. in lakhs)

No. and name of the Scheme	Proposed outlay 1980-81
1. CN-1.1 Additional departmental staff	45.00
2. CN-2.2 Assistance to Central Co-operative Banks for opening new branches	.. 16.66
3. CN-2.6 Assistance to Primary Agriculture Service Societies for construction of godowns	72.63
4. CN-2.7 Share capital contribution to Primary Agricultural Service Societies	25.00
5. CN-2.9 Assistance to reorganised Primary Agricultural Service Societies as managerial subsidy	17.44
6. CN-2.10 Subsidy for building premises of new branches of Central Co-operative Banks at Focal points under I.R.D.P.	6.00
7. CN-10.1 Participation in the share capital of industrial co-operatives including Federation/Unions & Projects in Co-operative Sector	3.00
Total	.. 185.73

Animal Husbandry

5.19 The programme of Animal Husbandry has been given due emphasis in the Integrated Rural Development Programme. It is proposed to provide veterinary hospitals-cum-artificial insemination centres at all the focal point villages. During 1977-78, 89 hospitals-cum-artificial insemination centres were set up at focal points. An expenditure of Rs 52.20 lakhs was incurred for the establishment of 113 additional veterinary hospitals-cum-artificial insemination centres at focal point villages. Besides, the maintenance of already established hospitals, the department contemplates to set up additional 105 veterinary hospitals-cum-A.I. centres with the likely expenditure of Rs 106.06 lakhs during 1979-80.

5.20 The department has also been concentrating on other activities in the I.R.D. areas. The progress in respect of these items is as under:

(i) Feed agencies opened during 1977-78, & 1978-79	..	112
(ii) Chemists shops opened during 1977-78 & 1978-79	..	69
(iii) Mineral mixture supplied during 1978-79	7230Kgs	
(iv) Composite fodder demonstration plots		1180
(v) Simple fodder demonstration plots		5900
(vi) Silo-Pits	..	118
(vii) Improved fodder seed supplied	11800 farmers	
(viii) Training of farmers in one day camps		5850

5.21 A sum of Rs 90.00 lakhs is being provided in the Annual Plan 1980-81 for the establishment of additional 105 veterinary hospitals-cum-artificial insemination centres. Other activities will also be intensified.

Dairying

5.22 The programme of dairying has been given due importance under Integrated Rural Development Programme. It is proposed to

identify five families in each village for providing following types of subsidies:

- (i) Subsidy for construction of Model Cattle Sheds for five animals @ Rs 1000/- per animal (Rs 3000/- to Rs 4000/- to be borne by each beneficiary).
- (ii) Subsidy for the purchase of high quality fodder seed @ Rs 200/- per family.

5.23 The Milk Commissioner, Punjab has held 37 five days, 9 one month and 18 twenty one day training camps in which 1708, 268 and 676 persons respectively were imparted training. 122 cattle units have already been set up in the I. R.D. areas. 162 trainees have so far obtained institutional credit and availed of subsidies on account of interests on loans, cattle insurance premium and cattle feed.

5.24 An outlay of Rs 5.00 lakhs is being provided in the Annual Plan 1980-81 for implementing this Programme.

Fisheries

5.25 It is proposed to intensify fish farming in the rural areas of the State by utilising the existing water areas and by creating new water areas to the extent of 600 hectares by providing self-employment opportunities to the unemployed rural people. Upto 30th September, 1979, an area of 46.44 hectares had been stocked with 1,63,990 fingerlings in I.R.D. villages. Fish worth Rs. 33,000 was exploited during 1978-79. 37 persons were trained during 1978-79 in fish culture.

5.26 It is proposed to give subsidy for the renovation of ponds to the extent of 40 hectares at the rate of Rs. 2,500 per hectare during 1980-81. Subsidy at the rate of Rs. 6,250 per hectare will also be provided for covering 20 hectares. Besides, subsidy on inputs at the rate of Rs. 500 per hectare is also proposed to be given for 60 hectares, during 1980-81. An outlay of Rs. 4.00 lakhs is being provided for covering this programme in the Annual Plan 1980-81.

Industries

5.27 The Integrated Rural Development Programme is being implemented in collaboration with the Punjab Khadi and Village Industries

Board. During 1978-79, it is estimated that employment for 10,000 persons was created in 3,783 units and financial assistance of the order of Rs. 32.87 lakhs was given. During 1979-80, a sum of Rs 40.00 lakhs is provided for setting up 1,815 village industries/units and 1,900 small scale industrial units in rural areas. The provision for 1980-81 is proposed at Rs 45.00 lakhs and target for village industries units to be set up is 2,500 and for small scale industrial units in rural areas is 2,300.

Housing

5.28 Under the scheme 'Government Residential Buildings at focal points', it is proposed to construct 8 houses of two categories at each focal point for the Government Employees. An expenditure of Rs. 36.00 lakhs was incurred during 1978-79 under this scheme and another amount of Rs. 50.00 lakhs is likely to be spent during the year 1979-80. In the Annual Plan 1980-81, a sum of Rs. 50.00 lakhs is proposed for this purpose. The provision made in the State Plan will further be supplemented with the assistance from HUDCO. It is expected that 569 houses will be completed by 31st March, 1980 and another 195 houses are proposed to be constructed during the year 1980-81.

Central Integrated Rural Development Programme

5.29 The Integrated Rural Development Programme in 46 blocks covered under Central Small Farmers Development Agencies was initiated by Government of India during 1978-79. An amount of Rs. 5.00 lakhs per block was allocated to these blocks. In addition, 10 blocks out of the blocks covered under State SFDA were also taken up for intensive development under the programme 'Area Planning for full employment' under Integrated Rural Development Programme. A sum of Rs. 23.00 lakhs at the rate of Rs. 2.30 lakhs per block was provided by Government of India during 1978-79. Out of total grant-in-aid of Rs. 253.00 lakhs an amount of Rs. 199.19 lakhs was utilised up to 30th April, 1979 giving employment to about 14,669 persons. A sum of Rs. 317.25 lakhs was also provided to the beneficiaries as institutional finance from commercial banks.

5.30 During 1978-79, entire funds for the implementation of this programme were provided by the Government of India. However, as per the revised pattern of financing the Centrally Sponsored Schemes funds for this programme are now

being provided by the Government of India and the State on matching basis from the current year. 15 additional blocks in the operational area of State SFD Agencies have been taken up during the current year. Funds to the tune of Rs. 299.00 lakhs are proposed to be provided for implementation of this programme during the current year as per detail below :

	Rs in lakhs
(i) 46 blocks covered under Central SFD Agencies at the rate of Rs. 5.00 lakhs per block	.. 230.00
(ii) 10 blocks at the rate of Rs. 3.00 lakhs per block in State SFD Agencies under 'Area Planning for full employment'	.. 30.00
(iii) 15 blocks at the rate of Rs. 2.60 lakhs per block in State SFD Agencies covered during 1979-80 under 'Area Planning for full employment'	.. 39.00
Total	.. <u>299.00</u>

5.31 According to the revised financing pattern 50 per cent of the funds amounting to Rs. 149.50 lakhs have been provided by Government of India. An equal amount is being provided in the State Annual Plan of the current year.

5.32 An outlay of Rs. 145.00 lakhs is being provided for implementing this programme of central IRD in the Annual Plan 1980-81. An equal amount will be provided by Government of India as this scheme is to be funded on matching basis.

5.33 The block functionaries are engaged in identifying small farmers, marginal farmers and educated unemployed to assist them in getting loans from the Commercial Banks and Corporations. 53,134 loan applications involving loans of Rs.16.42 crores were submitted up to 31st March, 1979 to Commercial Banks/Corporations since the inauguration of Integrated Rural Development Programme in November, 1977. Out of these 22,209 applications involving total amount of

about Rs. 7.00 crores were sanctioned. An additional employment for about 26,352 persons was generated in the following sectors during 1978-79:

(i) Industries	..	9,650	(v) Soil Conservation	..	200
(ii) Agriculture	..	702	(vi) Focal Point activities	..	1,700
(iii) Animal Husbandry	..	451	(vii) Skilled and unskilled	..	4,000
(iv) Co-operation	..	1,149	(viii) Self-employment through Institutional credit	..	8,500
			Total	..	26,352

CHAPTER VI

Cooperation

Cooperatives are an important instrument for encouraging local initiative and decentralisation of the economy. The Cooperative movement in the State has a vital role to play in the economic life of the people particularly in the rural areas, as all the villages of the State are now covered by the Cooperatives. They enable the small producers to secure economies which are otherwise available only to the large producers.

6.2. An outlay of Rs. 455.00 lakhs was originally provided in the Annual Plan 1979-80 for the implementation of various programmes under the sub-head 'Cooperation'. During the course of the year, an additional amount of Rs. 95.00 lakhs will be provided for the expansion of Morinda Cooperative Sugar Mills and Rs. 27.00 lakhs for incurring initial expenditure for setting up Spinning Mills in the Co-operative sector. An outlay of Rs. 580.00 lakhs is being provided for this sub-head in the Annual Plan 1980-81.

6.3. The main emphasis of the Cooperation Department in the Plan for 1980-81 is on strengthening the cooperative credit structure which plays a crucial role in the multi-agency approach to rural credit in the State. An outlay of Rs. 269.65 lakhs has been provided in the Plan under the programme 'Credit Cooperatives' out of total allocation of Rs. 580.00 lakhs for 1980-81. The setting up of Spinning Mills in the cooperative sector has also been given high priority for which an allocation of Rs. 100.00 lakhs has been earmarked and an amount of Rs. 16.00 lakhs has been allocated for the proposed 'Spinning Mills Federation' in the Annual Plan 1980-81.

Credit Cooperatives

6.4. The main thrust in the plan of the Cooperation Department has been towards reorganisation and revitalisation of the credit structure and utilisation of institutional finance

flowing from NCDC, Reserve Bank of India and IFCI to the maximum extent. An outlay of Rs. 269.65 lakhs has been allocated for the schemes to be implemented under the programme of 'Credit Cooperatives'. Almost all the Primary Agricultural Service Societies will be given managerial subsidy to meet the expenses on account of pay and allowances of additional staff employed after reorganisation of about 11,000 Primary Cooperative Agricultural Credit/Service Societies into 2581 viable units. The Primary Agricultural Service Societies particularly at focal points need storage capacity for stocking inputs and consumer articles. These societies also require space to stock foodgrains. It is, therefore, proposed to provide assistance to 269 societies at focal points for construction of 500 metric tonne capacity godowns during 1980-81. For this purpose, subsidy to the extent of 40 % of the total cost is provided by the State and loan to the tune of 60% is funded by the National Cooperative Development Corporation. To enable the societies to achieve the set target, an outlay of Rs. 72.63 lakhs as subsidy has been provided in the Annual Plan 1980-81 and Rs. 108.95 lakhs will be coming forth as loan from the National Cooperative Development Corporation.

6.5. The system of providing credit by the Primary Agricultural Credit Societies has already been streamlined by introducing cash credit system under which personal ledger accounts of all the non-defaulting members of the affiliated service societies can be operated upon by the members themselves according to their requirements through cheques, within their maximum borrowing limits. To further strengthen the Co-operative Banks and Primary Agricultural Service Societies, an outlay of Rs. 90.00 lakhs has been provided under the scheme 'Share capital contribution to Cooperative Banks and Primary Agricultural Service Societies' in the Annual Plan 1980-81. Out of this, assistance amounting to Rs. 75.00 lakhs is proposed to be

provided to 750 Primary Agricultural Service Societies in the form of share capital @ Rs. 10,000 per society. An outlay of Rs. 8.00 lakhs has been provided for strengthening 16 Primary Cooperative Land Mortgage Banks, 5 Central Cooperative Banks, Punjab State Cooperative Land Mortgage Bank and Punjab State Cooperative Bank would also be further strengthened with an outlay of Rs. 1.00 lakh each. State contribution to the Primary Agricultural Service Societies and the banks will be reimbursed by the Reserve Bank of India as loan from the National Agricultural Credit (Long-term Operations) Fund. The Department proposes to suitably step up the advancement of short and medium-term loans from the anticipated level of Rs. 150 crores during 1979-80 to Rs. 185.00 crores during 1980-81. The advancement of long-term loans is also proposed to be raised from about Rs. 24 crores during 1979-80 to Rs.56 crores during 1980-81.

6.6 The number of Central Cooperative Bank branches which were 542 at the end of 1978-79 is expected to be increased to 580 by the end of 1979-80. 30 new bank branches will be opened during 1980-81. 30 new and 368 existing bank branches located at local points are proposed to be granted managerial subsidy to the extent of Rs 16.66 lakhs during 1980-81 under the scheme CN 2.2 'Assistance to Central Cooperative Banks for opening new branches. An outlay of Rs. 6.00 lakhs has been provided to meet 50 per cent cost of building bank premises of 30 Cooperative Bank branches @ Rs. 20,000 per branch at focal points.

6.7. An outlay of Rs. 10.00 lakhs has been provided for Agricultural Stabilisation Fund and Rs. 5.00 lakhs for bad debt reserves to be granted to Primary Agricultural Service Societies.

Warehousing , Marketing and Processing

6.8. There is a large potential for export of vegetables and fruits, particularly to the Middle East countries. An outlay of Rs. 9.50 lakhs has, therefore, been provided to the Markfed for development of export of vegetables, fruits and other products. A sum of Rs. 9.00 lakhs will be given as share capital in the form of margin money and Rs. 0.50 lakh as subsidy for technical and marketing cell. An outlay of Rs. 4.00 lakhs has been provided for strengthening of 16 Cooperative Marketing Societies @ Rs. 25,000 per society during 1980-81.

6.9 The Department of Cooperation proposes to set up 6 Spinning Mills in the Cooperative sector at a total cost of about Rs. 36.00 crores, out of which about Rs. 26.00 crores are likely to flow from National Cooperative Development Corporation and IFCI. To begin with, a sum of Rs. 51.00 lakhs including Rs. 23.50 lakhs to be availed from NCDC will be provided during the current year for initiating preliminary works like feasibility study and purchase of land etc. for the proposed Spinning Mills. An outlay of Rs. 100.00 lakhs has been earmarked in the Annual Plan 1980-81 for the proposed Spinning Mills. A sum of Rs. 100.00 lakhs is likely to be received from the National Cooperative Development Corporation for this purpose. An outlay of Rs. 15 lakhs as share capital and Rs. 1.00 lakh as managerial subsidy is also being provided for the State level Spinning Mills Federation which will be a sponsoring institution for setting up new Spinning Mills in the Cooperative Sector.

Dairy Cooperatives

6.10. There was a net work of 2840 Cooperative Milk Producers Societies by the end of 1978-79 in the State. It is proposed to raise this number to 3400 by the end of 1979-80 and to 4000 by the end of 1980-81. There are 5 Milk Producers Unions functioning in the cooperative sector at the end of 1978-79. It is envisaged that their number will be increased to 7 by the end of current year. By the end of 1980-81 it will further be increased to 11 to cover all the districts. The Co-operation Department have already set up 2 Composite Milk Plants at Jullundur and Hoshiarpur, Third Milk Plant at Sangrur is likely to be commissioned soon. Milk Plant Bhatinda is proposed to be transferred to the Co-operative sector from the Punjab Dairy Development Corporation. Thus there will be 4 Milk Plants in the Cooperative sector by the end of 1980-81.

6.11 National Dairy Development Project-Operation Flood-II is proposed to be implemented in the State with financial assistance from NDDB/IDC. Funds to the extent of Rs. 25.00 crores are likely to be received for the development of self-sustaining and self-supporting dairy industry in the State during the period of about 7 years. Almost the whole of the dairy cooperative sector is likely to be covered under this operation. Thus only

a token provision of Rs. 12.00 lakhs has been provided for the programme of the Dairy Co-operatives in the State Annual Plan, 1980-81.

Industrial Co-operatives

6.12. In order to strengthen, revitalise and develop industrial co-operatives of artisans, craftsmen and technicians, provision has been made for their assistance in the form of loans, subsidies and share capital to their co-operative societies. An outlay of Rs. 26.85 lakhs has been provided for strengthening industrial co-operatives during 1980-81. It is proposed to provide share capital to 55 Industrial Co-operative Societies @ Rs. 10,000 per society. Out of total outlay of Rs. 26.85 lakhs for the development of industrial co-operatives in the State, an outlay of Rs. 11.00 lakhs has been earmarked for the development of Handloom Weavers Co-operative Societies. The Punjab Handloom Weavers Apex Co-operative Society is arranging the supply of raw materials and marketing of the products of the affiliated societies. It is also providing technical know-how particularly regarding new pattern of designs to popularise the marketing of handloom products. A sum of Rs. 7.50 lakhs is proposed to be provided as loan and share capital for setting up processing unit (Dyeing plant) by the Handloom Weavers Apex Co-operative Federation.

Consumer Co-operatives

6.13. There are 16 Central Co-operative Consumer Stores and the State level Co-operative Consumers Federation. The Central Co-operative Consumer Stores are spread in the urban areas. The State level Consumers Federation, the Apex body of the consumer co-operatives meets the wholesale requirements of consumer articles of Central Co-operative Consumer Stores, Primary stores and retail outlets in rural areas. To strengthen the capital base of the State level Consumers Stores Federation, an outlay of Rs. 10.00 lakhs is proposed to be provided during 1980-81. A sum of Rs. 10.00 lakhs has been provided for rehabilitation of 5 weak Central Co-operative Consumer Stores @ Rs. 2.00 lakhs per store to wipe off their losses. The programme of distribution of consumer articles in rural areas has been given the desired priority. An outlay of Rs. 206.48 lakhs is proposed to be provided under the centrally sponsored

scheme 'Distribution of consumer articles in rural areas' which would be entirely funded by the National Co-operative Development Corporation. This assistance would be provided to a network of 2,581 rural retail outlets to strengthen them and enable them to discharge their duties efficiently.

Co-operative Education, Research and Training

6.14. This programme includes 'Education and leadership training of members of co-operatives for which an outlay of Rs. 3.50 lakhs has been provided in the Annual Plan, 1980-81. Major part of the expenditure is incurred on meeting the pay and allowances of the Educational Instructors employed by the Punjab Co-operative Union, for imparting training to the committee members. Training is also imparted for Co-operative Subordinate personnel for which provision of Rs. 1.00 lakh has been kept. Rs. 0.50 lakh has been provided for study tours and Rs. 0.50 lakh for research and case studies of co-operative activities in the Plan for 1980-81.

Administration and Publicity

6.15. The expenditure on account of additional posts of Inspectors Co-operative Societies, provided under Integrated Rural Development Programme will be met on the Plan side. One post of Accounts Officer and a Senior Auditor have been agreed to be sanctioned during the current year. The department has also proposed the creation of five additional posts of Assistant Registrars with supporting staff. There would also be escalation in the expenditure on account of increase in pay and allowances subsequent to the implementation of the recommendations of the Punjab Pay Commission. Outlay for the staff has, therefore, been suitably raised from Rs. 43.00 lakhs during 1979-80 to Rs. 60.00 lakhs in the Annual Plan, 1980-81. A sum of Rs. 2.00 lakhs is also being provided for information and publicity.

Co-operative Audit

6.16. Regular, timely and effective audit is indispensable for the proper functioning of Co-operative Institutions. Additional staff is necessary both for proper audit of existing institutions and to cope with the envisaged expansion of this

sector. With the introduction of cheque system, the work in the Co-operative Bank branches has tremendously increased. The work of Primary Agricultural Service Societies located at focal points has also increased with the reorganisation of these societies, direct lifting of fertilizers by the societies and participation of these societies in marketing, procurement and supply of essential commodities in rural areas. For effective audit of bank branches and Primary Agricultural Service Societies located at focal points, an outlay of Rs. 11.50 lakhs is being earmarked for providing additional Co-operative Audit Inspectors during 1980-81. A sum of Rs. 1.09 lakhs is being provided for additional staff for the audit of non-credit societies. An outlay of Rs. 3.36 lakhs is also being provided for strengthening of audit staff at the headquarters and in the field for effective supervision and proper implementation of guidelines/ instructions. A small provision of 0.05 lakh has been made for training and education of audit staff.

Other Cooperatives

6.17. It is envisaged to have a net work of cold storages to stabilise prices of perishable commodities. An outlay of Rs. 25.00 lakhs is being provided for setting up 10 cold storages in the cooperative sector during 1980-81. In accordance with the financing pattern approved by N.C.D.C. in this respect 70% of the assistance in the form of loan will be provided by them for the cold storages. The balance 30% is to be funded by the State and the societies in the form of equity. Thus, loan assistance to the extent of about Rs. 59.00 lakhs is expected from N.C.D.C. for this purpose. Besides, a sum of Rs. 5.50 lakhs is being earmarked for the establishment of Federation of Cooperative Cold Storages for their promotion in the State during 1980-81.

Integrated Rural Development Programme

6.18. The department of Cooperation has taken up various activities at focal points vigorously. By the end of September, 1979, 300 Cooperative

bank branches were opened at focal points under Integrated Rural Development Programme. 354 rural godowns of 500 metric tonne capacity have also been taken up for construction. 65 of these have already been completed. Primary Agricultural Service Societies located at focal points are also being further strengthened by grant of share capital and managerial subsidies to enable them to discharge their functions effectively. These societies propose to undertake direct lifting of fertilizers, marketing of agricultural produce of their members and supply of consumer articles in rural areas. 921 consumer retail outlets are already functioning in IRD areas.

6.19. An outlay of Rs. 185.73 lakhs is being provided under various schemes of the Department of Cooperation under Integrated Rural Development Programme during 1980-81 as per detail given below:

(Rs. in lakhs)

No. and Name of the scheme	Proposed Outlay 1980-81
1. CN 1-1 Additional departmental staff ..	45.00
2. CN 2-2 Assistance to Central Cooperative Banks for opening new branches ..	16.66
3. CN 2-6 Assistance to Primary Agriculture Service Societies for construction of godowns ..	72.63
4. CN 2-7. Share capital contribution to Primary Agricultural Service Societies ..	25.00
5. CN 2-9 Assistance to reorganised Primary Agricultural Service Societies as managerial subsidy ..	17.44
6. CN 2-10 Subsidy for building premises of new branches of Central Cooperative Banks at Focal points under I.R.D.P. ..	6.00
7. CN 10-1 Participation in the share capital of industrial cooperatives including Federation/Unions and Projects in Cooperative sector ..	3.00
Total ..	185.73

Physical targets

6.20 The position in 1977-78, 1978-79, anticipated achievement in 1979-80 and projected physical targets for 1980-81 are given in the table below :—

Table 6.1:—Achievements and Targets in the Cooperative Sector

Facility/Service	Unit	1977-78	1978-79	1979-80		1980-81 Targets
				Target	Anticipated achievement	
1	2	3	4	5	6	7
1. Cooperative Banks—						
(i) Branches	No.	365	542	750	580	610
(ii) Deposits	Rs. crores	160.00	194.00	185.00	210.00	230.00
2. Reorganised Primary Agricultural Service Societies						
	No.	5	2,741	2,600	2,600	2,581
3. Coverage of Agricultural families						
	Per cent	71	74	80	78	80
4. Borrowing membership						
	Per cent	62	64	80	66	70
5. Agricultural loans advanced during the year						
(i) Short term	Rs. crores	78.00	112.00	140.00	147.00	181.00
(ii) Medium term	Rs. crores	2.50	3.00	3.50	3.00	4.00
(iii) Long term						
(a) Ordinary	Rs. crores	14.02	17.23	14.00	14.00	15.00
(b) Special under A. R. D. C.	Rs. crores	2.25	3.70	20.00	10.00	41.00
Total	„	16.27	20.93	34.00	24.00	56.00
6. Loans to small & marginal farmers						
(i) Short term	Percentage of total Agricultural loans	40	41.5	43	43	44
(ii) Long term	„	50	55	55	56	60
7. Overdues of short-term agricultural loans						
(i) Central Coop. Banks	Percentage of demand	27.6	25	22	22	20
(ii) Primary Agricultural Credit societies	„	28.0	27	23	24	22
8. Fertilizers retailed by Co-operatives						
(i) Quantity	000' tonnes	241	292	341	320	375
(ii) Value	Rs. crores	78	105	110	115	135
9. Agricultural produce marketed by Co-operatives						
	Rs. crores	111.65	116.50	120	120	130

Facility/Service	Unit	1977-78	1978-79	1979-80		1980-81 Targets
				Target	Anticipated achievement	
1	2	3	4	5	6	7
10. Retail sale of consumer goods by Urban Consumer Cooperatives	Rs. crores	4.36	4.00	5.00	3.50	4.00
11. Retail sale of consumer goods through cooperatives in rural areas.	Rs. crores	2.40	4.57	20.00	15.00	22.00
12. Co-operative Storage	000' tonnes					
(i) Rural godowns	No.	2,581	3,045	3,057	3,191	3,309
	Capacity	398	533	581	606	665
(ii) Other godowns	No.	760	760	1,217	760	840
	Capacity	665	665	665	665	745
(iii) Total godowns	No.	3,341	3,805	3,817	3,951	4,149
	Capacity	1,063	1,198	1,246	1,271	1410
13. Processing Units						
(i) Organised	No.	42	42	42	48	48
(ii) Installed	No.	38	40	42	42	42
14. Cold Storages						
(i) Organised	No.	19	19	19	29	29
(ii) Installed	No.	19	19	19	19	19
15. Dairy Programme						
(i) Fluid Milk Plants (including creameries in Operation)	No.	1	1	2	3	3
(ii) Milk products factories (including creameries in Operation)	No.	1	1	1	1	1
(iii) Dairy Cooperative Unions	No.	1	5	9	7	11
(iv) Milk Producers Cooperative Societies	No.	1,947	2,840	3,553	3,400	4,000

CHAPTER VII

Irrigation and Flood Control

The importance of irrigation for Punjab which is predominantly an agrarian economy need hardly be overstressed. Punjab's success in agriculture has been due, first and foremost, to irrigation. Out of the total gross cropped area of 64·00 lakh hectares an area of 53·50 lakh hectares was under irrigation at the end of 1978-79. The area under irrigation is likely to go up to 55·00 lakh hectares by the end of 1979-80.

7.2. Irrigation has been accorded a high priority in the matter of allocation of resources. Sixth Five-Year Plan (1978—83) envisages an outlay of Rs. 244·28 crores for the sub-head Irrigation (Rs. 218·27 crores for Major and Medium Irrigation and Rs. 26·01 crores for Minor Irrigation). During the year 1979-80 it is anticipated that Rs. 36·03 crores (Rs. 30·83 crores for Major and Medium Irrigation and Rs. 5·20 crores for Minor Irrigation) would be spent.

Plan for 1980-81

7.3. To promote irrigation development, sufficient funds have been provided for ongoing schemes keeping in view the availability of resources. Some funds for new schemes have also been allocated during the year. The guiding considerations in implementation of the programme during 1980-81 are:

Major and Medium Irrigation—

- (i) Expedient implementation of ongoing projects.
- (ii) Attention to detailed programming and evaluation of selected major projects and monitoring their implementation.
- (iii) Initiating conjunctive use of surface and ground water in the commands of irrigation projects.
- (iv) Accelerating the pace of modernisation of existing canal systems.

7.4. An outlay of Rs. 46·46 crores is envisaged for the Annual Plan, 1980-81, out of which a sum of Rs. 38·38 crores has been provided for Major and Medium Irrigation and Rs. 8·08 crores for Minor Irrigation works. The irrigation programmes include (i) the Multipurpose Projects; (ii) the Major and Medium Irrigation schemes; (iii) the Water Development schemes; and (iv) Minor Irrigation schemes of the Departments of Irrigation, Agriculture and the Punjab State Tubewell Corporation. The various programmes are outlined below:—

THE MULTIPURPOSE PROJECTS

Thein Dam

7.5. This is a major multipurpose project of the State being taken up during the Sixth Plan. The project (together with stage-II of the Upper Bari Doab Canal Hydel scheme) seeks to utilise the water of River Ravi for irrigation, power generation and to control floods. It envisages a 147-metre high earth-core gravel shell dam across Ravi at Thein, about 24 km. upstream of the Madhopur Head works. It will store 2·98 million acre feet (maf) of water, of which 1·9 maf will be the utilisable storage. The irrigation potential of the project has been estimated at 3,48,000 hectare on completion. The power-house will have an installed capacity of 480 MW (4×120). Besides, stage II of UBDC hydel project will add 3 units of 15 MW each. The estimated cost of the project is Rs 263·00 crores and the completion schedule is 8 to 12 years. A sum of Rs. 1,093·68 lakhs has already been spent on this project up to the end of the year 1978-79. During the current year a further amount of Rs. 1,200·00 lakhs is likely to be spent. This amount is being utilised for undertaking pre-construction works such as land acquisition, investigation, connecting railway, roads and bridges, purchase of construction equipment and machinery and construction of job facilities etc. It is proposed to spend Rs. 1,350·00 lakhs on this project during the year 1980-81. With this plan provision it is programmed to

undertake Survey and Investigation, compensation for land and trees, works such as construction of protection bund, widening of river section, construction of diversion tunnels, approaches for new Ravi bridges and construction of new bridges on river Ravi, power plant building, auto, timber and fuel yards, storage sheds, residential buildings, purchase of machinery, railway and communications and T&P etc.

Shahpur Kandi Project

7.6. The Shahpur Kandi Project envisages construction of a barrage across the Ravi down stream of the proposed Thein Dam site and upstream of the existing Madhopur headworks. The project will irrigate 33,000 ha. in J&K State and yield an installed capacity of 94 MW (2×47). The Project is estimated to cost Rs. 68.36 crores. Up to the end of the year 1978-79 an expenditure of Rs.1.41 lakhs has already been incurred on survey and investigation work of this project. Rs. 1.00 lakh are likely to be spent during the year 1979-80. Another sum of Rs. 6.79 lakh has been provided for this project for the Annual Plan, 1980-81, for investigation, survey and basic planning.

Diversion Weir of Shahnehar Canal

7.7. Shahnehar is an inundation canal taking off a few kilometres downstream of the Pong Dam on the river Beas. The construction of the dam has resulted in reduced supply of water in the river. In order to divert sufficient water into the canal it has been decided to construct a barrage across the river. This will make it possible to provide regular and regulated supplies for feeding the existing Shahnehar Canal Irrigation system. The approved cost estimate of Rs. 11.59 crores is now expected to go up to Rs. 33.91 crores. Up to the end of the year 1978-79 an expenditure of Rs. 1,713.61 lakhs has already been incurred on the project and another Rs. 250.00 lakhs are likely to be spent during the year 1979-80. It is proposed to allocate Rs. 450.00 lakhs for this project for the year 1980-81 so as to complete Diversion project during the year. The main items of expenditure relate to (i) construction of Aquaduct on Sohan khud, (ii) construction of common bund and left guide bund, (iii) construction of common Bund and Right Bund, (iv) Hoists for Barrage and Head Regulators and gates and gearings, (v) concreting service deck bays.

Dholbaha Dam Project

7.8. The Dholbaha Dam project involves construction of an earth and rockfill dam across the Dholbaha choe (District Hoshiarpur) with a maximum height of 32.2 metres. The stored flood waters of the choe will be utilised to irrigate 6,960 hectares. An additional area of 2,700 ha. will benefit from flood protection. Some part of the bed of the choe will also be reclaimed for cultivation. The latest estimate of cost is Rs. 3.90 crores. Up to the end of the year 1978-79 an expenditure of Rs. 43.07 lakhs has already been incurred on this project. Another Rs. 60.00 lakhs are likely to be expended during the year 1979-80. It is a World Bank project and a provision of Rs. 140.00 lakhs has been made for the year 1980-81 to undertake the works relating to acquisition of land, procurement of machinery and equipment, construction of residential buildings, construction of spillway and earth work.

Low Dams in Kandi Area

7.9. The sub-montane region of the State is strewn with choes which have badly cut and damaged the area near the foothills. During the rainy season, flood water laden with coarse sand/silt pour down the choes and cause great damage in the plains. In order to check this destruction and also provide irrigation facilities, it is proposed to construct low dams in the catchment areas of Chobal, Siswan Nadi, Patiala Ki Rao, Maili, Soan Nadi and Sirsa Nadi choes, as also the Janauri Dam. An amount of Rs. 10.00 lakhs is proposed to be spent during the year 1979-80. Rs. 4.00 lakhs are proposed to be allocated for these dams for the year 1980-81 to undertake topographical, hydrological and geological investigations. Besides, pre-construction works are proposed to be taken up for the proposed Janauri Dam.

Balance Expenditure on Beas Projects

7.10. The Beas Project Unit I & II have since been completed. To meet the balance expenditure on this project, Rs 48.15 lakhs have been provided. In addition to this, Rs. 12.39 lakhs for Beas Project Unit-I (Extension) and Rs. 126.67 lakhs for Beas Project-II (Extension) have been provided in the Annual Plan, 1980-81, for the construction of these Projects.

MAJOR AND MEDIUM IRRIGATION SCHEMES

Extension of non-perennial Irrigation to Areas in UBDC tract

7.11. In the UBDC tract, large areas were without irrigation facilities. The scheme 'Extension of Non-Perennial Irrigation to Areas in UBDC tract' envisages construction of new distributaries and minors as well as remodelling of the existing channels to increase their discharge capacities. On completion, the scheme is expected to generate additional irrigation potential of 235,000 hectares. Upto the end of the year 1978-79 an expenditure of Rs. 520.38 lakhs had been incurred. Another sum of Rs. 10.00 lakhs is likely to be spent on this scheme during the year 1979-80. The cost estimate of Rs. 5.90 crores is being revised. A provision of Rs. 20.00 lakhs has been made for the Annual Plan 1980-81 and it is expected to create an additional irrigation potential of 5,000 hectares.

Utilisation of surplus Ravi-Beas waters

7.12. Under this project, a part of the surplus Ravi-Beas waters was to be utilised besides remodelling of existing irrigation channels, to increase the water allowance from 2.75 to 3.5 cusecs per thousand acres for the areas lying to the South-West of the Ferozepur-Jakhal line and from 2.25 to 2.87 cusecs for the area lying on Samrala-Rajpura and South of Patiala tract. The revised estimated cost of the project is Rs. 987.00 lakhs. An expenditure of Rs. 531.67 lakhs had been incurred on this project upto the end of the year 1978-79. During 1979-80 another sum of Rs. 60.00 lakhs is likely to be spent on this project. A similar outlay is proposed for the execution of this scheme during the year 1980-81. In addition to remodelling works following new works would be undertaken :

- (i) Raising Banks of Sirhind Feeder channels to utilise the additional supplies becoming available from the year 1978.
- (ii) Raising lining/banks of Sirhind Feeder to provide authorised free board of 2.50 from head to tail 447927.
- (iii) Raising banks of Eastern canal system.

7.13. It is expected that an additional irrigation potential of 6,000 hectares would be created under this scheme during the year 1980-81.

Extension and Improvement of Shahnehar Canal System

7.14. With the completion of Shahnehar Barrage across river Beas, regular and regulated irrigation supplies would become available for feeding the Shahnehar Canal system. This system at present covers 26,316 hectares. The enlarged and regular supply of water makes it possible to increase the irrigated area to 86,320 hectares by extending irrigation to non-irrigated areas. In order to cover the Kandi area of Hoshiarpur district, the alignment of proposed Hoshiarpur canal is proposed to run on higher contours. The area in question has no mode of irrigation facilities at present. Revised proposal would raise the cost estimates of the project from existing Rs. 10.63 crores to Rs. 22.00 crores. Upto the end of year 1978-79 an expenditure of Rs. 219.94 lakhs had been incurred on this project. Another amount of Rs. 140.00 lakhs is likely to be spent during 1979-80. For the Annual Plan 1980-81 a provision of Rs. 250.00 lakhs has been made for undertaking the following works:

- (i) Acquisition of land.
- (ii) Procurement of machinery and equipment.
- (iii) Excavation and lining of Kandi canal and distributaries.
- (iv) Lining of existing channels of Shahnehar canal system.
- (v) Construction of bridges and drainage crossing etc.

7.15. It is proposed to add an irrigation potential of 2,000 hectares during the year 1980-81.

Lining of Channels

7.16. A considerable proportion of water from the unlined irrigation channels is lost through seepage/absorption. Seepage of water raises the underground water table which aggravates water-logging. Weed growth in the unlined channels impede free flow of water. Now that the surface waters available with the State have been utilised, it is necessary to prevent avoidable wastage of water. Accordingly, lining of channels is by far the most important programme in major and medium irrigation of the State. The total length of the channels, main canals, branches, distributaries

and minors is 14,882 Km. Of this, 506 Km of main canals had been constructed as lined channels from the very beginning. The programme for lining of distributaries and minors had been stepped up in the recent past and upto the end of 1978-79 a length of 1,316 Kms had been lined. With the implementation of the above proposals at the end of Medium Term Plan about 5,000 Kms length of channels will be lined and additional irrigation potential of 147,000 hectares would be created. An expenditure of Rs. 1,722.13 lakhs had been incurred on this scheme upto the end of the year 1978-79. A further sum of Rs. 11,00.00 lakhs is likely to be spent during the year 1979-80 with which 640 Kms length of channels are likely to be lined. A provision of Rs. 12,00.00 lakhs has been made for the Annual Plan 1980-81 with which it is expected to line another 550 Kms raising the total to 2,506 Kms by the end of 1980-81. An Irrigation potential of 18,000 hectares is likely to be added under this scheme during the year 1980-81.

7.17. The Project estimates amounting to Rs. 100.29 crores have been approved by the World Bank for financial assistance. Under this programme, it is envisaged to carry out lining of 4,060 Kms phased over a period of five years (1979—84).

Construction of New Distributaries, Minors and Bridges

7.18. At present large blocks of areas coming under the command of a number of distributaries are not receiving any irrigation facilities. In order to bring these areas under the command, new distributaries and minors, wherever required, are proposed to be constructed, under this general item. Further, a number of bridges are required to be constructed on the new channels to be constructed under this programme. In addition, on the existing old channels, bridges will be required because of remodelling of these channels and the construction of new village link roads.

7.19. An outlay of Rs. 20.00 lakhs was allocated for this purpose in 1979-80 and a similar provision is proposed for the year 1980-81 for the execution of following schemes ;—

1. Extension of IR Minor of Golewal Disty.
2. Extension of IR Minor of Jand Sahib Minor.
3. Construction of lift irrigation scheme of Kotli Minor.

4. Constructing Left Tandian Irrigation Channel.
5. Constructing New Kalyan Minor.
6. Constructing new Rania Minor,
7. Providing Irrigation to Chhanga Bet Area.
8. Extension of Chhanga Disty.
9. Kaniawali Disty.
10. Constructing Odeon Minor.
11. Constructing Fathuwala Sub Minor

Modernisation of Existing Channels

7.20. Modernisation and Improvement of the existing canal system is required to be undertaken so as to conserve and to transmit the supplies in the best manner possible for future development of the irrigation. Modernisation covers the following items:—

- (i) Provision of adequate canal regulators and escapes for efficient functioning and supply of water and replacement of Kari regulation system by mechanically operated gates.
- (ii) Provision of adequate water measuring devices for proper accounting of water diverted at various points in the canal system.
- (iii) Provision of modern communication system.
- (iv) Remodelling of canals.

7.21. An outlay of Rs. 5.00 lakhs is proposed for the year 1980-81 at the current year's level.

Garhshankar Lift Irrigation Scheme

7.22. In order to provide irrigation facilities to the Sub-Mountaneous Area (Kandi Area) lying in the foot of Shivalik hills near Garhshankar in Hoshiarpur District, a scheme named 'Garhshankar Lift Irrigation scheme' has been sanctioned during the current year. It is expected that about 8,000 ha. of fertile land will be brought under irrigation. The estimated cost of the scheme is Rs. 263.00 lakhs. Lift involved is 104 metres. The water supplies are proposed to be lifted in a

series of six pumping sets. An outlay of Rs. 20.00 lakhs is proposed for the year 1980-81 for the acquisition of land, construction of Pump Houses, Residential buildings and excavation of Distributaries.

Lohat and Garhi Lift Irrigation Schemes

7.23. In order to provide irrigation facilities to the areas bounded by Ropar-Balachaur-Bhaddi road and the Shivalik foot hills, it is proposed to lift about 44 cs. water from Bist Doab Canal at R.D. 60000 and 80 cs. of water from Bist Doab Canal at R.D. 87000. The area in question is backward and has no mode of irrigation at present. The salient features of these schemes are given below:—

	<i>Lohat Lift Scheme</i>	<i>Garhi Lift Scheme</i>
(i) Estimated cost	3.30 Crores	5.14 Crores
(ii) Discharge..	44 Cs.	80 Cs.
(iii) Area benefited ..	5600 ha.	8600 ha.
(iv) Lift involved	83.60 metres	98.07 metres

7.24. The project estimate for these schemes are under scrutiny in the process of sanction. A sum of Rs 5.00 lakhs is proposed for the year 1980-81 to start with preliminaries of these schemes.

Technical Assistance, Research and Training (Kandi Watershed and Area Development Project)

7.25. The Kandi watershed and Area Development Project comprises of a series of inter-dependent components such as reforestation and conservation measures in the upper catchments for protection and development of presently flood prone agricultural land below the hills.

7.26. In the appraisal report brought out by the World Bank authorities on the Kandi watershed and Area Development Project, it has been mentioned to build up the capacity of the Directorate of Water Resources Planning. A team of consultants will work closely with staff of the Directorate and will provide them in-service training. To provide for the appointment of counterpart staff and for the oversees training

of 7 specialists for a period ranging between 6 to 12 months, an outlay of Rs. 50.00 lakhs is proposed for the year 1980-81.

Pilot Demonstration (World Bank Project)

7.27. Over and above the on-going modernisation programme for canal and watercourses based on the established technologies in the Irrigation Department, the Pilot Demonstration Project will introduce and test the advanced irrigation technologies and techniques which are either untried in the State of Punjab or have only been attempted at a minimum scale. The estimated cost of the project is Rs. 279.00 lakhs and it is scheduled to be completed in a period of four years. The scheme is included in the World Bank Assistance Programme.

7.28. The Directorate of Irrigation Pilot Demonstration and Project Co-ordination will devise ways and means to moderate the century old irrigation and water distribution system to meet with the water demands of the higher yielding varieties of crops. It will also prepare new water development schemes based on the water availability for different canal irrigated areas. At present most valuable hydrological data generated over the last 80 years is lying scattered in the Department. It is proposed to consolidate the data relating to irrigation development and introduce collection of other statistics. A sum of Rs. 30.00 lakhs is proposed to be spent during the year 1980-81 on the following items :—

1. Survey and Investigation.
2. Pilot Demonstiation :—
 - (i) Sprinkler Irrigation.
 - (ii) Saline augmentation tube-wells.
 - (iii) Burried conveyance system.
 - (iv) Special studies.

WATER DEVELOPMENT

Investigation of Schemes

7.29. The available surface water resources in Punjab State have already been exploited and harnessed. For the development of irrigation in the State in future, attention will have to be concentrated on making the most efficient use of water. Therefore, the investigations required

for new schemes in the future will necessarily have to be directed towards the goal of utilisation of the available resources to get the maximum returns from irrigated land. In addition, besides the existing arrangement and set up for the investigation of new schemes and preparation of project reports for the improvement and modernisation of the existing irrigation systems, considerable attention will have to be focussed on introducing new irrigation practices and modern water management techniques. For this purpose, it will be necessary to collect data on water requirements of crops, cropping patterns in vogue and the manner in which flow irrigation is actually utilised by the farmers. An outlay of Rs 35.00 lakhs is proposed for the year 1980-81.

Research Schemes

7.30. Under this programme a number of

research schemes of technical nature are proposed to be carried out under the aegis of Irrigation and Power Research Institute, Amritsar. An outlay of Rs. 5.00 lakhs is proposed for the year 1980-81. The research schemes proposed to be taken up during 1980-81 will be selected out of the list given at Annexure I.

Details regarding targets and achievements of potential created and utilisation up to the end of 1978-79, achievement during 1979-80 and targets for 1980-81 in respect of Major and Medium Irrigation Projects are given at Annexure II. Details regarding cost estimates, date of start, expected date of completion, status of the project, expenditure incurred up to the end of 1978-79, anticipated expenditure during 1979-80, spill-over requirement after 1979-80 and outlay for 1980-81 in respect of main irrigation projects are given at Annexure III.

ANNEXURE I**Details of the Research Schemes**

1. Hydrological studies of flashy rivers.
2. Prevention of siltation in Reservoirs and Ponds.
3. Standardising design criteria to minimise scour at piers due to Kerman Vortex trials.
4. Eradication of aquatic weed in Irrigation and Drainage Channels of Punjab.
5. Use of marginally safe water for irrigation.
6. Effect of electrolyte concentration on the permeability of sodic soils.
7. Effect of fertilizers and soil amendments on the quality of ground water in Amritsar District.
8. Development of Chemical Techniques for embankment measurements.
9. Reclamation of sandy soils for rice cultivation.
10. Influence on soils of seasonal changes in the quality of well water in Amritsar District.
11. Anti-salt treatment of already salt affected tile and concrete lined channels.
12. Reclamation of saline-cum-alkali soils.
13. Deterioration of cement concrete structure and technique to repair the same.
14. Equipment (new) for use in various laboratories of the institute.
15. Recharge studies of ground water with Radio tracers.
16. Designing-inforced earth slabs over inferior foundation soils.
17. Comparative study of Engineering Properties of Punjab Soil by different techniques.
18. Surface geological classification and saturated soils and sands in Punjab, their significance and utility in Irrigation Engineering Projects.
19. Effect of soil Texture on moisture equivalents and soil utilisation in Irrigation Engineering.
20. Capacity survey of Bhakra Main Line including comparison of design assumption.
21. Hydrology and ground water studies.
22. Assessment of seepage losses from Canal System in Punjab.
23. Comparison and co-relation of model prototype behaviour and results including comparison of design assumption and prototype behaviour.

ANNEXURE—II

ANNUAL PLAN—1980-81

Major and Medium Irrigation Projects—Targets and Achievements

(000' hect.)

Name of Scheme	District to be benefitted	Ultimate irrigation potential	Cumulative Benefits at the end of				
			1978-79 (Actual)		1979-80 (Anticipated)		1980-81 (Target)
			Pot.	Uti.	Pot.	Uti.	Pot.
1	2	3	4	5	6	7	8
A. Continuing Schemes—							
1. Major Schemes—							
(i) Extension of non-perennial irrigation to areas in U.B.D.C. tract	Gurdaspur and Amritsar	235	185.5	183.5	188.5	185.5	193.5
(ii) Utilisation of surplus Ravi Beas waters	1. Bhatinda 2. Ferozepur 3. Faridkot 4. Sangrur	235	160.0	158.0	170.0	168.0	176.0
Total		470	345.5	341.5	358.5	353.5	369.5
B. New Schemes of Fifth Five Year Plan—							
(I) Major Schemes—							
(i) Thein Dam	Gurdaspur Amritsar	348	—	—	—	—	—
(ii) Dholbaha Dam	Hoshiarpur	5	—	—	—	—	—
(iii) Extension and Improvement of Shahnehhar Canal	Hoshiarpur Jullundur	51	1.0	—	2.0	1.0	4.0
(iv) Lining of Channels	All Districts	345	27.0	27.0	43.0	40.0	61.0
Total		749	28.0	27.0	45.0	41.0	65.0
(II) Medium Schemes—							
(i) Construction of New Distributories and Minors	Faridkot	—	2.0	2.0	3.0	3.0	4.0
Total		—	2.0	2.0	3.0	3.0	4.0
Grand Total		1,219	375.5	370.5	406.5	397.5	438.5

ANNEXURE—III

Statement showing cost estimates, date of completion, status and details of expenditure for Irrigation Projects

(Rs. in lakhs)

Serial No.	Name of Project/ Scheme	Latest estimated cost	Status of Project	Date of start.	Date of completion	Expenditure incurred upto 1978-79	Anticipated Exp. 1979-80	Spill over after 1979-80	Provision 1978-83	Outlay 1980-81
1	2	3	4	5	6	7	8	9	10	11
1.	Beas Project Unit-I	1170.45** *38,257.00	Stands cleared from G.O.I.	1959-60	1978-79	1106.46	18.00	45.99	119.00	7.19
2.	Beas Project Unit-I (Extension)	108.72** * 3,553.00	Do	1978-79	Not fixed	9.82	20.00	78.90	98.00	12.39
3.	Beas Project Unit-II	4949.30** *25980.00	Do	1959-60	1978-79	4828.45	45.00	75.85	305.00	40.96
4.	Beas Project Unit-II (Extension)	588.97** *3092.88	Do	1978-79	Not fixed	56.08	94.00	438.89	538.00	126.67
5.	Thein Dam	26300.00	Govt. of India have decided to clear this project	1977-78	1985-86	1093.68	1200.00	24006.32	9000.22	1350.00
6.	Diversión Wier of Shahnehar	3391.00	Stands cleared from G.O.I.	1972-73	1978-79	1713.61	250.00	1427.39	885.00	450.00
7.	Dholbaha Dam	390.00	Do	1977-78	1979-80	43.07	60.00	286.93	407.00	140.00
8.	Extension of non-perennial irrigation to areas in U.B.D.C. tract	590.00	Clearance awaited from G.O. I.	First Plan	1982-83	520.38	10.00	59.62	114.00	20.00
9.	Utilisation of surplus Ravi Beas waters	987.00	Do	1967-68	1982-83	531.67	60.00	395.33	266.00	60.00
10.	Extension and Improvement of Shahnehar Canal	2200.00	Do	1975-76	1980-81	219.94	140.00	1840.06	550.00	250.00
11.	Lining of channels	30,000.00	Under sanction	1974-75	Seventh Plan	1722.13	1100.00	27177.87	7750.00	1200.00

*Total cost of the Project.

**Punjab State Share.

MINOR IRRIGATION

7.31. While the outlays for Major and Medium Irrigation programmes are met exclusively from the Public sector, the resources for the Minor Irrigation schemes are supplemented by private and institutional sources. The Agricultural Refinance and Development Corporation, the Rural Electrification Corporation and Land Mortgage Banks play a significant role in development of minor irrigation. Punjab State is well endowed with ground water resources. The Punjab farmers encouraged by the Government and assisted by institutional finance have gone all out to exploit the ground water resources. The number of tubewells increased from 25,361 in 1965-66 to 2,46,837 in 1977-78 nearly ten times in 12 years. Wells have been mostly fitted with pumping sets. The consumption of electricity in agriculture is now close to 42 per cent of the total State consumption. The main users are the large number of tubewells and pumping sets. The supply of electricity for tubewells irrigation at a subsidised rate has given further impetus to exploitation of ground water resources. The drought conditions being faced during the current year have brought home added importance of the minor irrigation works. The main strategy under Minor Irrigation, therefore, would be (i) acceleration in flow of institutional investment ; (ii) stepping up rural electrification programme with a view to achieving energisation of 28,000 additional tubewells/pump sets during 1980-81 ; (iii) taking full advantage of special participating schemes of ARDC, REC and commercial banks and (iv) hydrological and geological survey of ground water strata for the benefit of the farmers. The State Government's role in tubewell irrigation has been and would remain promotional. Its direct investment in minor irrigation has been limited to deep tubewells and few lift and flow irrigation schemes. The promotional role includes (i) investigation of ground water resources ; (ii) lining of water-courses and (iii) mobilisation of institutional finance, mostly through the Land Mortgage Banks.

Plan for 1980-81

7.32. The responsibility for development of Minor Irrigation is shared by three organisations, namely, the Departments of Irrigation and Agriculture and the Punjab State Tubewell Corporation.

Irrigation Department

7.33. The scheme 'Integrated Utilisation of Ground Water Resources' aims at investigating and evaluating the assured stable ground water potential of the State towards preparing an optimum integrated development plan covering both ground and surface water resources. Besides, the system planning study, exploratory bores will be drilled for locating aquifers for the installation of tubewells. Under another scheme, it is proposed to create additional irrigation potential of about 200 ha. during 1979-80 by sinking tubewells in the difficult areas of Mahilpur Block (District Hoshiarpur), the Sangrur and Bhawanigarh Block (District Sangrur) and the U.B.D.C. tract. It is proposed to undertake small lift and flow irrigation schemes in areas where irrigation from existing canals is not possible or is inadequate. An additional irrigation potential of 100 ha. is expected. Pacca ghats are to be constructed on canals to prevent damage by the inhabitants of nearby villages for bathing, washing and providing drinking facilities to their cattle. Sprinkler irrigation schemes will be introduced in coarse, sandy, undulating and gravelly soils where percolation losses from surface irrigation are high and where frequent irrigation is required because of the poor water holding capacity of the soil. The total provision for the Irrigation Department for the year 1980-81 is proposed as Rs. 39.50 lakhs.

Agriculture Department

7.34. The most important scheme of the Department of Agriculture relate to Ground Water Cell (Strengthening of Ground Water and Surface Water Organisation). It is a Centrally-sponsored scheme and the work relates to the investigation and development of ground water resources. There is also a provision for subsidy on sinking/repair of percolation wells, tubewells and pumping sets. The total provision for Annual Plan, 1980-81, for the above schemes is Rs. 10.50 lakhs.

Punjab State Tubewell Corporation

7.35. The Punjab State Tubewell Corporation was set up in 1970 with an authorised capital of Rs 10.00 crores to take up the work of installation of deep tubewells. The two main programmes of Punjab State Tubewell Corporation are (i) sinking

of tubewells ; (ii) lining of water-courses. These are discussed below :—

Tubewells :

7.36. The major work of the Corporation since its inception has been the installation of deep Tubewells. The various stages of the work in respect of tubewells are given below in table 7.1 :—

TABLE 7.1

Stage	Number at the end of the year		
	1978-79 (Actual)	1979-80 (Anticipated)	1980-81 (Target)
1	2	3	4
1. Drilled ..	656	721	771
2. Developed ..	622	687	737
3. Completed ..	527	592	642
4. Energised ..	492	557	607

7.37. The irrigation potential created through the installation of tubewells up to the end of the year 1978-79, anticipated during 1979-80 and target for 1980-81 are indicated in the table 7.2 :—

TABLE 7.2

Year	Commulative Irrigation potential (000 Hect.)
1978-79	.. 49
1979-80 (anticipated)	.. 53
1980-81 (Target)	.. 56

7.38. During the Annual Plan, 1980-81, it is programmed to install 50 tubewells at an estimated cost of Rs. 100.00 lakhs. Out of the total cost of Rs. 100.00 lakhs, the Govt. involvement at 25%

work out to Rs. 25.00 lakhs and the balance amount of Rs. 75.00 lakhs would be raised from other financial institutions under ARC refinance programme. In addition to this, Rs. 69.40 lakhs have been provided as subsidy for losses suffered in less running of tubewells than provided in the project estimates, Rs. 39.00 lakhs for repayment of principle and interest and Rs. 3.00 lakhs as 50% share of a Centrally-sponsored scheme 'Strengthening of Ground Water/Surface water (Minor Irrigation) Organisation'.

7.39. The total expenditure incurred on installation of tubewells up to the end of 1978-79, anticipated expenditure 1979-80 and outlay 1980-81 is given in table 7.3

TABLE 7.3

Item	Expenditure incurred Rs. in lakhs		
	Up to 1978-79	1979-80 Anticipated	1980-81 outlay
1. Installation of tubewells (State share)	272.49	26.88	25.00
2. Equity ..	275.00	5.00	..
3. Repayment of principle and interest ..	261.00	55.37	39.00
4. Subsidy for losses ..	..	42.75	69.40
5. Strengthening of Ground water/surface water (Minor Irrigation) Organisation ..	..	..	3.00
Total ..	808.49	130.00	136.40

Command Area Development :

7.40. Under this Programme the PSTC has undertaken the work of lining of water-courses. The total number of water-courses to be lined in the State is 60,000 kms. This work was taken up by the Corporation during 1975-76. Targets and achievements in respect of lining of water-courses for the year 1975-76 to

1978-79, 1979-80 (anticipated) and target for 1980-81 are given below in the table 7.4 :—

Table 7.4

Year	Target	Achievement
1975-76	600	159
1976-77	600	506
1977-78	2,000	1,184
1978-79	2,500	1,421
1979-80	2,200	2,710
1980-81	3,525	..

7.41. By the end of year 1978-79, Punjab State Tubewell Corporation had lined about 3,270 Kms. of water-courses. In addition to this, Soil Conservation Department had lined about 2,858 Kms. of water-courses. At the normal pace of work it will take a much longer time to line the remaining about 53,872 Kms. of water-courses in the State. The limited financial resources of the State compelled it to seek assistance from World Bank for speeding up the execution of lining work. Consequently, the Punjab Irrigation Project was conceived for financial assistance from World Bank. The agreement with World Bank was signed on 30th March, 1979. The component of lining of water-courses of the Punjab Irrigation Project, envisages lining of water-courses of 2,820 outlets having total length of 16,735 Kms. at a total outlay of Rs 117.95 crores. This component of the Project would be completed in five years starting from the year 1979-80. The yearwise breakup of the physical targets and financial outlay involved is given in table 7.5

Table 7.5

Particulars	1979-80	1980-81	1981-82	1982-83	1983-84	Total
1	2	3	4	5	6	7
1. No. of outlet (W/Cs of which are to be lined) ..	460	590	590	590	590	2820
2. Length of W/Cs to be lined (in Kms.) ..	2,710	3,525	3,500	3,500	3,500	16,735
3. Total cost (crores of Rs)	16.25	22.90	24.50	26.25	28.05	117.95
4. State's share at 20% of item (3) above in crores of Rs. ..	3.25	4.58	4.90	5.25	5.61	23.59
5. Bank's share at 80% of item (3) above in crores of Rs. ..	13.00	18.32	19.60	21.00	22.44	94.36

7.42. During the current year it was envisaged to line 2200 kms of water courses for which the State share of Rs 220.00 lakhs (20% of the total cost) was provided. With the implementation of the World Bank project during the current year, the target for lining of water courses has been revised to 2710 Kms as required under the project report. It is programmed to line 3525 Kms. of water-courses during 1980-81 at an estimated cost of Rs. 2,290.00 lakhs. Govt./PSTC contribution at 20% would be Rs. 458.00 lakhs. However, considering the escalation in cost of bricks and cement, a sum of Rs. 522.00 lakhs has been allocated. An amount of Rs. 100.00 lakhs has been provided as equity. The total expenditure incurred on lining of water-courses upto the end of 1978-79, anticipated expenditure during 1979-80 and outlay for 1980-81 are given below in the table 7.6 :—

Table 7.6

Item	Expenditure incurred] (Rs. in lakhs)		
	Upto 1978-79	1979-80 anticipated	1980-81 outlay
1. Lining of Water-courses (State share)	402.26	220.00	522.00
2. Equity ..	169.50	30.00	100.00
3. Repayment of principle and interest ..	151.00	70.00	..
Total	722.76	320.00	622.00

Flood Control and Drainage

7.43. Floods have been a recurrent menace till last year. As such, main emphasis so far had been on the construction of embankments besides drainage improvement. By 1978-79 896 Kms. of flood protection embankments and 5,799 Kms. of surface drains had been completed. These provided relief/protection to about 24.47 lakh hectares of area as against the estimated total flood and flooding prone

area of 37·00lakh hectares at a cost of Rs. 75·19 crores. During the year 1979-80, 17 kms. of new embankments and 125 kms. of drainage channels are likely to be completed for which provision of Rs. 750·00 lakhs had been made.

Plan for 1980-81

7·44. Taking into account the recurring flood damage, in spite of flood protection works having been carried out in the affected areas, it is considered necessary to adopt a multipurpose approach towards flood control envisaging construction of storage reservoirs in the head reaches of river systems and choes and also other non-engineering works of afforestation, soil conservation and water shed management along with flood protection and drainage works in the affected reaches which are being continued. For the annual Plan 1980-81 an outlay of Rs. 500·00 lakhs has been provided to undertake the flood protection and drainage works. It is expected to construct 12 Kms. of new flood protection embankments and 80 kms. of new surface drains. Besides, strengthening of existing embankments and deepening and widening of existing drains where required will also be carried out. All these works on completion are expected

to provide relief/protection from floods and flooding to additional area of about 0·35 lakh hectares. It is also envisaged to construct a number of bridges on the drains to provide communication facilities to villagers. A table showing physical targets/achievements is given below :—

Table 7.7

Item	Unit	Const- ructed upto end of 1978-79	1979-80 antici- pated	1980-81 Target
1. Length of new Em- bankment ..	KM	896	17	12
2. Length of drainage channels ..	KM	5,799	125	80
3. Area to be benefited ..	Lakh Hect.	24·47	0·40	0·35

CHAPTER VIII

Power

Power constitutes the basic infra-structure for the agricultural and industrial production in the State. In view of its vital role in the process of socio-economic transformation of the State, the Power Sector has been accorded a priority treatment in the matter of Plan allocations. In the 6th Five-Year Plan out of the total outlay of Rs. 1500.00 crores an outlay of Rs. 543.14 crores has been envisaged for the Power sector alone. In 1978-79 the expenditure incurred has been of the order of Rs. 78.88 crores out of the total Plan

expenditure of Rs. 220.95 crores. During 1979-80 against the total Plan outlay of Rs. 260.00 crores the outlay for 'Power' is Rs. 94.71 crores. In the proposed Plan for 1980-81 an enhanced provision of Rs. 108.30 crores has been made.

8.2. The availability/demand of Power in the State upto 1983-84 based on the 10th Annual Electric Power Survey, 1977, conducted by Central Electricity Authority is indicated in the following table :—

Installed Capacity during				
Year	Installed capacity (MW)	Energy availability (MKWH)	Energy* requirement (MKWH)	Surplus/Deficit (+ or —)
1	2	3	4	5
1978-79	1,651	6,662	4,776	(+) 1,886
1979-80	1,947	7,774	5,325	(+) 2,449
1980-81	1,947	8,187	5,927	(+) 2,260
1981-82	1,999	8,480	6,534	(+) 1,946
1982-83	2,104	8,878	7,185	(+) 1,693

*excludes 1,000 MKwhs on account of consumption of N.F.F.

8.3. As per the above Survey, the State of Punjab would be surplus in Power from 1978-79 to 1983-84. However, due to the change in the commissioning schedules of various Power Projects in the State, the installed capacity forecast made by the Central Electricity Authority in the above

survey is not likely to materialise. The position with regard to increase in the installed capacity on the basis of the revised commissioning schedules of various projects for the period 1977-78[to 1983-84 has been re-assessed and is indicated in the following table :—

Installed Capacity during

Serial No.	Name of Power House/ Project	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	
1	2	3	4	5	6	7	8	9	
1	Shanan Renovation	..	48	48	48	60	60	60	
2	Shanan Extension	..	..	..	..	50	50	50
3	U.B.D.C.	..	45	45	45	45	45	45	
4	Share in Bhakra Complex	..	613	613	613	613	613	613	
5	Beas, Unit-I	..	158	158	317	317	317	317	
6	Beas, Unit-II	..	30	60	60	60	60	60	
7	Anandpur Sahib	..	..	..	..	..	33.5	67
8	Mukerian Hydel	..	..	..	..	..	15	30
9	G.N.D.T.P. Units, I and II	..	220	220	220	220	220	220	
10	G.N.D.T.P. Extn. Units—III & IV	..	110	220	220	220	220	220	
11	Nangal Thermal	..	5	5	..	..	..	..
12	Diesel	..	16.08	14.08	14.08	14.08	14.08	14.08	
Total		..	1,245.08	1,383.08	1,537.08	1,549.08	1,599.08	1,647.58	1,696.08

According to the survey conducted by C.E.A. the installed capacity is likely to increase to 2,104 MW by the year 1983-84 whereas on the basis of the current assessment, it is likely to be 1,696.08 MW by that time.

8.4. On the basis of the observed rise in energy requirements in 1978-79, the SEB has worked out revised estimates for the Sixth Plan period. These are given in the following table :—

Estimates of Energy Requirements, 1978-79 to 1982-83

(MKwh)

Year	10th Annual Power Survey	State Electricity Board	Col.2—Col.1
0	1	2	3
1978-79	4,776	5,173	397
1979-80	5,325	6,123	798
1980-81	5,927	7,103	1,176
1981-82	6,534	8,161	1,627
1982-83	7,185	9,297	2,112

8.5. If the Punjab economy develops in accordance with the growth targets of the Sixth Plan, the build up of energy requirements is more likely to correspond with the anticipations of the SEB. The demand for power is growing fast, not only because of the fast tempo of development but also because of replacement of other sources of energy by electricity.

8.6. The revised estimates of the SEB suggest that the capacity and energy surpluses from 1978-79 to 1981-82 forecast in the Survey will not materialise. Even in the Survey, a capacity deficit had been forecast for 1982-83. It seems that, unless further measures are taken, the State will face capacity deficits throughout the Sixth Plan period. Furthermore, lower

installed capacity will mean, other things being equal, less energy availability. Accordingly, the energy surpluses forecast in the Survey from 1978-79 may not materialise except for one or two

years. In order to meet even the energy requirements, the KWH available to Punjab per KW of installed capacity will have to go up steadily as indicated in the following table :—

Required KWH Availability per KW of Installed Capacity

Year	Energy Requirements MKWH	Installed Capacity KW	KWHs/KW
0	1	2	3
1978-79	5173	1383	3740
1979-80	6123	1537	3984
1980-81	7103	1549	4586
1981-82	8161	1599	5104
1982-83	9297	1648	5641

8.7. In the 10th Survey, the KWHs/KW have been estimated at 4220 and 4440 in 1981-82 and 1982-83, respectively. If this projection is considered reasonable the required KWHs/KW from 1980-81 is unrealistic. This suggests that unless an additional installed capacity of 200 MW in 1981-82 and 400 MW in 1982-73 over and above the SEB projections is available, the State will face both capacity and energy shortages from 1980-81 onwards.

8.8. For the Annual Plan 1980-81 an outlay

of Rs. 108.30 crores is proposed for the sub-head, "Power". The broad strategy followed to determine the *inter-se* priorities in the Power sector is to lay emphasis on the on-going projects with a view to realising benefits from them at the earliest. Therefore, the requirements of projects at the advanced stages of construction have been fully provided for. The following table indicates the allocation for the different programmes for 6th Plan, actual expenditure for 1978-79, anticipated expenditure for 1979-80 and proposed outlay for 1980-81:—

(Rs. in Lakhs)

Programme	Outlay 1978-83	Actual Expenditure 1978-79	Outlay 1979-80	Anticipated Expenditure 1979-80	Proposed Outlay 1980-81
1	2	3	4	5	6
1 Generation	29132.00	3282.77	4736.00	4761.00	5556.00
2 Transmission & Distribution—					
(a) Transmission	11777.00	1632.90	2224.00	2199.00	2500.00
(b) Distribution including normal development	4450.00	843.37	700.00	700.00	958.00
(c) Reduction of Transmission losses/Improvement of Transmission System	1940.00	166.21	320.00	320.00	400.00
3 Rural Electrification—					
(a) R. E. C.	2685.00	971.64	470.00	470.00	426.00
(b) Plan	4180.00	969.33	985.00	985.00	890.00
4 Investigation	50.00	12.70	8.00	8.00	20.00
5 Research Testing Laboratory and Load Despatch Centre	100.00	8.73	28.00	28.00	80.00
Total	54314.00	7887.65	9471.00	9471.00	10830.00

8.9. The various projects/ programmes to be undertaken during 1980-81 are discussed below.—

MULTI-PURPOSE PROJECTS

Beas Project Unit-I

8.10. This is an inter-state project with Punjab, Haryana and Rajasthan as partners. It is being executed by the Beas Construction Board. It was originally approved at an estimated cost of Rs. 96.87 crores. The latest estimated cost of the project has increased to Rs. 382.57 crores. The cost and benefits of the project are being shared amongst the partner states on the following basis:—

	Power (94%)	Irriga- tion (6%)
1. Punjab	48%	
2. Haryana	32%	
3. Rajasthan	20%	

8.11. The project envisages installation of 4 units of 165MW capacity each. The first and second units were commissioned in November, 1977 and March, 1978 respectively, while the third and the fourth units of the project were commissioned in June, 1979. Although the mechanical run of the third & fourth units were performed during 1978-79 but evacuation of Power from these units has been affected during the current year only. In the Annual Plan 1980-81 an outlay of Rs. 106.00 lakhs has been provided to complete the residual works.

8.12. The latest estimated cost of the project, Punjab's share of total cost, expenditure incurred upto 1978-79, anticipated expenditure for 1979-80, spill over requirement after 1979-80 and the proposed outlay for 1980-81 are given below:—

	(Rs. in lakhs)
1. Location	Village Dehar (District Hoshiarpur)
2. Latest estimated cost, (March, 1978)	38257.00
3. Punjab's share in the total cost (Power component)	17262.00

(Rs. in Lakhs)

4. Expenditure incurred upto 1978-79	16285.87
5. Anticipated expenditure during 1979-80	302.00
6. Spill over requirement after 1979-80	674.13
7. Proposed outlay for 1980-81	106.00

Beas Project Extension-Unit-I

8.13. The Dehar Power Plant Extension Project envisages the installation of two additional units of 165 MW capacity each in Dehar Power Plant. Both the units of the project are expected to be commissioned after 1982-83. The cost and benefits of this project are being shared in the same ratio as for Beas Project Unit-I.

8.14. The latest estimated cost of the project, Punjab's share of the total cost, expenditure incurred upto 1978-79, anticipated expenditure for 1979-80, spill over requirement after 1979-80 and the proposed outlay for 1980-81 are given below:—

	(Rs. in lakhs)
1. Location	Village Dehar (District Hoshiarpur)
2. Latest estimated cost, Feb, 1978	5910.26
3. Punjab's share in the total cost Feb, 1978 (Power Component)	2837.00
4. Expenditure upto 1978-79	179.90
5. Anticipated expenditure during 1979-80	269.00
6. Spill over requirement after 1979-80	2388.10
7. Proposed outlay for 1980-81	530.00

Beas Project Unit-II.

8.15. This project, comprised of four units of 60 MW capacity each, is another Multipurpose project of Punjab, Haryana and Rajasthan. The cost and benefits of the projects are being shared between the partner states as under:—

	Power (23.5%)	Irrigation (76.5%)
Punjab	.. 24.9%	
Haryana	.. 16.6%	
Rajasthan	.. 58.5%	

8.16. All the four units of this project were commissioned by 1978-79. Against an anticipated expenditure of Rs. 18.00 lakhs during the current year an outlay of Rs. 13.00 lakhs has been proposed for 1980-81 for the completion of left over works. The details of outlay and expenditure up to date are given below :—

	(Rs. in lakhs)
1. Location	Village Pong, (District Hoshiarpur)
2. Latest estimated cost of the project (Jan., 1978)	25980.00
3. Punjab's share in the total cost of the project (Power component)	1520.00
4. Expenditure incurred upto 1978-79	1476.00
5. Anticipated expenditure for 1979-80	18.00
6. Spill over requirement after 1979-80	25.30
7. Proposed outlay for 1980-81	13.00

Beas Project Unit-II-Extension.

8.17. The Pong Power Plant (Extension) project envisages the installation of two additional units of 60 MW capacity each. The project is likely to be commissioned after 1982-83. Against an anticipated expenditure of Rs. 50.00 lakhs during the current year an outlay of Rs. 39.00 lakhs is proposed for 1980-81 as per requirement of funds indicated by BCB. The details of outlay and expenditure up to date are given below :—

	(Rs. in lakhs)
1. Location	Village Pong, (District Hoshiarpur)
2. Total cost of the project (Feb., 1978)	3404.43
3. Punjab's share in the total cost of the project (Power component)	848.00
4. Expenditure incurred up to 1978-79	23.27
5. Anticipated expenditure during 1979-80	50.00
6. Spillover requirement after 1979-80	774.73
7. Proposed outlay for 1980-81	39.00

Thein Dam

8.18. The project envisages the utilisation of Ravi River Water now flowing to Pakistan by constructing a 147 metre high earth core gravel shell dam across the river at village Thein 24 Kms upstream of Madhopur Head Works. The project, estimated to cost Rs 263.16 crores, envisages to install 4 units of 120 MW capacity each. The project has already been technically cleared by the Central Electricity Authority. However, the formal sanction is still awaited from Govt. of India. No commissioning schedule has been fixed so far. However, it is likely to be completed in 8 to 12 years. Since initially it is to be implemented by the Irrigation Department an outlay of only Rs 10.00 lakhs has been allocated on the Power side for carrying out certain preliminary works during 1980-81.

Shahpur Kandi Project

8.19. It is proposed to harness the available river fall between the tail race of the Thein Dam Power Project and Madhopur Pond level for irrigation and for the Power generation. The project envisages the construction of about 150 ft. high embankment Dam near Shahpur Kandi 8 Kms. upstream of Madhopur Head Works and the erection of a Power house comprising two units of 47 MW each. The project is awaiting clearance of Govt. of India. An outlay of Rs 1.00 lakh only has been proposed for 1980-81 for preliminary works.

POWER PROJECTS

Shanan Renovation Project

8.20. The project envisages the renovation of 4 units of Shanan Power House at Joginder Nagar whose derated capacity was 9MW each against the original capacity of 12MW each. After completion of the project, the original capacity of each unit will be raised from 12MW to 15 MW. The renovation of the project has been envisaged to be completed in two stages :—

Stage I.—Renovation of the existing 4 units—uprating from 9MW capacity to 12 MW (original capacity) each.

Stage II.—Increasing the original capacity from 12 MW to 15 MW of each unit.

8.21. The work against stage-I has already been completed. The work of replacement of Turbine and Governing system on all the Machinery from 12MW to 15 MW has already been completed. They have been commissioned at 12 MW initially, because of delay in the supply of 11 KV switch gear by M/s southern switch gear Ltd., Madras due to a strike in that establishment. The 11 KV switch gear are now expected to be supplied in June, 1980. All the 4 Machines are proposed to be uprated simultaneously in February, 1981.

8.22. Against the anticipated expenditure of Rs 137.00 lakhs for 1979-80 an outlay of Rs 71.00 lakhs has been proposed for 1980-81. This would provide for payments for the purchase of Turbine and Governing system equipment, Switch Yard Equipment, 11 KV Switch Gear and bus duct, cables, head works, etc. The details of outlay and expenditure up to date are given below:—

(Rs in lakhs)

1. Estimated cost of the project—	
(i) Original cost	.. 203.00
(ii) Latest cost (September, 1976)	749.00

2. Expenditure up to 1978-79	.. 474.68
3. Outlay 1979-80	.. 137.00
4. Spill over requirement after 1979-80	.. 137.32
5. Proposed outlay for 1980-81	.. 71.00

Shanan Extension Project

8.23. This project envisages the installation of 50 MW generating unit at the Shanan Power Plant (Joginder Nagar). This is an important project which can give immediate benefits to the State by increasing its generation by 176 MU (gross) per year whereas the total investment in this project is estimated at Rs 18.14 crores only. The completion of the scheme has been delayed on account of late delivery of E.O.T. cranes by the supplier and the fire in the Electrical stores of the project. As per the latest assessment, the unit is expected to be commissioned in August, 1981. The physical progress of the project upto August, 1979 is given as under:—

Sr. No.	Name of Activity	Total Qty.	Progress upto August, 1979
1.	Reservoir		
	(a) Excavation	145,000 Cu. m	135750 Cu. m
	(b) Concreting M-250/20	5400 Cu. m	4665 Cu. m
	(c) Concreting M-100/20	3250 Sq. m	3467 Sq. m
2	Intake Tunnel		
	(a) Excavation	3000 Cu. m	1484 Cu. m
3	Intake Channel		
	(a) Excavation	14709 Cu. m	10970 Cu. m
4	Power House		
	(a) Excavation	4550 Cu. m	Completed
	(b) Concreting	4230 Cu. m	3952 Cu. m
5	Penstock		
	(a) Excavation	8085 Cu. m	6085 Cu. m
	(b) Concreting	9000 Cu. m	2418 Cu. m
6	Barrage		
	(a) Excavation	40000 Cu. m	36375 Cu. m
	(b) Concreting	18050 Cu. m	12857 Cu. m

8.24. An outlay of Rs 306.00 lakhs has been proposed as against a sum of Rs 200.00 lakhs provided during the current year. The proposed outlay would be utilised for the procurement of Hydro generating sets, accessories and erection, gates, gears and erection, C.R. equipment and establishment charges. The details of outlay and expenditure up to date are given below :—

(Rs in lakhs)

1. Estimated cost of the project—	
(i) Original cost	.. 472.00
(ii) Latest estimated cost (Nov. 1979)	1,814.00
2. Expenditure up to 1978-79	.. 1,195.83
3. Outlay 1979-80	.. 200.00
4. Spill over requirement after 1979-80	418.17
5. Proposed outlay for 1980-81	306.00

G.N.D.T.P. Extension Units —III and IV

8.25. The project envisages the installation of two additional units of 110 MW capacity each at GNDTP Bhatinda. Both the units have been commissioned, first in March, 1978 and second in January, 1979. An outlay of Rs 126.00 lakhs has been proposed in the Annual Plan 1980-81 as against a sum of Rs 400.00 lakhs provided during the current year. The proposed outlay would cover up payments for Electrical and Mechani-

cal equipment and for the completion of some civil works. The details of outlay and expenditure up to date are given below :—

(Rs in lakhs)

1. Estimated cost of the project—	
(i) Original cost	.. 4138.00
(ii) Latest cost (1978)	.. 7115.00
2. Expenditure up to 1978-79	.. 6156.55
3. Outlay 1979-80	.. 400.00
4. Spill over requirement after 1979-80	558.45
5. Proposed outlay for 1980-81	.. 126.00

Anandpur Sahib Hydel Project

8.26. It is a new Hydro electric scheme taken up in the 5th Five Year Plan. On completion of the Beas-Sutlej link, additional release from Bhakra Dam would become available which would be utilised for Power generation by constructing Anandpur Hydel Channel. The scheme envisages installation of 4 units of 33.5 MW each (total 134 MW) on a hydel channel to be constructed parallel to the existing Nangal hydel channel. The annual energy availability from this project will be 908 MU (gross) which is quite significant and will greatly help improving the Power requirements of Punjab. The works on the project is progressing satisfactorily and the progress made up to September, 1979 has been given as under :—

No.	Item	Unit/Qty	Achievement upto 9/79
1	2	3	4
1	Preliminary Works		
	Laying alignment	33 KM	33 KM
2	Land Acquisition	1289 Acres	1019 Acres
3	Head Regulator		
	Earth work excavation	1.91 Lacs cu. m	0.18 Lac cu. m
4	Hydel Channel RD 0 20800-M		
	(i) Earth work excavation	102.0 Lacs cu. m	42.39 Lacs cu. m
	(ii) Compaction	5.55 Lacs cu. m	0.13 Lacs cu. m
	(iii) Lining	10.10 Lacs Sqm.	0.35 Lacs Sq. m
5	Hydel Channel RD 20800-33387—M		
	(i) Earth work excavation	66 Lacs cu. m	27.92 Lacs cu. m
	(ii) Compaction	20.36 Lacs cu. m	4.52 Lacs cu. m
	BRIDGES R—20800—M	9 Nos.	2
	CROSS DRAINAGE WORKS	39 Nos.	8
	MAIN BUILDING P.H.I.		
	(i) Excavation of P.H. Pit Area No. I	7.0 Lacs cu. m	7.0 Lacs cu. m
	(ii) Concrete of Raft	8900 Cu. m	5914 Cum
	Pen Stock of P.H. No. I		
	(i) Steel Procurement	592 Ton	306 Ton
6	By Pass Channel P.H, No, I		
	Excavation	2.73 Lacs cu. m	2.63 Lacs cu. m

No.	Item	Unit of Qty.	Achievement up to 9/79
1	2	3	4
7.	Main Building P.H. No. II :		
	(i) Excavation of Pit area	7.30 Lacs cu. m	6.54 Lacs cu. m
8.	Building :		
	(i) Residential Buildings	224 Nos. }	108
	(ii) Non-Residential Building	4 Nos. }	
9.	Procurement of Machinery	Rs 900 Lacs	83.87%

8.27. As per latest schedule the first unit will be commissioned during 1982-83, 2nd unit in 1983-84 and 3rd and 4th after 1983-84. Against a sum of Rs. 22.50 crores provided during the current year an outlay of Rs. 21.00 crores has been proposed for 1980-81 for the timely completion of the project. The major items of expenditure relate to procurement of T.G. sets and T&P Power Transformers, Civil Works regarding P.H.I. and II and Establishment charges. The details of outlay and expenditure up to date are given below :—

	(Rs in lakhs)
1. Estimated cost of the project—	
(i) Original cost ..	52,40.00
(ii) Latest estimated cost (Nov., 1979)	103,08.00
2. Expenditure up to the end of 1978-79 ..	33,58.07
3. Outlay 1979-80 ..	22,50.00
4. Spilt over requirement after 1979-80	46,99.93
5. Proposed outlay for 1980-81 ..	21,00.00

Mukerian Hydel Project—

8.28. Earlier it was proposed to install 3 units of 15 MW each and one unit of 17 MW at the 4 Power plants and the installed capacity was to be 62 MW, but the scope of the project has since been revised and enlarged. It is now proposed to install 6 units of 15 MW and another 6 units of 19.5 MW each. The project envisages construction of 4 Power plants on the hydel channel which will take off from the left bank of river Beas near Talwara Township utilising the total head of 265'. Letters of intent for these Units have already been placed on M/s BHEL. This project is very important for Punjab since the energy availability of this project would be 1177MU (gross) per year. During the current year, execution of civil works arranging machinery etc., are in progress.

8.29. The progress made in respect of the project up to September, 1979 is given as under:—

No.	Item	Unit/quantity	Achievement up to 9/79
1	2	3	4
1.	Preliminary Works:		
	(i) Laying of alignment	7 Kms	7 Kms.
2.	Land Acquisition	451 Acres	431 Acres
3.	Services :		
	(i) Electricity Supply	14 Kms	7 Kms
	(ii) Workshop .. Job		80%
	(iii) Plants .. Job		20%
4.	Drainage Works :		
	(i) RD 3204 M.	1 No.	15%
	(ii) RD 3660 M	1 No.	62%
5.	Hydel Channel :		
	(i) E/W excavation—2172000 RD 2652-877 8850 M.	lakh cu.m	607605 lakh cu.m
	(ii) C.C. Lining of RD 2652-877 except P.H.I.	293000 sq.m	32224 sq.m
6.	Power House Excavation		
	(i) Excavation pit of P.H. No. I up to S.S.L.L.	1.80 lakh cu.m	1.17 lakh cu.m
7.	Main Buildings :		
	(i) Residential Buildings	77 Nos.	51
	(ii) Non-Residential Buildings	30 Nos.	15
8.	Equipment :		
	(i) Machinery	Rs. 392.00 lakh	42.5%

8.30. As per latest assessment, one unit of Power House No. I is likely to be commissioned during 1982-83 and the remaining two units during 1983-84. The Commissioning schedule in respect of P.H.-II, III & IV has not been finalised.

8.31. An outlay of Rs. 12.00 crores has been proposed for the Annual Plan 1980-81 as against a sum of Rs. 10.00 crores provided during the current year. The proposed outlay would be utilised mainly for making advance payment to BHEL for the purchase of T.G. sets, E.O.T. cranes, and on civil works relating to Power House I & II and establishment charges. The details of outlay and expenditure up to date are given below:—

(Rs in lakhs)

1. Estimated cost of the project ..		
(i) Original cost ..	75,57.00	
(ii) Latest estimated cost (Nov., 1979)	1,21,31.00	
2. Expenditure up to the end of 1978-79 ..	5,18.14	
3. Outlay 1979-80 ..	10,00.00	
4. Spill over requirement after 1979-80	1,06,12.86	
5. Proposed outlay for 1980-81 ..	12,00.00	

UBDC Stage I :

8.32. Under this project 3 Power Houses of 15 MW capacity each have been commissioned but some protection/cross drainage works required for the protection of the Hydel Channel and Power plant had been left incomplete. An outlay of Rs. 3.00 lakhs has been proposed for taking up these works in 1980-81.

Participation in Hydro schemes of H.P. & J. and K.

8.33. The hydro resources of Punjab are limited whereas demand of Punjab is increasing rapidly. H.P. and J & K States have got vast untapped hydel potential, Govt. of India has not agreed for installation of Nuclear Power Plant in this region of the country. The only possible alternative is to participate in the exploitation of hydel potential of H.P. & J&K. Negotiations are going on with the J & K as well as the H.P. and it is anticipated that these would be finalised

soon. In the Annual Plan 1980-81 a small provision of Rs. 5.00 lakhs has been proposed for these schemes against a sum of Rs. 4.00 lakhs provided during the current year.

New Schemes :

8.34. The projection of availability of Power, taking into account of the Peak capacity of Punjab Power system from all resources and anticipated demand in future years reveal that Punjab will be facing deficit of Power towards the end of the 6th Plan period. To mitigate the Power shortage in future years, two new projects have been included in the 6th plan, namely, Guru Nanak Dev Thermal Plant Extension stage-II and Ropar Thermal Plant.

Ropar Thermal Project :

8.35. The Ropar Thermal Plant envisages the installation of five units of 210 MW each. To begin with, the Planning Commission, Govt. of India have cleared the proposal in July, 1979 for installation of two units of 210 MW each (Stage-I) at Ropar with subsequent extension of the project by 3 × 210 MWs in Stage-II. The cost of the scheme (Stage-I) has been envisaged at Rs. 168.00 crores. The first and second units are likely to be commissioned during 4/84 and 10/84 respectively. The coal supply for this project is also linked for the year 1984-85 and the Railways have also expressed that they will be able to move the coal for this project by 1984-85.

8.36. In the Sixth Five-Year Plan, an outlay of Rs. 110.00 crores has been provided for this project and the preliminary work has been initiated during the current year. An outlay of Rs. 10.44 crores is proposed for this project for 1980-81 which would be utilised mainly for making advance payments for the purchase of land, Turbo-generator, Boiler and auxiliaries, Electrical equipment and on Civil works and Establishment charges. The details of outlay and expenditure up to date are as under :—

(Rs in lakhs).

1. Estimated cost (Dec. 1978) ..	1,68,00.00
2. Expenditure up to 1978-79 ..	2.41
3. Outlay 1979-80 ..	90.00
4. Spill over requirement after 1979-80 ..	1,67,07.59
5. Proposed outlay for 1980-81 ..	1,044.00

G.N.D.T.P. Extension Stage-II—(Units V & VI) :

8.37. It envisages two additional units of 200 MW each. The projects awaits Central clearance and an outlay of Rs. 2.00 lakhs has been proposed as token provision for 1980-81.

8.38. Details regarding cost estimates, date of commencement, expected date of completion, status of the project, outlay for 1978-83, expenditure incurred upto the end of 1978-79, outlay 1979-80, spill over requirements after 1979-80 and proposed outlay for 1980-81 in respect of Multipurpose and Power projects are given in Annexure-I to this chapter.

Transmission and Distribution :

8.39. The transmission lines are the means to transmit Power from the Power plants to the Grid Sub-Stations and further the sub-transmission and distribution system help to carry the Power

to the consumers. Thus, transmission and distribution works are very essential and must keep pace with the generation. Inadequate transmission and distribution system results in poor voltage and increased losses. The consumers do not get Proper voltage and therefore suffer while the S.E.B. suffers because of higher losses. The development of transmission and distribution system has not kept pace with the expansion of generation facilities in the State because of various reasons including inadequacy of funds. This has been avoided in the Sixth Plan and a provision of Rs. 1,17,77.00 lakhs has been made for this purpose to match the anticipated additions to the generating capacity. Cost estimates, expenditure incurred upto 1978-79, outlay 1979-80, spill over requirements after 1979-80 and proposed outlay for 1980-81 in respect of the major transmission projects are indicated as under :—

(Rs in lakhs)					
Transmission Project	Latest estimated cost	Expenditure up to 1978-79	Outlay 1979-80	Spill over requirements after 1979-80	Outlay 1980-81
1	2	3	4	5	6
1. Beas Transmission—					
(i) B.C.B. ..	17,87.00 (Aug. 1979)	11,39.00	39.00*	09.00	26.00
(ii) P.S.E.B. ..	54,58.00	46,00.26	2,70.00	587.74	257.00
2. U.B.D.C. project ..	Under revision	7,26.78	62.00	..	51.00
3. Guru Nanak Dev Thermal Plant, Bhatinda ..	15,12.02 (Feb. 1975)	11,62.30	50.00	299.72	71.00
4. Guru Nanak Dev Thermal Plant, extension, Bhatinda ..	11,37.09 (Feb. 1977)	2,74.63	1,00.00	762.46	131.00
5. Shanan extension Project ..	5,92.00 (Feb. 1978)	1,65.64	67.00	359.36	33.00
6. 220 KV, 132 KV & 66 KV Transmission Works of 5th Plan connected with new schemes ..	58,60.79 (Oct. 1977)	6,23.84	8,65.00	43,71.95	698.00
7. Sub-transmission Works (33 KV) ..					
(a) Continuing ..	19,53.25 (June, 1977)	9,22.72	5,31.00	499.53	400.00
(b) New (connected with 6th Plan) ..	..	..	..	..	200.00
8. 220 KV, 132 KV & 66 KV Transmission works of 6th plan connected with new schemes (P.S.E.B.) ..	..	..	2,00.00	..	500.00
9. Transmission for Dehar extension project (B.C.B.) ..	..	..	3.00*	..	124.00

*Anticipated expenditure

(A) Continuing schemes :—**Beas Transmission projects :—**

8.40. The project (220 KV and above and 132 KV and below) provides for the transmission lines connected with the Beas project Unit-I (Dehar Power plant) and are meant for the evacuation of Power from the Power Plant, inter-connections with the existing grid and carrying the Power to the load centres and certain augmentation works. The works are of two kinds namely BCB common works and PSEB works (exclusive works).

(i) BCB Common Works (Transmission):—

8.41. These works consist of certain 220 KV and above lines which are common to 3 partners States namely Punjab, Haryana and Rajasthan. These works are being executed by the Beas Construction Board. As per decision of the Standing Committee of BCB, these works are to be shared in the ratio of 24.5%, 51.7% and 23.8% between Punjab, Haryana and Rajasthan respectively. As against the anticipated expenditure of Rs. 39.00 lakhs during 1979-80 an amount of Rs. 26.00 lakhs has been proposed for the year 1980-81 as per requirement of funds indicated by the BCB authorities.

(ii) PSEB Works:—

8.42. The works connected with the Beas Transmission project which are being executed by PSEB are of two types namely 220KV works and 132 KV and below works. The outlay proposed for 220 KV works during 1980-81 is Rs. 67 lakh and for 132 KV & 66 KV works, a sum of Rs. 190 lakhs is proposed during next year. Thus total requirement both for 220 KV and 132 KV and 66 KV works is Rs. 257 lakhs. Some of the important works to be taken up next years are given as under—

1. 220 KV Works:**(a) 220 KV Sub-stations**

- (i) Jamalpur
- (ii) Jullundur
- (iii) Jullundur (new)
- (iv) Verpal

(b) 220 KV lines

Jullundur-Amritsar lines

2. 132 KV Works:—**(a) 132 KV Sub-Stations**

- (i) Goraya
- (ii) Hoshiarpur 3rd T/F
- (iii) Nawanshahar-Buttari
- (iv) Verka
- (v) Patiala
- (vi) Ferozepur

(b) 132 KV Lines

- (i) Verpal-Verka

3. 66 KV Works:—**(a) 66 Kv Sub-Stations**

- (i) Barnala
- (ii) Patiala
- (iii) R/S Main Sub-station Jullundur

(b) 66 KV lines

Providing 2nd circuit of R/Main at Ludhiana.

8.43. The project for the transmission lines Beas Authority has since been revised and on the basis of this, the revised cost for the same comes to Rs. 69.71 crores (Tentative). As per present sharing, the cost of exclusive works for 220 KV for Punjab comes to Rs. 23.56 crores and for common work to Rs. 9.9 crores. Further the project report for 132 KV and 66 KV works relating to Punjab has also been revised and the revised cost of the project comes to Rs. 31.02 crores and for common works to Rs. 5.23 crores. Thus the cost of Beas works which are to be executed solely by Punjab State Electricity Board both for 220 KV works and 132 KV & 66 KV works comes to Rs. 54.58 crores. The details of the works to be taken up during 1980-81 are given in the Annexure II to this chapter.

8.44. The transmission lines of 132 KV & 66 KV, new substations and augmentation of various sub-stations provided in the transmission projects namely UBDC transmission project, GNDTP transmission project, Shanan Extension Transmission project and GNDTP Extension Transmission project and Bhakra Right Bank Transmission project are connected with the respective generating schemes. The works on all these projects is continuing since the last few years. The

transmission works are of an important nature since these are required to feed Power to the Load Centres. Due to non-availability of adequate funds it has not been possible to complete these works covered under these projects with the result that there has been a backlog and works are pending which were planned even five years back. It is, therefore, proposed to complete these pending works during 1980-81 and the outlay proposed for these transmission projects are as under :—

	(Rs. in lakhs)
(i) UBDC Trans. project ..	51.00
(ii) GNDTP Transmission project	71.00
(iii) Shanan Extension Trans. project	33.00
(iv) GNDTP Extension Trans. Project	131.000
(v) Bhakra Right Bank Project ..	9.00
Total ..	295.00

8.45. The details of transmission works of which the above funds would be spent are given in Annexure III (a) to III(e).

(B) New Schemes :—

220 KV, 132 KV & 66 KV Transmission works of 5th Plan connected with New schemes

(i) 220 KV Lines and Substations :

8.46. The project report for 220 KV, 132 KV and 66 KV transmission system connected with the fifth plan schemes has since been cleared by the Central Electricity Authority. Some of the important 220 KV/132 KV works to be continued/being undertaken during 1980-81 are given here under :—

1. 220 KV Sarna-Batala Verpal Line.
2. 220 KV Tee-off lines for Malerkotla, Chandigarh (SAS Nagar) and Lalton Kalan and installation of 220 KV S/S at Chandigarh, Malerkotla and Lalton Kalan.
3. 220 KV Ganguwal-Patiala lines and S/S at Patiala.
4. 220 KV S/S Verpal (Augmentation).
5. 132 KV S/S at Kartarpur, Sultanpur, Sri Hargobindpur, Doraha, Khasa, Banga, Baghapurana Jalalabad, Mahalpur etc.

and 132 KV Transmission lines and these S/Ss.

8.47. To undertake the above mentioned works an outlay of Rs. 698.00 lakhs has been proposed for the year 1980-81. The details of these works may be seen at Annexure-IV to this chapter. **220/132/66 KV Transmission works of the 6th Plan connected with New schemes**

8.48. The project estimates for the Transmission works relate to Generation Schemes such as Anandpur Sahib and Mukerian etc. are in the process of finalisation. Moreover, certain works which have not yet been identified and are required to be undertaken immediately on technical grounds have been proposed under this scheme for outlay of Rs. 500.00 lakhs has been proposed for these works for 1980-81. The details of the works to be taken next year are given in Annexure V to this chapter.

8.49. The BCB Authorities propose to undertake some transmission works for the evacuation of Power from Dehar extension units. During the plan discussion for the year 1979-80 in the Planning Commission it was assured that no expenditure will be incurred by BCB authorities on this scheme till the project report is finalised and sharing of the cost amongst the partner states is decided. An outlay of Rs. 124.00 lakhs has however, been provided for this scheme at the instance of BCB for the year 1980-81.

(C) Improvement of transmission and distribution system and reduction of losses in Punjab :—

8.50. The energy losses in Punjab excluding the Nangal Fertilizer factory and other common pool consumers for the year 1968-69 to 1978-79 have been worked out and are given below :—

	<i>Year</i>	<i>Punjab</i>
	1968-69	.. 34.9%
	1969-70	.. 32.52%
	1970-71	.. 29.4%
	1971-72	.. 29.1%
	1972-73	.. 29.67%
	1973-74	.. 24.71%
	1974-75	.. 23.96%
	1975-76	.. 21.79%
	1976-77	.. 24.38%
	1977-78	.. 21.53%
	1978-79	.. 21.25%

8.51. The exclusive energy losses are attributed to the following factors :—

- (i) Over loading of the transmission system.
- (ii) Excessive length of 11 KV distribution lines and inadequate size of the conductor.
- (iii) Excessive length of LT Lines and inadequate conductor size and improper loading of distribution transformers.
- (iv) Low Power factor of the system and also at the consumer premises.
- (v) Theft of energy.
- (vi) Flat rate for tubewells and installation of un-authorized higher capacity motors.

8.52. The P.S.E.B. during the last 3-4 years has undertaken a number of remedial measures on account of which it has been able to bring down the energy losses from 29.67 per cent (1972-73) to 21.25 per cent (1978-79). The slight increase in losses during 1976-77 is due to 100 per cent electrification of villages completed in a short period.

8.53. The above mentioned improvement in energy losses has been achieved by adopting various remedial measures, which are proposed to be continued to further reduce the losses during 1980-81.

8.54. For the year 1978-79 a sum of Rs. 166.21 lakhs have been spent on the improvement schemes. For the year 1979-80, plan outlay of Rs. 320.00 lakhs including R.E.C assistance has been provided. An outlay of Rs. 400.00 lakhs have been proposed for this programme in the Annual plan 1980-81 as under :—

		(Rs. in lakhs)
1.	Improvement of system (Transmission & distribution)	25
2.	System Improvement Schemes—	
	REC	240
	Plan	135
	Total	400

Improvement of Transmission and Distribution System :—

8.55. As a number of 132 KV, 66KV and 33KV Sub-stations are coming up, it is absolutely essential to provide 11 KV link lines from the new Grid Sub-stations to the existing Sub-Stations. Further in certain cases augmentation of the conductors is also required to be done. It is also proposed to replace the copper conductors with aluminium conductors. Improvement in the LD system and augmentation of the distribution system and LT lines is required for improving the voltage and continuity of supply. It is due to this reason that the funds as above have been proposed.

2. System Improvement Schemes

8.56. Under these schemes there are two types of works namely (i) System Improvement Schemes which have been submitted to REC and (ii) System Improvement Schemes which are sponsored from the State Plan. The funds required for these schemes for 1980-81 are proposed as under :—

		(Rs. in lakhs)
From REC (Including LT. capacitor Schemes)	..	240
From Plan	..	135
Total	..	375

8.57. It may be mentioned that 21 system improvement schemes have been approved by REC and the works on the schemes already approved will continue.

D. Sub-Transmission lines (33 KV) and Sub-Stations (Continuing works)

8.58. These works comprised of construction of 33 KV transmission lines and sub-stations, which are not covered under the above Transmission projects. These 33 KV Sub-stations serve as links between the main transmission Sub-stations and the consumers Sub-stations at 11 KV voltage. A number of 33 KV Sub-stations have been planned and are under execution where as some new Sub-stations have to

come up in the rural areas. Unless the 33 KV Substations are completed and brought in position as planned, it would not be possible to meet the requirements of tubewells and other industrial connections in the rural and urban areas. The completion of the Substations would also help in reduction of distribution losses. A separate project report for Rs. 19.05 crores for the 33 KV works has been prepared by the SEB on the advice of CEA. During the year 1979-80 a sum of Rs. 531.00 lakhs has been provided for these works. An outlay of Rs. 400 lakhs has been proposed to complete the important 33KV lines and Substations. The details of the works to be taken up in 1980-81 may be seen at Annexure VI to this chapter.

New Works (connected with Sixth Plan)

8.59. An outlay of Rs. 200.00 lakhs has been proposed for 33 KV transmission lines and

Substations (New) for the year 1980-81. The details of the works to be taken up during the year may be seen at Annexure VII to this chapter.

E. Normal Development Works :

8.60. The normal development works include giving of general (domestic and commercial) and industrial connections, erection of new L.T. and H.T. lines, distribution substations and augmentation thereof. The information showing achievements under Normal Development Works (General and Industrial connections) up to 1977-78, Target Sixth Plan 1978-83, Achievement during 1978-79, target and likely achievement during 1979-80 and target for 1980-81 are given below :—

Serial No.	Particulars	Achievement up to 1977-78	Sixth Plan 1978-83 Target	Achievement during 1978-79	1979-80		1980-81 Target
					Target	Likely achievement	
1	2	3	4	5	6	7	8
1	General connections ..	13,30,346	6,95,000	1,48,273	1,25,000	1,25,000	1,40,000
2	Industrial connections ..	42,558	15,500	4,189	3,000	3,000	3,000

8.61. There were about 43,500 pending applications for general connections and 7,400 applications for industrial connections as on 31st August, 1979. Besides, a large number of industrial units are being set up at Focal Points Mohali, Rajpura and Dhandari Kalan and their requirements are also to be catered for. An outlay of Rs. 950.00 lakhs has been proposed for these works in the annual plan 1980-81 as against a sum of Rs. 700.00 provided during 1979-80. The break-up of the proposed outlay is given in the following table :

(Rs. in lakhs)		
Serial No.-	Item	Amount
(i)	Providing 1,40,000 general connections @ Rs. 200 each ..	280.00
(ii)	Providing Industrial connections—	
	(a) 50 Nos. Large Supply connections @ Rs. 35,000 each ..	17.50

(b)	150 Nos. M.S. connections @ Rs. 25,000 each ..	37.50
(c)	2,800 small Power connections @ Rs. 4,000 each ..	112.00
(iii)	Providing 11 KV lines 1,000 KMs. @ Rs. 12,000 K.M. ..	120.00
(iv)	Providing L.T. lines 2000 Kms. @ Rs. 12,000 each ..	240.00
(v)	Providing 1,000 Nos. Distribution Substations @ Rs. 10,000 each ..	100.00
(vi)	Electrification of urban estates ..	15.00
(vii)	Providing Street lights ..	12.00
(viii)	Electrification of Harijan Basties	3.60
(ix)	General equipment T. & P. etc.	20.40
	Total ..	958.00

Rural Electrification :

8.62. Punjab is the second State in the country to have electrified the entire—12,188 inhabited villages on 10th May, 1976. The work of rural electrification covers up —

- (a) Electrification of villages.
- (b) Providing General and Industrial connections to village.
- (c) Energisation of tubewells.

8.63. Now that all the villages have been electrified at least in a formal sense, the next step is to intensify and improve use of Power in rural areas. Similarly, more impetus has now to be laid on the energisation of more tubewells in the coming years in order to boost the agricultural production.

8.64. The funds for rural electrification are at present being provided from two sources, namely, from REC and from State Plan. The REC funds can only be spent against the sanctioned schemes areas approved by the REC and are meant for giving connections both general and industrial and also for the energisation of tubewells in the schemes areas, whereas the plan funds are spent for the energisation of tubewells in the non-REC areas or the areas which are already electrified and are known as reticulated areas.

8.65. For giving additional tubewell connections, additional funds are required which would not be available from REC and have to be made available from other sources. This is due to

the fact that a large part of Punjab already stands electrified and is not covered by REC schemes. The villages in this area were electrified before the formation of REC and also from the funds allocated during the last few years from the State Plans from time to time. As a large number of villages already stand electrified in the non-REC areas, the number of pending applications for tubewells is extremely large in this area as compared to the area covered by REC schemes. It is, therefore, necessary to provide for the additional requirements of tubewell loads in the non-REC areas to a much greater extent.

Energisation of Tubewells :

8.66. There were about 88,961 pending tubewells applications (as on 30th September, 1979) and more applicants are coming in. It is proposed to energise 28,000 tubewells during 1980-81. It is proposed to cover 9,000 tubewells with funds provided through REC schemes and 19,000 tubewells from State Plan resources during 1980-81.

8.67. As against the provision of Rs. 470.00 lakhs through REC schemes and Rs. 985.00 lakhs from State Plan resources during 1979-80 an outlay of Rs. 426.00 lakhs through REC schemes and Rs. 890.00 lakhs for State Plan resources are proposed for 1980-81 for rural electrification works. The achievements under rural electrification programme up to 1977-78, achievements during 1978-79, target and anticipated achievements during 1979-80 and target for 1980-81 are shown in the table below :—

Serial No.	Item	Achievement upto 1977-78	Achievement 1978-79	1978-83 target	1979-80		1980-81 target	
					Target	Anticipated Achievement		
1	2	3	4	5	6	7	8	
1	Villages electrified	..	All the villages have been electrified as on	10th May, 1976				
2	Tubewells/Pump sets energised	..	1,96,515	36,670	1,46,000	30,000	30,000	28,000

G. Investigation :

8-68. To meet with the ever growing power demand of Punjab all possible new schemes of power generation should be tapped in the shortest possible time. It is, therefore, essential that detailed investigations for all the possible new schemes are taken up in hand. Unless more schemes are prepared and undertaken during 6th and 7th Plans, Punjab will be faced with power deficit in that period.

8-69. The following schemes are proposed to be investigated during 1980-81 :—

- (1) Investigation of Goindwal Sahib Hydel Schemes.
- (2) Investigation of UBDC Hydel scheme stage IV.
- (3) Investigation of micro Hydel schemes on various Canals falls.
- (4) Investigation of Anandpur Hydel Scheme Stage III.
- (5) Investigation of Anandpur Sahib Hydel Scheme Stage IV.
- (6) Investigation of schemes in the neighbouring States for collaboration.

8-70. An outlay of Rs. 20.00 lakhs is proposed for investigation of schemes during 1980-81 at the current year's level.

H. Research Station :

8-71. Research work on power is being undertaken by SEB under the auspices of CBI

& P. In view of the large scale power development envisaged in 6th & 7th Plans, responsibility and task for the research unit has increased manifold and therefore, it has been decided to upgrade the research unit of SEB to the level of a Research Station. For this purpose additional land is to be acquired, new buildings are to be constructed, adequate laboratories are to be set up, necessary equipment and instruments are to be purchased and other facilities have to be provided for this Research Station. An outlay of Rs. 18.00 lakhs for this purpose is proposed for the year 1980-81 as against Rs. 15.00 lakhs likely to be incurred during 1979-80.

Load Despatch Centre :

8-72. The necessity of running of the power system on integrated basis has already been recognised. The State of Punjab is covered under one of the regions viz. Northern Region which also includes other States like Rajasthan, Haryana, H.P., etc. It is proposed to have a regional load despatch centre at Delhi under the auspices of Northern Regional Electricity Board. For achieving close co-ordination within constituent States of the region, State Load Despatch Centres are to be set up in each State. Such a Centre in the State of Punjab is being set up at Patiala at a cost of Rs. 361.00 lakhs. As against the anticipated expenditure of Rs. 30.00 lakhs during the current year an outlay of Rs. 62.00 lakhs is proposed for this Centre in the year 1980-81.

Information regarding cost estimates, date of completion, status and details of

Serial No.	Project/Scheme	Capacity (MW)	Latest estimated cost	Date of commencement
1	2	3	4	5
1	Beas Project Unit—I	.. 4 × 165 = 660	*17262.00 (March, 1978)	1959-60
2	Beas Project Unit—I (Extension)	.. 2 × 165 = 330	*2837.00 (Feb., 1978)	..
3	Beas Project Unit—II	.. 4 × 60 = 240	*1520.00 (Jan., 1978)	1959-60
4	Beas Project Unit—II (Extension)	.. 2 × 60 = 120	*848.00 (Feb., 1978)	..
5	Guru Nanak Dev Thermal Plant Extension Units—III & IV	.. 2 × 110 = 220	7115.00 (1978)	1974
6	Shanan Renovation Project Units—I, II, III & IV	.. 4 × 6 = 24	749.00 (Sept., 1976)	December, 1972
7	Shanan Extension Project	.. 50	1814.00 (Nov., 1979)	February, 1976
8	Anandpur Sahib Hydel Project	.. 4 × 33.5 = 134	10308.00 (Nov., 1979)	April, 1974
9	Mukerian Hydel Project	.. 6 × 15 = 90 6 × 19.5 = 117 Total=207	12131.00 (Nov., 1979)	..
10	Thein Dam	.. 4 × 120 = 480	26316.00 (May, 1978)	1978-79
11	Shahpur Kandi	.. 2 × 47 = 94	6836.00	..
12	G. N.D. T. P. Extension Units—V & VI	.. 2 × 200 = 400	Under sanction	1978-79
13	Ropar Thermal Project Stage—I	.. 2 × 210 = 420	16800.00 (Dec., 1978)	..

*Punjab Share.

**Anticipated expenditure.

expenditure for Power Projects

(Rs. in lakhs)

Scheduled date of completion	Status of Project	Outlay 1978-83	Expendi- ture upto the end of 1978-79	Outlay 1979-80	Spill- over after 1979-80	Purposed outlay 1980-81
6	7	8	9	10	11	12
Units I & II—1977-78 Units III & IV—1979-80	Stands cleared from G.O.I.	1641.00	16285.87	302.00**	674.13	106.00
After 1982-83	Do	1596.00	179.90	269.00**	2388.10	530.00
Units I & II—1977-78 Units III & IV—1978-79	Do	83.00	1476.70	18.00**	25.30	13.00
After 1982-83	Do	179.09	23.27	50.00**	774.73	39.00
Units III & IV—1978-79	Do	1370.00	6156.55	400.00	558.45	126.00
February, 1981	Do	402.00	474.68	137.00	137.32	71.00
1981-82	Do	594.00	1195.83	200.00	418.17	306.00
Unit I—1982-83 Units II—1983-84 Units III & IV—After 1983-84	Technically cleared	6160.00	3358.07	2250.00	46,99.93	2400.00
PH—I Unit I—3/83 Unit II—6/83 Unit III—9/83 PH II, III & IV Schedule not fixed Not fixed	Do	4870.00	518.14	1000.00	10612.86	1200.00
Not fixed	.. G.O.I. sanction awaited	520.00	—	20.00	26296.00	10.00
Not fixed	..	6.00	0.31	1.00	6834.69	1.00
Not fixed	Do	11732.18	0.50	10.00	..	2.00
1984-85	Stands cleared from Govt. of India		2.41	90.00	16707.59	1044.00

ANNEXURE II

Detailed List of works proposed to be carried out during 1980-81 in respect of Beas Project
(P.S.E.B. Works)

OUTLAY FOR 1980-81

(Rs in lacs)

Serial No.	Name of Work	Total
1	2	3
A. 220 KV Works		
(a) 220 KV Sub-stations		
1	Jamalpur	0.55
2	Jullundur	10.50
3	Jullundur (New)	40.00
4	Verpal	16.00
(b) 220 KV Lines		
1	Jullundur-Amritsar Line	0.10
Total		67.15
B. 132 KV Works		
(a) 132 KV Sub-stations		
1	Goraya	8.25
2	Hoshiarpur 3rd T/F	7.10
3	Nawanshahr	10.50
4	Buttari	7.50
5	Batala (New)	4.50
6	Verka	8.10
7	2.5 MVAR C/Bank Kapurthala	3.10
8	Tarn Taran (Aug.)	16.00
9	Patiala	9.70
10	Ferozepur (Aug.)	6.00
11	Kotkapura (Bay)	1.50
12	Jagraon	0.50
13	Abohar	1.00
14	Mukatsar	1.00
15	Moga	0.50
16	Gobindgarh	0.50
17	Samrala	3.10
18	Ropar	3.57
19	Malout	0.50
20	Jullundur (existing)	3.00
(b) 132 KV Lines		
1	Verpal-Verka	0.10
Total		96.42

Serial No.	Name of work	Total
1	2	3
C. 66 KV Works		
(a) 66 KV Substations		
1	Barnala	4.50
2	Rajpura	0.30
3	Malerkotla	3.00
4	Dhuri	2.00
5	Patiala	4.20
6	Adda Dakha	2.00
7	Bahadurgarh	0.55
8	R/S Main Substation, Jullundur	15.65
9	R/M S/Station Ludhiana	11.25
10	Providing C/Banks for various works	2.10
(b) 66 KV Lines		
1	Providing 2nd circuit of R/Main at Ludhiana	6.00
	Total	51.55
	(i) Providing PLC equipment	15.38
	(ii) Providing T & P articles	4.70
	Grand Total	235.20
	Establishment	22.00
	Grand Total	257.20 Say 257 lacs.

ANNEXURE—III (a)

Detailed List of Works proposed to be carried out during 1980-81 in respect of U.B.D.C. Project

OUTLAY FOR 1980-81

Serial No.	Name of work	Amount (Rs. in Lacs)
A. 132 KV Works		
(a) 132 KV Sub-stations		
1	Nakodar	4.25
2	Bhogpur	2.50
3	Gurdaspur	5.50
4	Sarna	0.35
5	Patti	5.00
6	Fetehgarh Churian	3.00
7	Acquisition of land at 132 KV Sub-stations—	
	Bhogpur	
	Gurdaspur	1.00
	Total	21.60
B. 66 KV Works		
(a) 66 KV Sub-stations		
1	K.S. Mali (Aug.)	0.80
2	Udhonangal	2.10
3	Dina Nagar	3.00
4	Ajnala	4.50
5	Galri	2.60
6	Narot Jaimal Singh	2.10
7	Kahnuwan	1.50
8	Ramdas	1.00
9	Qadian	1.10
10	Shri Hargobind Pur	0.50
(b) 66 KV Llines		
1	Diversion at Gurdaspur	0.10
	Total	19.30
	Providing PLC Equipment	4.90
	Providing T. & P. articles	0.70
	Total	46.50
	Establishment	4.46
	Grand Total	50.91 (Say Rs. 51 lacs)

ANNEXURE—III (b)

Detailed list of works proposed to be carried out during 1980-81 in respect of GNDTP Transmission Project

OUTLAY FOR 1980-81

Serial No.	Name of Works	Amount (Rs. in Lacs)
A. 132 KV Works		
(a) 132 KV Sub-stations		
1	132 KV Sub-station, Tawandi Bhai (Bay for Dagrū & Khesadal Singh)	4.00
2	Ludhuka	0.47
3	Samrala	0.49
4	Bhadaur	0.29
5	Kharar	6.65
6	Mansa	3.00
7	Gobindgarh	7.00
8	Ropar	2.00
	Total	23.90
B. 66 KV Works		
(a) 66 KV Sub-stations		
1	Bhadson	1.50
2	Moonak	1.00
3	Lahragaga	2.50
4	Bassi Pathana	2.05
5	Sunam	3.50
6	Jarg	1.00
7	Sirhind	3.00
8	Banur	1.70
9	Lalru	3.00
10	Chaurwala	2.00
11	Rajpura, F.P.	1.95
12	Devigarh	1.80
13	Khanna	3.50
14	Bhawanigarh	0.30
15	Patran	1.50
16	Bhadaur	0.50
17	Rampura Phul	0.50
18	Rama Mandi	1.00
19	Talwandi Sabo	0.50
20	Laduke	1.00

(Rs in LaCs)

Serial No.	Name of Works	Amount
21	Hambran	0.50
22	Ahemdgarh	1.50
	Total	35.80
	(i) Providing PLC Equipment	3.25
	(ii) Providing T.&P. articles	2.00
	Total	64.95
	Establishment	6.17
	Grand Total	71.12 (Say Rs. 71.00 lacs)

ANNEXURE—III (c)

Detailed List of Works proposed to be carried out during 1980-81 in respect of Shanan Extension Project

OUTLAY FOR 1980-81

Serial No.	Name of work	Amount (Rs in Lacs)
A. 132 KV WORKS		
(a) 132 KV Sub-stations		
1	Pathankot	7.60
2	Gurdaspur	2.00
3	Kharar	0.06
(b) 132 KV Lines		
1	Hoshiarpur-Hamirpur	5.00
	Total	14.66
B. 66 KV Works		
(a) 66 KV Sub-stations		
1	Sahnewal	0.60
2	Mohali F.P.	2.57
3	Morinda	2.67
4	Sidhwan Bet	0.80
5	Ajitwal	0.20
6	Majitha	4.00
7	Narangwal	0.50
8	Providing Terminal Tower at Shanan	0.10
	Total	11.44
	(i) Providing PLC Equipment	3.80
	Total	29.90
	Establishment	2.84
	Grand Total	32.74 (Say Rs. 33,00 lacs)

ANNEXURE (d)

Detailed List of Works proposed to be carried out during 1980-81 in respect of GNDTP (Extension) Project.

OUTLAY FOR 1980-81

(Rs in lakhs)

Serial No.	Name of works	Total
A. 220 KV WORKS		
(a) 220 KV Substations		
1	Muktsar	59.00
(b) 220 KV Lines		
1	Inter-linking Bhatinda-Muktsar Line at 220 KV Substation Muktsar	3.00
Total		62.00
B. 132 KV WORKS		
(a) 132 KV Substations		
1	Naraingarh	7.50
2	Dhariwal	3.25
3	Providing shunt capacitor at 132 KV Substation Muktsar	2.00
(b) 132 KV Lines		
1	Verpal-Naraingarh	0.20
2	D/C inter-linking line between 132 KV and 220 KV S/S Muktsar	7.50
3	Muktsar-Ferozepur	5.00
Total		25.45
C. 66 KV WORKS		
(a) 66 KV Substations		
1	Ghanaur	2.50
2	Chawa	2.50
3	Katron	2.00
4	Longowal	1.50
5	Mehal Kalan	1.00
6	Aliwal	1.10
7	Udhanwal	2.55
8	Udhonangal	0.10
9	Sujanpur	2.75
10	Kalanaur	1.60
11	Dera Baba Nanak	0.85
12	Bahadurgarh	0.05
Total		18.50
(i) Providing PLC equipment		
		13.25
(ii) Providing T & P articles		
		0.80
Grand Total		120.00
Establishment		11.00
Grand Total		131.00

ANNEXURE—III(e)

Detailed List of Works proposed to be carried out during 1980-81 in respect of Bhakra Right Bank Project.

OUT LAY FOR 1980-81

(Rs in lacs)

Serial No.	Name of work	Total
A. 132 KV WORKS		
(a) 132 KV Substations		
1	Phagwara	1.10
(b) 132 KV Lines		
1	Verpal-Tarn Taran	0.10
2	Diversion at Phagwara	0.05
	Total (a + b)	1.25
B. 66 KV WORKS		
(a) 66 KV Substations		
1	Nabha	3.50
2	Samana	0.50
3	Raikot	1.50
	Total	5.50
C. Providing PLC equipment		
	Total	7.75
	Establishment	0.75
	Grand Total	8.50
		Say 9.00 lacs.

ANNEXURE IV

Detailed List of Works proposed to be carried out during 1980-81 in respect of 220/132/66 KV Transmission Works of 5th Plan connected with New Schemes

OUT LAY FOR 1980-81

(Rs in lacs)

Serial No.	Name of Works	Total
A . 220 KV WORKS		
(a) 220 KV Sub-stations		
1.	Verpal (Aug.)	70.00
2.	Patiala	62.05
3.	Malerkotla	65.00
4.	Chandigarh	73.50
5.	Lalton Kalan	60.00
(b) 220 KV Lines		
1.	Sarna-Batala	54.00
2.	Batala-Verpal	50.00
3.	Ganguwal-Patiala	60.00
4.	Tee-Off line at 220 KV S/Stn. Lalton Kalan from Jamalpur Bhatinda Line	1.00
5.	Diversion of 220 KV Ganguwal-Abdulpur line at 220 KV S/S, SAS Nagar	1.00
6.	Tee-Off line for 220 KV S/S Malerkotla from Jamalpur-Sangrur D/C Line	2.00
7.	Prov. 220 KV Bay at Ganguwal for 220 KV Ganguwal-Patiala line	12.00
Total		511.00
B. 132 KV WORKS		
(a) 132 KV Sub-stations		
1.	Kartarpur	4.50
2.	Sultanpur	27.50
3.	Patti (Aug.)	0.20
4.	Shri Hargobindpur	28.50
5.	Doraha	3.25
6.	Kharar	0.20
7.	Banga	20.00
8.	Bagha Purana	25.00
9.	Jalalabad	6.10
10.	Mahalpur	4.00
11.	Samrala (Ghulal)	0.25
12.	Ropar	0.10
13.	Sultanpur Bay at Kapurthala	3.75

(b) 132 KV Lines

1. Tee-off for Banga S/Station	..	2.00
2. Link lines at Verpal Batala and Sarna ends	..	6.00
3. Batala S. Hargobindpur	..	0.20
4. Kapurthala-Sultanpur	..	6.00
5. Batala- K.S. Mali	..	15.00
6. Tee-Off line at Baghapurana from Moga-Muktsar Line	..	0.50
7. Tee-off Kartarpur S/Station	..	0.10
Total	..	<u>153.15</u>

C. 66 KV WORKS**(a) 66 KV Substations**

1 Gobindgarh (F.P.)	..	16.00
2 Patran (Aug)	..	4.00
3 Bahadurgarh (Aug.)	..	2.00
4 Mohali Phase VII	..	5.50
5 Passiana (Bay for Balwara)	..	9.00
6 Bhandari Kalan	..	4.00
7 Badhli (Sampla)	..	8.60
8 Jogaralla	..	2.25
9 Kohara	..	2.76
10 Rajpura (E.P.)	..	0.24
11 Giaspur	..	9.00
12 Patjala (Add. inter-linking bay)	..	5.10
13 Sangrur (Bay for Patran)	..	2.00
14 Rupana	..	4.00
15 Dhanaula	..	2.00
16 Chubal	..	5.00
17 Manochal	..	6.00
18 Tarn Taran (F.P.)	..	3.00
19 Majra	..	4.40
20 Gaunsgarh	..	2.00
21 Bhari	..	2.07

(b) 66 KV Lines

1 220 KV S/S Patiala-Bahadurgarh	..	1.00
2 Sangrur-Patran (2nd Circuit)	..	4.00
3 Mohali Phase VII-220 KV S/S Chandigarh	..	1.00
4 Mohali i. f. p. S/Stations-220-KV S/S Chandigarh	..	1.00
Total	..	<u>105.92</u>

(i) Acquisition of Land for the work falls under this project	..	17.50
(ii) Providing PLC Equipment	..	14.35
(iii) T & P articles	..	15.50
Grand Total	..	<u>817.42</u>
Estt.	..	<u>77.61</u>
Total	..	<u>895.03</u>
Say	..	<u>895.00</u> lacs.

The expenditure will be restricted to Rs. 698 lacs

ANNEXURE—V

Detailed list of Works proposed to be carried out during 1980-81 in respect of 220/132/66 KV Transmission Works of the 6th Plan connected with new schemes

OUT LAY FOR 1980-81

(Rs. in Lacs)

Serial No.	Name of work	Total
I. 220 KV WORKS		
(a) 220 KV Sub Stations		
1	Sarna	63.00
2	Batala	107.00
	Total	172.00
II. 132 KV WORKS		
(a) 132 KV Sub Stations		
1	Kotli Surat Mali	32.50
2	Nurmehal	26.00
3	Fategarh Churian (Aug)	13.00
4	Bay at Ropar S/S for controlling Anandpur-Ropar line from Anandpur Hydel Project PH-II	3.00
(b) 132 KV Lines		
1	Nawanshahar-Goraya	38.00
2	Goraya-Nurmahal	30.00
3	Link line connecting 220 KV S/Station Batala with 132 KV S/Station, Batala	10.00
4	D/C line from PH-I to PH-II at Anandpur Sahib	7.00
5	S/C Line from PH-II to Ropar	8.00
6	D/C Line from Ph-II to Nawanshahar	60.00
7	Bhogpur-Mukerian PH-4	50.00
8	S/C Jullundur-Bhogpur	40.00
9	S.H. Pur to PH-No. 4 Mukerian	30.00
10	Survey & Stacking of Dasuya-PH No. 4 Mukerian	0.12
11	Survey & Stacking of Dasuya Shri Hargobindpur to PH No. 4 Mukerian	0.33
12	Survey & Stacking of Bhogpur-Dasuya Line	0.35
	Total	348.30
III. 66 KV WORKS		
(a) 66 KV Sub Stations		
1	Maloud	9.00
2	Rai Majra	11.50
3	Amloh	10.00
4	Amargarh	5.00
5	Rahpura	2.50
6	Romi	10.00
7	Tanda	2.00

(Rs in lacks)

Serial No.	Name of work	Total
8	Tibber	9.50
9	Talwara	4.00
10	Tarn Taran F.P.	14.00
11	Ghuman	6.00
12	Kala -Afgana	10.50
13	Begowal (New)	3.00
(B) 66 KV Lines		
1	Gurdaspur-Khanuwan for Tibber	1.00
2	K.S. Mali-Kala Afgana	5.00
3	Malerkotla-Maloud	5.00
4	Tee-Off line at Rai Majra from Patiala Sangrur Line	1.00
5	Interlinking line between 220 KV S/S Lalton Kalan and 66 KV R/M Gail Road and Sherpur Line, Ludhiana	5.00
6	Interlinking line between 220 KV S/S Lalton Kalan and Gill Road, Perozepur Road R/M S/Stn. Ludhiana	5.00
7	Patran-Badshahpur	5.00
8	Doraha-Sahnewal (2nd Circuit)	2.00
9	Tee-Off line at Amlah from Gobindgarh-Bhadson Line	1.00
10	Malerkotla-Kalyan Line (Sandhor)	3.00
11	Tea-Off line at Romi	1.00
Total		131.50
(i) Providing PLC Equipment		7.50
(ii) Providing I &P articles		5.20
Total		664.50
Establishment		63.16
Grand Total		727.66
Say Rs.		728.00 lacs

The expenditure will be restricted to Rs. 500.00 lack.

ANNEXURE - VI

Detailed List of continuing Works proposed to be carried out during 1980-81 in respect of 33 KV Sub-station and Transmission Lines

OUTLAY FOR 1980-81

(Rs. in lacs)

Serial No	Name of Work	Total
I. 33 KV WORKS		
(A) 33 KV Sub-stations		
1	Mall Mandi R/Main Amritsar	2.60
2	OCM R/Main Amritsar	4.10
3	Khassa	10.00
4	Nawanpind	3.10
5	Civil Line R/M Amritsar	1.30
6	Attari	2.10
7	Tut	4.10
8	Harsa Chinna	10.50
9	Amarkot	5.00
10	Dunera	5.25
11	Phillaur	0.60
12	Sugar Mill Phagwara	10.20
13	Mukandpur	1.20
14	Rurka Kalan	8.00
15	Dhilwan	7.10
16	Mehatpur	8.00
17	Alawalpur	8.25
18	Shahkot	0.70
19	Tanda	2.00
20	Malsian	0.20
21	Balachaur (Aug)	5.00
22	Nurpur	2.50
23	Raipur	9.00
24	Kurali	2.23
25	Arniwala	2.00
26	Bhucho	1.50
27	Dharamkot	0.50
28	Kasubegu (Joke-Harihar)	1.00
29	Guru Har Sahai	2.00
30	Sarai Naga	1.26
31	Jaito	0.50

Serial No.	Name of work	Total
32	Smalsar	1.00
33	Faridkot	7.00
34	Anandpur Sahib	3.00
35	Bharatgarh	2.50
36	Chamkaur Sahib	0.50
37	Machhiwara	0.90
38	Khamanoo	2.23
39	Amargarh	0.20
40	Cheema	1.50
41	Udhowal	2.50
42	Sitogana	12.00
43	Bareta	3.00
44	Bhagfa	1.00
45	Bajakhana	1.00
46	Sangha	1.00
47	Jhuncer	3.00
48	Lambi	2.00
49	Fatehgarh Panjtoor	1.00
50	Ferozeshah	0.20
51	Nathana	0.70
52	Mamdot	5.80
53	Makhu	0.20
54	Malanwala	5.20
55	Khuian Khera	0.80
56	Khuian Sarwar	0.80
57	Pakhawal	0.10
58	Hamira	0.40
59	Mukerian	0.10
60	Miani	3.50
61	Jaijon Doaba	4.76
62	Thata Tibba	3.10
63	Lohian	2.70
64	Sultanpur	1.10
65	Nurmehal	2.00
66	Bholath	0.60
67	Rahon	5.00
68	Behram	0.60

(Rs. in lacs)

Serial No.	Name of Work	Total
69	Sham Churasj	1.50
70	Aur	0.40
71	Abadgarh	2.60
72	Chola Sahib	2.00
73	Harike	5.00
74	Bhikhiwind	6.00
75	Dhar	1.00
76	Adampur	0.10
77	Kathunangal	3.00
78	Jan diala Guru	7.00
79	Nagoke	2.00
80	Beas	4.00
81	Chogawan	3.00
82	Gohana Jattan	0.40
83	Sathiala	4.00
84	Gohalwar	3.00
85	Begowal	4.00
86	Khera Dona	4.00
87	Talwandi Madho	3.50
88	Ucha Pind	5.00
89	Bullowal	3.50
90	Gurdaspur	2.00
91	Balachaur	0.50
92	Fathanwal	0.80
93	Chaheru	3.00
94	R/ M S/Stn. at Bhatinda	24.00
95	Toppa	4.00
96	R/M Dabwali Road Bhatinda	4.00
97	R/M Malout Road Bhatinda	3.00
98	R/M Barnala Road Bhatinda	4.00
99	Sangrur	1.00
100	Kot Fatuhi	1.00
101	Nadala	3.00
102	Rajowa	1.50
103	Saila Khurd	1.50
104	Dosanj Kalan	1.50
105	Bham	1.50

Serial No.	Name of work	Total
106	Jadala	1.50
107	Hoshiarpur F.P.	1.00
108	Amarpura	14.00
109	Pukhrali	5.05
110	Sadiq	2.00
111	Chabal	1.50
112	Hakima Gali Amritsar	3.00
113	Ghuman	3.00
114	Fatehbad	3.50
115	Sardulgarh (Aug)	5.25
116	Jokh harihar	0.29
117	Sangat	6.00
118	Sandhwan	2.00
119	Moga P.P.	10.00
120	Zira	5.00
121	Gidarbaha (Aug)	5.00
122	Guri-Sangar (Feeding bay at Srail Naga)	6.50
123	Dharamkot	0.20
124	Guru Har Sahai	8.00
125	Patto Hira Singh	0.40
126	Bagha Purana	2.00
127	Bhagta	0.10
128	Moga (Bay to Bhatinda Kalan)	0.10
129	Bhatinda (Aug.)	10.00
	Total	421.38
(B) 33 KV Lines		
1	Bhatinda-Kotshamir	4.00
2	Kapurthala-Sultanpur	0.50
3	Dasuya-Mukerian	0.50
4	Phagwara City-Sugar Mill S/Stn.	2.00
5	Dhariwal-Naushera Maja Singh	0.50
6	Dasuya-Gardhiwala	0.50
7	Sugar Mill S/S-Phagwara to Chahera	2.50
8	Abohar-Sitogana	3.00
9	Nawanshahr-Banga	0.50
10	Ropar-Pukhrali	3.00
11	Bhatinda City Barnala Rd. S/S Bhatinda (Ringmain around Bhatinda)	3.00

Serial No.	Name of work	Total
12	Moga-F.P. S/Stn. Moga	1.00
13	Bhatinda-Sangat	0.50
14	Moga-Badhari Kalan	0.50
15	T-off at Bhikhi from Mansa Chima	0.50
16	T-off at Sandhwan from Kotkapura Faridkot Line	0.50
17	R/Main round Amritsar	5.00
18	C/B at various S/Stns. Acquisition of land for various works	4.50
19	Ganguwal to Nangal Line	0.50
20	Sarai Naga Guri-Sanga	0.50
	Total	33.50
	T & P Articles	2.25
	Total	457.13
	Establishment	43.41
	Grand Total	500.54
		Say Rs. 500 lacs

The expenditure will be restricted to Rs 400 laos.

ANNEXURE VII

Detailed List of Works proposed to be carried out during 1980-81 in respect of 33 KV Trans. Works (6th Plan)
OUTLAY FOR 1980-81

(Rs. in lacs)

Serial No.	Name of work	Total
I. 33 KV WORKS		
(a) 33 KV Substations		
1.	Bagowal	7.00
2.	Bham	7.00
3.	Dusanjh Kalan	8.00
4.	Chabal	7.00
5.	Gohalwar	5.00
6.	Hoshiarpur F. P.	7.00
7.	Hakiman Gate	10.00
8.	Jaspal	10.50
9.	Jhakpur Kalan	8.00
10.	Khera Dona	3.50
11.	Kot Mit Singh	16.00
12.	Nadala	8.00
13.	Nathuchal	8.00
14.	Rajowal	8.00
15.	Sarhali Khurd	5.00
16.	Saila Khurd	7.00
17.	Talwandi Madho	7.00
18.	Ucha Pind	7.0
9.	Chaheru	7.00
20.	Shahkot	1.00
21.	Alawalpur (Aug.)	1.00
	Total	148.00
(b) 33 KV Lines		
1.	Tee-off Verpal-Mandi for Kot Mit Singh	5.00
2.	Verpal-Gohajwar	0.50
3.	Kapurthala-Sultanpur for Khera Dona	1.50
4.	Verpal-OCM for Hakema Gate	3.00
5.	T-off existing Patti-Tarn Taran for Sarhali Khurd	1.50
6.	Butari-Jaspal	4.00
7.	Kapurthala-Ucha Pind	3.11
8.	Kartarpur-Nadala	5.00
9.	Goraya-Dossanjh Kalan	4.00
10.	Tee-off existing Kapurthala-addl. for Nathuchal	1.00
11.	Nurmahal-Rajowal	5.00
12.	Lohiani-Jokopur Kalan	4.00
13.	Mahilpur-Saila Khurd	4.00
14.	Mahilpur-Bham	5.00
15.	Hoshiarpur-Chabal	5.00

(Rs. in lacs)

Serial No.	Name of work	Total (in lacs)
16.	Sultanpur-Talwandi Madho	1.80
17.	Nakodar-Malsian (Duplicate)	5.00
18.	Acquisition of land for various works	10.00
19.	C/Bank at various works	3.00
	Total	71.41
20.	PSEB Colony, Ludhiana	20.00
21.	Power Colony Majitha Road, Amritsar	12.00
22.	PSEB Colony, Hoshiarpur	5.00
	Grand Total	256.41
	Establishment	24.32
	Grand Total	280.73
	Say Rs.	281.00 lacs

The expenditure will be restricted to Rs. 200 lakhs.

CHAPTER IX

Industry and Minerals

The state of economy in the State of Punjab has reached a stage where sustained accelerated progress calls for a more diversified approach and greater emphasis on industrial development. In the past, it was mainly through the enterprise of the people, and the availability of some agricultural raw materials that the small scale industrial units were set up in the State. This was despite the locational disadvantages of the sources of raw materials which were brought from long distances and finished goods sent back again for marketing. The medium and large scale units have also not been growing in keeping with the needs, aspirations and availability of skill in the State. There is, little doubt that henceforth industry must increasingly take the lead for further development of the economy. This awareness was reflected in the March, 1978, Statement of Industrial Policy. The Plan Programmes of industrial development for 1979-80, were conceived in the light of this statement which visualised, *inter alia*, the following :—

- (i) A net work of village and small industries so as to cover all the villages in the next five years ;
- (ii) sustained growth of small scale industries with special emphasis on tiny units so as to create maximum employment ;
- (iii) medium and large industrial units which are agro-based to the maximum extent possible;
- (iv) attracting the maximum number of industrialists and small entrepreneurs for setting up industries with special incentives for non-resident Indians
- (v) maximum export of the State's industrial products : and
- (vi) continuous upgrading of technology in industry.

9.2. In 1976-77, the total number of small scale units was 43,030 and their number rose to 45,644 in 1977-78 and to 49,381 in 1978-79. Similarly the number of village industries units which was 32,756 in 1976-77 rose to 33,949 in 1977-78 and 37,549 in 1978-79. The large scale units in the same period rose from 160 in 1976-77 to 188 in 1978-79. The number of industrial connections increased from 37,097 in 1976-77 to 46,747 by the end of 1978-79. The consumption of industrial power increased from 792.32 million units in 1976-77 to 1345.00 million units in 1978-79. The production also rose from Rs. 568.90 crores in 1976-77 to Rs. 747.00 crores at current prices in 1978-79, in the small scale sector.

9.3. The Plan proposals for 1980-81 are broadly continuation of the programmes framed and taken up in 1979-80, in order to fulfil the above mentioned objectives. This will go in the direction of promoting private investment in the field of industry, though some direct investments are also contemplated which are mostly of a pioneering nature. During the year 1978-79, an amount of Rs. 1139.93 lakhs, had been spent in this sector. The anticipated expenditure during the year 1979-80 is estimated at Rs. 1192.00 lakhs. For 1980-81, a sum of Rs. 1281.00 lakhs has been provided which comprises of Rs. 918.00 lakhs for the Large and Medium Industries, Rs. 360.00 lakhs for Village and Small Scale Sector and Rs. 3.00 lakhs for Mines and Minerals. The schemes falling under the Large and Medium Sector are enlisted in Annexure-I to the Chapter. The major programmes for 1980-81 are discussed below :—

Industrial Finance

9.4. The Punjab Financial Corporation is the main term lending institution in the State and provides loans to new industrial concerns as well as to the existing industrial concerns for their expansion and modernisation. During 1978-79, sanctions accounted for a sum of Rs. 891.00 lakhs and disbursement was of the order of Rs. 526.65 lakhs to 158 parties. During 1979-80,

it is estimated that sanctions will be of the order of Rs. 920.00 lakhs and disbursement of Rs. 575.00 lakhs. The targets for 1980-81 are for sanctions of the order of Rs. 950.00 lakhs and disbursement of the order of Rs. 600.00 lakhs. During 1978-79, a sum of Rs. 47.50 lakhs was invested as equity in the Corporation and in 1979-80, a sum of Rs. 38.00 lakhs will be invested. An equal amount will be provided by the IDBI in accordance with the established pattern. No investment is proposed for 1980-81.

Investment in Public Undertakings

9.5. The Punjab State Industrial Development Corporation promotes suitable projects in the large and medium sector and also acts as financial institution in the provision of assistance to projects promoted by the private entrepreneurs in the form of term loans and direct investments in equity to make-up the promoter's capital. The Corporation has received letters of intents/industrial licences for 51 projects so far. By the end of the year 1977-78, 20 projects promoted by the Corporation involving a capital outlay of Rs. 29.34 crores went into production. During 1978-79, 3 more projects went into production involving an investment of Rs. 15.65 crores. During 1979-80, the Corporation proposes to bring another six projects into production involving an investment of Rs. 32.65 crores. The six projects are namely, Punjab Khand Udyog Ltd., Sugar Mills, Zira, Punjab Khand Udyog Ltd., Sugar Mills, Gurdaspur, Punjab Maize Products Ltd., Sangrur, Steel Strips Ltd. Kup, District Sangrur, Punjab Ceramics, Bhatinda and Bagrian Shoes Ltd.

9.6. Under the schemes for financing of the IDBI, PSIDC has already sanctioned loans to the tune of Rs. 298.12 lakhs in 1978-79. A sum of Rs. 474.00 lakhs was invested in this Corporation in 1978-79 and a sum of Rs. 470.00 lakhs is anticipated to be invested during the current year. It is proposed to earmark Rs. 470.00 lakhs to be invested in 11 projects out of which 7 projects are likely to be completed during the year 1981-82. Details of the projects are added as Annexure-II to the Chapter.

9.7. The Punjab State Small Industries Corporation undertakes procurement and distribution

of raw materials, creates infrastructural facilities such as development of industrial focal points, construction of sheds, provides machinery on hire purchase basis, renders consultancy services, grant seeds money, runs emporia and trade centres. During 1977-78, the turn over of the Corporation was Rs. 1502.20 lakhs and during 1978-79, it is estimated to be Rs. 2,387.05 lakhs. An outlay of Rs. 35.00 lakhs has been provided for the year 1979-80. It is proposed to invest a sum of Rs. 14.00 lakhs in this corporation during 1980-81.

9.8. The Punjab State Electronics Development and Production Corporation has promoted 5 companies, 3 of which have successfully completed the first phase of development. They are expected to go into production by the end of 1979-80 or in early 1980-81. Besides, the corporation has developed electronic township at S.A.S. Nagar under the name of ELTOP and so far 81 plots have been allotted in this township to prospective entrepreneurs. A sum of Rs. 15.00 lakhs will be invested during the current year and an investment of Rs. 30.00 lakhs is proposed for the year 1980-81.

9.9. The Punjab State Handloom and Textile Development Corporation has set up 5 Handloom Weavers Complexes, built-up marketing infrastructure for the handloom weavers and taken steps to set up a cotton waste spinning plant at Nakodar. A shoddy spinning plant for the supply of shoddy yarn to the weavers and two powerloom complexes one each at S.A.S. Nagar and Amritsar are also being set up. A sum of Rs. 8.00 lakhs is likely to be invested in 1979-80 and it is proposed to invest Rs. 9.00 lakhs during 1980-81.

9.10. The Punjab State Hosiery and Knitwear Corporation will provide technical, marketing, common facilities and export assistance to the hosiery and knitwear industries. It is establishing a woollen dyeing and finishing plant in collaboration with UNDP. The Corporation will promote new technology suited to local conditions. A sum of Rs. 32.28 lakhs has already been advanced to the corporation as share capital in the Fifth Plan period. Another sum of Rs. 30.00 lakhs had been provided in 1978-79, and also Rs. 12.00 lakhs in 1979-80. It is proposed to invest a further sum of Rs. 16.00 lakhs during 1980-81. It is anticipated that this plant will start operation from January, 1980.

Small-Scale Industries Programmes

9.11 An outlay of Rs. 220.31 lakhs was incurred on this minor head during 1978-79 and a sum of Rs. 183.08 lakhs has been provided for the year 1979-80. An amount of Rs. 231.60 lakhs is proposed to be expended in the year 1980-81. The Credit Facilities Scheme is proposed at Rs 10.00 lakhs, its outlay is being reduced gradually. The objectives of this scheme will ultimately be fulfilled by Interest Subsidy scheme for which an outlay of Rs. 5.00 lakhs is also proposed. The scheme has been introduced from the current year to enable small and tiny units to utilise funds from financial institutions. The rate of interest subsidy has been limited to 4%.

9.12. The small-scale units in most cases are carrying on with outmoded technology. The work for creating common facility services/testing facilities was speeded-up during 1979-80. The buildings of Industrial Development Centre (Plastic Moulds) Ludhiana, IDC (Engg), Bhatinda, IDC (Gear Grinding), Batala, IDC (Rubber Goods), Jullundur, IDC (Agriculture Implements), Hoshiarpur and IDC (Paints and Varnish) Amritsar are almost complete and that of IDC (Role Grinding), Gobindgarh will be completed by the end of 1979-80. All these centres would start functioning in full swing during the financial year 1979-80. A sum of Rs. 15.25 lakhs has been provided for these centres during 1979-80 and Rs. 9.00 lakhs is proposed for 1980-81. Similarly buildings for the QMCs Electronics at Ludhiana and Engineering at Rajpura, Bhatinda and Moga have been completed, machinery installed and the centres have started functioning. A sum of Rs. 4.91 lakhs is provided for 1979-80 and Rs. 5.00 lakhs is proposed for 1980-81 for running these centres.

9.13. The Sewing Machine Development Centre, Ludhiana has been tentatively included under the UNDP Programme and its project report is under consideration. A sum of Rs. 5.00 lakhs has been proposed for these centre during 1980-81. The building for Tool Room, Ludhiana being set-up by Government of India with FRG aid for assisting the SSI units in designing/manufacturing good quality

jigs and fixtures will be completed by the end of 1979-80. Some appointments of the requisite Indian and German staff have been made and it is hoped that the initiating phase will start with operation of the Tool Room by the end of 1979-80. A provision of Rs. 7.00 lakhs is proposed for the completion of the building for the year 1980-81. Similarly the building for the Hand Tools Design Institute, Jullundur to be set-up by the Government of India is also making progress. Most of the building work will be completed during 1980-81. A sum of Rs. 5.00 lakhs was provided during 1979-80 and Rs. 8.00 lakhs is proposed for 1980-81.

9.14. The building for the Punjab Test House is making progress. The Test House has already been started functioning in another building and is rendering testing facilities to industrial units. An amount of Rs. 8.00 lakhs is proposed for 1980-81. The Machine Tool Design and Development Centre, Batala will be taken up for implementation during 1980-81. Its project report prepared by the consultants is being finalised. Only a token provision of Rs. 0.50 lakh has been proposed for 1980-81. Land for the Centre has already been acquired. A sum of Rs. 8.00 lakhs has been proposed for 1980-81 for the scheme, Modernisation of Small Scale Industries. Under this scheme, reports are prepared for the modernisation of selected units by the Consultants after diagnostic studies and incentives are provided for the implementation of the report.

9.15 The building for the Electronics Testing & Development Laboratory at S.A.S. Nagar has been completed. The laboratory will shift to this building by the end of 1979-80 from its rented building where it has already started functioning. A provision of Rs. 8.00 lakhs is proposed for 1980-81.

9.16 The outlay for the programme of Leather Industry is provided at Rs. 21.30 lakhs for 1979-80 and Rs. 15.00 lakhs is proposed for 1980-81. The programme is for the continuation/completion of the work taken up during the Fifth Plan period. It included the setting up of 3 Hide Flaying and Carcass Utilisation Centres, the establishment of Light Leather Development Centre at Amritsar for providing tanning of light leather required for the sports industry.

9.17 The establishment of District Industries Centres in all the districts of the State is a programme in line with the guidelines of the Central Government. These Centres will provide all services under one roof to the decentralised industrial sector at pre-investment, investment and post-investment stages. Seven such centres have already been set up and the remaining five districts would be covered during the current year. The expenditure on these centres is to be shared equally by the State and Centre Government. The total outlay proposed for these centres is Rs. 72.00 lakhs out of which 50% amount, Rs 36.00 lakhs has been proposed in the State Plan.

9.18 The Sports Goods Industry, which is very suitable for development in the small scale sector, is concentrated at Jullundur. It is proposed to set up a Sports Goods Complex there on the basis of the feasibility study undertaken by the Trade Development Authority. A provision of Rs. 3.50 lakhs has been proposed for the year, 1980-81, for taking up this project. Provision has also been proposed for a Surgical Complex, Jullundur at Rs. 3.50 lakhs.

9.19 Schemes for promoting the employment of the unemployed engineers, and the educated unemployed, and the qualified technicians and skilled workers are also proposed to continue during the year 1980-81. These schemes include training for self-employment, promotion of self-employment through seed or margin money assistance, supply of machinery on hire purchase basis and construction of workshops. The employment promotion programme is being implemented under the State Plan from the financial year 1975-76 onwards. The provision for the implementation of these schemes is proposed at Rs. 28.00 lakhs for 1980-81.

Industrial Estates/Areas/Incentive to New Industries.

9.20 This scheme aims at integrated development of large, medium and small scale industrial units by providing infrastructural and other facilities. Under the scheme land is acquired by the Department of Industries and transferred to PSSIC for development of infra-structural facilities. Plots of varying sizes are carved out and are

allotted to the intending entrepreneurs. These focal points have been completed/started at 20 places. Land acquired/developed, number of plots carved out, allotted, industrial units in production and approximate employment generated is given in Annexure-III to the Chapter. The provision for main components proposed for the year, 1980-81 is, Rs. 181.00 lakhs for acquisition of land, Rs. 35.00 lakhs for loan to PSSIC for the development of acquired land and Rs. 145.00 lakhs for Interest Free loans. The provision for various types of incentives announced under the Industrial Policy of the State has also been made under this scheme. This includes land at subsidised rates, grant of interest free loans, concession of electricity tariff on power based industries, loans for feasibility reports, investment loans etc.

Handloom/Textile Industries.

9.21 There are about 20,500 handlooms employing 34,000 persons. The plan programme includes interest free loans for margin money, marketing assistance, regular supply of inputs at reasonable prices, modernisation, setting up of training-cum-production centres in sub-mountain areas, provisions of sheds to weavers, training of weavers and rebate on sale of handloom cloth. The Plan provision for the year, 1979-80 is Rs. 12.00 lakhs and an amount of Rs. 10.00 lakhs has been proposed for 1980-81.

Village Industries.

9.22 The Integrated Rural Development Programme is being implemented in collaboration with the Punjab Khadi and Village Industries Board. During 1978-79, it is estimated that employment for 10,000 persons was created in 3783 units and financial assistance of the order of Rs. 32.87 lakhs was rendered. During 1979-80, a sum of Rs. 40.00 lakhs is provided for setting up 1,815 village industries/units and 1,900 small scale industrial units in the rural areas. The provision for 1980-81 is proposed at Rs. 45.00 lakhs and targets for village industries units to be set up is 2,500 and for small-scale industries units in rural areas is 2,300.

Handicrafts Industries.

9.23 The programme of supply of improved appliances, study tours of master craftsmen, celebration of All India Handicrafts Week and training cum-production in carpet weaving, leather embroidery, toy making, fancy leather and artistic furniture will be undertaken. The marketing of handicrafts is undertaken by PSSIC. The Corporation is also taking a hand in the development of handicrafts and carpet weaving training centres. The scheme was earlier implemented under Centrally sponsored schemes. Against the provision of Rs. 3.53 lakhs, provided for this minor head for the year 1979-80 an amount of Rs. 34.00 lakhs is proposed for 1980-81.

Sericulture.

9.24 An outlay of Rs. 5.16 lakhs was provided for the year 1979-80 for the sericulture programme. This includes, the establishment of one sericulture farm in the border areas, three sericulture farms in the sub-mountane areas, three extension centres in sub-mountane areas and the construction of grainage building at Dunera. Besides, subsidy to the selected silkworm rearers, one sericulture farm in the border areas, one sericulture farm in the sub-mountane areas, and two extension centres in the sub-mountane areas will also be set up. The provision for this programme is proposed at Rs. 6.00 lakhs for 1980-81.

Statistics.

9.25 It is necessary to fill certain gaps in information for example, with regard to production data. As a sequel to the revised policy with regard to the registration of small-scale units, returns containing varied information have to be provided to the Government of India at specified intervals. Accordingly, provision for 1979-80 has been made at Rs. 0.42 lakh and for 1980-81 an amount of Rs. 0.40 lakh is proposed.

Mines and Minerals.

9.26 Punjab has no known reserves of important minerals. Accordingly only a modest provision of Rs. 5.00 lakhs has been made for

1979-80 for mineral exploration, geo-technical survey and completion of the building of the Geological Laboratory. An amount of Rs. 3.00 lakhs has been proposed for 1980-81.

Weights and Measures.

9.27 A sum of Rs. 3.00 lakhs has been proposed for the year 1980-81 for the enforcement of the Weights & Measures Act. The provision for 1979-80 is provided at Rs. 3.00 lakhs. The provisions has been made for the purchase of machinery and equipment, construction of laboratory building, staff for enforcing the provision with regard to the taxi-fare meters, clinical meters, water meters, weights and measures used in post offices and new miscellaneous trades.

9.28 Minor-Headwise summary of Plan allocation for the year 1980-81 is as follows :—

(Rs. in lakhs)

Minor Head	Proposed Provision
1. Industrial and Financial Institutions	1.00
2. Investment in Public Undertakings ..	539.00
3. Direction and Administration ..	2.00
4. Small Scale Industries ..	231.60
5. Industrial Areas/Incentives to New Industries ..	406.00
6. Handloom Industries ..	10.00
7. Village Industries ..	45.00
8. Handicrafts Industries ..	34.00
9. Sericulture ..	6.00
10. Statistics ..	0.40
11. Mines and Minerals ..	3.00
12. Weights and Measures ..	3.00
Total	1,281.00

ANNEXURE I

LARGE AND MEDIUM SECTOR SCHEMES

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80		Proposed outlay (1980-81)		
			Approved outlay	Anticipated expenditure	Total	Of which capital content	
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
IN 1-1. Strengthening of PFC	.. 85.50	47.50	38.00	38.00	38.00	—	—
IN 1-2. Investment in I.F.C.I.	.. 15.00	—	1.00	1.00	1.00	1.00	1.00
IN 2-1. Punjab State Indl. Dev. Corporation	.. 2304.00	474.00	470.00	470.00	470.00	470.00	470.00
IN 2-3. Punjab State Electronics Development and Production Corporation	.. 105.00	30.00	15.00	15.00	15.00	30.00	30.00
IN 4-16. Electronic Testing and Development Laboratory at SAS Nagar, District Ropar	.. 58.00	12.33	8.00	8.00	4.00	8.00	—
IN 5-1. Industrial Estates/Incentives to new Industries	.. 1713.84	224.06	359.00	359.00	348.00	406.00	402.00
IN 12-1. Implementation of Weights & Measures Act	.. 9.76	2.57	3.00	3.00	1.00	3.00	1.50
Total	.. 4291.10	790.46	894.00	894.00	877.00	918.00	904.50

PROJECTS OF PUNJAB STATE INDUSTRIAL DEVELOPMENT CORPORATION LIMITED

Serial No.	Name of the Company/ Project	Annual capacity	Status of the Project	Date of start	Expected date of completion	Latest Cost Estimates		
						Total Cost	Equity including Central Subsidy	Debt
1	2	3	4	5	6	7	8	9
1	Punjab Power Products Ltd.	Power capacitors 1 Lac KVAR	LI : Obtained FC : Finalised CG : To be applied for	1980	Early 1981	70.00	30.00	40.00
2	Malwa Cotton Spinning Mills Limited	25,000 spindles	R : Obtained FC : NA CG : NA	1980	End of 1981	700.00	260.00	440.00
3	Punjab Alkalies Ltd.	Caustic Soda 33,000 TPA	LI : Obtained FC : NA CG : Cleared	1980	1982	2052.00	684.00	1368.00
4	ABP Circuit Breakers Limited	Mini Circuit Breakers 8 lac Nos.	LI : NA FC : Finalised CG : To be applied for	1980	1981	30.00	15.00	15.00
5	Punjab Engineering Cutting Tools Ltd.	25,000 Nos. Broaches 5,000 Nos. Milling Cutters	R : Obtained FC : NA CG : NA FIC : Finalised	1980	Early 1982	40.00	18.00	27.00
6	Punjab National Fertilizer and Chemicals Limited	Soda Ash 6,000 TPA Ammonium Chloride 66,000 TPA	LI : Obtained FC : NA CG : Obtained FIC : Finalised	1980	Early 1982	3100.00	775.00	2325.00
7	Furfural	3,000 TPA	LI : Obtained FC : Finalised CG : Application filed FIC : Finalised	1980	1982	672.35	250.00	422.35
8	Spinning Mills, Hoshiarpur	50,000 spindles	R : Obtained FC : NA CG : NA FIC : Finalised	1980	1981	1200.00	450.00	750.00
9	Polyster Fibre	6,000 TPA	LI : Obtained FC : Being finalised CG : Being applied for FIC : Finalised	1980	1983	3500.00	1300.00	2200.00
10	Portable Electric Tools	33,500 Nos. TPA	LI : Obtained FC : Approved CG : To be applied for FIC : Finalised	1980	End of 1981	121.00	48.40	72.60
11	Punjab Tyres Limited	Tyres & Tubes 5 lac Nos. P.A.	LI : Ind. Licence obtained CG : Cleared FC : Not finalised	1981	1983	2500.00	1000.00	1500.00
12	Paper Plant	9,000 TPA	LI : NA FC : NA CG : To be applied for FIC : To be decided	1981	1983	600.00	250.00	350.00
13	Nylon-6 Filament Yarn	2,100 TPA	LI : Obtained FC : NA CG : Applied for FIC : To be decided	1981	1982	1400.00	550.00	850.00

(Rs. in lakhs)

Name of the Collaborator	If Joint Sector	Equity Capital Contribution by Government							Total Five Year Plan 1978-83	Employment Details	
		Extent of partici- pation	Equity to be provided by Govt. (PSIDC)	Upto 1977- 78	1978- 79	1979- 80	1980- 81	1981- 82		1982 83	During Const- ruction	During Opera- tion
10	11	12	13	14	15	16	17	18	19	20	21
Public	N.A.	25.00	—	—	5.00	20.00	—	—	25.00	30	62
Public	NA	245.00	3.01	9.00	15.00	100.00	117.99	—	64.00	500	1035
Public	NA	340.00	5.00	5.00	50.00	100.00	100.00	80.00	340.00	200	400
M/s Abrol Engg. Co.	50%	7.50	0.01	—	—	2.50	4.99	—	7.49	75	150
S. Jasbir Singh Dhillon, Mana- ging Partner, General Tools, Patiala	50%	9.00	—	0.01	4.99	4.00	—	—	9.00	75	104
M/s PNB Finance Ltd.	25%	300.00	10.00	7.50	50.00	90.00	100.00	42.50	300.00	300	600
Mr C.L. Anand	25%	25.00	—	—	—	5.00	20.00	—	25.00	1500	3000
M/s DCM Ltd.	25%	45.00	—	—	—	30.00	15.00	—	45.00	1000	2000
M/s Gagneshwar Limited	25%	340.00	—	—	—	50.00	75.00	215.00	340.00	300	600
Shri A. N. Goenka	25%	12.80	—	—	—	5.00	7.80	—	12.80	100	150
Public Sector	NA	1000.00	5.50	—	—	—	—	—	—	1000	2000
Not decided	NA	62.40	—	—	—	—	—	—	—	75	150
Do	NA	143.00	—	—	—	—	—	—	—	250	500

Serial No.	Name of the Company/ Project	Annual Capacity	Status of the Project	Date of start	Expected date of completion	Latest Cost Estimates		
						Total Cost	Equity including Central Subsidy	Debt
1	2	3	4	5	6	7	8	9
14	Cellular Concrete	500 Cubic Metres per day	LI : NA FC } Not yet CG } FIC }	1981	1983	1000.00	400.00	600.00
15	Axle Shafts	5 Lacs Nos.	LI : Obtained FC : Not finalised CG : To be applied for FIC : To be decided.	1981	1982	175.00	70.00	105.00
16	Relays & Switches	1 M. Pes	LI : Obtained FC } CG } Not yet FIC }	1981	1982	100.00	40.00	60.00
17	Industrial Alcohol	20 K1/Day	LI : Obtained FC } CG } NA FIC }	1981	1982	100.00	30.00	70.00
18	Rice Husk Portable Board	45000 TPA	Under investigation	1981	1982-83	100.00	35.00	65.00
19	Industrial Chains	1 M. Mtrs.	LI : Obtained FC : CG : } Not yet FIC }	1981	1982	280.00	60.00	220.00
20	Pb. Pure Glass Industries Limited	Glass Bottles 12,000 TPA	LI : Obtained FC : N.A. CG : Obtained FIC - Finalised	1981	1982	290.00	116.00	174.00
21	Clutch Facings	32 Lacs. Nos.	LI : Obtained FC : To be finalised CG : To be applied for FIC : Not finalised	1982	1983	192.00	76.80	115.20
22	Electronic Wrist Watches	1 Lac Nos.	R : Obtained FC : CG : } Not yet FIC : }	1981	1982	20.00	8.00	12.00
23	Textile Mills (Patiala & Dhoomwali)	50,000 25,000 Spindles	Ditto	..	..	1,800.00	720.00	1,080.00
24	Mini Computers	..	LI : Obtained FC : CG : } Not yet FIC : }	..	..	..	..	..
25	Ashmoh Cement	..	Under Investigation	..	..	..	..	..
26	Acetic Acid	..	Under Investigation	..	..	..	..	..
27	Woollen Yarn	..	R : Obtained FC, CG, FIC : Not yet	..	..	..	..	..
28	Pharmaceuticals (Coffein etc.)	..	Under Investigation	..	..	..	..	..
29	Sewing Machine Needles	..	Ditto	..	..	..	..	..
30	Power Alcohol	..	Ditto	..	..	..	..	..
31	Industrial Sewing Machines	..	LI : Obtained FC, CG FIC : Not yet	..	..	..	..	..

Note.— 1. LI : Letter of Intent
2. R : Registration.
3. FC : Foreign Collaboration.
4. CG : Capital Goods Clearance.
5. FIC : Financial Collaboration.

(Rs. in lakhs)

If Joint Sector		Equity Capital Contribution by Government							Employment Details		
Name of the Collaborator	Extent of participation	Equity to be provided by Govt. (PSIDC)	Upto 1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	Total Five Year Plan 1978-83	During Construction	During Operation
10	11	12	13	14	15	16	17	18	19	20	21
Not decided	NA	200.00	..	..	..	..	..	..	..	250	500
Do	N.A.	17.50	..	..	..	..	..	..	..	100	150
Do	N.A.	20.00	..	..	..	23.50	39.22	42.50	115.22	100	150
Public Sector	N.A.	30.00	..	..	..	..	..	..	..	100	150
Public Sector	N.A.	35.00	..	..	..	..	..	..	..	1000	150
Not decided	N.A.	29.00	..	..	..	..	..	..	..	150	250
M/s Pure Drinks New Delhi	25%	30.00	5.06	..	0.20	..	..	..	0.20	150	250
Not decided	..	20.00	..	..	..	..	..	..	..	100	150
Do	..	8.00	..	..	..	..	..	..	..	50	100
Do	..	72.00 (10%)	..	..	..	..	..	..	..	1000	3000

	..	..	..	..	..	40.00	30.00	50.00	130.00	..	..

Industrial Areas Already Developed and Under Development

Up to the end of 1978-79

Serial No.	Location	Land acquired in acres	Land developed in acres	No. of plots developed	No. of plots allotted	No. of plots un-allotted	Industrial units in production	No. of persons employed
1	2	3	4	5	6	7	8	9
1	S.A.S. Nagar	1198	1195	438	422	16	90	3000
2	Dhandari Kalan	1383	1007	369	367	2	86	2800
3	Rajpura	178	178	127	105	22	29	1200
4	Hoshiarpur	102	102	78	32	46	4	400
5	Khanna	105	105	164	33	131	..	..
6	Moga	108	100	214	170	44	..	..
7	Kot Kapura	53.80	53.80	109	35	74	..	..
8	Bhatinda	91	32	38	33	5	..	..
9	Nawanshahr	51	51	100	26	74	..	..
10	Sangrur	60	60	133	24	109	..	..
11	Nabha	52	52	104	..	104	..	..
12	Tarn Taran	51	51	98	45	53	..	..
13	Jullundur	105	..	..	..	..	..	..
14	Batala	104	..	..	..	..	..	..
15	Ahmedgarh	..	..	..	..	..	..	..
16	Amritsar	..	..	..	..	..	..	..
17	Abohar	47.26	..	..	..	..	..	..
18	Malout	..	..	..	..	..	..	..
19	Malerkotla	100	..	..	..	..	..	..
20	Phagwara	..	..	..	..	..	..	To be taken
Total		3789.06	2986.80	1972	1292	680	209	7400

II

Progressive)

Likely achievement up to the end of 1979-80					Targets for 1980-81				
Land acquired	Land developed	Plots carved	Plots allotted	Plots unallotted	Land acquired	Land developed	Plots carved	Plots available for allot- ment	
10	11	12	13	14	15	16	17	18	
1198	1195	438	418	20	1298	1245	488	70	
1383	1007	369	367	2	1383	1007	369	2	
178	178	127	105	22	178	178	127	22	
102	102	78	32	46	102	102	78	46	
105	105	164	33	131	105	105	164	131	
108	100	214	170	44	108	100	214	44	
53·80	53·80	109	35	74	53·80	53·80	109	74	
91	32	38	33	5	91	32	38	5	
51	51	100	26	74	51	51	100	74	
60	60	133	24	109	60	60	133	109	
52	52	104	..	104	52	52	104	104	
51	51	98	45	53	51	51	98	53	
214	214	155	7	148	314	264	205	198	
104	104	94	..	94	104	104	94	94	
..	..	..	..	..	70	70	100	100
..	..	..	..	..	100	50	60	60
52	52	94	..	94	52	52	94	94	
..	..	..	..	..	50	50	100	100
Entire under-developed land has been allotted					100	50	120	120	
up in 1981-82									
3802·80	3356·80	2315	1295	1020	4322·80	3676·80	2795	1500	

CHAPTER X

Transport and Tourism

In the field of transport and communications, the State Plan is mainly concerned with roads and road transport. There is a small provision for civil aviation, largely for training purposes. Following the established practice, development of Tourism has been included in this sector.

ROADS AND BRIDGES

10.2. In a predominantly agricultural state, with large surpluses of farm produce, village roads are an essential component of the rural infrastructure. A 'Crash Programme' for village roads was launched in the Fourth Five-Year Plan and an expenditure of Rs. 49.48 crores was incurred on roads under this programme. The road kilometreage at the end of Fourth Plan increased to 22,258 kms. (excluding N.H.) from 7,278 during 1968-69. The length of National Highways increased from 515 kms. during 1968-69 to 964 kms. during 1973-74. Hence the total road length including National Highways in the State as on 31st March, 1974, was 23,222 kms.

Fifth Plan Progress

10.3. During the Fifth Plan period (1974-78), a sum of Rs. 39.63 crores was incurred on the programme against an outlay of Rs. 49.70 crores. The total road length constructed during this period was 5,334 kms. bringing the total road length from 23,222 kms. at the end of 1973-74 to 28,556 kms. at the end of 1977-78. Main achievements of road kilometreage of different kinds of roads at the end of Fourth Plan and at the beginning of the Sixth Plan are as under :—

Serial No.	Item	Position as on	
		1973-74	1977-78
0	1	2	3
		(Kms.)	
1	National Highways	964	964
2	State Highways	1,862	1,900
3	Major District Roads	2,076	2,100

	0	1	2	3
4	Other District Roads		2,335	2,346
5	Village Roads (including Marketing Committee Roads)		15,985	21,246
	Total Roads		23,222	28,556

Plan Performance 1978-79

10.4. A sum of Rs. 20.00 crores was originally earmarked for the sub-head 'Roads & Bridges' which was later on revised to Rs. 18.50 crores due to revision of State Plan. The actual expenditure incurred was Rs. 15.01 crores which is 81.16% of revised outlay.

10.5. On the physical side, the major stress was on the construction of village link roads for which an outlay of Rs. 15.50 crores was provided. The provision was subsequently reduced to Rs. 13.78 crores due to revision of State Plan. The target was to construct 2,000 kms. of link roads. The department could spend only Rs. 9.52 crores due to non-availability of road construction material. Under this programme, the department could construct only 1,391 kms. of road length against the revised target of 2,000 kms. of road length. Besides, 883 kms. of road length was also constructed with the funds deposited by Market Committees/Marketing Board with the department. Thus the total road length constructed under this scheme was increased from 21,246 kms. at the end of 1977-78 to 22,637 kms. at the close of 1978-79. The number of villages not connected by roads which stood at 1,785 at the end of 1977-78 was reduced to 647 as on 31st March, 1979, by connecting 1,138 villages during 1978-79. As on April, 1979, 647 villages were left unlinked with roads which required construction of 1,249 kms. of link roads. In addition to the construction of link roads, 10 kms. of Plan Roads were also constructed. The department had also widened/improved 50 kms. of existing roads

During 1978-79, two bridges were constructed on Pathankot Shahpur Kandi Road and one bridge was completed on Nagowan-Gopalan link road in Patiala district.

Annual Plan, 1979-80

10.6 An outlay of Rs. 15.00 crores has been provided for this sub-head. Significant provision of Rs. 4.50 crores has been made for village link roads. It is anticipated that 1,000 kms. of link roads will be added to the village road network giving metalled links to 397 villages. At the beginning of 1980-81, 250 villages will be left unlinked which would require construction of 249 kms. of road length. Due to increase in the goods and passenger traffic on State Highways, district and other roads, the condition of the existing roads is deteriorating and needs to be strengthened/improved. The sixth plan, therefore, accords high priority during the four years (1979—83) for the improvement and widening of these roads and providing additional crust on them. A provision of Rs. 3.75 crores has, therefore, been made for 1979-80 in order that this programme be carried out.

Annual Plan 1980-81

10.7. An outlay of Rs. 15.00 crores has been proposed for the sub-head "Roads & Bridges". Since the programme for providing first links to villages is nearing completion, significant provision of Rs. 4.45 crores has been proposed in order that spillover works be completed. The rest of the schemes have been proposed to be implemented with an outlay of Rs. 10.55 crores. The main programme/schemes under this sub-head are discussed below :—

Main Roads and Missing Links

10.8. Most of the main roads which were taken up during the Fourth Plan are nearing completion. During 1974—79 a sum of Rs. 171.30 lakhs was incurred on this scheme. The estimated cost of works under this scheme as on 1st April, 1979, was Rs. 373.78 lakhs. The expenditure on this scheme up to 31st March, 1979 was Rs. 254.96 lakhs. To complete all the work under this scheme, a sum of Rs. 118.82 lakhs was required on 1st April, 1979. During the current financial year there is a provision of Rs. 40.00 lakhs. The spillover requirements in order to complete the programme for missing links works out to Rs. 78.82 lakhs. Due to dispute

in alignment of 2 roads, it will not be possible to complete the spillover works during 1980-81. As such a sum of Rs. 75.00 lakhs has been proposed for this scheme. It is anticipated that all roads except two roads under this scheme will be completed by the end of 1980-81.

Improvement, widening and providing additional crust on Existing Roads

10.9. The concentration on village roads has brought the villages into intimate contact with the mandies and the rest of the State. But this has been achieved at the cost of other roads. In the meantime, in the absence of any further extension of the railway system, there has been a sharp increase in the goods and passenger traffic on State Highways and district and other roads. The State Government has, therefore, accorded high priority during 1979—83 for the improvement and widening of these roads and providing additional crust on them. Under this programme, an expenditure of Rs. 486.70 lakhs was incurred during 1974—79. The provision in the current year is Rs. 375.00 lakhs. A sum of Rs. 400.00 lakhs has been proposed for 1980-81 for carrying out this programme. Besides, geometrics of the roads will also be improved in certain areas.

10.9(a) Providing of road side amenities

In Punjab many way side Dhabas and snack stalls have come up along the roads in a haphazard manner. Consequently, the trucks and other vehicles are parked by their drivers/owners at different points along the important State highways in order to take meals/refereshment. The erratic parking of vehicles alongside the roads poses a threat to free flow of traffic and it often results in accidents. To prevent the present menace of unauthorised parking of vehicles alongside the roads, it has been proposed to construct suitable parking places along the important roads in the State at suitable places. Besides, it has also been proposed to provide other amenities at these places such as building of suitable shops meant for automobile spares/repairs, meals and refreshment shops and to provide covered space where drivers can take rest after having meals. To carry out this programme, a sum of Rs. 25.00 lakhs is proposed for 1980-81.

10.9 (b) Arboriculture and land scaping of roads

Punjab has had a bonanza in the flow of tourists from all over the country as well as foreign tourists visiting India. Besides, a large number of tourists on their way to Jammu & Kashmir and Himachal Pradesh pass through the State. The State Govt. has already provided a number of way side facilities for tourists along the roads. In order to make the journey of tourists more pleasant, it has been proposed to beautify the roads by land scaping these with ornamental trees and shrubs. A sum of Rs. 5.00 lakhs has been included tentatively in the Plan for 1980-81 for implementation of this scheme subject to further scrutiny in the Planning Department.

Village Roads

10.10. There are a total number of 12,188 inhabited villages in the State. It has been assessed that for linking all the villages in the State would involve construction of 23,886 kms. of village link roads. A 'Crash Programme' for village roads was launched in the Fourth Five-Year Plan. Ever since, the village roads have continued to be accorded high priority. During 1974-78, an expenditure of Rs. 2,926.13 lakhs was incurred on this programme, and during this period 5,261 kms. of road length was completed bringing the total road kilometreage constructed under this scheme from 15,985 kms. at the end of 1973-74 to 21,246 at the close of 1977-78. The number of villages not connected by roads which stood at 3,800 at the end of 1973-74 was reduced to 1,785 as on 31st March, 1978, by the connection of 2,015 villages during 1974-78. During 1978-79, 1,391 kms. of road length was constructed and metalled links were provided to 1,138 villages. As on April, 1979, 647 villages were still left unlinked with roads which required construction of 1,249 kms. of road length. It is anticipated that 1,000 kms. of road length will be added to the village roads net work giving metalled link roads to 397 villages. A sum of Rs. 445.60 lakhs has been proposed for 1980-81 for completing the spill-over works pertaining to surfacing of village roads already metalled and to construct the remaining length of road required to provide links to 250 villages.

Bridges

10.11. In Punjab most of the link roads were constructed as fair weather roads and provision for bridges was not made in the estimates of the roads due to lack of resources. Now it is proposed to construct bridges on important roads so that they may be used in all weathers. Under this scheme an expenditure of Rs. 353.81 lakhs was incurred during 1974-79. A provision of Rs. 280.00 lakhs has also been made during the current year. For 1980-81, a sum of Rs. 225.00 lakhs has been proposed for the programme. The high level bridge near Goindwal would be completed under this scheme during 1979-80. The other important bridges to be completed under this scheme fall on Patiala-Pehowa road which crosses river Ghaggar-Markanda and Tangri.

Central Road Fund Scheme

10.12. This scheme is fed from the proceeds of a levy on motor spirit. From this fund, allocations are made to the State Government for programmes approved by Ministry of Transport, Government of India. Under this programme, the expenditure incurred during 1974-79 was Rs. 258.44 lakhs. A provision of Rs. 50.00 lakhs has been made during the current year. A sum of Rs. 75.00 lakhs has been proposed for 1980-81, as this amount is required to complete on going programmes. The most important work being executed under this scheme is the construction of High level Bridge over River Satluj on Kanwan Pattan. Some roads are also being widened and strengthened under this scheme.

Improvement of Roads within M.C. limits

10.13. The stretches of main roads passing through the Municipal limits of the various towns are being improved/widened under this scheme. The Municipal Committees and the Improvement Trusts also contribute the 50% cost of the work on 25:25 basis and 50% amount is spent by Government. The roads are being widened/improved in the important cities of Punjab such as Amritsar, Ludhiana, Jullundur, Bhatinda etc. An expenditure of Rs. 181.85 lakhs was incurred during 1974-1979 under this scheme. A sum of Rs. 50.00 lakhs has been proposed for 1980-81 against an outlay of Rs. 50.00 lakhs during the current year.

Machinery and Equipment

10.14. There is a programme to introduce the mechanisation in the construction/widening/strengthening of roads. In order to cope with the enlarged road building activities and consequent maintenance programme and also to ensure standardisation and quality control, a sum of Rs. 100.00 lakhs has been proposed for 1980-81 for the purchase of machinery.

Bye-Passes

10.15. The growth of internal traffic in number of towns has created a traffic hazard. In order that traffic flows smoothly and uninterruptedly and in order that the growing incidence of accidents is curbed, bye-passes are being provided. A sum of Rs. 75.00 lakhs has been proposed for the implementation of this scheme during 1980-81 against an outlay of Rs. 75.00 lakhs during 1979-80.

Research and Development

10.16. To introduce quality control in the road construction and to evolve new and cheaper techniques of road construction by research work, Rs. 20.00 lakhs has been provided during 1979-80 for this scheme. It is proposed to construct field labs under this scheme. A sum of Rs. 25.00 lakhs has been proposed for 1980-81.

ROAD TRANSPORT

10.17. The goods transport is almost entirely in the private sector. The passenger transport is shared between the two public undertakings and the private sector, the accepted ratio being 60 : 40. In the plan, provision has been made only for the two public sector undertakings. There has been some improvement during the last years in the operations of the two public agencies, the Pepsu Road Transport Corporation and Punjab Roadways. Their urgent requirements during the Sixth Plan include programme for the replacement of old buses, addition to the existing fleet, construction of additional bus depots in order that the norm of 100 buses per depot may be adhered to along with provision of workshop facilities. A provision of Rs 3697.50 lakhs had been made for 1978-83 for this programme. The Punjab Roadways accounts for the bulk of the provision i.e. Rs 2,942.00 lakhs. Being a departmental undertaking, it has no access

to the institutional finance. The PRTC will have, besides the plan provision, the contribution of the railways and the funds expected to be made available by the financial institutions.

Punjab Roadways

10.18. During the Fifth Plan (1974-78), an expenditure of Rs 1,658.66 lakhs was incurred by the Punjab Roadways and 475 buses were added to the fleet. On 31st March, 1978 the total strength of the fleet was 2,171 buses. Besides 740 buses were purchased for replacement of old buses during 1974-78.

Plan Performance 1978-79

10.19. An outlay of Rs 390.00 lakhs was provided in the Annual Plan 1978-79 which was later on revised to Rs 378.38 lakhs due to revision of State Plan. The expenditure incurred was Rs 378.38 lakhs showing a 100% performance. The Punjab Roadways had added 100 buses to its fleet against a target of 110 buses. The shortfall was due to cost escalation. The fleet strength of Punjab Roadways had increased from 2,171* buses as on 31st March, 1978 to 2,271 as on 31st March, 1979. The total kilometrage were increased from 1,461.41 lakhs Kms during 1977-78 to 1571.05 lakhs Kms during 1978-79. Besides 106 buses were replaced during the year. The outlays and expenditure for the implementation of the development programme are given in the following tables :—

(Rs. in lakhs)

Serial No.	Item	Outlay 1978-79		Expenditure incurred during 1978-79
		Original	Revised	
0	1	2	3	4
1	Land and Building ..	50.00	40.45	40.45
2	Acquisition of fleet ..	149.00	167.52	167.52
3	Workshop facilities ..	8.00	0.47	0.47
4	Other expenditure ..	2.00	0.56	0.56
5	Replacement of old buses ..	181.00	169.38	169.38
Total ..		390.00	378.38	378.38

Annual Plan, 1979-80

10·20. A provision of Rs 495·00 lakhs has been made for Punjab Roadways. It is proposed to add 90 buses to its fleet. Besides, 206 buses will be replaced. The target for operating the total kilometreage has been fixed at 1,780·78 lakhs. The department proposes to set up 4 more depots bringing the total to 16 depots. Besides the Central workshop at Mohali is also proposed to be set up for which land has already been purchased.

Annual Plan, 1980-81

10·21. In order to remove the difficulties inherent in the departmental operation of transport facilities and to avail of institutional finance for developmental programme of Punjab Roadways, it has been considered necessary to convert Punjab Roadways into an autonomous undertaking. Keeping this in view, the provision for 1980-81 has been proposed to be kept at current year's level i.e. Rs 495·00 lakhs. The proposed outlays for the implementation of the development programme are given in the following table:—

(Rs in lakh)		
Sr.No.	Item	Amount
1		2
1.	Land & Building ..	30·00
2.	Acquisition of fleet—	
	(i) Addition (80 buses) ..	132·00
	(ii) Replacement (200 buses) ..	330·00
3.	Workshop facilities ..	2·00
4.	Other expenditure ..	1·00
	Total ..	495·00

10·22. As a result of this investment programme, the total number of buses with the Punjab Roadway will increase from 2,361 at the end of 1979-80 to 2,441 at the end of 1980-81. The Punjab Roadways will undertake 1827·74 lakhs kilometreage during 1980-81.

Pepsu Road Transport Corporation (PRTC)

10·23. During the fifth Plan (1974—78), the Corporation spent an amount of Rs 483·85 lakhs out of which the State Govt. contributed a share capital of Rs 287·00 lakhs. The total number of buses added to the fleet during fifth plan was 91 besides replacement of 219 buses.

Plan performance, 1978-79

10·24. The PRTC had a plan of Rs 417·00 lakhs which was later on revised to Rs 319·98 lakhs due to paucity of funds. The financing pattern of the corporation was as under :—

(Rs. in lakhs)				
Serial No.		Amount		
		Original	Revised	Actual
0	1	2	3	4
1	State Government's contribution ..	105·00	105·00	105·00
2	North Railway's contribution ..	52·50	52·50	52·50
3	Loan raised from banks ..	259·50	137·02	137·02
4	Internal resources ..	..	24·86	25·12
	Total ..	417·00	319·38	319·64

10·25. Against the revised plan of Rs 319·38 lakhs, the PRTC had incurred an expenditure of Rs 319·64 lakhs. The break-up of the expenditure incurred during the year is given as under :—

(Rs. in lakhs)				
Serial No.	Item	Outlay		Expenditure incurred
		Original	Revised	
0		2	3	4
1	Land and Building ..	73·50	6·44	7·17
2	Acquisition of fleet—			
	(a) For normal expansion ..	103·95	52·78	53·37
	(b) for replacement ..	229·55	258·66	258·62
3	Workshop facilities ..	10·00	1·50	0·48
	Total ..	417·00	319·38	319·64

10.26. During 1978-79, the Corporation had purchased 216 buses, besides 19 chassis purchased during 1977-78 were also put on road after body fabrication. Thus out of total number of 235 buses, 189 buses were replaced and remaining 46 buses were added under expansion programme. The fleet strength of PRTC had increased from 863 buses as on 31st March, 1978, to 849 buses as on 31st March, 1979. The daily scheduled kilometreage were increased from 1.67 lakhs Kms as on 31st March, 1978 to 1.76 lakhs as on 31st March, 1979.

Annual Plan, 1979-80

10.27. The Corporation has a plan of Rs 393.80 lakhs for 1979-80. The financing pattern is as under :—

(Rs. in lakhs)

Serial No.	Source	Amount	Actual receipt as on 30-9-1979
0	1	2	3
1	State Government's contribution ..	105.00	105.00
2	Northern Railway's contribution ..	52.50	42.50
3	Loans to be raised from banks ..	236.30	113.00
	Total ..	393.80	260.50

10.28. Against capital receipts of Rs 260.50 lakhs, the Corporation has so far (as on 30th September, 1979) spent Rs 243.63 lakhs on various programmes. The Corporation will add 81 buses to its fleet bringing the total number of buses to 930 by the end of 1979-80. Besides, 113 buses will be replaced during the year. The Corporation will undertake additional scheduled kilometreage of 35.72 lakhs during 1979-80.

Annual Plan, 1980-81

10.29. It has been proposed to implement plan of P.R.T.C. with an outlay of Rs 1124.67 lakhs. The P.R.T.C., being a corporate body, avails of institutional finance. The State Govt. and Central Govt. contribute in the ratio of 2 : 1. The sources of finance of Rs 1124.67 lakhs are given as under :—

(Rs in lakhs)

Sr. No.	Source	Amount
0	1	2
1.	State Govt. 's contribution	205.00
2.	N. Railway's contribution ..	102.50
3.	Bank loans ..	817.17
	Total ..	1124.67

10.30 The development programme of the Corporation is given in the following table :—

(Rs. in lakhs)

Serial No.	Particulars	No. of buses	Outlay
0	1	2	3
1	Acquisition of fleet —		
	(i) Buses to cover backlog ..	320	592.00
	(ii) For normal expansion ..	75	138.75
	(iii) For replacement ..	68	125.80
	(iv) Replacement of 5 cars ..		2.50
	(v) Four cars for expansion ..		2.00
2	Land and Building ..		112.00
3	Workshop facilities ..		51.62
4	Payment of interest to the State Government ..		100.00
	Total ..		1124.67

10.31. As a result of this investment, the total number of buses will increase from 930 at the end of 1979-80 to 1325 at the end of 1980-81. The Corporation will undertake additional scheduled kilometreage of 138.90 lakhs during 1980-81.

CIVIL AVIATION

10.32. The Civil Aviation Department was set up in Punjab in 1962 for making Punjab air-minded. At present, there are three aviation clubs working under this department at Patiala, Ludhiana and Amritsar. The fourth is Northern India Flying Club, Jullundur Cantt. which is not under the control of the State Government although it adds to the activities of the Civil Aviation Department in the State. A Government Aero-engine overhauling workshop fully equipped with modern sophisticated machinery and testing equipment was set up at Patiala for repair/maintenance and overhauling of Pushpak aircrafts loaned to various Aviation clubs in the State. The department is having a fleet of 21 Pushpak aircraft (2 seater) and one Bonanza aircraft (4 seater) on which flight training is imparted for the preparation of trainees for commercial pilot licence. The department also provides facilities for gliding training and gliding centres are working at all the Aviation clubs. During Fifth Plan 1974—78, a sum of Rs. 49.97 lakhs was incurred on this programme against an outlay of Rs. 62.59 lakhs.

Plan Performance 1978-79

10.33. Against a sum of Rs 8.00 lakhs provided during 1978-79 for the sub-head 'Civil Aviation' subsequently revised to Rs 10.75 lakhs, an expenditure of Rs 11.52 lakhs was incurred. The excess expenditure related to the scheme 'Construction/Development of Aero-dromes and extension of existing runways' on capital account. During this period, commercial pilot licences were issued to 4 trainees and 219 boys and girls were trained in gliding. The fleet of trainer aircrafts was raised to 22 during the year by addition of one Bonanza aircraft (4 seater).

Annual Plan 1979-80

10.34. A provision of Rs. 15.00 lakhs has been made for the implementation of the various programmes viz. setting up of Aircraft Maintenance Engineering School, replacement of Pushpak aircrafts and purchase of simulator and Radio aids. 250 boys and girls are expected to be trained in flying and gliding. The work relating to extension of the runways at Patiala air field is continuing.

Annual Plan 1980-81

10.35. An outlay of Rs. 59.00 lakhs is proposed for implementation of the following programmes :—

(i) *Establishment of Aircraft Maintenance Engineering School.*—It had been proposed to set up AME School at Patiala during 1979-80 for which a budget provision of Rs. 1.50 lakhs was made in the Annual Plan 1979-80. Its project report is under preparation. A sum of Rs. 4.50 lakhs is, therefore, proposed for 1980-81.

(ii) *Construction/Development of Aerodromes and extension of existing runways.*—The programme at existing aerodromes at Patiala and Ludhiana includes extension of runways and construction of taxi tracks at an estimated cost of Rs. 46.47 lakhs. An expenditure of Rs 30.14 lakhs was incurred upto 31st March, 1979. The runways at Ludhiana airfield had already been extended upto 4800 feet alongwith provision of taxi bays. It is proposed to further extend the runway to 6500 feet for which additional land would be acquired. The target for extending the runway at Patiala upto

3600 feet is likely to be achieved by the end of 1979-80. Taxi bays at Patiala airfield are still to be constructed for which a provision of Rs. 2.00 lakhs is proposed for 1980-81.

A sum of Rs 30.00 lakhs is proposed for the construction of infrastructure at Ludhiana air field to enable Indian Air lines to undertake operation from Ludhiana.

(iii) *Purchase of Machinery.*—It includes provision for the replacement of pushpak aircrafts, purchase of Avionics and test equipments and the payment of the balance on account of the purchase of VHF sets and simulator to be purchased during the current year. A sum of Rs. 22.50 lakhs is proposed for the following :—

	(Rs. in lakhs)
(a) Replacement of 3 pushpak aircrafts	17.50
(b) Purchase of Avionics and test equipments	2.50
(c) Provision to defray balance payment	2.50
Total	22.50

TOURISM

10.36. As a result of reorganisation in 1966, Punjab lost the hilly areas. Its tourism potential has since been largely limited to what may be called cultural tourism. The religious centres, the monuments, and the rich variety of traditional arts and crafts attract foreign and Indian tourists. With a view to promoting tourism, a separate Department of Tourism, cultural affairs, Archaeology and Museums was created in 1974. There has been a rapid expansion of tourist facilities ever since. Besides the previously existing facilities at Pathankot, Nangal, Shahpur Kandi and Anandpur Sahib, new tourist facilities have been created at Ropar, Sirhind, Phagwara, Ludhiana and Amritsar. Additional facilities are under implementation. Besides a 3-star hotel at Amritsar has recently been commissioned.

10.37. In order that the difficulties inherent in the departmental operations of tourist facilities be removed and so that institutional finance may be availed of for the development of Tourism, it was decided to set up the Punjab State Tourism Development Corporation with an authorised capital of Rs. 5.00 crores. The Punjab Tourism

Development Corporation came into existence on 26th March, 1979. Rs. 50.00 lakhs was provided by way of share capital contribution to the Corporation during 1978-79, besides the transfer of existing assets tentatively valued at Rs. 1.50 crore and a budget provision of Rs. 45.00 lakhs has been made during the current year. In the

Annual Plan 1980-81, a sum of Rs. 45.00 lakhs has been proposed. It is hoped that by mobilising institutional finance and by carefully husbanding its own internal resources, it would be possible for the corporation to undertake its projected programme of development.

CHAPTER XI

Education

General Education:

For this sub-head of Development a provision of Rs. 1,541.98 lakhs was originally made in Annual Plan 1978-79 which was subsequently revised to Rs. 1592.13 lakhs. Actual expenditure incurred was Rs. 1504.69 lakhs, out of which a sum of Rs. 1275.00 lakhs was transferred to the Non-Plan budget as committed expenditure for 1979-80. This has taken care of the level of education as obtained in 1978-79. For 1979-80, the anticipated expenditure is Rs. 597.00 lakhs against the approved outlay of Rs. 597.00 lakhs. For 1980-81 an outlay of Rs. 657.00 lakhs is proposed under the sub-head of General Education. The break-down of the outlay is given in the following table:—

Serial No.	Item	Approved Outlay 1979-80	Proposed Outlay
1	2	3	4
1	School Education	.. 368.00	402.50
2	College and University Education	.. 157.13	165.00
3	Languages	.. 9.00	10.00
4	Sports	.. 35.00	38.00
5	Youth Services (including N.S.S.)	.. 13.00	13.00
6	Archaeology and Museum	.. 7.50	7.50
7	Promotion of Art and Culture	.. 3.00	15.50
8	Archives	.. 0.50	0.50
9	Art and Culture, Establishment and Strengthening of District Libraries	.. 3.87	5.00
Total		.. 597.00	657.00

11.2. During 1980-81 the main stress will be on (i) maintenance of the existing educational facilities at the elementary, secondary and university levels. (ii) Non-formal education. (iii) Adult Education (iv) Strengthening of Administration & Supervision (v) Improvement in quality of education through the Establishment of S.C.E.R.T. and work experience.

Primary School Education:

11.3. **Expansion of Educational facilities in the age-group 6—11.**—There is a primary school for every inhabited village of the state & the target of 100% universalisation of Primary education has already been achieved. In order to cater to the educational needs of new townships/colonies/habitations, which are likely to come up, 10 Single Teacher Primary Schools are proposed to be set up in 1980-81 at an estimated cost of Rs. 1.15 lakhs which comprises Rs. 0.70 lakh as the continued portion and Rs. 0.45 lakhs as the new portion. A sum of Rs. 11.50 lakhs has been proposed for the purchase of furniture. For the improvement of Primary Schools during the year 1979-80, a sum of Rs. 18.45 lakhs has been provided for the creation of Class IV posts but no expenditure is likely to be incurred during the current year. A token provision of Rs. 5.00 lakhs has been proposed in 1980-81 for this purpose. Another sum of Rs. 4.00 lakhs has been proposed for providing lavatories and drinking water facilities to 160 Primary Schools. During the last year a sum of Rs. 3.85 lakhs was provided for this purpose.

Library Services:

11.4. In the Annual Plan 1979-80, a scheme was formulated for providing library services to 80 primary schools at an estimated cost of Rs. 3.00 lakhs. It is proposed to extend this facility to 80 more Primary Schools during the year 1980-81. In order to meet the expenses on account of continued portion of the scheme as also to meet the cost of providing facilities of Library Service in 80 more Primary Schools, a sum of Rs. 4.65 lakhs has been proposed in the Annual Plan 1980-81.

Non-Formal Education:

11.5. There is a large number of drop-outs in the age-group 6-11, In order to impart education to such drop-outs & some other children in the age-

group 6—11 who are unable to attend regular classes due to social & economic reasons, a scheme was formulated during the Annual Plan 1979-80, for starting 250 part-time Non-Formal Education Centres. These Centres will be continued during the year 1980-81 and a sum of Rs. 2.50 lakhs is proposed for this purpose.

Construction of Buildings (Class rooms/School buildings):

11.6. An outlay of Rs. 10.00 lakhs has been provided in the Annual Plan 1979-80 for the construction of school buildings, but all the works taken in hand are not likely to be completed during the current year. A sum of Rs. 10.00 lakhs has been proposed in the Annual Plan 1980-81, to meet the spill over requirement as also to take in hand some new works.

Provision/Replenishment of Science Kits:

11.7. Science Kits have already been provided to nearly 13,000 Primary Schools. In order to maintain these science kits, it is necessary to replenish them regularly. A sum of Rs. 1.95 lakhs at the rate of Rs. 15/- per school has been proposed in the Annual Plan 1980-81.

Administration and Supervision :

11.8. At the time of bifurcation of the School Directorate 3,359 Primary Units were detached from the Middle Schools/High Schools. It was, therefore, essential to provide administrative machinery for supervision & inspection of these schools. A scheme Administration and Supervision with an outlay of Rs. 8.28 lakhs was included in the Annual Plan 1979-80. Under this scheme 66, additional posts of Block Primary Education Officer along with the supporting staff were created. The staff appointed during the current year will be continued during 1980-81. For this purpose an outlay of Rs. 12.75 lakhs is proposed in the Annual Plan 1980-81.

Teachers Training:

11.9. Seminars/Inservice Courses are conducted at the Inservice Centre/training institutions in order to equip & acquaint the teachers with the latest technique in education methodology. For meeting the TA/DA to J.B.T. teachers attending such semi-

nars/in-service training courses, a sum of Rs. 2.00 lakhs is proposed in the Annual Plan 1980-81.

School Education:

11.10. For School Education an outlay of Rs. 1079.36 lakhs was provided in Annual Plan 1978-79. Against this the expenditure incurred was Rs. 1017.04 lakhs. During this year, 178 Govt. Middle Schools were upgraded to High Standard and 200 posts of D.P.Es. were provided. An outlay of Rs. 310.00 lakhs was provided in 1979-80. Against the target of upgrading 50 Middle Schools to High level the Department has upgraded 50 Primary Schools to Middle Standard and 100 Middle Schools to High Standard during this year. An outlay of Rs. 347.50 lakhs has been proposed for the year 1980-81 mainly for the maintenance of the facilities created during the current year. Programme-wise break-up is given below:—

	(Rs. in lakhs)
Middle School Education ..	165.05
Secondary Education ..	123.89
Teachers' Education ..	13.50
Adult Education ..	19.10
Physical Education ..	22.68
Direction & Administration and Supervision ..	3.28

Middle School Education :

11.11. Under this programme, a sum of Rs. 165.05 lakhs is proposed for the continuance of the on-going schemes. The major component of the outlay is for the maintenance of the staff already recruited in the year 1979-80. Only 75 Middle Schools remained to be provided with science kits. During 1980-81, it is proposed to supply these kits at a cost of Rs. 1.39 lakhs to the remaining schools.

Secondary Education ;

11.12. During the year 1979-80, the target of enrolment of 2.87 lakhs children in the age-group 14—17 would be achieved. It is sought to increase the enrolment by 0.48 lakh bringing it to 3.35 lakhs by the end of 1980-81.

11.13. Under this programme a sum of Rs. 123.89 lakhs is proposed which is mostly for the continuance of the staff during the year 1980-81. This includes a sum of Rs. 7.00 lakhs

for scholarships which comprises of Rs. 2.63 lakhs for 2191 new scholarships and Rs. 4.37 lakh for continuing scholarships. A sum of Rs. 32.50 lakhs is proposed for the school buildings under completion.

A sum of Rs. 10.00 lakhs has been earmarked for Inservice Training of Teachers for payment of T.A./D.A. to teachers for attending the seminars/refresher courses.

Adult Education :

11.14. Under the National Adult Education Programme special priority has been given to the education of people in the age-group 15—35 years. Keeping this thing in view, a sum of Rs. 19.97 lakhs has been provided during the year 1979-80. Taking in view the progress of expenditure incurred upto 30th September, 1979, a sum of Rs. 19.10 lakhs is proposed for the year 1980-81.

Physical Education, Games and Sports :

11.15. For encouraging games and sports in schools, a sum of Rs. 22.68 lakhs is proposed for 1980-81. Out of this provision, a sum of Rs. 1.50 lakhs is meant for holding of coaching camps/competitions for providing proper opportunities for the development of skills and stamina of the budding sportsmen and sports women.

COLLEGE AND UNIVERSITY EDUCATION

11.16. Actual expenditure on college and university education during 1978-79, was Rs. 155.34 lakhs against the approved outlay of Rs. 134.00 lakhs. In the Annual Plan 1979-80, a sum of Rs. 161.00 lakhs has been provided for the college and university education. During 1980-81, a sum of Rs. 170.00 lakhs is proposed. The scheme-wise details are given as below :—

Strengthening of Educational Administration :

11.17. As the maintenance of service records of the gazetted officers has been transferred to respective Departments, Directorate is required to handle additional work in respect of as many as 1,885 gazetted officers under the control of the Department. An outlay of Rs. 1.59 lakhs has been provided in the Annual Plan 1979-80 for this purpose to continue the staff

appointed during 1979-80. An outlay of Rs. 3.00 lakhs has been proposed in 1980-81. Another sum of Rs. 0.60 lakh has been earmarked for strengthening the Planning machinery in the Directorate to enable it to cope with increased work load.

Grant-in-aid to Universities :

11.18. During 1979-80, a sum of Rs. 56.24 lakhs was provided for grant-in-aid to the Punjabi University Patiala, Guru Nanak Dev University, Amritsar and Punjab Agriculture University, Ludhiana for running of vocational courses and completion of old and new building complexes. An outlay of Rs. 45.00 lakhs is being proposed in 1980-81.

Expansion of facilities :

11.19. A sum of Rs. 37.45 lakhs with a capital component of Rs. 20.00 lakhs is proposed for establishing one new Government College and opening of two sports wings in the existing colleges in 1980-81.

Improvement of Existing Government Colleges :

11.20. An outlay of Rs. 50.45 lakhs with a capital component of Rs. 14.50 lakhs is proposed for the improvement of existing Government Colleges. Out of the capital component, a sum of Rs. 7.00 lakhs is proposed for the spill over works and a sum of Rs. 7.50 lakhs is earmarked for the new works during 1980-81. It is also proposed to provide Science equipments, furniture and books in Government Colleges at an estimated cost of Rs. 5.00 lakhs.

Development of College Education under U.G.C. Sharing Schemes :

11.21. The scheme was introduced during 1977-78 and a sum of Rs. 4.89 lakhs was paid as State share which enabled the Government Colleges to receive a sum of Rs. 14.00 lakhs as assistance from U.G.C. A sum of Rs. 3.98 lakhs was also paid as State share during the year 1978-79. Another sum of Rs. 8.00 lakhs has been provided under this scheme during the year 1979-80. In 1980-81 an outlay of Rs. 5.00 lakhs is proposed for the development of college education under the U.G.C. sharing schemes.

11.22. For providing amenities to students in hostels of Government Colleges a sum of Rs. 7.50 lakhs including the capital component of Rs. 2.00 lakhs is proposed for 1980-81.

11.23. A sum of Rs. 10.00 lakhs is proposed for State Merit Scholarships for 1980-81.

11.24. For organising seminars and orientation courses, a sum of Rs. 1.00 lakh is proposed during 1980-81.

11.25. An amount of Rs. 5.00 lakhs with a capital component of Rs. 1.00 lakh is proposed for the strengthening of District Libraries during the year 1980-81. Out of this, a sum of Rs. 1.00 lakh is proposed for the opening of one District Library.

OTHER PROGRAMMES

11.26. The other programmes pertain to development of Indian Languages, Youth Services and the National Service Scheme (N.S.S.) Sports and Games, Archives, Archaeology & Museum and Promotion of Art and Culture.

Development of Languages :

11.27. Under the scheme development of Punjabi, Hindi and Urdu languages actual expenditure incurred during 1978-79 was Rs. 4.03 lakhs. In 1979-80 a sum of Rs. 9.00 lakhs has been provided for this programme and in 1980-81 an outlay of Rs. 10.00 lakhs is proposed. The scheme-wise break up (1980-81) is given below :—

(Rs. in lakhs)

Serial No.	Name of the Scheme	Outlay Proposed
1.	Development of Punjabi ..	2.35
2.	Development of Hindi ..	1.20
3.	Development of Urdu ..	1.30
4.	Literary Centre, Delhi ..	1.00
5.	Mobile Exhibition-cum-Sale ..	0.45
6.	Pension to Writer ..	0.45
7.	Paper Back Series ..	1.40
8.	Rapport with Punjabi writers/ Literary Association and hon- ouring of eminent persons out- side Punjab ..	1.85
	Total ..	10.00

Youth Services/N.S.S. :

11.28. During the year 1978-79, the Youth Services Department incurred an expenditure of Rs. 5.13 lakhs for the various Youth Welfare Schemes. Besides, a sum of Rs. 6.64 lakhs was spent during 1978-79 for the National Service Scheme as the State share against the provision of Rs. 7.50 lakhs. During 1980-81, a sum of Rs. 5.50 lakhs is proposed for the Youth Services Scheme and Rs. 7.50 lakhs for N.S.S. as the State share. The outlay proposed for the Youth Services Scheme is as below :—

(Rs. in lakhs)

Serial No.	Name of the Scheme	Outlay proposed
1.	Punjab Inter University Youth Festival ..	0.48
2.	Teacher's Training Camps ..	0.33
3.	(a) Youth Leadership Training Camps ..	1.31
	(b) Hiking and Trekking Moun- taineering in high altitude areas ..	0.88
4.	Inter State Tours ..	1.41
5.	Grant-in-aid to Village Youth Clubs ..	0.49
6.	Grant-in-aid to College/ School, Youth Clubs ...	0.60
	Total ..	5.50

Sports and Games :

11.29. An expenditure of Rs. 30.86 lakhs was incurred in 1978-79 on sports and games. The anticipated expenditure for 1979-80 is placed at Rs. 35.00 lakhs which is also the approved outlay. During 1980-81 an outlay of Rs. 38.00 lakhs is proposed for Sports and Games. The main activities of the Department are :—

(Rs. in lakhs)

Serial No.	Name of the Scheme	Outlay proposed
1	Coaching scheme ..	5.75
2	Competition scheme ..	5.00
3	Scholarships ..	2.60
4	Purchase of Sports equipments	5.75
5	State Sports Academy ..	1.00
6	Sports Hostels ..	4.90
7	Construction of Sports complexes/grant-in-aid ..	13.00
Total ..		38.00

Archives :

11.30. During 1980-81 a sum of Rs. 0.50 lakh is proposed for the continuance of the programme already undertaken during 1979-80. The anticipated expenditure in 1979-80 is Rs. 0.50 lakh.

Archeology and Museum :

11.31. In 1978-79, actual expenditure incurred on the various schemes of Archeology and Museum comes to Rs. 6.08 lakhs. For 1980-81, an outlay of Rs. 7.50 lakhs is proposed which is at the level of 1979-80. The proposed outlay is for the continuance of the following schemes :—

(Rs. in lakhs)

Serial No.	Name of the scheme	Outlay proposed
1	Conservation of Ancient and Historical Monument ..	5.00
2	Excavation and Exploration ..	0.40
3	Display Equipment ..	0.50
4	Development of Archaeological Library ..	0.10
5	Equipment and Machinery ..	0.50
6	Publication of Archaeological Reports ..	0.10
7	Land Scaping Unit ..	0.70
8	Setting up of Archaeological Laboratory ..	0.20
Total ..		7.50

Promotion of Art and Culture :

11.32. In the Annual Plan 1978-79, the actual expenditure incurred was Rs. 1.43 lakhs against the approved outlay of Rs. 4.00 lakhs. During 1979-80 a sum of Rs. 3.00 lakhs was provided. During 1980-81, a sum of Rs. 15.50 lakhs is proposed for the purpose. A sum of Rs 6.00 lakhs is being provided for Punjab Arts Council, Chandigarh and a sum of 6.50 is proposed for Punjabi Language and Culture Centre at Delhi.

TECHNICAL EDUCATION

11.33. Technical Education in the State has to keep pace with the requirement of technical manpower of both existing and emerging industries and other sections of the economy. Keeping these factors in view programme according to the following principles are proposed to be formulated :—

- (i) introduction of diversified courses in the Engineering Colleges at degree level in new disciplines;
- (ii) introduction of Post degree courses in uncovered fields of Technology ;
- (iii) consolidation and development of Polytechnics and introduction of new/diversified diploma courses in new technologies ;
- (iv) removal of deficiencies in and upgrading of special trade institutions ;
- (v) establishment of a new Government Polytechnic at Bhatinda/Mohali/Amritsar ;
- (vi) establishment of a new Government Polytechnic for Women at Kheowali (District Faridkot).

11.34. The total outlay proposed for the Department of Technical Education in the Sixth Five-Year Plan is Rs. 228.00 lakhs. Anticipated expenditure for 1979-80 is Rs. 45.00 lakhs, which is also the approved outlay for the year. In the Annual Plan 1980-81 a sum of Rs. 80.00 lakhs is proposed. This step up in outlay is considered essential for the continuance of the schemes already in operation during 1979-80 and the

introduction of a few important new schemes. The salient features of the Annual Plan 1980-81 are described in the following paragraphs :—

(i) Direction and Administration :

11.35. Keeping in view the recommendations of the Government of India a sum of Rs. 0.80 lakh was earmarked in 1979-80 for re-organisation of the Directorate of Technical Education. However, in view of the slow progress of the scheme, it is expected that the entire proposed re-organisation may not be possible during 1979-80. An outlay of Rs. 0.50 lakhs is proposed in 1980-81 for the continuation of the expected re-organisation.

(ii) Engineering Colleges :

11.36 In 1979-80, the following schemes pertaining to the diversification of degree courses and computer terminal facilities are expected to be introduced after the clearance from the Government of India is received.

TE 2.1 Diversified degree course in instrumentation and Process control at Thapar Institute of Engineering and Technology, Patiala.

TE 2.3 Diversified degree course in Electronics and Electrical Communication at Guru Nanak Engg. College, Ludhiana.

TE 2.6 Part-time degree courses in Engineering Colleges.

TE 2.14 Establishment of Computer Terminal facilities Centre at Guru Nanak Engineering College, Ludhiana.

TE 2.15 Establishment of Computer Terminal facilities Centre at Thapar Institute of Engg. and Technology, Patiala.

11.37 These schemes if introduced will continue during 1980-81. In addition, efforts will be made to introduce the following courses/schemes during 1980-81 at a cost of Rs. 17.25 lakhs.

TE 2.1 Diversified courses at Thapar Institute of Engineering and Technology, Patiala.

TE 2.3 Diversified Degree Course in Electronics and Electrical Communication at Guru Nanak Engg. College, Ludhiana.

TE 2.4 Diversified Degree Course in Production Engg. (Sandwich type course) at Guru Nanak Engg. College, Ludhiana.

TE 2.5 Production/Service-cum-training Centre at Engineering Colleges.

TE 2.6 Part-time degree course in Engg. Colleges.

TE 2.7 Revision of Staff Structure in Engg. College

TE 2.8 Faculty Exchange Programme and visiting Professors in residence.

TE 2.9 Consultancy Service in Engineering Colleges.

TE 2.10 Provision of implementing Credit System in Engineering Colleges.

TE 2.14 Creation of post of Training-cum-Placement Officer in Engineering Colleges.

TE 2.15 Establishment of Computer Terminal facilities Centre at Guru Nanak Engg. College-Ludhiana.

TE 2.16 Establishment of Computer Terminal facilities Centre at Thapar Institute of Engineering and Technology, Patiala.

TE 2.17 Creation of Development fund for the development of Guru Nanak Engineering College, Ludhiana.

3. Polytechnics :

11.38 A sum of Rs. 33.70 lakhs has been provided in 1980-81 against the approved outlay of Rs. 17.70 lakhs for the year 1979-80. During the year 1979-80, following courses have been started :—

TE 3.10 Part-time diploma courses in Civil, Electrical and Mechanical Engineering at Government Polytechnic, Hoshiarpur, Batala and Amritsar.

It is also expected that the following courses will also be introduced as soon as approval/clearance of the Govt. of India is received.

TE 4.2 3-Year Architectural Assistantship course at Thapar Polytechnic, Patiala.

TE 4.4 Diversified 3-Year Diploma Course in Tool and Die making Technology at Guru Nanak College (Polywing) Ludhiana.

TE 4.5 1-Year Post Diploma Course in Electronics at Meharchand Polytechnic, Jullundur.

The production-cum-Training Centre at Government Polytechnic, Amritsar and Service-cum-Training Centre at Government Polytechnic, Batala are also expected to be set up during the year 1979-80. The scheme for the introduction of Part-time diploma course in Civil Engineering at Meharchand Polytechnic, Jullundur has been approved by the Government of India/State Government.

11.39 The following new courses/schemes are proposed to be introduced during the year 1980-81.

TE 3.1 1-Year Post Diploma Course in Dairy Engineering at Government Polytechnic, Amritsar.

TE 3.2 1-Year Post Diploma Course in Television Technology at Government Polytechnic, Hoshiarpur.

TE 3.3 1-Year Post Diploma Course in Heat Treatment at Government Polytechnic, Batala.

TE 3.9 Setting up of Government Polytechnic at Bhatinda.

TE 3.14 3-Year Diversified Diploma Course in Civil Engineering Design and Drafting at Government Polytechnic, Amritsar.

TE 3.16 Production-cum-Service-cum-Training Centre at Government Polytechnic, Hoshiarpur.

TE 3.17 Sandwich type 4-year diploma course at Mohali-Setting up of a new Govt. Poly. at Mohali.

TE 3.18 Setting up of a Government Polytechnic for Hotel Management and Catering at Amritsar.

TE 4.3 Diversified 3-Year Diploma Course in Plastic and Rubber Technology at Guru Nanak Engg. College (Polywing), Ludhiana

TE 4.6 1-Year Post Diploma Course in Hospital Engg. at Thapar Polytechnic, Patiala.

TE 4.7 AMIE course at Guru Nanak Engg. College (Polywing), Ludhiana.

TE 4.14 Audio visual Training Centre at Thapar Polytechnic, Patiala.

TE 4.15 3-Year Diploma Course in Agriculture Engg. at Guru Nanak Engg. College (Polywing), Ludhiana.

TE 4.16 Sandwich type 4-Year Diploma Course in Maintenance Engineering at Guru Nanak Engg. College (Polywing), Ludhiana.

TE 4.17 Part-time diploma course at Electrical Engg. at Guru Nanak Engg. College (Poly Wing), Ludhiana.

TE 4.18 Sandwich type 4-Year Diploma course in New discipline i.e., not covered so far.

4. 'Special Trade' Diploma level institutes :

11.40 A sum of Rs 30.00 lakhs has been provided against the approved outlay of Rs. 8.00 lakhs for the year 1979-80. During the year 1980-81, following new courses are proposed to be started :—

TE 5.1 Introduction new/part time diploma courses at Government Polytechnic for women, at Jullundur.

TE 5.3 Degree Course in Textile Technology and other allied subjects including Textile Designing etc. in the premises of Punjab Institute of Textile Technology, Amritsar.

TE 5.4 Degree course in Knitting Technology and other allied subjects including Fabric designing Management studies, Industrial Organisation and Business Administration etc. at Ludhiana.

TE 5.5 Degree Course in Leather Technology, Sports goods (Leather based) and other allied subjects including special courses in Leather designing etc., in the premises of Government Tanning Institute, Jullundur.

TE 5.6 Setting up of Government Polytechnic for Women at Kheowali (Distt. Faridkot).

11.41 To continue the programme of scholarships a sum of Rs 0.30 lakhs has been provided during the year 1980-81. For Faculty development, a

sum of Rs. 1.30 lakhs has been proposed. Another amount of Rs. 3.70 lakhs is being provided for student amenities, libraries, book bank and development of campus.

CHAPTER XII

Public Health & Sanitation

The most important objective of the Sixth Five Year Plan is to correct the imbalance in the structure of medical and health care services in the State. In the past the outlays have concentrated heavily on providing health facilities in urban areas. Sixth Plan provides an outlay of Rs. 4,399.00 lakhs

against the expenditure of Rs. 1129.08 lakhs incurred during 1974—78 under this sub-head. This step up is more than four times. For 1980-81 a provision of Rs. 800.00 lakhs has been proposed. The sector-wise details of the expenditure and outlay are given below:--

Sector	1974—78 Actual Expdr.	1978-83 Outlay Approved	1978-79 Actual Expdr.	1979-80 Outlay Approved	1980-81 Outlay proposed
1	2	3	4	5	6
1. Medical Education & Research ..	360.51	1116.72	132.78	225.00	265.00
2. Public Health ..	738.79	3,074.65	449.28	424.00	500.00
3. I.S.M. & Homoeopathy ..	29.78	207.63	10.08	31.00	35.00
Total ..	1,129.08	[4,399.00	592.14	680.00	800.00

MEDICAL EDUCATION AND RESEARCH

12.2. There are five Medical Colleges in the State of which three are State owned, one each at Amritsar, Patiala & Faridkot and two Private Medical Colleges, located at Ludhiana. Medical College, Faridkot was taken over by the Government in 1977-78. Admissions in this College were done in 1976 and sixty students were admitted. These were, however, stopped in 1977 pending provision of adequate physical facilities and staff according to the norms of Medical Council of India. During 1979-80, admission was resumed to Guru Gobind Singh Medical College, Faridkot, as all the facilities had been provided according to the norms. The annual intake of the State Medical Colleges is 150 each except the Medical College, Faridkot, where the intake is 60 and that of the two private Medical Colleges at Ludhiana is 50 each. The annual out-turn of medical Graduates which was about 400 earlier is likely to be about 450 with the resumed admission to Guru Gobind Singh Medical College, Faridkot. This out-turn is

sufficient for the requirements of public services as well as of the private sector. There is a State Dental College at Amritsar for Graduate and Post-Graduates training of Dental Surgeons and a Dental Wing is attached to the Medical College, Patiala.

12.3. Besides the Graduate courses, three colleges run degree and diploma Post-Graduate Courses, refresher courses for in-service doctors and also para-medical training courses for Pharmacists, Laboratory Technicians, Radiographers and Nurses.

12.4. The intake of Medical/Dental Graduates in different Colleges is given below:—

Medical College	Gradu- ates	Post- Gradu- ates in- cluding M.D. & M. S.
1	2	3
Medical College, Amritsar ..	150	79
Medical College, Patiala ..	150	79

Medical College	Graduates	Post Graduates including M. D. & M.S.
Christian Medical College, Ludhiana	50	—
Daya Nand Medical College, Ludhiana	50	—
Guru Gobind Singh Medical College, Faridkot	60	—
Total	460	173
Dental College:		
Dental College, Amritsar	30	5
Dental Wing, Medical College, Patiala	20	—
Total	50	5

12.5. The proposals for the Annual Plan, 1980-81, have been formulated with the following objectives in view:—

- (i) expeditious completion of on-going works ;
- (ii) increase the out-turn of Para-Medical staff ;
- (iii) construction of college campus in Guru Gobind Singh Medical College, Faridkot ;
- (iv) re-orientation of Medical Education with a view to progressively making the training of the medical students more community based ;
- (v) making up of deficiency in faculty staff/nursing/paramedical/Ministerial staff ;
- (vi) improvement of common facilities in the teaching hospitals ;
- (vii) continuance of staff sanctioned during 1979-80 ;

(viii) encouragement to research activities in medical colleges;

(ix) implementation of scheme—'Visual Impairment & Prevention of Blindness.'

12.6. Major programmes in the field of Medical Education and Research are as under:—

MEDICAL COLLEGES

(i) Medical College, Faridkot:

An outlay of Rs. 103.00 lakhs has been provided during 1979-80 for the construction of new college campus and for the provision of teaching staff as per norms fixed by the Medical Council of India. But construction works are not likely to be completed during this year. An outlay of Rs. 109.00 lakhs has therefore been proposed for continuance of the posts sanctioned during 1979-80 and to meet the spill-over requirements of construction works of college campus, animal house and mortuary blocks.

(ii) Medical College, Amritsar:

An outlay of Rs. 11.60 lakhs was provided in the Annual Plan, 1979-80, for the improvement and expansion of Medical College, Amritsar. The outlay provided is for the following works:—

- (i) Completion of Multipurpose Hall-cum-Library.
- (ii) Completion of 24 Registrar Flats.
- (iii) Strengthening the Blood Bank and Medicine Deptt.
- (iv) To provide Ministerial and Class-IV staff for the office of the Principal and of the Departments.

An outlay of Rs. 6.70 lakhs has been proposed for 1980-81 to meet out the spill-over requirements and to continue the posts sanctioned during 1979-80. This allocation provides for some posts of paramedical staff and purchase of equipment and drugs.

(iii) Medical College, Patiala:

For the improvement of this college an outlay of Rs. 3.20 lakhs is proposed for the following works:

- (i) Completion of the on-going works and swimming pool for students.

- (ii) To continue the posts sanctioned during 1979-80.

It is also proposed to create posts of Photo Sign Officers, purchase of modern books/Journals for Library and strengthening of Blood Bank.

(iv) Dental College/Wing:

There is a Dental College at Amritsar and Dental Wing of Medical College, Patiala. Outlays of Rs. 0.70 lakh and Rs. 1.60 lakhs, respectively, were provided for these institutions during 1979-80. Outlays of Rs. 1.45 lakhs and Rs. 3.00 lakhs, respectively, are proposed for 1980-81. It is proposed to provide staff in the Dental College, Amritsar, according to the norms prescribed by the Dental Council of India. The dental wing at Patiala is housed in very crowded premises of the Medical College. Though provision exists in the Annual Plan for the construction of an independent building for the dental wing, the work is not likely to be started during the current year. It is, therefore, proposed to take up this work during 1980-81.

12.7. In order to bring up the Scheduled Castes M.B.B.S. students to the level of open merit students, arrangement has been made for their special coaching. Extra classes are taken by the lecturers outside the normal working hours. An outlay of Rs. 0.35 lakh is proposed for payment of remuneration to the lecturers.

Teaching Hospitals:

12.8. (i) Shri Guru Teg Bahadur Hospital, Amritsar:—The following works are already in progress and are not likely to be completed during the current year :—

- (i) Construction of Operation Theatre-cum-Kitchen Block.
- (ii) Construction of Indoor Blocks.
- (iii) Connecting Passage & Lift.

Some essential new works such as construction of Radiology Block, Nursing Hostel/House Surgeons Hostel, Medical Store and Hospital Pharmacy will be taken in hand during 1980-81. An outlay of Rs. 52.10 lakhs has been proposed to continue the posts sanctioned during 1979-80 and to meet the spill-over requirements and also to take in hand some most essential construction works

during 1980-81. The provision also includes for providing modern machinery & equipment for medical care, like cardiac therestic, neurology and cardiac etc.

(ii) Rajindra Hospital, Patiala:—

An outlay of Rs. 54.30 lakhs is proposed for 1980-81. The expenditure will be on the continuance of the posts sanctioned during 1979-80 for meeting the spill-over liability of the on-going works which are detailed below:—

- (i) New casualty Block and Operation Theatre Block of Casualty Block.
- (ii) Cobalt Therapy Unit.
- (iii) Mental Diseases Wing of Rajindra Hospital.

The outlay also provides for the following essential new works to be taken in hand during 1980-81 :—

- (i) Construction of Building for Workshop and Pharmacy.
- (ii) Expansion of Glucose Saline Unit and Blood Bank and Plasma Unit.

The provision is also meant for the faculty staff, works staff and for the purchase of machinery and equipment for Cobalt Therapy Unit to be commissioned during 1980-81.

(iii) T.B. Sanitorium:—

Outlays of Rs. 4.70 lakhs and Rs. 2.50 lakhs are proposed for (i) meeting the liability of spill-over works and (ii) the staff to be continued sanctioned during 1979-80 for T.B. Sanitorium, Amritsar and T.B. Centre, Patiala.

Training facilities for Para-Medical Staff:

12.9. To meet the requirement of para-medical staff such as pharmacists, laboratory technicians, radiographers, nurses, A.N.Ms. of the existing hospitals and institutions, Government as well as private, are providing training facilities. An outlay of Rs. 2.50 lakhs is proposed for the year 1980-81 almost for the continued component.

Re-orientation of Medical Education:

12.10. It is a centrally-sponsored scheme on a sharing basis between the State Government and

the Government of India. The scheme has been implemented during 1979-80. Initially it was decided by the Government of India to provide assistance, on one time basis to medical colleges for attaching three development blocks each for training students in community medicine. The assistance, is however, limited to a few items. The salary of the staff after the first year and the purchase of medicines were required to be financed by the State. But now according to the revised pattern of Central assistance, this scheme will be implemented on 50:50 basis. The total liability of the scheme is Rs. 33.74 lakhs during the year 1980-81. The provision is required for the staff provided during 1979-80, under the scheme in three medical colleges. An outlay of Rs. 16.87 lakhs is proposed as State share for the year 1980-81.

Visual Impairment and Prevention of Blindness :

12.11. It is a Centrally sponsored scheme on sharing basis. Some of the components of the scheme have already been implemented by the Director, Health Services. Other components of the scheme are yet to be implemented by the Director, Research and Medical Education. An outlay of Rs. 5.28 lakhs is, therefore, proposed as State share for 1980-81. The provision is required to continue the Mobile Eye Unit attached to Medical College, Amritsar and also to make available staff and equipment for the second Mobile Unit to be attached to Medical College, Patiala for which Government of India will release vehicles. This outlay is also meant for upgradation of Eye Department of Medical College, Amritsar into that of Community Ophthalmology for which a matching grant of Rs. 5.00 lakhs is to be released by the Government of India in the shape of equipment.

PUBLIC HEALTH

12.12. Public Health has not received due priority in the past. In particular, the rural areas have received scant attention. In the Sixth Five-Year Plan there is a considerable concentration on health facilities in rural areas. The major thrust of the Public Health Programmes towards creating comprehensive and well structured health service.

The following structure for health services have been visualised :—

- (i) The base of the structure is the subsidiary health centre (rural dispensary). It will have one doctor, one dispenser, 4 Class IV employees and one male and one female multipurpose workers. At a later stage, the Centre will have two doctors, one male and one female. The dispensary will also have four beds. It will provide both preventive and curative services and also takes care of family welfare programme. The target is to provide one such dispensary per 5000 population. The State's rural population being about 13 million, 2600 such dispensaries are required.
- (ii) A 25 bed rural hospital at the block level is the second tier of the envisaged structure. It will serve as the first referral institution for the rural dispensaries. The target is to have one hospital in each block. Efforts will also be made to provide specialists services at the block level hospitals. In due course, a dental department with a qualified dentist will also be provided.
- (iii) Well equipped tehsil and district hospitals form the apex of the structure.

Rural Health Services

12.13. At the end of the Fifth Five Year Plan there were 716 rural dispensaries. It is proposed to set up 1200 new dispensaries during the Sixth Plan, 200 in 1978-79 and 250 in each of the subsequent year raising the total to 1916. If this schedule is adhered to there will be one dispensary for every 10,000 population by the end of 1979-80. The final target of one dispensary per 5000 rural population will be realised by 1984-85 or 1985-86. During the current year, 250 new dispensaries will be established with an estimated cost of Rs. 95.46 lakhs. It is proposed to set up 250 new dispensaries in 1980-81. For this purpose, an outlay of Rs. 150.00 lakhs is proposed.

12.14. 25 bedded hospitals are established at block level either by upgrading the existing Primary

Health Centres or by establishing new ones. The number of such hospitals was 81 at the end of 1978-79. In 1979-80, 30 new hospitals are expected to be established. An outlay of Rs. 77.00 lakhs is proposed in 1980-81 for the establishment of 10 more block level hospitals.

12.15. Ten dental clinics will be established at the block level hospitals during the current year. It is also proposed to establish 10 more dental clinics at the block level during 1980-81. An outlay of Rs. 6.00 lakhs is proposed for 1980-81 against the anticipated expenditure of Rs. 4.00 lakhs during 1979-80. There is a proposal to provide 5 teams of specialist at block level against the original target of 10 teams during 1979-80. Each team will consist of specialists in six specialities viz. medicine, surgery, mid-wifery and gynae, eye and E.N.T., paediatrics and anaesthesia. The team will be provided with a mini bus for enabling it to provide services to the entire block population at regular intervals. The outlay of Rs. 1.25 lakhs proposed for 1980-81 is only for the continued component and no new specialists team will be set up.

12.16. Out of the existing 129 PHCs, the building of 105 PHCs have been completed. The work with regard to 10 PHCs is in hand. An outlay of Rs. 1.00 lakhs is proposed for the completion of on going works and to take up the construction of remaining PHCs.

Health Facilities in Urban Areas:

12.17. The most important programme for the development of health facilities relates to the up-gradation of existing hospitals. At the district headquarters towns of Amritsar, Ludhiana and Patiala there are teaching hospitals with over 1000 beds. Each Faridkot and Jullundur have 400 bed hospitals and these will be upgraded to 2,000 bedded hospitals during the Sixth Plan. In the remaining towns medical facilities vary from a dispensary to a small hospital. During Sixth Five-Year Plan only development of the existing health facilities will be provided. New dispensaries/hospitals will be opened only in urban slum areas or other localities not covered by these facilities. It is proposed to upgrade 3 Sub-Divisional level hospitals during 1980-81. An outlay of Rs. 33.85 lakhs is proposed for this purpose. An outlay of

Rs. 1.25 lakhs is proposed in 1980-81 for the maintenance of the intensive care unit opened in 1979-80.

12.18. Another important programme is the opening of dispensaries in urban slum areas or other suitable places. The target is to open 10 dispensaries under this scheme during the current year. It is proposed to open ten more such dispensaries during 1980-81. An outlay of Rs. 7.50 lakhs is proposed for this purpose. At present about 60 local body hospitals and dispensaries are functioning in the State. It is proposed to provincialise a substantial portion of these hospitals during the Sixth Plan. It has been decided to provincialise Municipal Hospital, Jagraon and 10 Zila Parishad dispensaries during the current year. It is proposed to provincialise 10 more Municipal Hospitals/ Dispensaries during 1980-81. An outlay of Rs. 3.00 lakhs is proposed for the year 1980-81.

Control/Eradication of Communicable Diseases :

12.19. The Control and eradication of communicable diseases such as Malaria, T.B., Trachoma and other causes of visual impairment and Blindness and leprosy control are covered by Centrally Sponsored Schemes. Previously, the operational cost of these schemes, was borne by the State. According to the revised pattern of central assistance now these schemes will be implemented on a sharing basis. An outlay of Rs. 153.80 lakhs is proposed as State share under these schemes for 1980-81.

Other Programmes :

12.20. In the National Draft Five-Year Plan considerable emphasis has been laid on the Community Health Workers Scheme. This scheme was initiated in Punjab in 20 blocks on 2nd October, 1977 as a Centrally Sponsored scheme on cent per cent basis. Initial experience suggests that in the conditions obtaining in the State this scheme is of doubtful utility. Now it is a Centrally shared scheme on 50:50 basis. But it has been decided to discontinue it in the interest of the State after 1979-80. However, a provision of Rs. 10.50 lakhs is proposed to pay the salaries to the 1055 Community Health Workers employed during 1977.

12.21. The State Plan lays stress on the multipurpose workers scheme. Under this scheme for every 5000 rural population one sub-centre is provided, manned by one male and one female multipurpose worker. The entire State will be covered by March, 1980. Now it is a centrally shared scheme on 50:50 basis. An outlay of Rs. 12.40 lakhs is proposed as State share for the year 1980-81.

12.22. It is proposed to set up a Central Medical Store at Ludhiana to meet the requirement of drugs and medicines for hospitals/dispensaries. An outlay of Rs. 4.20 lakhs was provided for its establishment during 1979-80. A modest provision of Rs. 2.70 lakhs is proposed for the year 1980-81.

12.23. An outlay of Rs. 6.37 lakhs has been provided during 1979-80 for setting up of repair and maintenance unit for health equipment. A provision of Rs. 1.50 lakhs is proposed for the year 1980-81. It is envisaged to strengthen five district laboratories and Food Standard Organisation during 1979-80. An outlay of Rs. 3.71 lakhs has been provided for the purchase of equipment and providing additional staff to their organisation. A provision of Rs. 3.15 lakhs is proposed in 1980-81 for this purpose.

Employee's State Insurance Schemes :

12.24. The schemes of the Employees State Insurance Corporation have been a neglected field in the past, even though for every rupee provided by the State Government the Corporation provides seven rupees. In the Sixth Plan, the provision for E.S.I. Scheme has been sharply stepped up. In the Annual Plan 1979-80, a sum of Rs. 11.10 lakhs has been provided. An amount of Rs. 77.70 lakhs will be contributed by the ESI Corporation. An outlay of Rs. 19.55 lakhs is proposed for 1980-81 as State share. With this outlay ten new ESI dispensaries will be established. It is also proposed to strengthen one ESI hospital and two ESI dispensaries.

INDIAN SYSTEM OF MEDICINES AND HOMOEOPATHY

12.25. In the past, a policy of drift has been followed with regard to Ayurvedic and other Indian system of medicine. Indigenous system of medicine and Homoeopathy could not have a fair chance to prove their worth, because for providing

services, through these systems have been inadequate. A sum of Rs. 207.60 lakhs provided in the Sixth Five-Year Plan (1978—83) for the I.S.M. and Homoeopathy is five times more than the outlay provided under the Fifth Five-Year Plan. The main aim is to consolidate the existing institutions and fill up the obvious gaps.

12.26. An outlay of Rs. 31.00 lakhs has been provided in the Annual Plan 1979-80. 35 Ayurvedic Dispensaries are envisaged to be set up during 1979-80. During 1980-81 a sum of Rs. 35.00 lakhs has been proposed. 35 ISM and Homoeopathy dispensaries will be opened during 1980-81.

Ayurvedic College, Patiala :

12.27. During the year 1979-80 it was envisaged to develop the Government Ayurvedic College, further by strengthening the existing departments of the college and establishing a Health Education Unit and a unit each for Yoga and Nature Cure. During the year 1980-81 the continuation of these components would cost Rs. 0.70 lakh and it is also proposed to provide additional accommodation for boys and girls hostels attached to the Government Ayurvedic College, Patiala. An outlay of Rs. 1.70 lakhs is proposed for this purpose during the year 1980-81.

Ayurvedic Hospital, Patiala :

12.28. Basic requirement of students for clinical training in the matter of bed ratio fixed by the Central Council of Indian Systems of Medicines is five beds per student. Accordingly the minimum requirement of bed strength of the hospital comes to 150 beds. At present 100 beds exist in the hospital. It was envisaged to raise the bed strength to 150 and for this purpose a provision of Rs. 5.00 lakhs was made for construction of new building for additional 50 bed ward during 1979-80. For the year 1980-81, an outlay of Rs. 2.27 lakhs is for the spill over work.

Ayurvedic Pharmacy, Patiala :

12.29 Under this scheme, Rs. 4.40 lakhs has been provided for the year 1978-79 for additional staff and for the construction of new building of the Pharmacy. This was considered essential for ensuring proper standards of medicines being manufactured in the Pharmacy and speedy supply

of medicines to hospitals and dispensaries. A provision of Rs. 4.70 lakhs is proposed in the Annual Plan 1980-81 for the staff sanctioned during 1979-80, replacement of out-dated and obsolete machinery and the construction of a new building .

Strengthening of the State Headquarters staff :

12.30. In view of the substantial expansion of the I.S.M. and Homoeopathy institutions under the Sixth Plan, it is very essential to strengthen the department of ISM and Homoeopathy. During the year 1979-80, it has been proposed to provide various administrative wings headed by the officer

of the Assistant Director's rank. An amount of Rs. 1.25 lakhs has been provided for the continuation of the staff in the Annual Plan 1980-81.

Strengthening of the District Headquarters Staff :

12.31. In order to ensure effective inspection of the dispensaries and proper implementation of the Plan Programmes, a scheme was included in the Annual Plan 1979-80 for strengthening of the District Ayurvedic offices, by providing some bare minimum staff. For the continuation of this component, an outlay of Rs. 5.75 lakhs is proposed, in 1980-81.

Urban Development, Housing and Rural Water Supply

URBAN DEVELOPMENT

The Economic Development of the State through Five-Year Plans has accentuated the urbanisation process and migration of population from rural to urban areas. In order to check disequilibrium between the pace of urbanisation and urban facilities/civic amenities, a provision of Rs. 8,448.00 lakhs was made for sub-head Urban Development during Sixth Five-Year Plan. During 1978-79, a sum of Rs. 745.32 lakhs was spent on various schemes of urban development. In 1979-80 an outlay of Rs. 2000.00 lakhs (including Rs. 600.00 lakhs L.I.C. loan) was provided for this purpose. An outlay of Rs. 2500.00 lakhs (including Rs. 610.00 lakhs L.I.C. loan) has been proposed for 1980-81 for sub-head Urban Development, which together with funds from institutional, municipal and other resources should achieve substantial results. The increase in outlay during 1980-81 has been on account of the transfer of Centrally Sponsored Schemes to the State sector and the commitment of the State on account of World Bank assisted Water Supply and Sewerage Project.

Urban Estates

13.2 The development of urban estates involves the acquisition and development of land by providing infrastructural facilities and public amenities. Considerable progress has been made and well conceived urban estates have been set up at S.A.S. Nagar, Bhatinda, Patiala, Rajpura, Phagwara, Ludhiana (Dhandari Kalan, Dugri Road and Samrala Road) Jullundur and Batala. Upto 31st March, 1979 a sum of Rs. 3358.58 lakhs had been invested for the development of these urban estates. During 1979-80, an amount of Rs. 400.00 lakhs has been earmarked for the development of 400 acres of land already acquired and for the payment of compensation. In the Annual Plan 1980-81, an outlay of Rs. 400.00 lakhs is again proposed for the development of additional 400 acres of land and with this amount 3200 plots will be ready for sale to public.

13.3 Since urban development needs massive funds which are beyond the capacity of the resources available, it is felt that an autonomous body like Urban Development Authority may be established so that institutional finance could be availed of. The matter regarding the constitution of such an authority is under the consideration of State Government.

Urban Water Supply and Sewerage

13.4 The population of the State in the year 1978 is estimated at 114.20 lakhs. Of this 40.50 lakhs people (35%) live in 109 cities/towns. By the end of 1978, 60% of the urban population in 70 towns was served through tapped water supply system. However, these cities were not being fully served. 58 towns were having partial sewerage facilities, and only 19% of the urban population was having access to the sewerage system. To serve 100% urban population by end of 1990 with water supply, the total investment needed will be about Rs. 50.28 crores during 1981-90. Similarly the estimated amount required for providing sewerage system for 100% urban population by end of 1990 is Rs. 133.40 crores.

13.5 The most important programme of Urban Water Supply and Sewerage under implementation in the State is the Rs. 66.70 crores World Bank assistance project for 8 major cities/towns to be completed in 3½ years by March, 1982. The Government of India will give to the State 75% of the IDA assistance i.e. Rs. 22.61 crores (35% of total cost) for the implementation of the project. In addition, the State Government will contribute Rs. 10.07 crores (15% of total cost) from its own resources. The State's budgetary contribution of Rs. 32.68 crores has been fully provided in the Draft Sixth Five-Year Plan as "Loans to Municipal Committees". The balance will be met by direct loans from L.I.C. (Rs. 13.00 crores i.e. 20% of total cost) and contribution of beneficiary Municipal Committees and Corporations (Rs. 21.02 crores i.e. 30% of total cost). During 1979-80,

a provision of Rs. 15 crores (including Rs. 6.00 crores L.I.C. loan) was made under the scheme 'Loans to Municipal Committees' to implement this project for other municipalities for their water supply and sewerage schemes. During 1980-81 a provision of Rs. 17.07 crores (including Rs. 6.10 crores L. I. C. loan) has been made under this scheme for implementation of I.D.A. project and other water supply and sewerage schemes in the State. The details of this provision are given as under :—

Serial No.	Name of the scheme/Project	Provision during 1980-81	
		Details	Total
1	2	3	4
		Rs.	Rs.
		(lakhs)	(Crores)
1	IDA Project—		
	IDA Loan ..	630	
	State Government Contribution ..	270	
	LIC Contribution ..	360	
	Total ..	1260	12.60
2	New Water supply and sewerage Project under LIC assistance :		
	(i) State Share ..	60	
	(ii) LIC contribution ..	250	
	Total ..	310	3.10
3	Continuing water supply schemes under non LIC and non IDA		
	Loans to M.Cs ..	70	
4	Continuing sewerage schemes under non-LIC and non-IDA		
	Loans to M.Cs. ..	67.32	
	Total ..	137.32	1.3732
	Grand Total ..	1707.32	17.0732

13.6 The Punjab Water Supply and Sewerage Board which was constituted under the Punjab Water Supply and Sewerage Board Act, 1976 for the purpose of regulation of drinking water supply and sewerage in the State is responsible for the implementation of the World Bank Project and

other Water Supply schemes in towns. The State Government have agreed to provide Rs. 8.00 crores as equity [contribution towards working capital of the Board for execution of World Bank Project and other schemes. By the end of 1978-79 a total amount of Rs. 3.45 crores was paid to the Water Supply and Sewerage Board as share capital contribution. A sum of Rs. 50.00 lakhs is provided during 1979-80 for this purpose. A provision of Rs. 1.00 crore has been made for equity contribution in 1980-81.

Improvement Trusts

13.7 The Improvement Trusts receive contribution from the Municipal Committees at 2% of the latter's revenue. This is an inadequate provision particularly in the case of Municipal Committees, with weak financial position. Therefore, most of the Improvement Trusts generally need Loan assistance from the State Government. During 1978-79, Rs. 45.00 lakhs was advanced as assistance to these bodies. During 1979-80, an outlay of Rs. 15.00 lakhs stands provided for this purpose. An outlay of Rs. 15.00 lakhs is proposed during 1980-81 for this scheme.

13.8 An important new initiative in 1978-79 was taken for providing 50—75 sq. yds. plots to urban harijans through Improvement Trusts by providing Rs. 10.00 lakhs for this purpose. During 1979-80 a provision of Rs. 15.00 lakhs was made in this respect and during 1980-81 same outlay of Rs. 15.00 lakhs is proposed. A modest provision of Rs. 2.00 lakhs was made for limited programme of environmental improvement of slums such as drinking water, pavement of streets, pucca drainage, street lights and public urinals and latrines during 1979-80 and the same outlay is proposed for 1980-81.

Town and Regional Planning

13.9 Area Planning in the rural sector involves preparation of physical development plans for blocks and villages. During 1978-79, physical development plans for 9 blocks and 45 focal villages covered under IRDP programme was completed. In the urban sector Integrated Urban Development Project for Patiala was finalised. The project report for the Integrated Development of Bhatinda was also prepared during the year 1978-79. An amount of Rs. 17.00 lakhs was spent on Town and

Regional Planning during 1978-79. For 1979-80, an outlay of Rs. 18.00 lakhs has been provided for the preparation of physical development plans for 15 blocks and 45 villages. In the urban sector nucleus staff for planning and designing for setting up one new town at Phillaur is required. The scheme is proposed to be continued during 1980-81 with a provision of Rs. 18.00 lakhs.

Integrated Urban Development Programme

13.10 The Government of India has discontinued the Integrated Urban Development Programme as a Centrally-sponsored Scheme which was implemented in towns with a population of more than 3 lakhs and a new scheme called the Integrated Urban Development of small and medium towns has been started. During 1980-81, a provision of Rs. 150.00 lakhs has been made for using it as a revolving fund for the implementation of the on going programmes and for providing loan assistance to towns with weak financial position.

Other Centrally-sponsored Schemes

13.11 The following other schemes which were earlier financed by the Government of India under the Centrally-sponsored programme have been transferred to the State Sector from 1979-80 :—

- (1) Sewage, Sullage Utilisation ;
- (2) Setting up Mechanical Compost Plants at Ludhiana, Jullundur and Amritsar ;
- (3) Conversion of Dry Latrines into Sanitary ones ; and
- (4) Urban Solid Waste Disposal.

13.12 It has been decided in principle to provide Rs. 156.16 lakhs during 1979-80 for the continuation of these schemes. During 1980-81, an outlay of Rs. 92.68 lakhs is proposed for Sewage Sullage Utilisation (Rs. 50.00 lakhs) and for setting up of Compost Plants (Rs. 42.68 lakhs).

HOUSING

13.13 With the increasing pace of urbanisation, and phenomenal increase in population, the housing problem is becoming very acute in urban areas. This has led to unprecedented increase in rents. This problem is felt more by the salaried class of workers, particularly government servants. Realising the gravity of this situation, the State Government have provided an outlay

of Rs. 5,194.00 lakhs for various housing schemes in Draft Sixth Five-Year Plan. During 1978-79 an expenditure of Rs. 808.42 lakhs was incurred on this sub-head of development. During 1979-80, an outlay of Rs. 934.00 lakhs has been provided. For 1980-81 an outlay of Rs. 1024.00 lakhs is proposed. The increase under this sub-head of development is under scheme—“Loans to Government servants” (Rs 40.00 lakhs) which has been necessitated due to revision of pay scales of Punjab Government employees and the inclusion of scheme—village housing project for which a loan of Rs. 50.00 lakhs is anticipated from the General Insurance Corporation during 1980-81.

Houses for Government Servants

13.14 The number of employees in the State has risen from 1.73 lakhs at the end of March, 1971 to 2.46 lakhs at the end of March, 1978. This number is likely to increase to 2.66 lakhs at the end of March, 1980. But there has not been a commensurate increase in the residential accommodation available with the Government. Due to general shortage of residential accommodation all over the State, the rents have risen sharply and the government servants are forced to pay high rents for very inadequate accommodation, which affects their morale, efficiency and sense of discipline.

13.15 In order to solve this problem Rs. 142.98 lakhs were spent during 1978-79. To provide boost to the construction of houses for Government employees, it was decided during 1979-80 to avail the HUDCO loan assistance for this scheme and the job of constructing these houses was transferred to Punjab Housing Development Board. The number of houses in the lowest three categories accounts for 92% of the total number of houses, whereas the rest of 8% of the total number of houses will be of four higher categories. The average estimated cost inclusive of cost of land as intimated by the Punjab Housing Development Board is Rs. 35,000 per house. An outlay of Rs. 355.00 lakhs was provided during 1979-80 for construction of about 2,060 residential houses and 997 flats for Government employees at District/ Tehsil headquarters and places other than district/ tehsil headquarters, focal points and at Chandigarh. It is anticipated that with the changed design of houses, reduced cost of construction and with

HUDCO loan assistance, it may be possible to exceed this target.

13.16 During 1980-81, the outlay proposed for this purpose is same i.e. Rs. 355.00 lakhs in spite of the fact that liability to pay interest on loan received during 1979-80 to HUDCO is to be met during the current year. After meeting this requirement and making a provision of Rs 25.00 lakhs to P.W.D. for the completion of spill-over works, it is expected that during 1980-81 the construction of 1,209 houses and 362 flats will be completed. The break up of this provision for different places and the anticipated targets during 1980-81 are given below:—

Serial No.	Places where the houses are proposed to be constructed	Outlay (Rs. in lakhs)	Target (No. of houses)
1	2	3	4
1	At district/tehsil headquarters	215.00	1013
2	Other than district/tehsil headquarters		
3	At focal points	50.00	196
4	At Chandigarh	90.00	362 (flats)

13.17 An outlay of Rs. 879.00 lakhs has been provided in the Sixth Five-Year Plan for loans to Government servants for construction of houses. During 1978-79, Rs. 161.98 lakhs were disbursed as loans and during 1979-80, Rs. 160.00 lakhs are provided for this purpose. There is a growing demand by Government servants for house building loans. With the increase in the demand of loans to be provided for construction of houses due to revision of pay scales and increased cost of construction there is a demand of Rs 318.00 lakhs for 1980-81 for clearing the pending applications. Against this demand of Rs. 318.00 lakhs an outlay of Rs. 200.00 lakhs only is proposed for 1980-81. The recovery under this loan is 100% and practically the same amount is recovered from the loanees every year.

Police Houses

13.18 To remove the shortage of accommodation for police personnel Rs. 882.00 lakhs have been provided during Sixth Five-Year Plan.

During 1978-79, an expenditure of Rs. 84.10 lakhs was incurred. To provide further boost to the implementation of this scheme it was decided that HUDCO loan assistance should be availed for this purpose. During 1979-80, an outlay of Rs. 150.00 lakhs has been provided for the execution of this scheme. Out of this amount a sum of Rs. 30.00 lakhs is required by Public Works Department for the spill-over works. The balance amount is to be used as seed money to raise a loan of Rs. 280.00 lakhs from HUDCO. With this total provision of Rs. 150.00 lakhs and HUDCO loan of Rs. 280.00 lakhs, it will be possible to construct about 1,000 houses. During 1980-81, the same outlay of Rs. 150.00 lakhs is proposed. Since during 1980-81, liability to pay interest will be Rs 33.60 lakhs, only Rs. 116.40 lakhs will be available for use as seed money to raise loan from HUDCO. With this provision and HUDCO loan assistance, it will be possible to construct 870 houses during the year 1980-81.

Housing Development Board

13.19 The Board came into existence in May, 1973. The Housing Board is provided assistance by way of loans and subsidy for the construction of houses, booths, acquisition and development of land. Since its inception, Board received a loan of Rs. 787.50 lakhs from the State Government upto 31st March, 1978. During 1978-79, an expenditure of Rs. 173.04 lakhs was incurred by the Housing Development Board on construction of LIG, MIG, Shop-cum-Offices, shopping booths and development of land in various urban estates, out of a Plan provision of Rs 180.00 lakhs.

13.20 An outlay of Rs. 70.00 lakhs has been provided during 1979-80 which includes Rs. 47.50 lakhs as seed money for various schemes of the Board, Rs 5.00 lakhs as liability towards continuing schemes Rs 10.00 lakhs for commercial activities and Rs. 7.50 lakhs for land acquisition and development purposes.

13.21 During 1980-81 an outlay of Rs 70.00 lakhs is proposed for construction of various categories of houses by the Board after availing HUDCO loan assistance. The Board will meet the liabilities of principal and interest for payment to HUDCO out of advance deposits/recoveries from the applicants/allottees.

Subsidised Industrial Houses

13.22 During Sixth Five-Year Plan, a provision of Rs. 88.00 lakhs has been made for construction of residential houses for industrial workers and in three sectors i.e. State Sector, Co-operative Sector and Private Sector. During 1979-80, Rs. 9.00 lakhs have been provided for meeting the spill-over requirements of the scheme. It will be possible to construct about 60 houses in the State Sector with an amount of Rs. 5.00 lakhs. The balance 4.00 lakhs is to be utilised for purpose of loan and subsidy components of co-operative and private sectors. During 1980-81, same outlay of Rs. 9.00 lakhs is proposed and the level of achievement will be the same as in 1979-80.

Houses for Harijans

13.23 About 3 lakhs families have been allotted free house sites measuring 100 sq. yards each. The Punjab Housing Development Board has taken up the construction work on these sites. The cost of a house is placed at Rs. 4,000, out of which Rs. 3,000 will be paid as subsidy by the Government and Rs. 1,000 as loan to the beneficiary. The loan will be recovered in small monthly instalments spread over ten years. During Sixth Five-Year Plan, an outlay of Rs. 440.00 lakhs has been provided for this purpose. During 1978-79, Rs. 100.00 lakhs were provided to the Housing Development Board for construction of 5,000 houses. Since the Board could not complete the construction of 3,946 houses during 1977-78, it was expected that 8,946 houses would be completed by the end of 1978-79. Against this target, the Board completed only 508 houses, while another 1,600 houses were under construction by the end of 1978-79.

13.24 During the year 1979-80, a sum of Rs. 70.00 lakhs has been provided for construction of 3500 houses. During 1980-81 another sum of Rs. 70.00 lakhs is proposed. Out of this the Board will repay loan to the tune of Rs. 19.5 lakhs and interest to the tune of Rs. 15.19 lakhs to meet the total HUDCO liabilities for the loans raised or to be raised upto 31st March, 1980. After meeting the repayment liabilities, the net seed money with the Board will be Rs. 35.31 lakhs. Against this, the Housing Board will raise loan from HUDCO to the extent of Rs. 35.31 lakhs. Thus the available amount for the construction of Harijan houses during 1980-81 will

be Rs. 70.62 lakhs. The number of houses likely to be constructed will be 1765 on the basis of cost of Rs. 4,000 per house, the cost ceiling fixed by HUDCO.

Loans for L.I.G. Houses

13.25 Under the LIGH Scheme loans are sanctioned to individuals, whose income does not exceed Rs. 7,200 per annum. The maximum limit of loan is Rs. 12,500 or 80% of the cost of the house, whichever is less. The funds under this scheme are arranged from the LIC through the Government of India. During Sixth Five-Year Plan an outlay of Rs. 310.00 lakhs is provided for this scheme. During 1978-79 an expenditure of Rs. 70.00 lakhs was incurred under this scheme. During 1979-80 a sum of Rs. 60.00 lakhs has been provided for advancing loans to 1,200 beneficiaries for constructing houses. The provision in 1980-81 is also proposed at the same level i.e. Rs. 60.00 lakhs for helping the same number i.e. 1,200 beneficiaries.

Loans for Building Houses in Urban Estates

13.26 Under this scheme loans are sanctioned to the plot-holders of various urban estates in Punjab. This facility is considered necessary because most of the plot-holders belong to Low Income Groups or Middle Income Groups and do not have resources of their own to meet the cost of construction. The maximum limit of loan under this scheme is Rs. 55,000. During Sixth Five-Year Plan an outlay of Rs. 235.00 lakhs is provided for this purpose. A sum of Rs. 25.00 lakhs was advanced as loans during 1978-79 and during 1979-80 an amount of Rs. 60.00 lakhs has been earmarked for advancing loan under this scheme to 180 loanees. In 1980-81 an outlay of Rs. 60.00 lakhs is proposed for the benefit of additional 180 loanees.

Village Housing Project Scheme

13.27 This scheme was introduced by the Government of India in 1958-59 for extending financial assistance to the people living in rural areas for construction of houses. Under this scheme loans are advanced to the needy persons subject to a maximum loan of Rs. 5,000 per house.

13.28 No funds have been sanctioned under this scheme so far during 1979-80, but a sum of

Rs. 50.00 lakhs is expected as loan through Government of India during the year 1980-81.

13.29 Accordingly, an outlay of Rs. 50.00 lakhs is proposed for 1980-81. About 1,000 loanees will be given house building loan with this amount.

RURAL WATER SUPPLY

13.30 There are 12,188 inhabited villages in the State. To provide piped drinking water supply to all the villages, a sum of Rs. 372.00 crores is required which is beyond the capacity of the State. For the present the coverage is to be limited to only scarcity villages in terms of criteria, laid down by Government of India. The criteria are:

The villages—

- (i) without an assured source of drinking water within 1.6 Km. or so or ;
- (ii) where the source of water supply is endemic to water borne diseases like Cholera or ;
- (iii) where there is excess salinity, iron or flouride.

13.31 There are 3,800 villages which have been identified as scarcity villages. The total cost of providing piped water supply to these villages is estimated at Rs. 106.00 crores.

13.32 Over the years the design criteria for the rural water supply schemes have been made more liberal. In the beginning the schemes were designed with a water allowance of 5 gallons per head per day and there was to be practically no distribution system. Water supply was to be given through a battery of taps close to the water works. In 1961, the design criteria were increased to a water allowance of 10 gallons per day per head with a terminal pressure of 5 metres, and a skeleton distribution system catering to public stand posts only. In 1976, the criteria were further liberalised to 15 gallons (70 litres) per head per day and a terminal pressure of 8 metres. According to the revised criteria the augmentation of water supply to the already commissioned villages require an additional sum of Rs. 40.00 crores. Thus the total amount required to complete the work of providing water supply to 3,800 villages has been estimated at Rs. 146.00 crores.

13.33 By March, 1979, the water supply scheme had been commissioned in 1,810 villages at a cost of Rs. 26.42 crores.

Year-wise expenditure incurred since 1974-75 is given below :—

Year	Expenditure (Rs. in crores)
On the eve of Fifth Plan	12.59
1974-75	3.98
1975-76	3.68
1976-77	4.14
1977-78	5.34
1978-79	4.03
Expenditure under Accelerated Rural Water Supply Scheme (Govt. of India Scheme) during 1977-78 and 1978-79	2.45
Total	36.21

13.34 During 1979-80 an outlay of Rs. 5.00 crores was made for this programme. A sum of Rs. 2.00 crores was also expected to come from Government of India under the Centrally-sponsored scheme, 'Accelerated Rural Water Supply.'

13.35 Physical progress of the Rural Water Supply Programme is given in the following table:—

Year	Sanctioned	Commis- sioned	In prog- ress at the end of the year
Upto 1973-74	1,557	524	1,033
During 1974-75	46	317	762
During 1975-76	289	347	704
During 1976-77	135	284	555
During 1977-78	210	202	563
During 1978-79	236	136	663
Total	2,473	1,810	

During 1979-80 the target is to commission the water supply in 135 villages.

13.35 By the end of the current year, a total expenditure of Rs. 41.21 crores would have been incurred and the water supply commissioned in 1,945 villages. An outlay of Rs. 5.00 crores is proposed for 1980-81 for commissioning water

supply in 135 additional villages. Thus at the end of 1980-81, 2,080 villages will be provided with drinking water facility. The main emphasis under this programme is on the completion of the on-going works so that water supply facilities become available to as many as possible within the shortest time.

ANNUAL
STATEMENT
URBAN WATER SUPPLY AND SANITATION SCHEMES

Sr. No.	Name of the Individual Project	Location and brief objectives and scope of the project & year in which project was started	Estd. Cost.	Actual expenditure upto the end of Fifth Plan	Actual expenditure upto 31-3-79 (Including Col. 5)
1	2	3	4	5	6
1	Punjab Water Supply & Sewerage Project (IDA Project)	(i) 8 Cities/towns namely, Amritsar, Jullundur, Ludhiana, Patiala, Rajpura, Bhatinda, Moga & Pathankot (ii) Project started during 1978-79 (iii) The project aims to augment Water Supply & sewerage in the 8 towns mentioned above	6670	—	101.97
2	Water Supply scheme of 9 towns under LIC Project	(i) 9 towns namely, Mansa, Sirhind, Samana, Gidderbaha, Phillaur, Phagwara, Lehragaga, Kot Kapura & Hoshiarpur (ii) Project started during 1978-79 (iii) The Project aims to provide safe drinking water supply in 9 towns of the state mentioned in (i) above	481.49	—	173.97
3	New Water Supply & Sewerage Project under LIC assistance	(i) 28 towns mentioned in annexure-I as tentatively proposed (ii) The project would be started during 1980-81 (iii) It aims to provide/augment water supply & Sewerage in 28 towns of the State mentioned in (i) above	1200.00	—	—
4	Continuing Water Supply Schemes (Non IDA & non LIC)	Throughout Punjab	1530.27	622.09	866.92
5	Continuing sewerage schemes (Non IDA & non LIC)	Throughout Punjab State	1403.64	496.75	696.31
6	Centrally sponsored sewage/sullage utilisation schemes transferred by Govt. of India to State Govt. of Punjab	64 towns of the State mentioned in Annex-II. The project is to step up the utilisation of manurial resources & utilise sewage for agricultural purposes	600.47	137.42	203.14
7	Centrally sponsored schemes for conversion of dry latrines into Sanitary ones transferred by Govt. of India to Govt. of Punjab	Two towns, namely Barnala and Kotkapura	25.34	15.48	22.21
8	Centrally sponsored scheme for setting up Mechanical Compost Plants transferred by Govt. of India to Govt. of Punjab.	Ludhiana, Jullundur & Amritsar	192.00	—	—

PLAN 1980-81

WS-I

OUTLAYS AND EXPENDITURE

(Rs in lakhs)

Likely Expenditure during 1979-80		Requirement of funds during 1980-81			L. I. C Loan		
State Plan resources	Other resources (Specify)	State Plan resources	Other resources	Total to be availed of	Availed up to 1978-79	Availed during 1979-80	Requirement during 1980-81
7	8	9	10	11	12	13	14
814.00	400 (LIC & MCs. contribution)	900	360(LIC) 540 (MCs contribution)	1300	130.00	130.00	360.00
35.00	140 (LIC & M.Cs contribution)	—	—	325.00	200.00	125.00	—
—	—	60.00	250.00 (LIC) 60.00 (M.Cs.)	800.00	—	—	250.00
26.40	30.00 (M.Cs)	70.00	30.00	—	—	—	—
10.00	20.00 (M.Cs.)	67.32	20.00	—	—	—	—
64.60	50.00	50.00	50.00	—	—	—	—
1.34	—	—	—	—	—	—	—
—	—	42.68	126.00 (M. Corps) 21.32 (Central subsidy already released by G.O.I.)	—	—	—	—

ANNEXURE I

Sr. No.	Name of Town	Sr. No.	Name of Town
1.	Budhlada	15.	Doraha
2.	Raman Mandi	16.	Jagraon
3.	Jaitu	17.	Kurali
4.	Bhucho Mandi	18.	Nabha
5.	Zira	19.	Barnala
6.	Talwandi Bhai	20.	Sunam
7.	Nakodar	21.	Malerkotla
8.	Nurmchal	22.	NAC Patran
9.	Goraya	23.	Jandiala
10.	Hoshiarpur	24.	Gurdaspur
11.	Garh Shankar	25.	Sri Hargobindpur
12.	Kapurthala	26.	Fazilka
13.	Morinda	27.	Malout
14.	Khanna	28.	Dhuri

ANNEXURE II

Sr. No. Name of Town	Sr. No. Name of Town
1. Hoshiarpur	33. Raikot
2. Dasuya	34. Samrala
3. Gardhiwala	35. Jagraon
4. Tanda Urmar	36. Barnala
5. Mukerian	37. Tappa
6. Garh Shankar	38. Bhadaur
7. Roop Nagar	39. Sangrur
8. Kurali	40. Sunam
9. Kharar	41. Bhawanigarh
10. Morinda	42. Lehragaga
11. Pathankot	43. Dhuri
12. Majitha	44. Ahmedgarh
13. Patti	45. Maur
14. Batala	46. Bhucho Mandi
15. Tarn Taran	47. Budhalada
16. Moga	48. Goniana
17. Zira	49. Raman Mandi
18. Basti Tankawali	50. Sangat
19. Kotkapura	51. Mansa
20. Jallalabad	52. Rampura Phul
21. Talwandi Bhai	53. Dera Bassi
22. Dharmkot	54. Rajpura
23. Jullundur	55. Gobindgarh
24. Kartarpur	56. Gurdaspur
25. Alawalpur	57. Malout Mandi
26. Nakodar	58. Ludhiana
27. Banga	59. Bhatinda
28. Rahon	60. Nabha
29. Kapurthala	61. Samana
30. Nawan Shaher	62. Amritsar Part I & II
31. Doraha	63. Jullundur Part-II
32. Payal	64. Patiala

ANNUAL PLAN 1980-81

Statement W S—II

RURAL WATER SUPPLY—OUTLAY AND EXPENDITURE

(Rs. in lakhs)

Name of the Individual project	Mode of Water Supply	Location and brief objectives & scope of the project & year in which project was started	Estimated cost	Actual Expd. up to the end of Fifth Plan	Actual Expenditure up to 31-3-79 (including col. 5)	Likely expenditure during 1979-80		Requirement of funds during 1980-81	
						State Plan resources	Other resources (specify)	State Plan resources	Other resources (specify)
1	2	3	4	5	6	7	8	9	10
Minimum Needs Programme Rural Water Supply	Piped Water Supply	The water supply schemes are located in the rural areas of the Districts of Hoshiarpur, Gurdaspur, Patiala, Ropar, Bhatinda, Ferozepur, Faridkot, Sangrur, Amritsar, Jullundur and Kapurthala, where scarcity of drinking water exists. The objective is to provide safe and potable water to rural masses through piped water supply schemes. This scheme has been continuing since 1954.	14600.00	3073.63*	3622.02	500.00	200.00**	500.00	200.00**

*It also includes expenditure under Accelerated Rural Water Supply.

**Anticipated from Govt. of India under ARP.

Welfare of Scheduled Castes and Backward Classes

The Scheduled Castes & Backward Classes constitute about 30% of the total population of the State. The Scheduled Castes alone constitute 25% of the State population which is the highest percentage in the country. They are spread all over the State in varying proportions. 85% of their total population live in rural areas as compared to 73% of the non-scheduled castes. In the rural areas they are mostly engaged in occupation of agricultural labour and a small number of them is marginal agriculturists. Others are engaged in traditional occupations linked to their castes. The literacy level among them is very low. It is much more unsatisfactory among the women. The Scheduled Castes all are generally below the poverty line. Under the National Policy of eradication of poverty, efforts are being made for their development in the State by raising their literacy rate, economic betterment and by providing minimum facilities of living which in turn help to eliminate the disparities existing between these castes and the rest of the population. Since the 1st Five-Year Plan special programmes for the welfare of Scheduled Castes have been regularly formulated and implemented. Emphasis has been laid on programmes (i) for the spread of education, (ii) economic development and for (iii) housing, environmental improvement and other social assistance.

14.2 In the Sixth Five-Year Plan, an outlay of Rs. 2130.00 lakhs has been earmarked for the development of Scheduled Castes and Backward Classes. An amount of Rs. 229.19 lakhs was actually spent during 1978-79. An outlay of Rs. 264.00 lakhs stands provided in the Annual Plan 1979-80. An outlay of Rs. 414.00 lakhs is proposed for the year, 1980-81 for the various programmes which are described below:—

Programme for Education :

14.3 Education is the basic input for improving the socio-economic conditions of the Scheduled Castes. It creates the inner strength among the people to face oppression, humiliation and inequality. Under this programme the most important scheme is 'Pre-matric coaching to Scheduled Caste students.' Under this scheme teachers in English, Mathematics and Science are engaged in each High/Higher Secondary School to provide extra coaching to Scheduled Caste students of 9th to 11th classes and an honorarium of Rs. 100/- per month per teacher is paid for a period of six months during the year. An outlay of Rs. 19.00 lakhs is proposed to benefit 31,000 students. Stationery and books are provided to the students of 6th to 8th Classes under another scheme 'Grant for the purchase of books and stationery'. An outlay of Rs. 22.40 lakhs is proposed to benefit one lakh students. The grants are also provided to the institutions for the purchase of law, medical and engineering books, as the books of these subjects are generally very expensive. An outlay of Rs. 2.25 lakhs is proposed for this purpose. A scheme has also been launched to impart training in stenography to Scheduled Castes under which a stipend of Rs. 100/- per month is provided. For this scheme a sum of Rs. 2.00 lakhs has been proposed. From 1980-81, a new scheme, 'B.Ed. and J.B.T. training to Scheduled Caste graduates and matriculates' has been proposed to induct under this programme for which an outlay of Rs. 5 lakhs is set aside.

Programme for Economic Uplift :

14.4 Economic backwardness among these castes is the major factor for the deplorable conditions of living. Under this programme efforts are made to lift them above the poverty line. The Scheduled Castes are generally

agricultural labourers and petty rural artisans. In order to enable the labourers to become cultivators, subsidy is provided for the purchase of agricultural land, construction of wells/houses on that land and also to meet the registration charges of various deeds. A sum of Rs. 18.60 lakhs will be spent benefiting 300 families.

14.5 Two Corporations—Punjab Backward Classes Land Development and Finance Corporation for Backward Classes and Punjab Scheduled Castes Land Development and Finance Corporation for Scheduled Castes, have been set up for providing soft loans to these classes. It is proposed to strengthen the capital base of these organisations to expand their activities. A sum of Rs. 30.00 lakhs for BACK-FINCO and Rs. 50.00 lakhs for Punjab Scheduled Castes Land Development and Finance Corporation has been provided as share capital contribution by the State. A scheme is also in operation in the State to impart technical training in different industrial trades specially to Scheduled Castes boys and girls for converting them into skilled workers. A sum of Rs. 8.00 lakhs is proposed under this scheme for 1980-81. A new scheme 'Subsidy on interest' has been introduced to subsidise the interest rates on the loans raised from the Commercial Banks through the Punjab Scheduled Castes Land Development and Finance Corporation and Punjab Backward Classes Land Development & Finance Corporation for the members of Scheduled Castes and Backward Classes. For this scheme an outlay of Rs. 100.00 lakhs is proposed for 1980-81.

Programme for Health, Housing and other Social Assistance :

14.6 Scheduled Castes often live in dirty,

unclean and unhygienic basties. For this purpose a scheme 'Environmental improvement of harijan basties including drinking water wells' is in operation. Environmental improvement of harijan basties is done by constructing pucca streets, drains and providing drinking water. Under this scheme a sum of Rs. 74.00 lakhs is proposed to be spent covering 140 villages. The sweepers, scavengers, flayers and tanners generally live in the dirtiest and the most unhygienic conditions. Financial assistance in the form of grant at the rate of Rs. 2,000/- per beneficiary is provided for construction of houses to sweepers, scavengers, flayers & tanners. A sum of Rs. 27.00 lakhs is proposed for providing subsidy for constructing 1,350 houses. A sum of Rs. 40.00 lakhs has been provided for the construction of 400 dharamshalas/chupals in the villages for the use of Scheduled Castes. Under another scheme 'Legal aid' a sum of Rs. 0.30 lakh has been earmarked. Aid is provided in the forms of lawyers fee to enable them to protect themselves against forcible eviction from land and to pursue other allied cases. The centrally sponsored schemes, 'IAS Coaching Centre' and 'Girls Hostels' have been implemented on a share basis with effect from 1979-80. For 1980-81 an outlay of Rs. 2.25 lakhs is proposed for these schemes as a state share and a matching provision is expected from the Govt. of India.

Programme for the Welfare of Vimukat Jaties :

14.7 Attention has also been paid to the welfare of Vimukat Jaties (denotified tribes). In order to induce them to take to settled life at a place, subsidy is provided at the rate of Rs. 2,000 per beneficiary for the construction of a house. A sum of Rs. 13.00 lakhs has been provided for the grant of subsidy for the construction of 650 houses during 1980-81.

Social Welfare and Nutrition

Social Welfare includes programmes for the welfare of children, women, the destitutes, the old and the infirm, the mentally retarded, the orthopaedically handicapped, the blind, the deaf and dumb, and the other under-privileged and maladjusted groups. The programme for the welfare of Ex-servicemen has also been inducted under this sub-head from this year. The nutrition programmes seek to remedy malnutrition at its very root by taking care of pre-school children and pregnant and lactating mothers of weaker sections.

SOCIAL WELFARE

15.2 In the Sixth Five-Year Plan, an outlay of Rs. 592.00 lakhs has been made available under this sub-head of development. Out of this an amount of Rs. 66.49 lakhs was actually spent in 1978-79. A sum of Rs. 80.00 lakhs stands provided in the Annual Plan 1979-80. For 1980-81, an outlay of Rs. 88.00 lakhs—Rs. 83.00 lakhs for Social Welfare and Rs. 5.00 lakhs for Defence Services Welfare, is proposed for the various programmes as detailed in the following paragraphs:—

Child Welfare

15.3 Financial assistance at the rate of Rs. 50 per month is provided to orphan and destitute children below the age of 16 years who have either lost their parents or whose parents are unable to maintain them due to incurable diseases or permanent disability. Preference is given to school going children so that such children are encouraged in their studies. 4300 such beneficiaries were covered upto 1978-79. The expenditure incurred upto this level has been transferred to the non-plan budget. During 1979-80, 2000 additional beneficiaries are expected

to be covered. During 1980-81 the coverage will be extended to 3,000 beneficiaries with the proposed outlay of Rs. 17.00 lakhs. For the construction of building of the Certified School, Hoshiarpur, an outlay of Rs. 3.80 lakhs has been proposed to meet the spillover requirement during 1980-81.

International year of the Child

15.4. To celebrate the International Year of the Child in a befitting manner an outlay of Rs. 100.00 lakhs has been earmarked in the Sixth Plan. Of this amount, a sum of Rs. 16.90 lakhs has been provided in 1979-80. An outlay of Rs. 13.00 lakhs is proposed for 1980-81 to cover 5000 beneficiaries under various welfare activities launched for children.

Women Welfare

15.5. Financial assistance is made available at the rate of Rs. 50 per month to widows and destitute women below the age of 60 years who have been left without means of subsistence after the death of their husbands or who have been deserted by husbands and whose husbands are physically and mentally incapable of earning livelihood. 22561 beneficiaries were covered upto 1978-79. The expenditure at this level has been transferred to Non-Plan Budget. 2500 new beneficiaries are to be covered with the provision of Rs. 12.66 lakhs in 1979-80. For 1980-81, an outlay of Rs. 23.00 lakhs is proposed to extend the coverage to 4500 beneficiaries. The institutional care is provided to widow and destitute women who are in need for normal protection, psychological adjustment, education, technical training and rehabilitation. Such care is provided in the Ashram at Jullundur and monthly assistance Rs. 50 per month per in-mate subject to maximum of Rs. 250 per family is made available. Whole expenditure on 170 beneficiaries has been committed to non-plan budget, 30 new beneficiaries are to be

covered during 1979-80. With the proposed outlay of Rs. 0.50 lakh the number of beneficiaries will rise to 45 during 1980-81.

Welfare of the Handicapped

15.6. Persons in the age group 6—30 years who are orthopaedically handicapped or are deaf and dumb or blind and the income of whose parents or guardians is less than Rs. 500 per month are provided scholarships ranging from Rs. 15 to Rs. 100 per month. It is proposed to cover 120 beneficiaries with the proposed outlay of Rs. 0.45 lakh in 1980-81. The orthopaedically handicapped are also provided artificial limbs to enable them to lead a normal life and for this purpose an outlay of Rs. 0.50 lakh is proposed to cover 150 beneficiaries.

Other Programmes

15.7. Grant-in-aid is given to the Voluntary Organisations/Institutions engaged in welfare activities concerning children, women, the aged and the handicapped etc. Under this scheme a sum of Rs. 1.00 lakh is proposed for 1980-81. The P.G.I. is imparting training to the blind in simple skills with a view to rehabilitate them in society. The State Government provides grant-in-aid to the P.G.I. for this purpose. For 1980-81 an outlay of Rs. 1.75 lakhs is proposed. The scheme 'Services for children in need of care and protection' was introduced in 1977-78 in the State as a Centrally Sponsored Scheme to provide matching grant to the Voluntary Organisations engaged in the services for the children. 90% of the total grant was contributed by the Government of India and the remaining 10% by the Voluntary Welfare Organisations. The scheme with effect from 1979-80 will be implemented on a sharing basis. For this purpose an outlay of Rs. 1.50 lakhs is proposed for 1980-81 and a matching provision is expected from the Government of India.

Punjab State Women and Child Welfare Corporation

15.8. To provide gainful opportunities of employment to needy women and children, the

Punjab State Women and Child Welfare Corporation has been set up in the State with an authorised capital of Rs. 5.00 crores. In 1980-81, a share capital contribution amounting to Rs. 20.00 lakhs is proposed to be made.

Punjab Ex-Servicemen Corporation

15.9. The Ex-Servicemen form a substantial number of the population in the State. These sons of soil, after spending the best part of their lives in the defence of the motherland deserve all help and sympathy for re-settling in life. Along with other various welfare measures already initiated for ameliorating their conditions, the State has set up the Punjab ex-Servicemen Corporation for the welfare and economic uplift of Ex-servicemen with an authorised capital of Rs. 5.00 crores. A sum of Rs. 5.00 lakhs is proposed for 1980-81 as share capital contribution.

NUTRITION

15.10. The Nutrition programmes—Special Nutrition Programme and Integrated Child Development Services Projects—seek to tackle the problem of malnutrition at its very roots by taking care of the expectant and nursing mothers and the pre-school children of the weaker sections in the age-group 0—6 years. Under the Special Nutrition Programme, 5 districts of Kapurthala, Hoshiarpur, Gurdaspur, Ferozepur and Faridkot are being covered. The nutritional diet at the rate of 30 paise per head per day is provided for 300 days in a year. Under the I.C.D.S. projects, three blocks—Nurpur Bedi in Ropar District, Nathana in Bhatinda District and Lambi in Faridkot District are covered where the traditional food 'Dalia' etc., is provided. Expenditure on diet is met from within the State Plan Budget, and the administrative charges are made available by the Government of India. In the Annual Plan 1980-81, an outlay of Rs 16.00 lakhs is proposed to cover 21,000 beneficiaries.

CHAPTER XVI

Other Programmes

PUBLIC WORKS

Many Government administrative and office buildings, at the district, tehsil and block levels are in bad shape. To boost operational efficiency in Government offices, new buildings are required to be constructed. There is also an urgent need for new courts, police stations and jail buildings and for major improvements in the existing buildings. More Circuit/Guest/Rest-houses are needed. The existing ones need renovation. In order to effect improvements in this respect, an outlay of Rs 1144.50 lakhs has been provided in the Draft Sixth Five-Year Plan. During 1978-79 an expenditure of Rs 170.62 lakhs was incurred on Public Works. During 1979-80, an outlay of Rs 232.00 lakhs has been provided. The construction of State Guest house at Chandigarh is also proposed to be undertaken during the current year. During 1980-81, an outlay of Rs 270.00 lakhs is proposed. Separate programme of various works to be taken up in 1980-81 are given in the following paragraphs :

Administrative Complexes

16.2. The State has 3 divisions, 12 districts, 41 sub-divisions, 42 tehsils and 34 sub-tehsils. For the convenience of the public it was decided that all Government offices and courts in a town may be constructed at one place. During 1979-80 the construction work is in progress at 15 places, for which a provision of Rs 75.00 lakhs was made. The State has been forced to take up the construction of tehsil complexes at Baba Bakala after the formation of new sub-division due to an acute shortage of accommodation at this place. District/Tehsil complexes at 7 places are expected to be completed during the year 1979-80. During 1980-81 an outlay of Rs 89.00 lakhs is proposed out of which

Rs 64.40 lakhs is for the spill over works and Rs 24.60 lakhs is for the construction of new works details of which are given in Annexure I. The new complexes are proposed to be constructed at Rajpura, Khanna, Pathankot, Sub-tehsil Jhabal and at Moga.

Courts

16.3. A sum of Rs 12.00 lakhs has been proposed for the construction of judicial complexes at 6 places out of which an amount of Rs 7.00 lakhs is for the spill-over works at Samrala, Phagwara and Barnala and Rs. 5.00 lakhs for the construction of new works at Faridkot, Sultanpur Lodhi and at Kharar. The details of these works for 1980-81 is given in annexure I.

Patwar Khanas

16.4. It is proposed to build, 1,672 Patwar Khanas during the Sixth Plan. A provision of Rs 1.00 crore has been made to cover 30 per cent of the cost during the Plan period. The balance 70 per cent is to be raised from HUDCO. For 1979-80, an outlay of Rs 18.00 lakhs has been provided for the construction of 300 Patwar Khanas. During 1980-81, an outlay of Rs 21.00 lakhs is proposed for construction of additional 300 Patwar Khanas.

Police Stations

16.5. Police Stations in the State are in a very bad shape. Some of them require immediate renovation and for others new construction is to be undertaken. In view of this an outlay of Rs 100.00 lakhs has been provided in the Draft Sixth Five-Year Plan. For 1979-80, a provision of Rs 50.00 lakhs was made. During 1980-81, an outlay of Rs 50.00 lakhs is proposed.

Jails

16.6. Till recently, the Jails in the State were operated on the pattern set by the British Rulers. Prisoners were not accorded human treatment and were denied even the basic amenities of life. This attitude turned them into hardened criminals. As a first step towards reforms, jails are now called 'Sudhar Ghars'. It is intended to provide basic amenities of living in order to create a psychological atmosphere, which may enable them on their release to re-enter the normal stream of life in the community. An amount of Rs 350.00 lakhs has been provided during the Sixth Plan for the construction of Jail buildings and for provision of facilities like flush latrines etc. in existing jail buildings. An expenditure of Rs 54.14 lakhs was incurred during 1978-79. For 1979-80 a sum of Rs 75.00 lakhs has been provided for this purpose. During 1980-81 the same outlay of Rs 75.00 lakhs is proposed. Provision is mainly for the construction of Central Jail Ludhiana (Rs 55.00 lakhs), purchase of land for Sub-jail Ropar (Rs 8.28 lakhs), construction of under-trial barracks at Central Jail Amritsar (Rs 5.72 lakhs), construction of Open Air

Jails Nabha and Kapurthala (Rs 2.00 lakhs each). In addition Rs 2.00 lakhs is proposed for provision of flush latrines in Jails. The details regarding the provision is given in Annexure I.

Circuit Houses and Rest-houses

16.7 An outlay of Rs 111.50 lakhs was provided in the Sixth Five-Year Plan for the construction of Circuit Houses, Guest-houses and Rest-houses. During 1978-79 an amount of Rs 85.42 lakhs was spent under this scheme. The major expenditure during 1978-79 was on the completion of Punjab Bhawan at New Delhi. During 1979-80 an outlay of Rs 5.00 lakhs is provided for construction of Rest-houses in the State. In addition, construction of State Guest-house at Chandigarh will also be undertaken during the current year. During 1980-81 a provision of Rs 23.00 lakhs is proposed for scheme Circuit houses, guest-houses and rest-houses, out of which Rs 13.60 lakhs is for construction of State Guest-House at Chandigarh and a tentative provision of Rs. 9.40 lakhs is for construction/renovation of rest-houses.

ANNEXURE—I

Minor Head	Serial No	Details of works	Outlay for 1980-81 (Rs. in lakhs)
1	2	3	4
Divisional offices and Tehsil Buildings	Spill over Works		
	1	Construction of Tehsil Complex, Gurdaspur	2.05
	2	Constructon of Tehsil Complex, Patti	4.10
	3	Construction of Tehsil Complex, Fatehgarh Sahib	6.50
	4	Construction of Tehsil Complex, Balachaur	6.00
	5	Construction of District Administrative Complex, Amritsar	5.00
	6	Construction of District Administrative Complex, Faridkot	10.00
	7	Construction of District Administrative Complex, Jullundur	20.75
	8	Construction of Tehsil Complex, Baba Bakala	8.00
	9	Construction of residential houses, lawyers booths at Gidderbaha	2.00
	Total	64.40	
	New Works		
	1	Construction of Tehsil Complex, Rajpura	3.00
	2	Construction of Tehsil Complex, Khanna	5.00
	3	Construction of Tehsil Complex, Pathankot	5.00
	4	Construction of Sub-Tehsil, Jhabal	3.00
	5	Construction of Administrative Complex at Moga	8.60
	Total	24.60	
Courts	Spill over works		
	1	Construction of Court Complex, Samrala	2.00
	2	Construction of Judicial Complex, Phagwara	3.00
	3	Construction of Court Complex, Barnala	2.00
		Total	7.00
		New Works	
	1	Construction of Court Complex, Faridkot	2.00
	2	Construction of Court Complex, Sultanpur Lodhi	2.00
	3	Construction of Court Complex, Kharar	1.00
	Total	5.00	
Jails	1	Construction of Central Jail, Ludhiana	55.00
	2	Construction of S. J. Ropar (Purchase of land)	8.28
	3	Construction of undertrial barracks at C. J., Amritsar	5.72
	4	Construction of Open Air Jail, Nabha	2.00
	5	Construction of Open Air Jail, Kapurthala	2.00
	6	Provision of flush latrines in Jails	2.00
	Total	75.00	

LABOUR & LABOUR WELFARE

16.8 This head covers Labour Welfare, Employment Services and Industrial Training.

Labour Welfare :

16.9 Industrialisation gives rise to problems relating to the maintenance of industrial peace, regulation of working hours, working conditions and wages of agricultural and industrial workers etc. The State is duty bound to undertake a number of statutory measures as conciliation and arbitration machinery and other labour laws to deal with these problems. For this purpose a provision of Rs. 25.41 lakhs has been made in the Sixth Five Year Plan. For 1980-81 an outlay of Rs. 4.00 lakhs is proposed for the on-going schemes (i) strengthening of arbitration machinery; (ii) strengthening of enforcement machinery for Minimum Wages Act, 1948 ; (iii) strengthening of the factory inspectorate ; (iv) setting up of a safety cell , (v) setting up of a mobile medical laboratory, and (vi) strengthening of statistical section.

Employment Services :

16.10 In the Sixth Five Year Plan an outlay of Rs. 101.59 lakhs has been provided under this programme. A sum of Rs. 22.00 lakhs has been earmarked for 1979-80. For 1980-81, an outlay of Rs. 22.00 lakhs is proposed. Out of this a sum of Rs. 2.00 lakhs is for the 'Expansion of the employment services'. Under this programme 2 Town Employment Exchanges at Tarn Taran and Sirhind are to be set up during 1979-80 and there is a proposal for setting up 2 more Town Employment Exchanges at Nabha in Patiala district and Sunam in Sangrur district in 1980-81. In 1979-80, 4 Rural Man-power units are to be set up at Dera Bassi, Zira, Majri and Sultanpur Lodhi and there is proposal for setting up 4 additional units at Nurpur Bedi, Narot, Jaimal Singh, Talwandi Sabo and Ajnala in 1980-81. The proposed Units are in the backward and border areas. During 1978-79, the unemployment allowance was given to 1985 unemployed matriculates, graduates and above at the rate of Rs. 40/- p.m. and Rs. 50/- p.m. respectively, under the scheme 'Unemployment allowance to educated unemployed'. The amount spent came to Rs. 5.20 lakhs. An outlay of Rs. 20.00 lakhs stands provided in

the Annual Plan 1979-80 under this scheme. For 1980-81 outlay at the same level is proposed.

Industrial Training :

16.11 Basic level skilled manpower is created by imparting training in various engineering and non-engineering trades under the Industrial Training Programme. Besides training the right person for the right machines, this programme is also self-employed-oriented. In the Sixth Plan, an outlay of Rs. 263.00 lakhs has been provided under this programme. An amount of Rs. 39.27 lakhs was spent in 1978-79. An outlay of Rs. 49.00 lakhs has been earmarked in the Annual Plan 1979-80. During 1980-81 a sum of Rs. 70.00 lakhs has been provided for programmes of (i) Craftsmen Training (ii) Industrial Schools for Girls, and (iii) Professional Training.

Craftsmen Training :

16.12 The Schemes of Craftsmen Training are run on the All India pattern under the aegis of the National Council for Training in vocational Trades. Major policies in this respect are controlled and regulated by the Directorate General of Employment and Training, Government of India. There are 38 I.T.Is. in the State having a seating capacity of 12348. These impart training in different industrial trades. The duration of various courses varies from one year to two years. The out-turn from these I.T.Is. is placed at about 60% of the intake. An allocation of Rs. 35.00 lakhs stands provided in the Annual Plan 1979-80. An outlay of Rs. 49.50 lakhs is proposed in the Annual Plan 1980-81 for (i) converting the unpopular trades into popular trades ; (ii) addition to and replacement of worn out tools and equipment in the existing I.T.I's; (iii) training, seminars and study tours of the staff; (iv) the completion of I.T.I. buildings and the building of I.T.I. Nabha which is under construction; (v) strengthening of the training-cum-placement cell to maintain a link between the industry and the passed out trainees to help the latter to locate employment opportunities ; (vi) strengthening the Apprenticeship Training; Wing to cope with the additional work load ; (vii) mobile training centres in rural areas for imparting training to the villagers in knitting with hand & machine, dress making, soap making and wax candles making in addition to the training already

being imparted in repair and maintenance of tractor, electrical appliances, agricultural implements, electric tubewells and diesel pumps etc.; (viii) instructional centre at Chandigarh; (ix) the modernisation of I.T.I. Patiala under U.N.D.P./I.L.O. aid programmes to provide highly specialised courses in Indian standard and blueprint reading, tool and the die making and electrical and mechanical maintenance; (x) and the conversion of RATCs/JTSs/GISs into I.T.I's. in the response to pressing public demand and opening of new I.T.I's. in non-represented areas; (xi) training-cum-production/service centres in I.T.Is.

Industrial Schools for Girls :

16.13 As some trades are more suited to the girls, training facilities are provided for them in industrial schools. Under this programme training is imparted according to the D.G.E.T. pattern in the trades of cutting and tailoring, embroidery and Needle work, knitting with hands and machines, preservation of fruits and vegetables and Punjabi Stenography etc. At present there are 44 schools, with capacity of 3678 seats in the State. The out-turn of these schools is generally 100%. For 1980-81 an outlay of Rs. 18.50 lakhs is proposed against the current year's plan provision at Rs. 12.00 lakhs, for the schemes (i) completion of building of Government Industrial Teachers Training Institute, Jullundur, (ii) construction of new buildings for schools, (iii) opening of new schools in unrepresented areas and also addition of new seats into the existing schools, (iv) starting of new teachers training classes in cutting and tailoring, embroidery and needle work, knitting with hand and machine, (v) opening of training-cum-production centres, (vi) seminars, conferences, study tours and training and re-training (vii) modernisation and replacement of machinery in schools and (viii) opening of mobile training centres for women in rural areas.

Professional training :

16.14 Under this programme a sum of Rs. 2.00 lakhs is proposed as the spill over requirements for the construction of the building of Arts and Crafts Teachers Training Institute at Amritsar.

PUNJAB STATE CIVIL SUPPLIES CORPORATION

16.15. The Punjab State Civil Supplies Corporation was set up in 1974 to ensure procurement,

supply and distribution of essential commodities to the common man at reasonable rates with an authorised capital of Rs. 5.00 crores. The Corporation is mainly engaged in the procurement and distribution of essential commodities, so as to create a buffer stock for keeping their prices under check. In addition, the Corporation is engaged in the supply of atta, vegetable ghee, moong and urad dals to consumers at subsidised rates fixed by the Government against ration cards. The Corporation continues to deal with the sale of various non-subsidised commodities through its retail shops. It has now a net work of 500 retail shops and 197 wholesale outlets spread over the State to ensure supply of essential commodities even in the far flung areas. By the end of 1978-79 Rs. 3.43 crores had been provided by the State Government as share capital contribution to the Corporation. The share capital contribution of Rs. 10.00 lakhs is likely to be disbursed during 1979-80. An outlay of Rs. 10.00 lakhs as share capital contribution is proposed for the year 1980-81.

STATIONERY AND PRINTING

16.16 An outlay of Rs. 68.11 lakhs was provided in the Sixth Five Year Plan for programmes under Stationery and Printing. During 1978-79 an expenditure of Rs. 18.96 lakhs was incurred. An outlay of Rs. 11.00 lakhs stands provided for 1979-80. These programmes are proposed to be continued during 1980-81. The outlay is being retained at the same level of Rs. 11.00 lakhs. Scheme-wise provision during 1980-81 is given below:—

Serial No.	Name of Scheme	Provision for 1980-81 (Rs. in lakhs)
1	2	3
1	Opening of typewriter workshops at Faridkot and Ropar ..	0.90
2	Strengthening of Central Type-writer Workshop at Chandigarh ..	0.30
3	Extension in Press building at Patiala ..	1.50

Sr. No.	Name of Scheme	Provision for 1980-81 (Rs. in lakhs)
1	2	3
4	Additional machinery and equipment for Government Press, Patiala and Ticket Printing Unit ..	2.00
5	Construction of staff quarters at Patiala ..	0.50
6	Construction of Government Press at S.A.S. Nagar ..	2.00
7	Machinery and Equipment for Govt. Press at S.A.S. Nagar ..	3.00
8	Additional Staff for Government Press, Patiala (Ticket Printing Unit)/ Government Press, S.A.S. Nagar	0.68
9	Apprenticeship Scheme for 10 Typewriter Mechanics ..	0.12
	Total ..	11.00

INFORMATION AND PUBLICITY

16.17 Effective communication with the people is necessary for informing, educating and motivating them for development. So far, main reliance has been on man-based publicity. This has serious limitations. The large number of publicity workers required to reach over twelve thousand villages in the State and the vehicles and other gadgets that will have to be provided to them, may mean an excessive financial burden. Moreover, all of them will not be equally effective or have a uniform approach to what is to be communicated. It is, therefore, proposed to shift gradually from man-based to media-based publicity. The Sixth Plan Programmes, for which a provision of Rs. 201.00 lakhs has been made have this orientation. Out of this provision, an amount of Rs. 36.60 lakhs was actually spent during 1978-79 and an outlay of Rs. 40.00 lakhs provided for 1979-80. For

1980-81 an outlay of Rs. 40.00 lakhs is proposed under the various on-going schemes and programmes detailed below:—

Direction and Administration:

16.18. A sum of Rs. 3.00 lakhs is proposed under the scheme 'Strengthening of Department of Public Relations' for appointing three middle level journalists on contract basis at the Divisional Headquarters to feed the regional and national presse with the stories of positive achievements of the Government. A sum of Rs. 0.40 lakh is proposed for the scheme 'Purchase of books for library at the headquarters'. A small outlay of Rs. 0.10 lakh is also proposed under the scheme 'Feed-back Studies' in order to ascertain the response of the audience to the various programmes.

Films:

16.19. An outlay of Rs. 6.00 lakhs is proposed for the production of documentary films and newsreels and for the purchase of feature films for the entertainment and education of the people.

Field Publicity:

16.20. Sub-centres of publicity are established at the tehsil level for which an outlay of Rs. 10.00 lakhs is proposed. An outlay of Rs. 2.00 lakhs is proposed for providing T.V. sets in Harijan Basties and Village Panchayats. The cost of the T.V. set is shared by the Panchayats and the Government on 50:50 basis. A sum of Rs. 2.00 lakhs is proposed under the scheme; purchase and production of literature' for the publicity.

Song and Drama Services:

16.21. The plan provision of Rs. 4.00 lakhs is proposed to strengthen the song and drama services by adding folk musics dhadhi/kavishrijathas, bhajan mandlies and drama parties. A sum of Rs. 4.00 lakhs is proposed for the purchase of equipment and machinery for the 'Light and Sound' unit, set-up in the State to stage shows not only in bigger cities but also in the rural areas.

Advertising and Visual Publicity:

16.22. To stage exhibitions in the State an outlay of Rs. 2.40 lakhs is proposed under the scheme 'Exhibitions'. A small outlay of Rs. 0.10 lakh is also pro-

posed for the scheme 'Community Listening'. For propagating the Government policies and achievements among the people the sums of Rs. 3.50 lakhs and Rs. 0.50 lakh are proposed under the schemes 'Display of Advertisement' and 'Wall Paintings' respectively.

Information Centres:

16.23. Under this programme there is only a single scheme 'Teleprinter lines' to interlink the district headquarters with state-headquarters through teleprinter-lines. An outlay of Rs. 2.00 lakhs is proposed for this scheme.

PLANNING MACHINERY

16.24. The State Government is keen to put the planning organisation and procedure on a firm and more scientific basis. With this end in view, the planning machinery in the State has been reorganised. There is a high level State Planning Board with the Chief Minister as its Ex-officio-Chairman. The Planning and Finance Minister is its Ex-Officio Deputy Chairman. The Finance Secretary is the Ex-officio Member and five Specialists in various subjects are its members. The Chief Secretary is its Member-Secretary.

16.25. Besides the House-keeping Division, the staff of the Planning Board has been reorganised into the following 12 Divisions for dealing with different subjects:—

1. Plan Co-ordination Division
2. Economic Division
3. Local Plans Division
4. Employment and Manpower Division
5. Agriculture and Rural Development Division
6. Irrigation, Drainage and Flood Control Division
7. Energy Division
8. Industry and Minerals Division
9. Trade and Transport Division
10. Housing and Urban Development Division
11. Special (Backward) Areas Division
12. Social Services Division

16.26. The Plan Co-ordination Division consists of largely the Secretariat staff and undertakes the coordination work relating to Planning. The other 11 Divisions consist of technical staff and each of these divisions is to be headed by a Subject Specialist or a Director. Such an arrangement will create a unified and professionally competent planning organisation which could measure upto the growing complexity and sophistication of the planning process at the State level and will help in making it possible to take the process of planning down to the local levels. An efficient planning organisation is all the more necessary in the context of growing Punjab economy and the need for its further diversification. The State Planning Organisation urgently needs;—

1. additional staff at headquarters, accommodation and other facilities for them;
2. planning machinery at the district and block levels;
3. data processing, maintenance and retrieval equipment;
4. in-service training in planning techniques and procedures;
5. strengthening and improvement of Planning Board Library;
6. surveys and studies relating to planning; and
7. seminars and workshops on State Planning and participation in conferences on planning.

16.27. An outlay of Rs. 10.00 lakhs has been provided for 1980-81 for strengthening the State Planning Organisation in the areas listed above. Out of this amount, a sum of Rs. 8.00 lakhs will be spent on filling the vacant posts. So far only one post of Director has been filled. Steps will be taken to have the Subject Specialists and Directors and other supporting staff in position as early as possible. The District Statistical Offices are being strengthened under the plan scheme of the Economic and Statistical Organisation with a view to ensuring proper planning and filling gaps in statistics at the

district and block levels. The Local Plans Division of the Planning Board will exercise control and provide guidance to these offices so far as the technical content and planning expertise are concerned. A nominal provision of Rs. 0.05 lakh is made for providing additional staff etc. in the Planning Board to deal with area planning work.

16.28. The Economic and Statistical Organisation, which is under the administrative charge of the Planning Department, is required to meet the data needs of all the Divisions of the Planning Board. It has the responsibility of ensuring a regular and timely flow of the data required or requisitioned by various Divisions. The Divisions, on their part, are required to maintain upto date information relating to their respective subjects for ready reference. For this purpose, modern equipment for processing, maintenance and retrieval of data is needed. Purchase and maintenance of data processing equipment is very costly. Its details are being worked out in consultation with the Economic and Statistical Organisation. For the present, it is proposed to get the data processed from the established organisations on payment basis. Besides electronic equipment like calculators are being purchased for the staff during 1979-80 and some more calculators will also be purchased during 1980-81. A provision of Rs. 0.25 lakh has been made for this scheme for 1980-81. □

16.29. In-service training in planning techniques and procedures, monitoring, etc. will also be imparted to the staff of the Planning Board and the Departments concerned with Plan. A sum of Rs. 0.45 lakh has been provided for this purpose in 1980-81.

16.30. The Library in the Planning Board is ill-equipped. A well-equipped library which should have books etc. on latest techniques and thinking on the subject of planning is required for the organisation, which is mainly concerned with evolving a development perspective for the State economy. The library would have all that material which provides secondary data required for planning purposes. A sum of Rs. 0.60 lakh is proposed to be spent during 1979-80 for strengthening the library and a similar amount has been provided for 1980-81 for this purpose.

16.31. Diverse kind of data is required in the process of planning. An amount of Rs. 0.35 lakh is provided for surveys and studies related to planning needs. These surveys will either be conducted by the Planning Department themselves or be entrusted to established research organisations or universities. To begin with, a comprehensive pilot study in block level planning, initially covering 5 blocks, is proposed to be undertaken. This study is expected to provide the required insight into the appropriate scope, organisation and procedure for block level planning.

16.32. Seminars and workshops on State Planning will provide the technical staff of the Planning Board the knowledge in the latest techniques in planning on a particular subject to be discussed in the Seminar/Workshop. Besides, the staff of the Planning Board will attend various conferences, etc., relating to planning and allied subjects. A provision of Rs. 0.30 lakh has been made for this scheme.

16.33. It is hoped that assistance from the Planning Commission will be available for the schemes proposed to be implemented during 1980-81 on the same pattern as heretofore, i.e. 2/3rd of the total approved items of expenditure with a view to building up the organisation to the required level of competence and efficiency.

STATISTICS

16.34. Economic and Statistical Organisation is the primary agency for supplying data on various facets of State's economy and for meeting the requirements of planning and the implementing departments. The importance of statistics in a developing economy cannot be over-emphasised. There is an ever-increasing demand on the organisation for the supply of data on more and more varied aspects of the economy. To meet this additional demand of statistics and to fill in data gaps, a provision of Rs. 15.00 lakhs was made during 1979-80. During 1980-81, the schemes included in the Annual Plan 1979-80 are to be continued and a new scheme 'Economic Analysis Unit' is to be started for catering to the policy needs of the Government. An outlay of Rs. 21.60 lakhs is proposed for this purpose.

16.35. For preparing an estimate of capital formation in the State, it is proposed to collect detailed data separately for the household and

the non-household sectors. For this purpose, a provision of Rs. 3.08 lakhs is proposed for 1980-81.

16.36. In order to extend planning to the block level, it is necessary to collect adequate and reliable data at that level. For this purpose, one field assistant in each block was appointed during the Fifth Plan period. District Statistical Offices at present are also engaged in the work relating to District Plans. These offices are proposed to be strengthened by appointing a Senior Officer and other supporting staff for formulation, review and monitoring of district plans and for supervising conduct of statistical studies at district/block levels and for providing necessary guidance to the District Statistical Officers. An amount of Rs. 10.00 lakhs is being proposed for 1980-81 for this scheme.

16.37. An ad hoc provision of Rs. 0.20 lakh is proposed for the purchase of computer timings during 1980-81 for getting the data tabulated quickly.

16.38. For conducting ad hoc studies on subjects suggested by Central and State Governments, a provision of Rs. 2.64 lakhs has been made for 1980-81. During 1980-81, sample survey of wholesale and retail trade statistics, social statistics and of consumer expenditure and employment in selected blocks covered under the Integrated Rural Development Programme, will be undertaken. The evaluation section strengthened during the current year will be continued at a cost of Rs. 1.98 lakhs during 1980-81 for taking additional evaluation work of all-India co-ordinated evaluation studies on different subjects and evaluation studies proposed by the State.

16.39. For imparting training to junior level statistical personnel like technical assistants, statistical assistants and computers, etc., working in E.S.O. and other departments of State Government, the training unit set up during 1979-80 will be continued at a cost of Rs. 1.70 lakhs during 1980-81.

16.40. The Economic Analysis Unit will analyse and interpret the available data, prepare notes pertaining to socio-economic conditions in the State and bring out publications required by the Government from time to time. For this unit, a provision of Rs. 2.00 lakhs is proposed for the year 1980-81.

ADMINISTRATIVE TRAINING INSTITUTE

16.41. The Punjab State Institute of Public Administration, which has been set up for training and research in public administration is to impart training to the probationers of the Indian Administrative Service allotted to the State of Punjab, the Punjab Civil Service Probationers and entrants to allied general services. In addition, it will organise mid-career training programme for the middle and senior level officers of the Government and the Public Sector Undertakings.

16.42. The Institute came into being in March, 1978. A sum of Rs. 1.00 lakh was provided in the Annual Plan 1977-78. However it received a total grant of Rs. 8.40 lakhs in 1977-78 from State Government, which includes Rs. 1.00 lakh provided in the Annual Plan 1977-78.

16.43. In the Sixth Five-Year Plan 1978-83, an outlay of Rs. 55.0 lakhs has been provided. A sum of Rs. 4.50 lakhs was provided to the Institute in 1978-79 and Rs. 10.00 lakhs stand provided during 1979-80. During 1978-79 and 1979-80 steps were taken to hire a suitable building for locating the Institute at Chandigarh, recruit administrative staff, purchase needed equipment and furniture including training aids. A Library has been set up. A piece of land has been earmarked for allotment to the Institute at S.A.S. Nagar, where it would be having its permanent campus. The Institute would be conducting 2 or 3 specialised mid-courses for certain services.

16.44. It is proposed to provide an outlay of Rs. 10.00 lakhs to the Institute in Annual Plan 1980-81. This would be used to cover the recurring and non-recurring expenses including payment of second instalment towards the cost of land.

CHAPTER XVII

Employment

PART—I

No comprehensive statistics are available to make an annual review of the employment and unemployment situation in the State. The Live Register statistics, despite their known limitations, remain the only regular source to study the unemployment trends in the State. It is all the more difficult to estimate the annual growth of employment (direct and indirect) opportunities. The employment data collected under the Employment Market Information Programme covers only the organised sector which accounts for hardly 11 per cent of the total work force. Annual surveys of employment and unemployment if conducted through the National Sample Survey can provide a more reliable basis to have an overall view of the employment and unemployment situation.

17.2. At the instance of the Planning Commission, Government of India, the State Planning Department has taken up the work of collection of data regarding additional employment (direct) generated/likely to be generated under each Annual Plan. Reliability of these statistics largely depends upon as to how the departments reporting data on employment understand and interpret the concepts and definitions involved therein. Besides, the data for the year planned for are usually based on plans proposed at a level much above the level finally fixed. The Planning Commission have now issued detailed guidelines for reporting data on employment under the State Annual Plan, 1980-81. These guidelines are expected to bring in improvement in the employment statistics which would now be more uniform in character and would depict the impact of Plan investment on direct employment more precisely.

Additional employment generated during Fifth Plan

17.3. Information regarding additional employment (direct) generated during the Fifth Plan

period (1974-75 to 1977-78) as collected from the State Government departments, corporations etc. (concerned with the Plan) is given in Annexure I.

17.4. On the average direct employment was generated for 39 thousand persons per annum during the Fifth Plan period. Unskilled/uneducated persons formed 59.3 per cent of the total employment while the technical and non-technical (educated) persons constituted 17.1 per cent and 23.6 per cent respectively of the total employment generated during the period 1974—78.

Additional employment generated during Annual Plan, 1978-79

17.5. While collecting information regarding Progress Report of Annual Plan 1978-79, data on additional (direct) employment generated during the Annual Plan was also collected. The additional employment was classified as administrative and clerical, technical, skilled and unskilled persons. The tabulated information is given in Annexure-II.

17.6. Additional (direct) employment was generated for about 59 thousand persons during the Annual Plan 1978-79 period. As in the previous years, the bulk (55.4 per cent) of the employment was for unskilled persons. Skilled persons got 24.0 per cent of the total additional employment. The share of administrative/clerical personnel and technical personnel was only 7.8 per cent and 10.5 per cent respectively. The programmes making major contribution in the creation of additional employment opportunities were implemented under the developmental sub-heads of Minor Irrigation, Soil Conservation, Irrigation, Flood Control, Power, Industries, General Education, Medical and Public Health and Urban Development.

Direct employment estimates for 1979-80 and 1980-81

17.7. Information regarding additional employment (direct) to be generated under the Annual Plans 1979-80 and 1980-81 has been collected in the revised proforma devised by the Planning Commission, Government of India. In the revised proforma direct employment has been bifurcated into two components viz. (i) construction employment and (ii) continuing employment. The information collected on the basis of new classification is not comparable with the data of direct employment collected upto 1978-79. Besides, there are certain issues which require clarification from the Planning Commission in the absence of which it is difficult to indicate the reliability of the data collected. However, information as received in Statement EMP-2 regarding construction employment has been given in Annexure III while the same regarding continuing employment has been shown in Annexure IV according to sub-heads/heads of development.

Current unemployment situation

17.8 Despite the efforts made by the State Government to create more and more job opportunities through its Plan programmes, the unemployment situation continues to be serious in Punjab as in other parts of the country. The latest available Live Register statistics showing unemployment among different categories of personnel in the State are given in Annexures V and VI.

17.9. Annexure V is a summarised statement depicting increase in unemployment among uneducated and educated (technical and non-technical) personnel during the last one year. The total number of work-seekers in the State increased from 3.80 lakh as on 30th June, 1978 to 4.05 lakh as on 30th June, 1979. There was thus an increase of 6.68 per cent in the number of total unemployed in one year. There was greater increase (9.95 per cent) in the number of uneducated work-seekers than that (3.84 per cent) in the case of educated work-seekers.

17.10. Category-wise figures given in Annexure VI reveal that unemployment among important categories like engineering graduates, allopathic

doctors, agricultural graduates and post-graduates, dairy graduates and maths. and science masters had declined during the period under reference. Even the number of unemployed science graduates (freshers) and matriculates (freshers) decreased during the last one year. On the other hand unemployment increased by more than 15 per cent in one year among non-allopathic doctors, para-medical personnel, veterinary graduates, M. Eds. and language teachers.

17.11. The unemployment among educated persons is a matter of great concern. The most important causal factor is, on the demand side, the slow industrial growth of the State and on the supply side, expanding educational facilities resulting in an ever swelling flow of the educated job-seekers. Agriculture which has been the leading sector in the growth of the Punjab economy provides limited scope for employment of educated youth, particularly from the landless and the land poor families. The prosperity resulting from the Green Revolution has made it possible for more persons to receive education. There is apathy on the part of educated persons belonging to rural areas to adopt the occupations of their parents and there is drift of these persons towards urban areas. The number of educated job-seekers has increased rapidly but there has been no corresponding increase in the opportunities for white collar employment. Hence a very acute problem of the educated jobless. The problem can be solved gradually through shifts in educational policy and diversification of the economy (by particularly laying stress on the development of modern large scale industries).

Unemployment allowance

17.12. As a short term relief the State Government has made provision for an allowance (Rs. 40 per month for matriculates and Rs. 50 per month for graduates and post-graduates) for the educated unemployed with effect from 1978-79. Only those educated work-seekers who have been on the Live Register of Employment Exchanges in the State for the last five years are eligible to get the allowance.

PART II

Special Employment Promotion Programme :

17.13 Special Employment Programme was started in the State of Punjab in the year 1975-76. In the beginning the progress of the Plan was rather slow. However, the pace of implementation had been accelerated later on in the year 1976-77. The main aim of the scheme was to create self-sustaining employment with minimum use of Government resources. The Programme was expected to have a multiplier effect and comprised the following three types of schemes :—

- (a) Scheme relating to training for self-employment ;
- (b) Training for guaranteed employment ; and
- (c) Training to Scheduled Castes for filling up reserved vacancies lying vacant for want of candidates possessing the requisite qualifications.

17.14. This programme has been implemented by various departments like Industries Department, Agriculture Department, Youth Services Department, Printing and Stationery Department, Animal Husbandry Department, Milk Commissioner, Technical Education Department, Health Department, Education Department.

17.15. Up to 31st March, 1978, schemes costing Rs. 448.79 lakhs were approved. Out of this amount, an expenditure of Rs. 121.79 lakhs was incurred. Up to 31st March, 1978, direct employment was generated for about 6,700 persons with indirect employment for 3,200 persons.

17.16. Numerous schemes covered under the Programme and the difficulties experienced in the implementation thereof are discussed below briefly.

(i) Scheme regarding training for self-employment :

Under this scheme 3 months training in entrepreneurship is imparted to the educated unemployed desirous of setting up their own industries. During the year 1977-78 about 30 persons were given training under this scheme. Original appropriation for this scheme in the year 1978-79 was placed at Rs. 3.00 lakhs for giving training to 390 personnel. This original appropriation was later on revised to Rs. 1.00 lakh. Similarly, for the year

1979-80, a sum of Rs. 1.00 lakh was provided for training 130 personnel. For the year 1980-81 an amount of Rs. 1.00 lakh has been proposed to train 100 personnel.

(ii) Promotion of self-employment through seed/margin money assistance :

Under this scheme, margin money assistance to the extent of 10 per cent of the investment is given to the entrepreneurs as a soft loan. At least 10% of the capital is contributed by the entrepreneurs and the remaining amount is raised by them from banks/financial institutions.

A sum of Rs. 20.00 lakhs had been provided for the scheme during 1978-79 and assistance was provided to 251 persons. A sum of Rs. 5.00 lakhs was provided for the year 1979-80 to generate employment opportunities for 25 persons. In 1980-81, a sum of Rs. 12.00 lakhs is proposed for seed and margin money assistance to 60 persons.

(iii) Establishment of Industrial Commercial Estates :

Under this scheme industrial sheds and shop-cum-offices are constructed for allotment to the educated unemployed. An amount of Rs. 5.00 lakhs was provided during the year 1979-80 to assist 25 persons through the allotment of industrial sheds and shops. For the year 1980-81 a sum of Rs. 5.00 lakhs is proposed to be provided to help 25 persons in setting up their own industrial and commercial units.

(iv) Supply of machinery on hire-purchase basis :

Machinery costing up to Rs. 1.00 lakh is supplied to educated unemployed personnel on hire purchase basis under this scheme. The cost of machinery is recovered from the entrepreneurs in 13 instalments. Upto 30-6-1978, machinery costing Rs. 6.06 lakhs was supplied to as many as 15 entrepreneurs. An amount of Rs. 5.00 lakhs was provided during the year 1979-80 and 15 persons were given machinery.

For the year 1980-81 a sum of Rs. 10.00 lakhs is proposed for providing machinery to 30 persons.

(v) Training for guaranteed employment :

Under this scheme 2-3 months instructional training is imparted in various subjects like personnel

management, production management etc. During 1977-78, 225 persons were imparted training under this scheme. For the year 1978-79 a sum of Rs. 6.00 lakhs was provided as revised outlay to impart training to 700 persons. During 1979-80 a sum of Rs. 5.00 lakhs was provided to achieve employment target for 390 persons. This scheme will not be implemented in 1980-81.

All the above five schemes are being implemented by the Industries Department.

AGRICULTURE DEPARTMENT

(vi) Setting up of 300 Agro Service Centres—payment of interest subsidy to the entrepreneurs (State Scheme) :

Under this scheme, training is imparted to educated unemployed persons for setting up Agro Service Centres. Interest subsidy is given to the entrepreneurs at the rate of $8\frac{1}{2}\%$ for five years in backward areas and for 3 years in other areas on the loans raised by them from banks/financial institutions. State Government also gives margin money assistance at the rate of 5% to the entrepreneurs for setting up their own Agro Service Centres. A sum of Rs. 5.25 lakhs was provided for this scheme during the year 1978-79, to generate employment potential for 70 (direct) and 210 (indirect) persons. During the year 1979-80, a consolidated amount of Rs. 25.00 lakhs was provided for the following two schemes :—

- (i) Setting up of 300 Agro Service Centres payment of interest subsidy to the entrepreneurs (State Scheme) ;
- (ii) Payment of seed/margin money assistance to the entrepreneurs for setting up of Agro Service Centres (for persons trained under the Centrally-sponsored Scheme).

Like-wise similar amount of Rs 25.00 lakhs has been proposed for the above two schemes in 1980-81.

MILK COMMISSIONER

(vii) Special employment Programme—Introduction of Scientific commercialised milk production :

This scheme was started in December, 1976. Under this scheme 3 weeks training is given to young people in breeding, feeding and management of animals on scientific lines. During the training

period each candidate is given a stipend of Rs.70.00 and on the completion of training these trained personnel are expected to set up their own dairying units each consisting of five milch animals. These persons are given following subsidy/loans by the Government :—

- (i) Help in getting loan from the banks up to Rs. 3,000 per milch animal ;
- (ii) Subsidy on interest up to five per cent on the loan ;
- (iii) Subsidy for payment of $\frac{2}{3}$ rd of the cost of the premium on the insurance of animals (for one year only) ;
- (iv) 50 per cent subsidy for cattle feed at the rate of Rs. 240 per animal per annum (for one year only).

Against original appropriation of Rs. 29.12 lakhs provided for this scheme during 1978-79 actual expenditure came to only Rs. 1.37 lakhs, because it took quite some time in completing the formalities for training and securing loan facilities from the banks. Training was, however, imparted to 230 persons. During the year 1979-80 a sum of Rs. 24.00 lakhs has been provided and the likely achievement is placed at 200 beneficiaries. An amount of Rs. 10.00 lakhs is proposed for the year 1980-81 to impart training to 720 persons.

PRINTING AND STATIONERY DEPARTMENT

(viii) Apprenticeship training to 10 matriculates as typewriter mechanics :

Under this scheme training is given for a period of one year to 10 matriculates every year as typewriter mechanics. The trained persons are employed in Government Printing Press. They can also get employment in autonomous bodies and private concerns where there is a demand for such persons. During the year 1978-79 an amount of Rs. 0.12 lakh was provided for training to 10 persons. During the year 1979-80 a similar amount was also provided for the purpose. In 1980-81 also an amount of Rs. 0.12 lakhs has been proposed for training 10 matriculates as type-writer mechanics under the scheme.

17.17. As against 10 employment schemes which were implemented during the year 1979-80 under the State Employment Promotion Programme only.

8 schemes will be continued in 1980-81. Two schemes, namely, training to scheduled castes in diploma courses in engineering as implemented by the Technical Education Department and training for guaranteed employment as implemented by the Industries Department have been dropped.

17.18. The perusal of the statement at Annexure VII reveals that actual expenditure incurred on these schemes during 1978-79 comes to Rs. 27.50

lakhs. The State Employment Promotion Programme has ceased to operate as a separate programme. However the above mentioned schemes are being continued as part and parcel of the developmental schemes of the respective Departments during the year 1980-81. Proposed outlay for these schemes during 1980-81 comes to Rs. 63.12 lakhs. It is expected that 1145 persons will be given training or helped to become self-employed or employed.

ANNEXURE I

Employment (direct) actually generated in Punjab during the period 1974-75 to 1977-78

Year	Unskilled/ uneducated	Educated		Total
		Technical	Non- Technical	
1	2	3	4	5
1974-75	20,671	5,839	11,866	38,376
1975-76	15,850	4,629	8,745	29,224
1976-77	20,693	6,265	6,403	33,361
1977-78*	35,983	10,058	10,004	56,045
Total 1974-78	93,197	26,791	37,018	1,57,006
Average per annum	23,299	6,698	9,254	39,251

*Includes tentative information in respect of Minor Irrigation and Public Works (B&R) Departments.

ANNEXURE—II

Additional employment (direct) actually generated during the Annual Plan, 1978-79

Head/Sub-Head of Development	Adminis- trative and Clerical	Technical	Skilled	Un- skilled	Total
1	2	3	4	5	6
1. Agriculture and Allied Sectors—					
(i) Agriculture ..	183	207	55	72	517
(ii) Minor Irrigation ..	658	532	1,420	5,712	8,322
(iii) Soil Conservation ..	11	—	1,200	2,600	3,811
(iv) Animal Husbandry ..	14	353	3	132	502
(v) Dairying & Milk Supply ..	—	1	—	—	1
(vi) Fisheries ..	—	1	1	1	3
(vii) Forests ..	—	—	—	—	—
(viii) C.D., NES ..	—	—	—	—	—
Total-1 ..	866	1,094	2,679	8,517	13,156
2. Co-operation—					
(i) Co-operation ..	801	7	1,984	237	3,029
Total-2 ..	801	7	1,984	237	3,029
3. Irrigation and Power —					
(i) Irrigation ..	716	1,008	1,587	5,864	9,175
(ii) Flood Control ..	242	223	198	5,307	5,970
(iii) Power ..	689	206	1,647	257	2,799
Total-3 ..	1,647	1,437	3,432	11,428	17,944
4. Industry and Minerals					
(i) Industry and Minerals ..	270	356	5,575	8,013	15,464*
Total-4 ..	270	356	5,575	8,013	15,464*
5. Transport and Communications—					
(i) Civil Aviation ..	—	—	—	—	—
(ii) Roads and Bridges ..	—	—	—	—	—
(iii) Road Transport ..	289	231	262	75	857
(iv) Tourism ..	—	—	—	—	—
Total-5 ..	289	231	262	75	857

*Total does not tally because of the gap in the availability of categorywise information.

ANNEXURE II—concl'd

Head/Sub-Head of Development	Adminis- trative and Clerical	Technical	Skilled	Un- skilled	Total
1	2	3	4	5	6
6. Social/Community Services —					
(i) General Education ..	195	1,457	34	426	2,112
(ii) Technical Education ..	—	—	—	—	—
(iii) Medical & Public Health ..	7	1,299	132	1,381	2,918*
(iv) Rural Water Supply ..	—	—	—	—	—
(v) Housing ..	—	—	—	—	—
(vi) Urban Development ..	350	300	—	2,500	3,150
(vii) Information and Publicity ..	9	2	—	—	11
(viii) Labour and Labour Welfare ..	144	5	59	64	272
(ix) Welfare of S.C. and B.C. ..	—	—	—	—	—
(x) Social Welfare ..	—	—	—	—	—
(xi) Nutrition ..	—	—	—	—	—
Total-6 ..	705	3,063	225	4,371	8,463*
7. Economic Services —					
(i) Other General Economic Services ..	45	—	—	1	46
Total-7 ..	45	—	—	1	46
8. General Services—					
(i) Stationery & Printing ..	—	—	—	—	—
(ii) Punjab Film & News Corpn. ..	—	—	—	—	—
(iii) Public Works ..	—	—	—	—	—
Total-8 ..	—	—	—	—	—
Grand Total ..	4,623	6,188	14,157	32,642	58,959*

*Total does not tally because of the gap in the availability of categorywise information.

ANNEXURE-III

Statement EMP -2—Construction Employment

Additional Employment (direct) to be generated under Annual Plans, 1979-80 and 1980-81

Head/Sub-head of Development	Unit	1979-80 (Anticipated)	1980-81 (Proposed)
1	2	3	4
1. Soil and Water Conservation	Person-days	35,05,000	4,46,000
2. Community Development and Panchayats	Person-days	6,98,000	6,78,000
3. Cooperation	Person-days	1,44,900	2,41,050
4. Minor Irrigation	Person-days—		
	(i) Technical	88,000	54,000
	(ii) Non-Technical	1,40,000	86,000
	(iii) Uneducated	17,90,000	11,02,000
	Total	20,18,000	12,42,000
5. Irrigation	Person-days	1,81,000	9,56,500
6. Power	Number of persons—		
	(i) Unskilled, uneducated, etc.	1,185	365
	(ii) Technical and skilled	477	122
	(iii) Non-Technical	277	634
	Total	1,939	1,121
7. Rural Water Supply	Person-days—		
	(i) Unskilled	2,50,000	4,25,000
	(ii) Skilled	50,000	85,000
	Number of Persons—		
	(i) Technical	390	632
	(ii) Clerical and Others	650	1,112
8. Public Works			

ANNEXURE-IV

Statement EMP-2: Continuing Employment

Additional Employment (Direct) to be generated under Annual Plans, 1979-80 and 1980-81

Head/Sub-Head of Development	1979-80 (Anticipated)					1980-81 (Proposed)					
	Unedu- cated or Unskilled	Educated		Cate- gory not speci- fied	Total	Unedu- cated or Unskilled	Educated		Cate- gory not speci- fied	Total	
		Tech- nical	Non- Tech- nical				Tech- nical	Non- Tech- nical			
1	2	3	4	5	6	7	8	9	10	11	
1. Agriculture & Allied Sectors											
(i) Agriculture	..	—	—	—	—	—	—	—	—	—	
(ii) Minor Irrigation	..	—	65	—	65	—	50	—	—	50	
(iii) Soil Conservation	..	—	—	—	1,679	—	—	—	1,428	1,428	
(iv) Animal Husbandry	..	143	345	73	571	165	370	50	—	585	
(v) Dairying & Milk Supply	..	23	10	29	62	8	19	94	—	121	
(vi) Fisheries	..	98	198	—	296	98	251	5	—	354	
(vii) Forests	..	—	—	—	—	—	—	—	—	—	
(viii) C.D. & Panchayats	..	—	—	—	—	—	—	—	—	—	
Total	..	269	618	107	1,679	2,673	271	690	149	1,428	2,538
2. Cooperation—											
(i) Cooperation	..	1,269	1,020	2,031	—	4,320	172	559	119	—	850
Total	..	1,269	1,020	2,031	—	4,320	172	559	119	—	850
3. Irrigation & Power											
(i) Irrigation	..	—	—	—	45	45	—	—	—	45	45
(ii) Flood Control	..	—	—	—	—	—	—	—	—	—	
(iii) Power	..	60	30	—	—	90	—	—	4	—	4
Total	..	60	30	—	45	135	—	—	4	45	49
Industry & Minerals											
(i) Industry & Minerals	..	—	200	642	—	842	—	372	768	—	1,140
Total	..	—	200	642	—	842	—	372	768	—	1,140
5. Transport and Communications											
(i) Civil Aviation	..	—	—	—	7	7	—	—	—	18	18
(ii) Roads and Bridges	..	—	—	—	—	—	—	—	—	—	
(iii) Road Transport	..	248	162	384	—	794	1,060	340	1,227	—	2,627
(iv) Tourism	..	218	30	80	—	328	123	47	55	—	225
Total	..	466	192	464	7	1,129	1,183	387	1,282	18	2,870

ANNEXURE IV—concl'd

Head/Sub-head of development	1979-80 (Anticipated)					1980-81 (Proposed)					
	Unedu- cated or unskilled	Educated		Cate- gory not speci- fied	Total	Unedu- cated or unskilled	Educated		Cate- gory not speci- fied	Total	
		Tech- nical	Non- Tech- nical				Tech- nical	Non- Tech- nical			
1	2	3	4	5	6	7	8	9	10	11	
6. Social & Community Services											
(i) General Education	..	1,046	76	267	3,764	5,153	47	10	124	—	181
(ii) Technical Education	..	—	—	—	—	—	—	—	—	—	—
(iii) Medical & Public Health	..	1,700	1,438	105	716	3,959	1,203	938	10	390	2,541
(iv) Rural Water Supply	..	1,472	1,082	261	—	2,815	1,629	1,234	350	—	3,213
(v) Housing	..	—	—	—	—	—	—	—	—	—	—
(vi) Urban Development	..	500	110	120	—	730	1,000	250	250	—	1,500
(vii) Information and Publicity	..	—	—	—	—	—	—	—	—	—	—
(viii) Labour & Labour Welfare	..	30	39	48	58	175	10	7	55	58	130
(ix) Welfare of S.C. and B.C.	..	—	—	—	—	—	—	—	—	—	—
(x) Social Welfare	..	—	—	—	—	—	—	—	—	—	—
Total	..	4,748	2,745	801	4,538	12,832	3,889	2,439	789	448	7,565
7. Economic Services											
(i) Other General Economic Services	..	33	1	133	—	167	—	—	—	—	—
Total	..	33	1	133	—	167	—	—	—	—	—
8. General Services											
(i) Stationery and Printing	..	—	—	—	—	—	—	—	—	—	—
(ii) Public Works	..	—	—	—	—	—	—	—	—	—	—
Total	..	—	—	—	—	—	—	—	—	—	—
Grand Total	..	6,845	4,806	4,178	6,269	22,098	5,515	4,447	3,111	1,939	15,012

ANNEXURE—V

Number of work-seekers uneducated and educated (technical) and non-technical on the Live Registers of Employment Exchanges in Punjab

Category	Number of work-seekers as on		Percentage increase/decrease during the year
	30th June, 1978	30th June, 1979	
1	2	3	4
1. Uneducated	.. 176,598	194,164	9.95
2. Educated	.. 203,474	211,284	3.84
(i) Technical	.. 75,102	80,874	7.69
(ii) Non-technical	.. 128,372	130,410	1.59
Total work-seekers (1+2)	.. 380,072	405,448	6.68

ANNEXURE VI

Number of work-seekers (category-wise) on the Live Registers of Employment Exchanges in Punjab.

Category	Number of work-seekers as on		Percentage increase/decrease during the year
	30th June, 1978	30th June, 1979	
1	2	3	4
1. Graduate Engineers			
(a) Civil	135	101	-25.19
(b) Mechanical	72	40	-44.44
(c) Electrical	130	116	-10.77
(d) Chemical	6	4	-33.33
(e) Agricultural	51	27	-47.06
(f) Others	27	20	-25.93
Total—1	421	308	-26.84
2. Diploma Engineers			
(a) Civil	1,254	1,290	2.87
(b) Mechanical	642	761	18.54
(c) Electrical	839	801	-4.53
(d) Others	26	41	57.69
Total—2	2,761	2,893	4.78
3. Craftsmen Trained from I.T.I.			
(a) Technical Trades	12,113	12,509	3.27
(b) Non-Technical Trades	7,249	8,187	12.94
Total—3	19,362	20,696	6.89
4. Other Craftsmen			
(a) Technical Trades	4,573	3,834	-16.16
(b) Non-Technical Trades	2,218	3,275	47.66
Total—4	6,791	7,109	4.68
5. Allopathic Doctors			
(a) M.D./M.S.	..	..	..
(b) M.B.B.S.	80	47	-41.25
(c) Dentists	8	7	-12.50
Total—5	88	54	-38.64
6. Doctors Others			
(a) Ayurvedic	101	122	20.79
(b) Hakim/Unani	13	13	..
(c) Homoeopathic	5	22	340.00
Total—6	119	157	31.93

ANNEXURE—VI—concl'd.

Category	Number of work-seekers as on		Percentage increase/decrease during the year
	30-6-78	30-6-79	
1	2	3	4
7. Para-medical Personnel	1,538	1,779	15.67
8. Agricultural Specialists			
(a) Agricultural Graduates	489	377	-22.90
(b) Agricultural Post-Graduates	70	47	-32.86
Total—8	559	424	-24.15
9. Veterinarians			
(a) M.V.Sc.	..	..	..
(b) B.V.Sc.	3	55	1,733.33
(c) Dairy Graduates	15	2	-86.67
Total—9	18	57	216.67
10. Teachers			
(a) M.Ed.	71	114	60.56
(b) B.Ed. (Sc).	1,897	1,717	-9.49
(c) Math. Masters	502	366	-27.10
(d) B.Ed. (Others)	13,138	14,131	7.56
(e) J.B.T.	8,642	9,572	10.76
(f) Language Teachers	1,445	1,725	19.38
(g) Others	17,750	19,772	11.39
Total—10	43,445	47,397	9.10
11. Total 1 to 10	75,102	80,874	7.69
12. Graduate Freshers	28,283	29,534	4.42
(a) Graduate Arts/Commerce freshers	25,677	27,040	5.31
(b) Graduate Science freshers	2,606	2,494	-4.30
13. Post-graduate freshers	7,521	8,318	10.60
(a) Post-graduate Arts/Commerce freshers	6,679	7,416	11.03
(b) Post-graduate Science freshers	842	902	7.13
14. Matriculation freshers	66,405	65,492	-1.37
15. Hr. Sec. including intermediate below graduates	26,163	27,066	3.45
16. Total educated unemployed freshers (Matric and above) Total 12 to 15	1,28,372	1,30,410	1.59
17. Live Register other than covered under items 1 to 15	1,76,598	1,94,164	9.95
18. Total Live Register	3,80,072	4,05,448	6.68

ANNEXURE VII

(Rs in lakhs)

Serial No.	Name of the implementing Department Nomenclature of the Scheme	Actual Expenditure during 1978-79	Approved outlay 1979-80	Employment targets 1979-80	Proposed outlay 1980-81	Employment targets 1980-81
1	2	3	4	5	6	7
Industries Department						
1.	Training for self-employment	0.66	1.00	130	1.00	100
2.	Promotion of self-employment through seed/margin money assistance	20.00	5.00	25	12.00	60
3.	Establishment of Industrial/Commercial Estates	..	5.00	25	5.00	25
4.	Supply of machinery on hire-purchase basis	..	5.00	15	10.00	30
5.	Training for guaranteed employment	5.15	5.00	390	..	..
Agriculture Department						
6.	Setting up of 300 Agro-Service Centres— Payment of interest subsidy to the entrepreneurs (A State Scheme)	4.39	25.00	250	25.00	200
7.	Seed/margin money assistance to entrepreneurs for setting up of agro-service centres (for persons trained under centrally sponsored scheme)					
Milk Commissioner						
8.	Special Employment Programme introduction of commercialised milk production	1.37	24.00	720	10.00	720
Technical Education						
9.	Training to scheduled castes in diploma courses in Engineering	0.25	0.08	N.A.	Dropped	N.A.
Printing and Stationery						
10.	Apprenticeship training to 10 matriculates as type-writer mechanics	0.07	0.12	10	0.12	10
Total		31.89	70.20	1565	63.12	1145

ANNEXURE—VIII
STATE/UNION TERRITORY
STATEMENT EMP-I

Employment content of State Plans 1980-81—Outlay and Expenditure Targets and Achievements

SPECIAL EMPLOYMENT PROGRAMMES/SCHEMES

Serial No.	Implementing Agency/Department	Name of Scheme(s)	Five Year Plan Outlay (1978-83) (Rs Lakhs)	1978-79 Actual (Rs. lakhs)	1979-80		1980-81	Physical Achievements/(Employment generation, etc.)						
					Approved Outlay (Rs. lakhs)	Anticipated expenditure (Rs. lakhs)	proposed outlay (Rs. lakhs)	Unit	1977-78 base year level	1982-83 Terminal year target	1978-79 Achievement	1979-80		1980-81
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Director of Industries Punjab	Training for self-employment	13.00	0.66	1.00	1.00	1.00	Trainees	31	390	92	130	130	100
2		Promotion of Self-Employment through seed/Margin money assistance	73.39	20.00	5.00	5.00	12.00	Units	—	75	251	25	25	60
3		Establishment of Industrial/Commercial Estates	15.00	..	5.00	5.00	5.00	..	—	50	—	25	25	25
4		Supply of Machinery on Hire Purchase basis	40.00	..	5.00	5.00	10.00	Units	—	30	—	15	15	30
5		Training for Guaranteed Employment	17.00	5.15	5.00	5.00	—	Trainees	220	—	473	390	N.A.	—
6	Agriculture Department	Setting up of 300 Agro-Service Centres—payment of Interest subsidy to the entrepreneurs (A State Scheme)	100.00	4.39	25.00	25.00	25.00	..	—	250	213	250	100	200
7		Seed/Margin money assistance to entrepreneurs for setting up of agro-service centres (for persons trained under Centrally-Sponsored Scheme)												
8	Dairy Development Department	Special Employment Drive Scheme for the Self-Employment for the introduction of Scientific/Commercialised Milk Production	123.02	1.37	24.00	24.00	10.00	Nos.	—	720	230	720	200	720
9	Printing and Stationery Department, Punjab	Apprenticeship Training Scheme to 10 Typewriter Mechanics	0.60	0.07	0.12	0.12	0.12	Training to Typewriter Mechanics	10	10	6	10	10	10

Revised Minimum Needs Programme

The Draft Sixth Five-Year Plan 1978—83, issued by the Planning Commission envisages the following three principal objectives of planning for the next ten years:—

- (i) The removal of un-employment and significant under-employment;
- (ii) An appreciable rise in the standard of living of the poorest sections of the population;
- (iii) Provision by the State of some of the basic needs of the people in these income-groups, like clean drinking water, adult literacy, elementary education, health care, rural roads, rural housing for the landless and minimum services for the urban slums.

18.2. The third objective has been broadly defined as a Revised Minimum Needs Programme. This programme includes following nine items of minimum needs:—

- (1) Elementary Education
- (2) Adult Education
- (3) Rural Health
- (4) Rural Water Supply
- (5) Nutrition
- (6) Rural Electrification
- (7) Houses for landless labour house-holders
- (8) Environmental improvement of urban slums
- (9) Rural Roads

18.3. All the villages in the State have already been electrified. The next step is to intensify and improve the use of power in rural areas. Thus except for this item (6), details of other programmes are given in the following paragraphs.

General Education :

18.4. Under the R.M.N.P. elementary education (Primary and Middle) and Adult Education have been included since 1979-80. Under this programme the actual expenditure incurred on various schemes for General Education is Rs. 842.32 lakhs.

The approved outlay for 1979-80 is Rs. 214.79 lakhs. The steep fall in the outlay is due to the reasons that staff component at the level of 1978-79 was committed to Non-Plan Budget during 1979-80. The proposed outlay for 1980-81 is Rs.239.15 lakhs. The programme-wise details are discussed as below:—

(I) Primary Education (Classes I—V) age group 6—11.

Under this programme the actual expenditure incurred during 1978-79 is Rs. 277.76 lakhs. During 1979-80, a sum of Rs. 58.00 lakhs has been provided. During 1980-81 an outlay of Rs. 55.00 lakhs has been earmarked which is inclusive of Rs. 2.50 lakhs for the non-formal education in this age group. During 1978-79 the State Government has achieved an enrolment of 21.06 lakhs children in this age group. The likely achievement during 1979-80 is 21.20 lakhs children while the proposed target for 1980-81 is 19.75 lakhs children. There is large number of drop-outs in the age-group 6—11. In order to impart education to such drop outs and some other children in age-group 6—11 who are unable to attend regular classes due to social and economic reasons, a scheme was formulated during the Annual Plan 1979-80 for starting 250 part time Non-Formal Education Centres. These Centres will be continued during the year 1980-81.

(II) Middle Education (Classes VI—VIII) age group 11—14

Under this programme the actual expenditure incurred during 1979-80 is Rs. 560.49 lakhs. During 1979-80 a sum of Rs. 136.82 lakhs has been provided. During 1980-81, an outlay of Rs. 165.05 lakhs has been earmarked which also comprises of Rs. 3.00 lakhs for the Non-Formal Education in the Age-group 11—14, In this age-group an enrolment of 6.62 lakh children was achieved by the end of 1978-79. The likely achievement by the end of 1979-80 is 7.35 lakh children while the proposed target for 1980-81 is 7.90 lakh children.

Adult Education

18.4. Keeping the recommendations of National Adult Education Programme in view, a sum of Rs. 19.97 lakhs was provided during 1979-80 for adult literacy in the age-group 15—35. To continue the programme an outlay of Rs. 19.10 lakhs has been earmarked during 1980-81.

RURAL HEALTH SERVICES

18.5. The entire expenditure on rural health care services (allopathic) falls under Revised Minimum Needs Programme. In the Sixth Five-Year Plan, there is a considerable emphasis on health facilities in rural areas. The major thrust is towards creating comprehensive and well structured rural health services. An outlay of Rs. 2200.00 lakhs has been provided under R.M.N.P. for the Sixth Five-Year Plan. The following structure for rural health services is visualised by 1984-85 or 1985-86 :—

- (i) One subsidiary Health Centre shall be provided per 5000 rural population.
- (ii) Each block shall be provided with 25 bedded hospital.

18.6. In 1980-81, an outlay of Rs. 242.25 lakhs is proposed for different schemes under R.M.N.P. as detailed below :—

(i) Completion and Improvement of Primary Health Centres :—

Out of the existing 129 Primary Health Centres, buildings in respect of 105 Health Centres have been completed. The work with regard to the remaining Health Centres is in hand. An outlay of Rs. 1.00 lakh is proposed during 1980-81 for the completion of the on-going works.

(ii) Completion and Improvement of Sub-Centres :

In view of the above envisaged rural health structure this scheme has been discontinued from 1979-80.

(iii) Establishment of 25 bedded block-level rural Hospital :

To provide medical facilities in rural areas, it is proposed to set up 25 bedded hospital in each block. The number of rural hospitals

at the end of 1978-79 was 81. During the year 1979-80 the opening of thirty 25 bedded rural hospitals has been sanctioned. It is proposed to open 10 new Rural Hospitals at block level in 1980-81. The outlay proposed for 1980-81 is Rs. 77.00 lakhs.

(iv) Opening of Subsidiary Health Centres in Rural Areas :

The number of Subsidiary Health Centres (rural dispensaries) at the end of 1978-79 was 846. During the year 1979-80, 250 new subsidiary health centres are expected to be opened. During the year 1980-81, it is proposed to open another 250 new Subsidiary Health Centres in rural areas. For this purpose, an outlay of Rs. 150.00 lakhs is proposed.

(v) Improvement of Subsidiary Health Centres :

This scheme is being discontinued from 1979-80. However, an outlay of Rs. 1.00 lakh is being kept in 1980-81 for the completion of some spill over works.

(vi) Establishment of dental clinics in each block :

68 Block level dental clinics had been established by the end of 1978-79. During 1979-80, 10 new dental clinics at block level are expected to be established. During 1980-81, there is a target of establishing 10 more dental clinics at block level. An outlay of Rs. 6.00 lakhs is proposed for 1980-81 against the anticipated expenditure of Rs. 4.00 lakhs during 1979-80.

(vii) Providing Specialists teams in rural areas :

This scheme has been started for the first time to provide specialists services at the door step of rural areas. During 1979-80, it is proposed to provide 5 such teams against the original target of 10 specialists teams. Each team will consist of 6 specialists in Medicine, Surgery, Midwifery and Gynae. Eye & E.N.T., Paediatrics and Anaesthesia. Each team will be provided with a mini bus for providing specialist services, to the rural population of the block at regular intervals. This scheme will meet the long standing demand of rural folks for providing specialist services nearer their home. During the year 1980-81, an outlay of Rs. 7.25 lakhs is proposed only for the continued component and no new health specialist team is proposed to be established.

RURAL WATER SUPPLY

18.7. The total cost of providing piped water supply to all the 12,188 villages in the State is estimated at Rs. 372.00 crores. This is beyond the capacity of the State. Government have decided that for the present the coverage should be limited to scarcity villages only. The following criteria have been laid down by Government of India for identifying the scarcity villages :

The villages (i) without an assured source of drinking water within 1.6 K.M. or so, or ;

(ii) where the source of water supply is endemic to water born diseases like Cholera or ;

(iii) where there is excess salinity, iron or flouride.

18.8. According to these criteria 3800 villages have been identified as scarcity villages in the State. These villages are located both in sub-montaneous areas and the plains. In the sub-montaneous areas, the water sources are either deep or very far from the villages and in the plains water is highly brackish or saline or it contains excessive flourides.

18.9. As per revised design criteria of 15 gallons (70 litres) per head per day and a terminal pressure of 8 metres, the total cost of providing piped water supply to 3800 scarcity villages has been estimated at Rs. 146.00 Crores.

18.10. By March 1979, the water supply scheme had been commissioned in 1810 villages at a cost of Rs. 26.42 crores. Year-wise expenditure incurred since 1974-75 is given below :—

Year	(Rs. in crores) Expenditure
On the eve of Fifth Plan	.. 12.59
1974-75	.. 3.98
1975-76	.. 3.68
1976-77	.. 4.14
1977-78	.. 5.34
1978-79	.. 4.03
Expenditure under Accelerated Rural Water Supply Scheme (Government of India Scheme) during 1977-78 and 1978-79	.. 2.45
Total	.. 36.21

18.11. During 1979-80 an outlay of Rs. 5.00 crores was made for this programme. A sum of Rs. 2.00 crores was also expected to come from Government of India under the centrally sponsored scheme, 'Accelerated Rural water Supply'.

18.12. Physical progress of the Rural Water Supply Programme is given in the following table :—

Year	Sanc- tioned	Commis- sioned	In pro- gress at the end of the year
Upto 1973-74	.. 1557	524	1033
During 1974-75	.. 46	317	762
During 1975-76	.. 289	347	704
During 1976-77	.. 135	284	555
During 1977-78	.. 210	202	563
During 1978-79	.. 236	136	663
Total	.. 2473	1810	

During 1978-79 the target is to commission the water supply in 135 villages.

18.13. By the end of the current year, a total expenditure of Rs. 41.21 crores would have been incurred and the water supply commissioned in 1945 villages. An outlay of Rs. 5.00 crores is proposed for 1980-81 for commissioning water supply in 135 additional villages. Thus at the end of 1980-81, 2080 villages will be provided with drinking water facility. The main emphasis under this programme is on the completion of the on-going works so that water supply facility become available to as many as possible within the shortest time.

RURAL ROADS

18.14. A 'Crash Programme' for village roads was launched in the Fourth Five-Year Plan and an expenditure of Rs. 35.52 crores was incurred for the construction of village roads during the period. During Fifth Plan period (1974-78),

the expenditure incurred was Rs. 29.26 crores and during this period 5,261 Kms. of road length was completed bringing the total road kilometreage constructed under this scheme from 15,985 Kms. at the end of 1973-74 to 21,246 Kms at the close of 1977-78. The number of villages not connected by roads which stood at 3,800 at the end of 1973-74 was reduced to 1,785 as on 31st March, 1978 by the connection of 2,015 villages during 1974-78. In the Annual Plan 1978-79, an expenditure of Rs. 9.52 crores was incurred and during this period 1,391 Kms. of road length was constructed and metalled links were provided to 1,138 villages. As on April, 1979, 647 villages were left unlinked with roads which required construction of 1,249 Kms of road length. In the Annual Plan 1979-80, an outlay of Rs. 4.50 crores has been provided for this purpose. It has been anticipated that 1,000 Kms of road length will be added to the village roads net work giving metalled links to 397 villages. In the Annual Plan 1980-81, Rs. 4.45 crores have been proposed for this scheme for completing the spill over works.

Houses for Harijans :

18-15. About 3 lakh families have been allotted free house sites measuring 100 sq. yards each. The Punjab Housing Development Board has taken up the construction work on these sites. The cost of the house is Rs. 4,000, out of which Rs. 3,000 will be paid as subsidy by the Government and Rs. 1,000 as loan to the beneficiary. The loan will be recovered in small monthly instalments spread over ten years. During Sixth Five-Year Plan, an outlay of Rs. 440.00 lakhs has been provided for this purpose. During 1978-79, Rs. 100.00 lakhs were provided to the Housing Development Board for construction of 5,000 houses. Since the Board could not complete the construction of 3,946 houses during 1977-78, it was expected that 8,946 houses would be completed by the end of 1978-79. Against this target the Board completed only 508 houses while another 1,600 houses were under construction by the end of 1978-79.

18-16. During the year 1979-80, a sum of Rs. 70.00 lakhs has been provided for construction of 3,500 houses. During 1980-81 another sum of Rs. 70.00 lakhs is proposed. Out of this the Board will repay loan to the tune of Rs. 19.5 lakhs and

interest to the tune of Rs. 15.19 lakhs to meet the total HUDCO liabilities for the loans raised or to be raised upto 31st March, 1980. After meeting the repayment liabilities the net seed money with the Board will be Rs. 35.31 lakhs. Against this, the Housing Board will raise loan from HUDCO to the extent of Rs. 35.31 lakhs. Thus the available amount for the construction of Harijan houses during 1980-81 will be Rs. 70.62 lakhs. The number of houses likely to be constructed will be 1,765 on the basis of cost of Rs. 4,000 per house, the cost ceiling fixed by HUDCO.

Environmental improvement of Urban Slums (Slum Clearance/Improvement)

18-17. The fast rate of urbanisation has led to the development of slums in practically all the growing towns of the State. Schemes can be taken up for clearance of slums and construction of new houses for slum dwellers. For this purpose, legislation, called the Punjab Slum Areas (Improvement and Clearance) Act, 1961, exists. Under this Act local bodies have been empowered to declare areas as slums and proceed to demolish the existing buildings etc. The approach during the Sixth Five Year Plan is not to demolish the existing slums and re-establish the slum dwellers at new places but to provide basic amenities like drinking water, paving of streets, drainage, public urinals and laterines, etc., in the existing slums, so that the living conditions of the dwellers could be improved.

18-18. During Sixth Five-Year Plan, an outlay of Rs. 50.00 lakhs has been provided for the work of environmental improvement of slums by providing civic amenities like drinking water, paving of streets, drainage, public urinals and latrines, etc. For 1979-80 an outlay of Rs. 2.00 lakhs has been provided for this purpose and during 1980-81 same outlay of Rs. 2.00 lakhs is proposed.

Nutrition

18-19. The Nutrition Programme—Special Nutrition Programme and Integrated Child Development Services Projects—seek to tackle the problem of malnutrition at its very roots by taking care of the expectant and nursing mothers and the pre-school children of the weaker section in the age-group 0-6 years. Under the Special Nutrition Programme, 5 districts of Kapurthala, Hoshiarpur,

Gurdaspur, Ferozepur and Faridkot are being covered. The nutritional diet at the rate of 50 paise per head per day is provided for 200 days in a year. Under the I.C.D.S. Projects, three blocks Nurpur Bedi in Ropar district, Nathana in Bhatinda district and Lambi in Faridkot district are covered where the traditional food 'Dalia'

etc. is provided. Expenditure on diet is met from within the State Plan Budget and the administrative charges are made available by the Government of India. In the Annual Plan 1980-81 an outlay of Rs. 16.00 lakhs is proposed to cover 21,000 beneficiaries.

Special Component Plan for Scheduled Castes

The Scheduled Castes constitute about 25 per cent of the total population of the State. Their population is spread in varying proportion all over the State. The district of Jullundur has the highest number with 33 per cent of its total population as scheduled castes, the lowest being the district of Ferozepur with only 18 per cent of these classes. Special distribution shows that 85 per cent of the scheduled castes live in country-side as compared to 73 per cent of the non-scheduled castes. Only 15 per cent live in towns generally in the semi-urban and sub-urban areas. There is segregation of their population in separate basties in rural as well as in urban areas. This is the result of age old social discrimination which still persists.

19.2. In term of occupational distribution of scheduled caste population, 58 per cent of them are agricultural labourers as compared to 8 per cent of the non-scheduled castes. 10.7 per cent are cultivators mostly small and marginal farmers. Others in the rural areas are engaged in traditional occupations such as shoe making/repairing, weaving, handicrafts etc. A sizeable population is also engaged in unclean occupation such as flaying and tanning generally limited to rural and semi-urban areas. In urban areas they are mostly engaged in scavenging of dry-latrines and other low income occupations like rickshaw-pulling cart-pulling etc. Hardly 2 per cent of them are engaged in trade and commerce.

19.3. The level of literacy among the scheduled castes is very low. A little more than 16 per cent of them are literate as compared to more than 39 per cent of the non-scheduled castes. The rate of literacy among the scheduled caste women is extremely unsatisfactory. It is hardly 4 per cent as compared to 12.37 per cent among men. The poor standard and limited spread of education among them are the result of their general

economic backwardness as well as its major cause. Most of the scheduled castes are below the poverty line. Lack of education, low income occupation and rapid growth in their population are factors forming the vicious circle of their economic backwardness. Majority of the scheduled castes are agricultural labourers who fall in the lowest income bracket. The cultivators who are small and marginal agriculturists, are actually no better than daily wage earners in the matter of income. Artisans among them, mostly leather workers, continue to suffer from a number of handicaps in the matter of improving their skill and working conditions. Besides, a number of them are engaged in un-hygienic occupations like scavenging and cleaning of lavatories. Such low paid occupations force them to borrow heavily which leads to the deteriorating economic conditions. The pace of their economic development has failed to make much significant impact on their living conditions. In fact, it has accentuated the difference between their levels of living and other sections of the society.

19.4. Since the First Five-Year Plan, the major thrust of the welfare programme for these castes has been towards (i) spread of education (ii) economic development (iii) housing, environmental improvement and other social assistance. These programmes have been formulated and implemented exclusively for scheduled castes and backward classes. Though scheduled castes have benefited from these programmes, yet a lot remains to be done.

19.5. It has now been recognised that for judicious social development, the scheduled castes who constitute the poorer and the more vulnerable section of the community, should derive maximum benefits from under the general Plan programmes. For this purpose a beginning was made in 1979-80 with the preparation of a Special Component Plan. Programmes and schemes under all the sub-

heads of development were scrutinised with a view to identifying those which could be divided to earmark funds exclusively for the benefit of scheduled castes. The funds of these schemes were quantified in favour of scheduled castes alongwith the resultant employment, training and other benefits flowing from each of such programmes. The benefits under each scheme are, however, not strictly inproportion to their population in the State. They vary from 10 per cent in the case of some schemes to 100 per cent in the case of other schemes.

19.6. The total outlay of the Special Component Plan for 1979—83 was worked out at Rs. 18.08 crores which is a 19.36 per cent of the total Plan provision of the identified schemes of the general sectors of development. For 1979-80 a provision of Rs. 3.53 crores was

made under the Special Component Plan which was revised to Rs. 3.62 crores later on. In 1980-81 an outlay of Rs. 4.55 crores has been identified for this Component. In addition the outlays of Rs. 16.20 crores during 1979—83 and Rs. 3.44 crores in Annual Plan 1980-81 have also been set aside under the sub-head of development 'Welfare of Scheduled Castes and Backward Classes. Details of the Plan provision and the outlays earmarked for scheduled castes under the various sub-heads of development are given in Annexure-I. Schemewise details of funds provided under the Special Component Plan for Scheduled Castes are given in Annexure-II. Care has been taken to include as many schemes as possible from the list of schemes identified as a result of discussion between the State Government and the Ministry of Home Affairs.

ANNEXURE I

ANNUAL PLAN— 1980-81

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

Summary Statement by Heads of Developments

(Rs. in lakhs)

Sub-Head of Development	Outlay 1979-83		1979-80		1980-81			
	Plan provision	Outlay ear-marked for Scheduled Castes	Approved Plan Provision	Anticipated Expenditure	Outlay ear-marked for Scheduled Castes	Anticipated Expenditure for Scheduled Castes	Outlay proposed	Outlay proposed for Scheduled Castes
1	2	3	4	5	6 ✓	7	8	9
1. Agriculture ..	2945.97	174.64	377.80	377.80	63.75	63.60	791.81	83.86
2. Soil Conservation ..	879.50	87.95	189.70	189.70	19.00	19.00	231.00	23.10
3. Animal Husbandry ..	743.01	121.75	132.55	144.19	31.35	31.32	133.16	32.69
4. Dairying and Milk Supply ..	294.60	49.40	58.80	58.80	11.45	11.89	33.00	7.62
5. Fisheries ..	42.00	10.50	3.00	3.00	1.25	1.25	5.00	1.25
6. Community Development and Panchayats ..	479.20	119.80	63.80	63.80	16.25	16.25	75.50	18.90
7. Co-operation ..	9.41	7.10	1.00	1.00	0.75	0.75	2.00	1.45
8. Power ..	N.A.	N.A.	—	—	—	1.00	3.60	3.60
9. Industry and Minerals ..	1560.23	274.72	290.59	290.59	34.60	34.60	341.40	69.32
0. General Education ..	79.06	25.10	22.97	22.97	5.74	5.74	22.10	5.53
1. Technical Education ..	3.25	0.82	0.70	0.70	0.18	0.18	1.00	0.25
2. Public Health and Medical ..	79.37	4.52	0.35	0.35	0.35	0.35	14.18	0.90
3. Urban Development ..	135.00	135.00	15.00	15.00	15.00	15.00	15.00	15.00
4. Housing ..	1507.00	651.75	350.00	350.00	141.00	141.00	440.00	167.50
5. Information and Publicity ..	4.36	1.10	—	—	—	—	2.00	0.50
6. Labour and Labour Welfare ..	98.75	24.70	20.50	20.50	5.13	5.13	23.00	5.76
7. Social Welfare ..	332.81	83.20	42.50	42.50	10.77	10.77	56.45	14.10
8. Nutrition ..	141.54	35.40	16.00	16.00	4.00	4.00	16.00	4.00
9. Stationery and Printing ..	0.48	0.12	0.12	0.12	0.03	0.03	0.12	0.03
Total ..	9335.54	1807.57	1587.38	1599.34	360.60	361.86	2206.32	455.36
Welfare of Scheduled Castes and Backward Classes ..	1619.65	1619.65	233.75	233.75	233.75	233.75	343.80	343.80
Grand Total ..	10955.19	3427.27	1821.13	1833.09	594.35	595.61	2550.12	799.16

ANNEXURE—II

ANNUAL PLAN—1980-81

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

(Rs. in lakhs)

Scheme	Outlay 1979—83		1979-80		1980-81				
	Plan provision	Outlay earmarked for Scheduled Castes	Approved Plan Provision	Anticipated Expenditure for Scheduled Castes	Outlay earmarked for Scheduled Castes	Anticipated Expenditure for Scheduled Castes	Outlay proposed	Outlay proposed for Scheduled Castes	
1	2	3	4	5	6	7	8	9	
HEAD—AGRICULTURE									
Extension and Farmer's Training									
A(P) 3.5	Training of Farmers	9.10	1.00	1.80	1.80	0.25	0.25	1.80	0.25
A(P) 3.7	Higher Training and condensed courses for in service A.S.Is./CIs./GSSs.	7.80	0.78	2.00	2.00	0.25	0.10	1.51	0.15
	Total	16.90	1.78	3.80	3.80	0.50	0.35	3.31	0.40
Land Reclamation									
A(P) 5.2	Amendment of Alkali Soils	1491.00	14.91	215.00	215.00	21.50	21.50	442.00	44.20
	Total	1491.00	14.91	215.00	215.00	21.50	21.50	442.00	44.20
Manures and Fertilizers									
A(P) 7.2	Fertilizers, demonstrations and training on cultivators' fields	5.06	0.50	—	—	—	—	1.50	0.15
	Total	5.06	0.50	—	—	—	—	1.50	0.15
Plant Protection									
A(P) 9.1	Ground Spraying of crops	533.87	53.00	—	—	—	—	60.00	6.00
A(P) 9.5	Control of weeds and loose smut	200.00	20.00	—	—	—	—	28.00	2.80
	Total	733.87	73.00	—	—	—	—	88.00	8.80
Commercial Crops									
A(P) 10.1	Development of sugarcane around sugar factory areas	51.38	5.15	—	—	—	—	8.00	0.80
A(P) 10.5	Development of sugarcane in Zira and Gurdaspur areas for the public sector sugar mills	29.46	2.90	—	—	—	—	7.60	0.76
	Total	80.84	8.05	—	—	—	—	15.60	1.56
Small Farmers and Agricultural Labourers									
A(P) 11.1	Scheme for Small Farmers and Agricultural Labourers	274.03	27.00	75.00	75.00	29.00	29.00	195.00	19.50
	Total	274.03	27.00	75.00	75.00	29.00	29.00	195.00	19.50

ANNUAL PLAN 1980-81

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

(Rs. in lakhs)

Scheme	Outlay 1979-83		1979-80		1980-81				
	Plan provision	Outlay earmarked for Scheduled Castes	Approved Plan Provision	Anticipated Expenditure	Outlay earmarked for Scheduled Castes	Anticipated Expenditure for Scheduled Castes	Outlay proposed	Outlay proposed for Scheduled Castes	
1	2	3	4	5	6	7	8	9	
Horticulture :									
A(P) 16.3	Development of Horticulture	228.43	22.80	54.85	54.85	5.50	5.50	15.00	2.00
A(P) 16.4	Development of Horticulture in Shivalik hills	15.80	1.60	4.15	4.15	1.00	1.00	6.40	1.00
	Total	244.23	24.40	59.00	59.00	6.50	6.50	21.40	3.00
Employment Promotion Programme									
A(P) 19.1	Setting up of 300 Agro-service centres— Payment of interest subsidy to the enter- prenures	100.00	25.00	25.00	25.00	6.25	6.25	25.00	6.25
A(P) 19.2	Seed money assistance to enterprenures for setting up of agro service centres								
	Total	100.00	25.00	25.00	25.00	6.25	6.25	25.00	6.25
	Grand Total	2945.97	174.64	377.80	377.80	63.75	63.60	791.81	83.86
Soil Conservation Schemes :									
HEAD: SOIL CONSERVATION									
SC(A) 4.1	Soil and water conservation on water shed basis	446.00	44.60	130.00	130.00	13.00	13.00	145.00	14.50
SC(A) 4.2	Pilot Projects on development of Kandi areas with World Bank assistance	216.00	21.60	33.70	33.70	3.40	3.40	42.00	4.20
SC(A) 4.3	Soil conservation works in Border areas	107.50	10.75	24.00	24.00	2.40	2.40	24.00	2.40
SC(A) 4.6	Development of Bet areas	40.00	4.00	2.00	2.00	0.20	0.20	4.00	0.40
SC(A) 4.7	Scheme for Ravine reclamation	40.00	4.00	—	—	—	—	5.00	0.50
SC(A) 4.9	Soil and water conservation in the catchment of river valley projects	30.00	3.00	—	—	—	—	11.00	1.10
	Total	879.50	87.95	189.70	189.70	19.00	19.00	231.00	23.10
Cattle Development :									
HEAD: ANIMAL HUSBANDRY									
AH 5.8	Training of farmers in techniques of rearing, feeding, breeding and management of exotic cross bred cattle	4.90	0.50	1.25	1.93	—	0.31	1.25	0.31
AH 5.10	Assistance to small/marginal farmers and agricultural labourers for rearing of cross bred heifers (State Share)	73.27	7.30	9.30	13.00	4.10	6.25	13.62	6.05
AH 5.21	Implementation of poultry, piggery and sheep production programme through small Farmer and Agricultural Labourers	70.00	7.00	—	14.00	—	2.67	10.29	1.66
	Total	148.17	14.80	10.55	28.93	4.10	9.23	25.16	8.02
Poultry Development :									
AH 6.4	Establishment of Poultry Estates in the selected localities for providing employment to educa- ted un-employed	5.00	1.25	—	—	—	—	3.00	0.75
	Total	5.00	1.25	—	—	—	—	3.00	0.75

ANNUAL PLAN 1980-81
SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

(Rs. in lakhs)

Scheme	Outlay 1979-83		1979-80		1980-81				
	Poan provision	Outlay earmarked for scheduled Castes	Approved Plan Provision	Anticipated Expenditure	Outlay earmarked for Scheduled Castes	Anticipated Expenditure for Scheduled Castes	Outlay proposed	Outlay proposed for Scheduled Castes	
1	2	3	4	5	6	7	8	9	
Other Live-stock Development :									
AH 9.5	Kandi water sheds and area development projects	227.20	22.70	23.00	1.00	6.00	—	5.00	0.75
AH 9.7	I.R.D.P.	316.14	79.00	85.00	106.06	21.25	21.25	90.00	22.50
	Total	543.34	101.70	108.00	107.26	27.25	21.25	95.00	23.25
Feed and Fodder Development :									
AH 10.7	Production and popularisation of newly evolved fodder varieties	46.50	4.00	14.00	8.00	—	0.74	10.00	0.67
	Total	46.50	4.00	14.00	8.00	—	0.84	10.00	0.67
	Grand Total	743.01	121.75	132.55	144.19	31.35	31.32	133.16	32.69
HEAD: DAIRY AND MILK SUPPLY									
DM 2.2	Dairy Development Dairy Extension Units for intensification of milk production	60.19	6.00	19.00	19.00	—	0.44	12.50	1.25
DM 2.5	Self Employment Programme	121.65	12.20	24.00	24.00	6.00	6.00	10.00	2.50
	Total	181.84	18.20	43.00	43.00	6.00	6.44	22.50	3.75
Education and Training									
DM 3.1	Training of Technical Personnel	4.76	1.20	0.80	0.80	0.20	0.20	0.50	0.12
	Total	4.76	1.20	0.80	0.80	0.20	0.20	0.50	0.12
Other Expenditure									
DM 5.2	Supply of subsidized milk to weaker sections	20.00	10.00	5.00	5.00	2.50	2.50	5.00	2.50
DM 5.3	Integrated Rural Development Programme	88.00	20.00	10.00	10.00	2.50	2.50	5.00	1.25
	Total	108.00	30.00	15.00	15.00	5.00	5.00	10.00	3.75
	Grand Total	294.60	49.40	58.80	58.80	11.20	11.64	33.00	7.62
HEAD: FISHERIES									
Fisheries									
FH 4.2	Promotion of intensive fish culture by providing assistance to private/cooperative sectors (IRDP)	38.00	9.50	5.00	3.00	1.25	1.25	4.00	1.00
FH 4.8	Demonstration of fish culture	4.00	1.00	—	—	—	—	1.00	0.25
	Total	42.00	10.50	5.00	3.00	1.25	1.25	5.00	1.25

ANNUAL PLAN 1980-81
SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

(Rs. in lakhs)

Scheme	Outlay 1979-83		1979-80		1980-81					
	Plan provision	Outlay earmarked for Scheduled Castes	Approved Plan Provision	Anticipated Expenditure	Outlay earmarked for Scheduled Castes	Anticipated Expenditure for Scheduled Castes	Outlay Proposed	Outlay proposed for Scheduled Castes		
1	2	3	4	5	6	7	8	9		
HEAD: COMMUNITY DEVELOPMENT AND PANCHAYAT.										
Community Development and Panchayats										
CD 3.4	Composite Programme for women and pre-school children	14.20	3.55	3.80	3.80	1.25	1.25	5.50	1.40	
CD 3.5	Pavement of streets and construction of drains	445.00	111.25	60.00	62.50	15.00	15.00	60.00	15.00	
CD 3.7	Development of Model Villages	..	20.00	5.00	—	—	—	10.00	2.50	
	Total	..	479.20	119.80	63.80	63.80	16.25	16.25	75.50	18.90
HEAD : COOPERATION										
I Industrial Cooperatives										
CN 9.3	Assistance to handloom cooperatives—interest concessions	4.41	3.10	0.50	0.50	0.35	0.35	1.00	0.70	
CN 9.5	Development of handloom industry—supply of improved appliances	5.00	4.00	0.50	0.50	0.40	0.40	1.00	0.75	
	Total	..	9.41	7.10	1.00	1.00	0.75	2.00	1.45	
HEAD : POWER										
Rural Electrification										
PP 4.1	Electrification of Harijan basties	..	N.A.	N.A.	—	—	—	1.00	3.60	3.60
	Total	..	N.A.	N.A.	—	—	—	1.00	3.60	3.60
HEAD : INDUSTRY AND MINERALS										
Small Scale Industries										
IN 4.1	Credit facility for the development of small scale industries	60.00	15.00	15.00	15.00	3.75	3.75	10.00	2.50	
IN 4.2	Subsidy	..	4.00	1.00	1.00	0.25	0.25	1.00	0.25	
IN 4.5	Out-right subsidy	..	62.00	7.75	10.00	10.00	1.25	1.25	15.00	2.00
IN 4.14	Modernisation of Small Scale Industries	..	37.70	3.77	7.50	7.50	0.75	0.75	8.00	1.00
IN 4.21	Shoe & Leather Goods Training Centre, Longowal	..	1.60	1.60	0.40	0.40	0.40	0.40	0.40	
IN 4.22	Interest Subsidy	..	25.00	6.25	5.00	5.00	1.25	1.25	5.00	1.25
IN 4.25	Training of Self-Employment	..	12.00	3.00	1.00	1.00	0.25	0.25	1.00	0.25
IN 4.26	Promotion of Self-Employment through seed capital margin money assistance	..	53.79	13.45	5.00	5.00	1.25	1.25	12.00	3.00
IN 4.28	Supply of machinery on hire-purchase basis	..	40.00	10.00	5.00	5.00	1.25	1.25	10.00	2.50
IN 4.29	Training for guaranteed employment	..	11.00	1.10	5.00	5.00	0.50	0.50	—	—
IN 4.39	Decentralisation of leather workers	..	100.00	100.00	—	—	—	—	30.00	30.00
	Total	..	407.09	162.92	54.90	54.90	10.90	10.90	92.40	43.15

ANNUAL PLAN 1980-81

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

(Rs. in lakhs)

Scheme	Outlay 1979-83		1979-80		1980-81			
	Plan provision	Outlay earmarked for Scheduled Castes	Approved Plan Provision	Anticipated Expenditure	Outlay earmarked for Scheduled Castes	Anticipated Expenditure for Scheduled Castes	Outlay Proposed	Outlay proposed for Scheduled Castes
1	2	3	4	5	6	7	8	9
Industrial Estates								
IN 5.1 (i) Interest free loans	720.00	45.00	140.00	140.00	9.00	9.00	145.00	10.00
(ii) Land subsidy	117.00	9.75	27.00	27.00	2.25	2.25	35.00	3.00
(iii) Investment Loans	70.00	8.75	10.00	10.00	1.25	1.25	6.00	1.25
Total	907.00	63.50	177.00	177.00	12.50	12.50	186.00	14.25
Handloom Industries								
IN 6.1 Installation of Jacquard machines	10.50	4.20	3.00	3.00	1.20	1.20	2.50	1.00
IN 6.2 Interest free loans for margin money	8.00	2.00	2.00	2.00	0.50	0.50	0.50	0.12
IN 6.3 Training of Weavers	2.00	1.00	0.50	0.0	0.25	0.25	0.50	0.25
IN 6.5 Development of Handloom Industry in sub-montane areas	10.00	0.40	2.50	2.50	0.10	0.10	2.50	0.10
IN 6.6 Construction of workshed for Weavers	9.50	3.80	2.00	2.00	0.80	0.80	2.00	0.80
Total	40.00	11.40	10.00	10.00	2.85	2.85	8.00	2.27
Village Industries								
IN 7.1 Integrated Rural Development Programme	178.00	35.60	40.00	40.00	8.00	8.00	45.00	9.25
Total	178.00	35.60	40.00	40.00	8.00	8.00	45.00	9.2
Handicrafts								
IN 8.1 Development of Handicraft Industries	14.14	1.00	3.53	3.53	0.25	0.25	4.00	0.30
Total	14.14	1.00	3.53	3.53	0.2	0.25	4.00	0.30
Sericulture Industries								
IN 9.1 Development of sericulture Industries	14.00	0.30	5.16	5.16	0.10	0.10	6.00	0.10
Total	14.00	0.30	5.16	5.16	0.10	0.10	6.00	0.10
Grand Total	1560.23	274.72	290.59	290.59	34.60	34.60	341.40	69.32
HEAD : GENERAL EDUCATION								
Middle School Education (Classes VI—VIII)								
BD 2.2 Non-Formal Education in the age-group 11—14	21.45	5.35	3.00	3.00	0.75	0.75	3.00	0.75
Total	21.45	5.35	3.00	3.00	0.75	0.75	3.00	0.75
Adult Education								
BD 5.1 Non Formal Education in the age group 15—35	57.61	19.75	19.97	19.97	4.99	4.99	19.10	4.78
Total	57.61	19.75	19.97	19.97	4.99	4.99	19.10	4.78
Grand Total	79.06	25.10	22.97	22.97	5.74	5.74	22.10	5.53

ANNUAL PLAN 1978-81

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

(Rs. in lakhs)

Scheme	Outlay 1979-83		1979-80		1980-81		Outlay proposed for Scheduled Castes	Outlay proposed for Scheduled Castes		
	Plan provision	Outlay earmarked for Scheduled Castes	Approved Plan Provision	Anticipated Expenditure	Outlay earmarked for Scheduled Castes	Anticipated expenditure for Scheduled Castes			Outlay Proposed	
1	2	3	4	5	6	7	8	9		
HEAD ; TECHNICAL EDUCATION										
Other Programme										
TE 8.3	Book Bank for poor students	3.25	0.82	0.70	0.70	0.18	0.18	1.00	0.25	
Total		..	3.25	0.82	0.70	0.70	0.18	0.10	1.00	0.25
HEAD ; PUBLIC HEALTH AND SANITATION										
Medical Education and Research										
MD 3.5	Extra Coaching to Scheduled Castes M.B.B.S. students studying in medical colleges	1.40	1.40	0.35	0.35	0.35	0.35	0.35	0.35	
Total		..	1.40	1.40	0.35	0.35	0.35	0.35	0.35	
I.S.M. and Homoeopathy										
AY 1.2	Opening of I.S.M. and Homoeopathic dispensaries	..	77.97	3.12	..	..	..	13.83	0.55
Total		..	77.97	3.12	..	..	..	13.83	0.55
Grand Total		..	79.37	4.52	0.35	0.35	0.35	14.18	0.90	
HEAD ; URBAN DEVELOPMENT										
UD-3	Assistance to Improvement Trusts (b) Allotment of plots to urban Harijans	..	135.00	135.00	15.00	15.00	15.00	15.00	15.00	
Total		..	135.00	135.00	15.00	15.00	15.00	15.00	15.00	
HEAD ; HOUSING										
Other Housing Schemes										
HG 2.2	Harijan houses	..	340.00	340.00	70.00	70.00	65.00	65.00	70.00	
HG 2.3	Loans for Low Income Groups houses	..	240.00	80.00	60.00	60.00	21.00	21.00	60.00	
HG 2.4	Loans for Government Servants	..	717.00	179.25	160.00	160.00	40.00	40.00	200.00	
HG 2.5	Loans for building houses in urban estates	..	210.00	52.50	60.00	60.00	15.00	15.00	60.00	
HG 2.6	Village housing Project scheme	..	..	..	..	..	..	50.00	12.50
Total		..	1507.00	651.75	350.00	350.00	141.00	141.00	440.00	
HEAD ; INFORMATION AND PUBLICITY										
Field Publicity										
IP 3.3	Television Scheme	..	4.36	1.10	..	..	..	2.00	0.50
Total		..	4.36	1.10	..	..	..	2.00	0.50

ANNUAL PLAN 1980-81

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

(Rs. in lakhs)

Schemes	Outlay 1979-83		1979-80			1980-81					
	Plan Provision	Outlay earmarked for Scheduled Castes	Approved Plan Provision	Anticipated expenditure	Outlay Earmarked for Scheduled Castes	Anticipated expenditure for Scheduled Castes	Outlay proposed	Outlay Proposed for Scheduled Castes			
1	2	3	4	5	6	7	8	9			
HEAD : LABOUR AND WELFARE											
Employment Services											
EE 1.4	Unemployment allowance to educated unemployed		..	87.00	21.75	20.00	20.00	5.00	5.00	20.00	5.00
Total		..	87.00	21.75	20.00	20.00	5.00	5.00	20.00	5.00	
Industrial Training											
IT(c) 1.3	Training, seminars, study tours of staff		..	4.00	1.00	2.00	0.50
IT (c) 1.6	Apprenticeship Training Wing		..	2.00	0.50	0.50	0.50	0.13	0.13	0.50	0.13
IT(c)1.7	Mobile Training Centres in rural areas		..	5.75	1.45	0.50	0.13
Total		..	11.75	2.95	0.50	0.50	0.13	0.13	3.00	0.76	
Grand Total		..	98.75	24.70	20.50	20.50	5.13	5.13	23.00	5.76	
HEAD ; SOCIAL WELFARE											
Family and Child Welfare											
SW 2.1	Assistance to dependent children		..	89.20	22.30	10.00	10.00	2.50	2.50	17.00	4.25
SW 2.4	L.Y.C.		..	100.00	25.00	16.90	16.90	4.25	4.25	13.00	3.25
Total		..	189.20	47.30	26.90	26.90	6.75	6.75	30.00	7.50	
Women Welfare											
SW 3.1	Assistance to Widows and destitute women		..	133.10	33.28	12.66	12.66	3.25	3.25	23.00	5.75
Total		..	133.10	33.28	12.66	12.66	3.25	3.25	23.00	5.75	
Welfare of the Handicapped											
S.W. 4.1	Scholarships to the handicapped		..	2.55	0.63	1.00	1.00	0.25	0.25	0.45	0.11
SW 4.2	Supply of prosthetic aid to the handicapped		..	1.80	0.45	0.44	0.44	0.12	0.12	0.50	0.12
Total		..	4.35	1.08	1.44	1.44	0.37	0.37	0.95	0.23	
Other Programmes											
SW 6.1	Grant-in-aid to voluntary organisations		..	6.16	1.54	1.50	1.50	0.40	0.40	1.00	0.25
Total		..	6.16	1.54	1.50	1.50	0.40	0.40	1.00	0.25	

ANNUAL PLAN 1980-81

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

(Rs. in lakhs)

Scheme	Outlay 1979-83			1979-80			(1980-81)			
	Plan provision	Outlay earmarked for Scheduled Castes	Approved Plan Provision	Anticipated Expenditure	Outlay earmarked for Scheduled Castes	Anticipated Expenditure for Scheduled Castes	Outlay Proposed	Outlay proposed for Scheduled Castes		
1	2	3	4	5	6	7	8	9		
2. Economic Uplift										
SC 2.1	Subsidy for the purchase of									
	(a)	Agricultural land	..	95.00	95.00	15.00	15.00	15.00	15.00	15.00
	(b)	Houses/walls on land	..	19.06	19.06	3.00	3.00	3.00	3.00	3.00
	(c)	Stamp duty	..	3.84	3.84	0.60	0.60	0.60	0.60	0.60
SC 2.2	Technical Training in Industrial Trades									
SC 2.4	Punjab Scheduled Castes Land Development and Finance Corporation									
	..	200.00	200.00	..	..	..	..	50.00	50.00
SC 2.6	Subsidy on interest rates for									
	(a)	Scheduled Castes	..	200.00	200.00	60.00	60.00
	Total	..	556.95	556.95	26.60	26.60	26.60	26.60	136.60	136.60
3. Health, Housing and Other Programmes										
SC 3.1	Legal Aid									
	..	4.71	4.71	0.50	0.50	0.50	0.50	0.30	0.30	
SC 3.2	Construction of dharamshalas/chupals									
	..	243.00	243.00	40.00	40.00	40.00	40.00	40.00	40.00	
SC 3.3	Environmental improvement of Harijans Basties including drinking water wells									
	..	337.00	337.00	74.00	74.00	74.00	74.00	74.00	74.00	
SC 3.4	Construction of houses for sweepers/scavengers, flayers and tanners									
	..	174.10	174.10	28.00	28.00	28.00	28.00	27.00	27.00	
	Total	..	758.81	758.81	142.50	142.50	142.50	142.50	141.30	141.30
4. Welfare of Vimukat Jaties										
SC 4.1	Construction of Houses for Vimukat Jaties									
	..	86.25	86.25	14.00	14.00	14.00	14.00	13.00	13.00	
	Total	..	86.25	86.25	14.00	14.00	14.00	14.00	13.00	13.00
5. Centrally Sponsored Schemes (State Share)										
SC 5.1	I.A.S. Coaching Centre, Patiala									
	..	..	..	..	..	..	..	1.50	1.50
SC 5.2	Girls Hostels									
	..	..	..	..	..	..	..	0.75	0.75
	Total	..	..	..	..	..	..	0.75	0.75
	Grand Total	..	1619.65	1619.65	233.75	233.75	233.75	233.75	343.80	343.80

Development of Backward Areas-Sub-Plan

Realising that some parts of Punjab State had lagged behind in the matter of development the Punjab Government for the first time in 1956 declared some areas as backward. More areas were added to the list of backward areas in subsequent years. A few years back it was felt that unless some measures for integrated development were undertaken the efforts of the Punjab Government towards bringing these areas at par with the rest of the State may not prove useful. With that end in view some of the backward areas were demarcated into three different regions, namely, border, sub-montane and bet areas. The remaining backward areas not covered by these three categories have been termed as other backward areas. Their districtwise/blockwise location is given in Annexure I.

I Sub-montane Areas

20.2 The sub-montane region comprises of Dera Bassi block of Patiala and all areas lying to the right side of the road from Chandigarh to Pathankot via, Ropar, Hoshiarpur, Dasuya. The sub-montane region consists of 1,582 villages having an area of 4,55,691 hectares populated by 10,09,527 persons according to 1971 census. The economic condition of the people living in sub-montane region is very poor on account of many factors and on account of various agro-climatic conditions economic activity in these areas is almost lacking. It has been decided that as against 8% population living in these areas funds amounting to 9% under divisible plan schemes should be earmarked for the development of this region.

20.3 The main problems of these areas are the lack of choe canalisation, irrigation facilities, scarcity of drinking water and unsatisfactory means of communication due to difficult terrain. Priority has always been given to schemes relating to choe canalisation, afforestation, soil conservation, deep tubewell, irrigation, horticulture, Roads and Drinking water supply. There were 1073 villages experiencing drinking water difficulty. 1066 villages have already been covered so far by water

supply schemes. During 1980-81 an allocation of Rs. 876.44 lacs is proposed to be spent in this region.

II Border Areas

20.4 The Border belt which is 16 Kms. deep alongwith the international border has 1746 villages spread over an area of 677057 hectares. Its population in 1971 was 12,72,612. It runs through Gurdaspur, Amritsar and Ferozepur districts.

20.5 Although agro-climatically and ethnically this area is not different from the rest of the State still in view of its proximity to international border with Pakistan it lagged behind in the matter of development for obvious reasons. This region requires special attention in so far as agriculture, electrification, soil conservation, dairy and medical facilities, etc. are concerned. The Government decided to allocate 15% funds under divisible plan schemes as against 14% population of this areas. A sum of Rs. 1109.10 lacs is proposed to be spent during 1980-81.

III Bet Areas

20.6 The area falling within 5 Kms. from the centre of the bed of each river on either side has been declared as Bet area. It consists of 1213 villages with an area of 3,73,889 hectares. 6,43,248 persons live in this region according to 1971 census. The main causes for these areas to have lagged behind in the matter of development are frequent floods and lack of communications. The Government have decided to allocate 4% funds under divisible plan schemes for these areas. The annual plan of 1980-81 envisages an expenditure of Rs. 414.06 lacs in this region.

IV Other Backward Areas

20.7 Areas declared backward by the Punjab Government from time to time and not covered in sub-montane, border and bet areas are known as other backward areas bulk of which lie in Hoshiarpur and Kapurthala districts, Nathana

sub-tehsil and Mansa tehsil of Bhatinda district, Sunam tehsil of Sangrur district and Samana tehsil of Patiala district. In all there are 1938 villages having an area of 7,74,880 hectares. Its population in 1971 was 16,64,277. The development needs of these areas differ from block to block and even from village to village. The Government have decided to earmark 12% of the funds under divisible plan schemes for these areas. A sum of Rs. 952.33 lacs is proposed to be spent during 1980-81 which is 11.34%.

20·8 Given below is a description of the main programmes of development in these areas :—

1 Agriculture and Allied Sectors

20·9, The Department of Agriculture proposes to reclaim alkali soil by distributing 10,208 tonnes of gypsum in sub-montane areas, 17,031 tonnes in border areas, 4,531 tonnes in Bet area and 13,646 tonnes in other backward areas. The other major programme is ground spraying of crops under which spraying will be done in 7,000 hectares in sub-montane, 12,500 hectares in border, 3,400 hectares in bet and 10,400 hectares in other backward areas.

20·10 Out of Divisible Plan outlay of Rs. 86.00 lacs, Rs. 34.50 lacs have been earmarked under the scheme Small Farmers Development Agencies in different backward areas of the State.

20·11 The Department of Irrigation has earmarked two schemes, namely Sinking of T/wells (Rs. 6.00 lacs) and sprinkler irrigation (Rs. 6.00 lacs) for sub-montane areas of Hoshiarpur District whereas in respect of scheme Lift and Flow Irrigation funds to the tune of Rs. 5.00 lacs and Rs. 1.00 lac have been earmarked for border and other backward areas respectively.

20·12 Colonisation Department proposes to develop mandis in different backward areas at a cost of Rs. 20.00 lacs during 1980-81.

20·13 Horticulture occupies a prime position in the sub-montane areas. Out of total allocation of Rs. 79.82 lacs under divisible plan schemes Rs. 56.97 lacs have been earmarked for sub-montane areas. It is proposed to bring 980 hectares of land under fruit plantation under different schemes of development in this area. New schemes like popu-

larisation of mushroom cultivation, beautification of public places, establishment of community canning centre, cultivation of aromatic and medicinal plants, cultivation of Pear in Jullundur district, development of Ber cultivation in Sangrur district are also proposed to be introduced in Border, Bet and other Backward areas of the State during the Annual Plan 1980-81.

20·14 The Soil Conservation Department has formulated exclusive schemes, viz. soil and water conservation on water shed basis and Pilot Project for soil conservation in Kandi areas with World Bank Assistance for sub-montane areas ; Soil Conservation work in Border areas ; Development of Bet areas and Revine Reclamation for Bet areas. 10400, 1,500 and 1,000 hectares of land is proposed to be covered under various soil conservation measures in sub-montane, border and bet areas respectively during 1980-81 Annual Plan.

20·15 The main emphasis of the Department of Animal Husbandry is on the improvement of breed of cows/buffaloes and development of Poultry in sub-montane areas where Rs. 5.00 lacs under the Kandi Watershed and Area Development Project Scheme are proposed to be earmarked. In bet areas there are also two exclusive schemes, namely Expansion of Government Holstein Friesian Cattle Breeding Farm, Mattewara (Rs. 2.35 lacs) and setting up of Bull stations-cum-semen Banks and L.N. Plants (Rs. 4.00 lacs).

20·16 Out of divisible plan allocation of Rs. 44·00 lacs under Dairying and Milk Supply Rs. 34.00 lacs forming 77.28 % of the divisible total allocation are proposed to be earmarked for different backward areas. Work on construction and installation of machinery in 3 Milk Chilling Centres in each of the four areas is proposed to be continued.

20·17 For augmenting fish production a sum of Rs. 4.35 lacs in sub-montane, Rs. 3.00 lacs in border, Rs. 0.60 lacs in Bet and Rs. 1.00 lacs in other Backward area is proposed to be earmarked under different schemes during the Annual Plan 1980-80.

20·18 The Forest Department proposes to develop forests in 2000, 290, 380 and 355

hectares of land in sub-montane, border, bet and other backward areas respectively. Under the scheme Farm Forestry 3.70, 5.25, 2.60 and 7.00 lac plants are proposed to be planted in sub-montane, border, bet and other backward areas respectively.

20.19. Under the schemes Financial Assistance to Panchayati Raj Institutions for Revenue Earning Scheme, Pavement of streets and construction of drains and Assistance to Panchayats for expenditure on Panchayat Works (Panchayat Ghars) 29 villages in sub-montane, 51 in border, 14 in bet and 40 in other backward are proposed to be covered during 1980-81.

II. Co-operation

20.20. The Co-operation Department proposes to assist Cooperative Societies/Banks and construct godowns during the Annual Plan 1980-81 for which a provision of Rs 27.55, 32.75, 54.90 and 135.00 lacs under various schemes is proposed to be made in sub- montane, border, bet and other backward areas respectively.

III. Irrigation and Power

20.21. For construction of check Dams on choes a sum of Rs. 170.00 lacs is proposed to be spent in sub-montane areas. Similarly Rs 250.00 lacs are proposed to be spent for Expansion and Improvement of Shah Nahar Canal System in other backward areas during the Annual Plan 1980-81. In addition to this some projects like Thein Dam are also coming up in sub-montane areas and they will also play their own role in creating some economic activity in that area.

20.22. Under various flood control, Drainage and Anti Water logging schemes, it is proposed to save an area of 4000, 5000, 7000 and 2000 hectares in sub-montane, border, bet and other backward areas respectively.

20.23. The Punjab State Electricity Board (PSEB) proposes to give connections to 5600, 2240 and 3350 tubewells in border, bet and other backward areas respectively. General connections and small Industrial connections are also proposed to be given in all the backward areas of the State.

IV. Industries

20.24. For promoting small industries and handicrafts the Department of Industries proposes to allocate Rs. 62.15 lacs to different backward areas out of the total divisible plan outlay of Rs. 98.30 lacs. The industries most likely to be benefited by the various incentives proposed to be provided by the department are leather, handicrafts and weaving which are the main stay of the poor artisans living in the rural areas.

V. Transport and Communications

20.25. For providing link roads in backward areas the B&R Department proposes to allocate the entire divisible plan outlay of Rs. 445.00 lacs under link roads to sub-montane areas (Rs. 125.00 lacs), border areas (Rs. 220.00 lacs) and bet areas (Rs. 100.00 lacs)

20.26. The Pepsu Road Transport Corporation (PRTC) and Punjab Roadways are expected to provide additional kilometrage of 69.67 lacs and 14.11. lacs respectively to different backward areas in the State during 1980-81 on new route permits and extension of existing route permits.

VI. Social and Community Services

20.27. For expanding educational facilities in the backward areas the department of Education proposes to allocate Rs 21.23 lacs in sub-montane, Rs. 34.17 lacs in border. Rs. 9.30 lacs in bet and Rs 28.21 lacs in other backward areas during 1980-81. The main programmes included in the sub-plan are improvement of primary education, upgrading of government primary schools to middle standard. work experience-vocationalisation of education at elementary stage and upgrading of government middle schools to high schools.

20.28. For providing better health facilities in the backward areas the department proposes to earmark Rs. 32.86 lacs in sub-montane areas, Rs 58.36 lacs in border areas, Rs 16.48 lacs in bet areas and Rs 45.13 lacs in other backward areas. The amount is proposed to be expended on schemes like Estt. of 25 bedded Block Rural Hospitals, opening of subsidiary Health Centres in Rural areas, National Malaria Eradication Programme (Rural) , Multi

purpose Workers scheme and opening of I.S.M. and Homeopathic Dispensaries.

20.29. Out of Divisible Plan Outlay of Rs. 500.00 lacs, Rs. 47.58 lacs have been earmarked for providing drinking water facilities to 29 scarcity villages in different backward areas of the State.

20.30. The Housing department proposes to construct 198 houses in sub-montane areas, 330 in border areas, 88 in bet areas and 264 in other backward areas during 1980-81 under Low Income Group Housing Scheme and village Housing Project Scheme.

20.31. The Welfare of Scheduled Castes and Backward Classes Department has proposed an

outlay of Rs 15.58 lacs in sub-montane areas, Rs. 25.80 lacs in border areas, Rs 6.88 lacs in bet areas and Rs 20.64 lacs in other backward areas during 1980-81. The main schemes proposed to be implemented are land purchase scheme, Dharmashala scheme, Environmental improvement of Harijan Bastis and Construction of houses for sweepers and vimukat Jatis.

20.32. Summary of Headwise allotment is given in Annexure II. Schemewise allocation, both financial and physical, under divisible plan schemes for different backward areas during Annual Plan 1980-81 is given in Annexure III.

ANNEXURE I

Number of villages, area and population falling in Sub-Montane Areas of Punjab

Name of the District	Name of the Block	No. of inhabited villages	Area (Hectares)	Population (1971)
1	2	3	4	5
Hoshiarpur	(1) Hoshiarpur I	31	6948	14673
	(2) Hoshiarpur II	57	22495	34832
	(3) Bhunga	122	43247	49376
	(4) Dasuya	101	21539	40366
	(5) Mukerian	123	20575	53529
	(6) Talwara	97	28772	64062
	(7) Mahilpur	66	29257	40535
	(8) Garhshankar	68	19722	51635
	(9) Balachaur	63	21776	40248
	(10) Saroya	61	17169	41737
	Total	789	231500	430995
Ropar	(1) Ropar	145	35987	51109
	(2) Majri	119	28997	53940
	(3) Kharar	39	13446	46059
	(4) Anandpur Sahib	128	30920	115352
	(5) Nurpur Bedi	106	33708	55493
	Total	537	143058	321953
Gurdaspur	(1) Pathankot	66	13785	132114
	(2) Dhar Kalan	72	34733	54589
	Total	138	48518	186703
Patiala	(1) Dera Bassi	121	32615	69876
	Grand Total	1585	455691	1009527

ANNEXURE I-B

Number of villages, area and population falling in Border Areas of Punjab

Name of the District	Name of the Block	No. of inhabit- ed villages in border areas	Area (Hectares)	Population (1971)
1	2	3	4	5
Amritsar	(1) Valtoha	52	38404	64229
	(2) Bhikhiwind	56	32688	77212
	(3) Patti	41	24835	50778
	(4) Chogawan	124	47341	90973
	(5) Ajnala	158	50463	95066
	(6) Gandiwind	74	37609	80746
	(7) Tarn Taran	31	13356	34445
	(8) Verka	9	3790	12275
	(9) Jandiala	4	1174	3393
	Total	549	249660	509117
Ferozepur	(1) Ferozepur	206	69165	95353
	(2) Guru Har Sahai	107	43804	68695
	(3) Jallabad	41	17568	30619
	(4) Fazilka	92	66323	84295
	(5) Zira	41	19827	28203
	(6) Ghall Khurd	41	15290	28919
	(7) Khuian Sarwar	49	69994	84498
	Total	577	301971	420582
Gurdaspur	(1) Kalanaur	106	24124	65966
	(2) Dera Baba Nanak	120	27689	69942
	(3) Fatehgarh Churian	47	13357	39956
	(4) Narot Jaimal Singh	121	23100	50586
	(5) Dina Nagar	100	15414	49355
	(6) Gurdaspur	126	21742	67108
	Total	620	125426	342913
	Grand Total	1746	677057	1272612

ANNEXURE I-C

Number of villages, area and population falling in Bet Areas of Punjab

Name of the District	Name of the Block	Number of inhabited villages in Bet Areas	Area (Hectares)	Population (1971)
1	2	3	4	5
Amritsar	(1) Patti	3	2460	4507
	(2) Rayya	10	5678	14315
	(3) Khadoor Sahib	13	8275	12693
	(4) Chohla Sahib	15	11604	17642
	Total	41	28017	49157
Ferozepur	(1) Dharam Kot	142	32525	48688
	(2) Zira	55	23191	40744
	Total	197	55716	89432
Gurdaspur	(1) Dina Nagar	42	6807	20583
	(2) Sri Hargobindpur	31	13912	25676
	(3) Kahnuwan	46	10070	18334
	Total	119	30789	64593
Hoshiarpur	(1) Tanda-Urmar	10	5752	10639
	(2) Dasuya	17	4601	4805
	(3) Mukerian	26	5932	14116
	(4) Balachaur	51	9000	11145
	Total	104	25285	40705
Ropar	(1) Ropar	18	3367	6262
	(2) Chamkaur Sahib	54	9470	18379
	Total	72	12837	24641
Kapurthala	(1) Nadala	42	17128	44069
	(2) Kapurthala	26	9250	11770
	(3) Sultanpur	57	20744	16 478
	Total	125	47122	72317
Patiala	(1) Samana	15	11858	19463
	(2) Bhunarhari	97	27162	44469
	(3) Ghanaur	59	16095	34750
	(4) Rajpura	25	7113	20827
	Total	196	62228	1195 09

ANNEXURE I—C *contd.*

Number of villages, area and population falling in Bet Areas of Punjab

Name of the District	Name of the Block	Number of inhabited villages in Bet Areas	Area (Hectares)	Population (1971)
1	2	3	4	5
Ludhiana	(1) Sidhwan Bet	40	15286	18002
	(2) Machhiwara	59	9907	19964
	(3) Mangat	67	22047	26786
	Total	166	47240	64752
Jullundur	(1) Aur	23	7917	16289
	(2) Nawanshabar	52	14842	23890
	(3) Nakodar	24	7242	10062
	(4) Phillaur	21	7987	24827
	(5) Nurmahal	18	9209	13673
	(6) Shahkot	61	17458	29401
	Total	199	64655	118142
	Grand Total	1219	373889	643248

ANNEXURE I—D

Number of villages, area and population falling in other Backward Areas of Punjab

Name of the District	Name of the Block	Number of inhabited villages	Area (Hectares)	Population (1971)
1	2	3	4	5
Bhatinda	(1) Nathana	31	46800	77999
	(2) Mansa	65	67924	145629
	(3) Talwandi Sabo	11	8487	10273
	(4) Budhlada	82	67075	135067
	() Jhunir	87	74441	110968
	(6) Phul	4	..	..
	Total	280	264727	479936
Sangrur	(1) Sunam	76	64606	121502
	(2) Lehragaga	84	73523	120816
	Total	160	138129	242318
Patiala	(1) Bhunerheri	57	14847	26412
	(2) Samana	123	70142	113307
	Total	180	84989	139719
Gurdaspur	(1) Kahnuwan	73	17765	41052
	(2) Pathankot	125	21399	67426
	Total	197	39164	108478
Kapurthala	(1) Sultanpur	72	18689	38609
	(2) Kapurthala	160	44370	91021
	Total	232	63059	129630
Ropar	(1) Chamkaur Sahib	7	1865	2513
	(2) Ropar	4	580	1516
	Total	11	2445	4029
Ludhiana	(1) Machhiwara	20	3530	5385
	(2) Sidhwan Bet	13	5743	6825
	(3) Mangat	57	11353	20776
	Total	90	20626	32986
Jullundur	(1) Shahkot	44	9058	22315
	(2) Nakodar	7	2431	4723
	Total	51	11489	27038

ANNEXURE I—D—Contd.

Number of villages, area and population falling in the other Backward Areas of Punjab

Name of the District	Name of the Block	Number. of inhabited villages	Area (Hectarcs)	Population (1971)
1	2	3	4	5
Amritsar	(1) Tarn Taran	20	6922	26628
	(2) Naushera Panuan	9	3323	11319
	(3) Khadur Sahib	13	4089	11952
	Total	42	14334	49899
Feroze pur	(1) Jalalabad	5	2222	2065
	(2) Ferozepur	5	1140	1628
	Total	10	3362	3693
Hoshiarpur	(1) Hoshiarpur I	158	28352	90760
	(2) Hoshiarpur II	64	21005	4775
	(3) Bhunga	79	11153	41926
	(4) Tanda-Urmar	106	20348	70767
	(5) Dasuya	70	10360	36987
	(6) Mukerian	41	5993	22739
	(7) Mahilpur	88	14143	58503
	(8) Garhshankar	72	17878	62347
	(9) Balachaur	7	3324	7747
	Total	685	132556	446551
Grand Total		1938	774880	1664277

ANNEXURE II

Allocation for Backward Areas of Punjab during Annual Plan 1980-81 under Divisible Plan Schemes

(Rs in lacs)

Sr. No.	Sector of Development	Divisible Plan outlay	Sub-montane	Border	Bet	Other Backward	Total	Remarks
1	2	3	4	5	6	7	8	9
I. Agriculture and Allied Sectors								
1	(i) Agriculture	..	505.30	22.85 (4.52)	37.35 (7.39)	9.95 (1.97)	30.00 (5.94)	100.15 (19.82)
	(ii) S.F.D.A.	..	86.00	7.76 (9.02)	12.94 (15.05)	3.45 (4.01)	10.35 (12.03)	34.50 (40.11)
	(iii) Minor Irrigation	..	18.00	12.00 (66.67)	5.00 (27.78)	..	1.00 (5.55)	18.00 (100.00)
	(iv) Colonisation	..	50.00	1.40 (2.80)	10.50 (21.00)	4.00 (8.00)	4.10 (8.20)	20.00 (40.00)
	(v) Horticulture	..	79.82	56.97 (71.37)	3.10 (3.88)	2.70 (3.38)	4.90 (6.14)	67.67 (84.77)
	Sub-Total	..	739.12	100.98 (13.66)	68.89 (9.32)	20.10 (2.72)	50.35 (6.81)	240.32 (32.51)
2	Soil Conservation	..	170.00	141.00 (82.94)	20.00 (11.76)	9.00 (5.30)	..	170.00 (100.00)
3	Animal Husbandry	..	22.10	5.98 (27.06)	2.44 (11.04)	9.22 (41.72)	0.15 (0.68)	17.79 (80.50)
4	Dairying & Milk Supply	..	44.00	8.50 (19.32)	8.50 (19.32)	8.50 (19.32)	8.50 (19.32)	34.00 (77.28)
5	Fisheries	..	19.00	4.35 (22.89)	3.00 (15.79)	0.60 (3.16)	1.00 (5.26)	8.95 (47.10)
7	Forests	..	112.00	31.30 (27.94)	7.70 (6.88)	7.50 (6.70)	9.60 (8.57)	56.10 (50.09)
7	Community Development	..	124.00	11.25 (9.07)	18.75 (15.12)	5.00 (4.03)	15.00 (12.10)	50.00 (40.32)
Total		..	1230.22	303.36 (24.66)	129.28 (10.51)	59.92 (4.87)	84.60 (6.87)	577.10 (46.91)
II Cooperation		..	412.65	27.55 (6.68)	32.75 (7.93)	54.90 (13.31)	135.00 (32.71)	250.25 (60.63)
III Irrigation and Power								
1.	Irrigation	..	1700.00	170.00 (10.00)	8.00 (0.47)	..	250.00 (14.70)	428.00 (25.17)
2.	Food Control	..	500.00	50.00 (10.00)	75.00 (15.00)	100.00 (20.00)	25.00 (5.00)	250.00 (50.00)
3.	Power (R.E.C.)	..	1708.00	35.00 (2.05)	322.00 (18.85)	26.00 (1.52)	205.00 (12.00)	588.00 (34.42)
Total		..	3908.00	255.00 (6.53)	405.00 (10.36)	126.00 (3.22)	480.00 (12.28)	1266.00 (30.39)
IV. Industries								
	Industries	..	98.30	8.21 (8.35)	39.83 (40.52)	1.09 (1.11)	13.02 (13.24)	62.15 (63.22)

ANNEXTURE II—contd.

Allocation for Backward Areas of Punjab during Annual Plan 1980-81 under Divisible Plan Schemes

(Rs in lacs)

Serial No.	Sector of Development	Divisible Plan Outlay	Sub-montane	Border	Bet	Other Backward	Total	Remarks
1	2	3	4	5	6	7	8	9
V. Transport and Communication								
1	Roads & Bridges ..	495.00	125.00 (25.27)	220.00 (44.44)	100.00 (20.20)	..	445.10 (89.91)	
2.	Road Transport							
	(i) P.R.T.C. ..	730.75	65.77 (9.00)	109.61 (15.00)	29.23 (4.00)	87.69 (12.00)	292.30 (40.00)	
	(ii) Punjab Roadways ..	132.00	11.88 (9.00)	19.80 (15.00)	5.28 (4.00)	15.84 (12.00)	52.80 (40.00)	
	Total ..	1357.75	202.75 (14.93)	349.41 (25.74)	134.51 (9.90)	103.53 (7.63)	790.20 (58.20)	
VI Social and Community Services								
1.	General Education							
	(i) Primary ..	26.30	2.37 (9.01)	3.94 (14.98)	1.05 (4.00)	3.16 (12.01)	10.52 (40.00)	
	(ii) Schools ..	208.90	18.86 (9.03)	30.23 (14.47)	8.25 (3.95)	25.05 (11.99)	82.39 (39.44)	
	Sub Total ..	235.20	21.23 (9.03)	34.17 (14.53)	9.30 (3.95)	28.21 (11.99)	92.91 (39.50)	
2	Health ..	374.28	32.86 (8.78)	58.36 (15.59)	16.48 (4.40)	45.13 (12.06)	152.83 (40.83)	
3	Rural Water Supply ..	500.00	..	18.00 (3.60)	0.58 (0.12)	29.00 (5.80)	47.58 (9.52)	
4	Housing ..	110.00	9.90 (9.00)	16.50 (15.00)	4.40 (4.00)	13.20 (12.00)	44.00 (40.00)	

ANNEXTURE II *concl.*

Allocation for Backward Areas of Punjab during Annual Plan 1980-81 under Divisible Plan Schemes

(Rs in lacs)

Serial No.	Sector of Development	Divisible Plan Outlay	Sub-montane	Border	Bet	Other Backward	Total	Remarks
1	2	3	4	5	6	7	8	9
5	Welfare of Scheduled Castes and Backward Classes	172.00	15.58 (9.06)	25.80 (15.00)	6.88 (4.00)	20.64 (12.00)	68.90 (40.06)	
	Total	1391.48	79.57 (5.72)	152.83 (10.98)	37.64 (2.70)	136.18 (9.79)	406.22 (29.19)	
	Grand Total	8398.40	876.44 (10.44)	1109.10 (13.21)	414.06 (4.93)	952.33 (11.34)	3351.93 (39.92)	

Note.—Figures within brackets are percentages to Divisible Plan Outlay (Col. 3).

Sr. No.	Name of the Scheme	State Plan Divisible Outlay	Flow Sub-montane
1	2	3	4
I—Agriculture & Allied Sectors			
1. (i) Agriculture			
(a) A(P)3·5	Training of farmers	.. 1·80	0·10
(b) A(P)5·2	Amendment of Alkali soil	.. 427·00	19·60
(c) A(P)6·2	Seed production & distribution	.. 5·00	0·20
(d) A(P)7·2	Fertilizer demonstration & training on cultivator's field	.. 1·50	0·05
(e) A(P)9·1	Ground spraying of crops	.. 60·00	2·00
(f) A(P)9·3	Intensification of Plant protection work	.. 10·00	0·90
	Sub-total	.. 505·30	22·85
(ii) SPDA			
	Small Farmers Development Agencies Programme	.. 86·00	7·76
(iii) Minor Irrigation			
(a) MI(1)2·2	Sinking of T/Wells in different Blocks	.. 6·00	6·00
(b) MI(1)2·4	Lift & Flow Irr. Scheme	.. 6·00	..
(c) MI(1)2·6	Sprinkler Irr. Scheme	.. 6·00	6·00
	Sub-total	.. 18·00	12·00
(iv) Colonisation			
(v) Horticulture	Development of Mandis	.. 50·00	1·40
A(P)16·3	Development of Horticulture in the Pb. State	.. 15·00	15·00
A(P)16·4	Dev. of Hort. in Shivalik hills	.. 6·40	6·40
A(P)16·5	Scheme for the package programme on Citrus	.. 1·25	—
A(P)16·6	Scheme for demonstration & Fruit Preservation Unit at Hoshiarpur & Strengthening of Patiala Unit	.. 4·00	3·00
A(P)16·7	Dev. of Horti. around Pathankot areas of Gurdaspur distt.	.. 5·30	5·30
A(P)16·8	Scheme for Dev. of Horticulture in Kandi area Water Shed	.. 22·07	22·07
A(P)16·12	Scheme for popularisation of Mushroom cultivation	.. 1·45	—
A(P)16·11	Subsidizing the differential rate of interest on loan from Commercial Banks	.. 6·00	1·00
A(P)16·13	Scheme for cultivation of Aromatic & Medicinal Plants	.. 3·84	2·00
A(P)16·14	Beautification of public places	.. 3·51	0·70
A(P)16·16	Establishment of Community Canning Centres	.. 5·00	1·50
A(P)16·18	Cultivation of Pear in Jullundur District	.. 3·00	—
A(P)16·19	Dev. of Ber cultivation in Sangrur District	.. 3·00	—
	Sub-Total	.. 79·82	56·97
	Total	.. 739·12	100·98

III

Plan Schemes

(Rs in lacs)

To			Physical targets				
Border	Bet	Other backward	Unit	Sub-montane	Border	Bet	Other backward
5	6	7	8	9	10	11	12
0.10	0.04	0.10	Seminar	2	2	2	2
32.70	8.70	26.20	tonnes gypsum	10208	17031	4531	13646
0.30	0.08	0.25	qtl. seed	1050	4000	840	3000
0.05	0.02	0.05	Dem. Plots	25	40	16	40
3.60	0.96	2.90	000' Hect.	7.0	12.5	3.4	10.4
0.60	0.15	0.50	000' Hect.	425	270	68	228
37.35	9.95	30.00					
12.94	3.45	10.35		..	..	..	..
..	..	..	T/Wells	200	..	..	..
5.00	..	1.00		..	..	..	..
..
5.00	..	1.00		..	..	..	..
10.50	4.00	4.10	Projects	1	3	1	2
—	—	—	Hectares	500	—	—	—
—	—	—	..	200	—	—	—
0.40	0.10	0.40	..	—	40	10	40
—	—	—	..	—	—	—	—
—	—	—	..	80	—	—	—
—	—	—	..	200	—	—	—
0.10	0.15	0.10	Nos.	—	—	—	—
1.20	1.00	1.20		800	—	—	—
..	0.45	0.40	Kgs.	12000	—	—	—
0.40	0.50	0.30	No.	450	—	—	—
1.00	—	1.00		—	—	—	—
—	0.50	—		—	—	—	—
—	—	1.50		—	—	—	—
3.10	2.70	4.90		—	—	—	—
68.89	20.10	50.35		—	—	—	—

Serial No.	Name of the Scheme	State Plan Divisible Outlay	Flow
			Sub-montane
1	2	3	4
2. Soil Conservation			
(i) SC(A) 4·1	Soil & Water Conservation on Watershed basis	110·00	110·00
(ii) SC (A)4·2	Pilot Project for Soil Conservation in Kandi Area with World Bank Assistance	31·00	31·00
(iii) SC(A)4·3	Soil Conservation Works in Border Areas	20·00	—
(iv) SC(A) 4·6	Development of Bet Areas	4·00	—
(v) SC(A) 4·7	Revine Reclamation	5·00	—
	Sub-Total	170·00	141·00
3. Animal Husbandry			
(i) 5·8	Training of farmers in the technique of rearing, feeding, breeding and management of exotic/cross-bred cattle	1·25	0·11
(ii) 5·13	Expansion of Government Holstein Friesian Cattle Breeding Farm, Mattewara	2·35	—
(iii) 5·15	Setting up of Bull Station-cum-Semen Banks & L.N. Plants	4·00	—
(iv) 8·1	Expansion of Pig Breeding Farms	2·00	0·87
(v) 8·2	Establishment of new Pig Breeding Farms	3·75	—
(vi) 9·5	Kandi Watershed & Area Development Project	5·00	5·00
(vii) 10·2	Intensification of Forage Planting Material Production Farms	3·75	—
	Sub-Total	22·10	5·98
4. Dairying and Milk Supply			
(i)	Dairying and Milk Supply	44·00	8·50
5. Fisheries			
(i) FH 2·1	Completion of Fish Seed Nurseries/Farms and Establishment of Fish Seed Farms	12·00	3·00
(ii) FH 2·4	Fish Culture in Shah Nehar Reservoir	1·00	0·75
(iii) FH 3·2	Pilot Project for Bundh Breeding and Cage Fish Culture	2·00	0·60
(v) FH 4·9	Assistance to Fish Farmers Development Agency, Gurdaspur, Jullundur, Ludbiana and Amritsar	4·00	—
	Sub-Total	19·00	4·35

to			Unit	Physical targets			
Border	Bet	Other Backward		Sub-montane	Border	Bet	Other Backward
5	6	7	8	9	10	11	12
—	—	—	Hectares	9,000	—	—	—
—	—	—	Do	1,400	—	—	—
20.00	—	—	Do	—	1,500	—	—
—	4.00	—	Do	—	—	800	—
—	5.00	—	Do	—	—	200	—
20.00	9.00						
0.19	0.05	0.15	Trainees	2,200	3,800	1,000	3,000
—	2.35	—	Expansion of Farm (No.) Continuance	—	—	1	—
—	4.00	—	Bull Station (No.)	—	—	1	—
—	—	—	Expansion of Pig Breeding Farms	1	—	—	—
2.50	1.50	—	Pig Farms	—	1	1	—
—	—	—	(i) Cross-bred heifers/Cows/ Buffaloes	50	—	—	—
—	—	—	(ii) Exotic Cow Bulls	2	—	—	—
—	—	—	(iii) Poultry Units of 250 birds	15	—	—	—
—	—	—	(iv) Fodder Banks	2	—	—	—
—	—	—	(v) Residence for staff	4	—	—	—
—	1.32	—	Reclamation of Additional Area Fodder Seed (Qtls.)	—	—	10	—
—	—	—		—	—	50	—
2.44	9.22	0.15					
8.50	8.50	8.50	MCC .. (i) Estt. of .. Fish seed Farm	3 1	3 —	3 —	3 —
1.00	—	1.00	(ii) No. of Nurseries to be established	—	1	—	1
—	—	—	Estt. of Fish Seed Farms No.	1	—	—	—
—	0.60	—	No. of Bundhs to be set up	2	—	40	—
2.00	—	—	No. of FFDAS	—	2	—	—
3.00	0.60	1.00					

Serial No.	Name of the Scheme	State Plan Divisible Outlay	Flow Sub-montane
1	2	3	4
6. Forests			
(i) FT 3·2	Development of Forests on private land	18·00	6·00
(ii) FT 4·1	Plantation of Sissoo, Babul, Eucalyptus, Chil, Poplar, etc.	58·00	5·00
(iii) FT 5·1	Farm Forestry	16·00	1·50
(iv) SC(F) I	Soil and Water conservation on watershed basis	20·00	18·80
	Sub-Total	112·00	31·30
7. Community Development and Panchayats			
(i) CD 3·1	Financial Assistance to Panchayati Raj Institutions for Revenue Earning Schemes	39·00	3·60
(ii) CD3·5	Pavement of Streets and Construction of Drains	60·00	5·40
(iii) CD3·6	Assistance to Panchayats for expenditure on Panchayats Works (Panchayat Ghars)	25·00	2·25
	Sub-Total	124·00	11·25
	Total	1230·22	303·36
II. CO-OPERATION			
CN 1·1	Additional departmental staff	60·00	8·00
CN 2·1	Assistance to Central Co-operative Banks for opening new branches	16·66	1·55
CN 2·2	Assistance to co-operative primary agricultural service societies for construction of godowns	72·63	4·05
CN 2·3	Primary agricultural service societies (vi)	75·00	5·00
CN 2·5	Assistance to re-organise primary agricultural service societies as managerial subsidy	68·41	6·70
CN 2·6	Subsidy for building premises of new branches of Central Co-operative banks at focal points under IRDP	6·00	0·40
CN 2·8	Assistance to primary Agricultural Service societies as bad debt reserves (risk fund)	5·00	0·60
CN 6·1	Assistance to Agriculture processing units (other than sugar mills)	100·00	—
CN 7·4	Assistance to Milk Producers Societies	0·45	0·15
CN 9·1	Participation in the share capital of industrial co-operatives including federation/ unions and project in Co-operative Sector and ICB's	5·50	0·75
CN 9·2	Subsidy to CCB's/SBI for advancing loans to industrial cooperative at 2-1/2% rate of interest	0·50	0·05
CN 9·3	Assistance to handloom weavers co-operatives interest concession	1·00	0·10
CN 9·5	Development of Handloom Industry Supply of Improved appliances	1·00	0·10
CN 9·12	Subsidy to industrial co-operatives for employing craft teachers	0·50	0·10
	Total	412·65	27·55

to				Unit	Physical Targets			
	Border	Bet	Other Backward		Sub-Montane	Border	Bet	Other Backward
	5	6	7	8	9	10	11	12
	0.20	0.30	0.60	Hect.	1,100	20	60	60
	5.00	5.00	5.00	Hect	200	270	260	295
	2.50	1.00	4.00	No. of Plants in lacs	3.70	5.25	2.60	7.00
	—	1.20	—	Hect.	700	—	60	—
	7.70	7.50	9.60					
	6.00	1.60	4.80	Villages	10	18	5	14
	9.00	2.40	7.20	Do	10	18	5	14
	3.75	1.00	3.00	Do	9	15	4	12
	18.75	5.00	15.00					
	129.28	59.92	84.60					
	10.00	16.00	16.00	Inspector's	60	70	120	120
	1.95	3.10	3.10	Branches	35	45	70	70
	9.45	8.10	8.10	Godowns	10	35	20	20
	2.00	10.00	10.00	Societies	50	30	100	100
	7.50	13.40	13.40	Do	240	270	480	480
	—	0.80	0.80	Branches	2	—	2	2
	1.00	1.20	1.20	Societies	60	100	120	120
	—	—	80.00	Do	—	—	—	5
	—	0.30	0.30	Do	10	—	20	20
	0.50	1.50	1.50	Do	15	—	30	30
	0.05	0.10	0.10	Do	5	5	10	10
	0.10	0.20	0.20	Do	10	10	20	20
	0.10	0.10	0.10	Do	10	10	10	10
	0.10	0.10	0.20	Do	2	2	2	4
	32.75	54.90	135.00					

Serial No.	Name of the Scheme	State Plan Divisible outlay	Sub-montane
1	2	3	4
IRRIGATION AND POWER			
<i>I. Irrigation—</i>			
	(1) Shah Pur Kandi Bar,age	.. 1.00	1.00
	(2) Dholbaha Dam	.. 140.00	140.00
	(3) Low Dams in Kandi area	.. 4.00	4.00
	(4) Garh Shankar Lift Irrigation Scheme	.. 20.00	20.00
	(5) Lohat and Garhi Lift Scheme	.. 5.00	5.00
	(6) Extension of N.P. Irrigation in U.B.D.C. Tract	.. 20.00	—
	(7) Utilisation of surplus Ravi-Beas Water	.. 60.00	—
	(8) Lining of Irrigation Channels	.. 1200.00	—
	(9) Extension of Improvement of Shah Nahar Canal System	.. 250.00	—
	Sub- Total	.. 1700.00	170.00
<i>II. Flood Control</i>			
	Flood Control, Drainage and Anti-Water Logging Schemes	.. 500.00	50.00
<i>III. Power—</i>			
	(1) General connections	.. 280.00	25.00
	(2) Small Industries connections	.. 112.00	10.00
	(3) Tubewell connections	.. 1316.00	—
	Sub-Total	.. 1708.00	35.00
	Total	.. 3908.00	255.00
<i>IV. Industries—</i>			
1.	IN 4.1 Credit Facilities for the Development of SSI	.. 10.00	0.90
2.	IN 4.17 Development of leather industry	.. 15.00	1.80
3.	IN 4.26 Promotion of Self employment through Seed/Capital margin money assistance	.. 12.00	1.08
4.	IN 4.3 Grant of one per cent subsidy to P.F.C.	.. 0.80	—
5.	IN 4.37 Grant of 20 per cent subsidy for the purchase of G. sets	.. 2.50	—
6.	IN 4.6 Industrial Development-cum-Service Centres	.. 9.00	—
7.	IN 4.7 Quality Marking Centres	.. 5.00	—
8.	IN 6.1 Installation of Jacquard machines	.. 2.50	0.35
9.	IN 6.2 Interest free loan for margin money	.. 0.50	0.09
10.	IN 6.3 Training of Weavers	.. 0.50	0.45
11.	IN 6.4 Construction of workshed for weavers	.. 2.00	0.30
12.	IN 6.6 Construction of workshed for weavers	.. 2.00	—
13.	IN 6.7 Weaving industries in sub-montane areas	.. 2.50	2.50
14.	IN 8.1 Development of handicraft industry	.. 4.00	0.74
15.	IN 8.2 Setting up of Carpet Weaving Training Centre to be set up by P.S.S.I.C.	.. 30.00	—
	Total	.. 98.30	8.21

III
 1980-81 Plan Schemes

(Rs. in lacs)

Flow to			Unit	Physical targets			
Border	Bet	Other backward		Sub-montane	Border	Bet	Other backward
5	6	7	8	9	10	11	12
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
1.00	—	—	—	—	—	—	—
2.00	—	—	—	—	—	—	—
5.00	—	—	—	—	—	—	—
—	—	250.00	—	—	—	—	—
8.00	—	250.00	—	—	—	—	—
75.00	100.00	25.00	Hectare (lacs)	0.04	0.05	0.07	0.02
42.00	11.00	33.60	General connections	12500	21000	5600	16800
17.00	4.50	13.40	Small Industries connection	250	420	110	335
253.00	10.50	158.00	Tubewell Connections	—	5600	2240	3350
322.00	26.00	205.00	—	—	—	—	—
405.00	126.00	480.00	—	—	—	—	—
1.50	0.40	1.20	Parties	14	24	6	19
2.70	—	2.00	Centres/trainees	10	1	—	25
1.80	0.48	1.44	Unit	5	9	3	7
—	—	0.80	Unit	—	—	—	100
—	—	0.20	Unit	—	—	—	5
1.31	—	3.16	Nos.	—	2	—	2
—	—	1.83	Unit	—	—	—	1
0.30	0.05	0.25	Unit	4	6	1	5
0.15	0.04	0.12	Unit	N.A.	N.A.	N.A.	N.A.
0.07	0.02	0.06	Unit	9	15	4	12
0.40	—	—	Unit	2	4	—	—
—	0.10	0.30	Unit	—	—	1	3
—	—	—	Unit	N.A.	—	—	—
1.60	—	1.66	Trainees	20	40	—	20
30.00	—	—	Nos.	—	2000	—	—
39.83	1.09	13.02					

Serial No.	Name of the scheme	State Plan Divisible outlay	Sub-montane	
1	2	3	4	
V. Transport and Communication :				
1. Roads and Bridges—				
	(a) Link Roads	.. 445.00	125.00	
	(b) Improvement of Roads within Municipal limits	.. 50.00	0.10	
2. Road Transport—				
	(i) P.R.T.C.	.. 730.75	65.77	
	(ii) Punjab Roadways	.. 132.00	11.88	
	Total	..	1357.75	202.75
VI. Social and Community Services				
1. General Education				
(i) Primary—				
(1) School Education (Primary Education) Elementary Education (6—11 age-groups)—				
(A) Full-time Classes I to V (6—11)—				
	(i) Opening of Single Teacher Primary Schools	.. 1.15	0.10	
	(ii) Furniture to Government Primary Schools	.. 11.50	1.04	
	(iii) Improvement of Primary Schools	.. 5.00	0.45	
	(iv) Lavatories and Drinking Water facilities	.. 4.00	0.36	
	(v) Library service in Primary Schools	.. 4.65	0.42	
	Sub-Total	..	26.30	2.37
(ii) Schools—				
Middle School Education (Classes VI—VIII)				
E.D. 2.1 Expansion of facilities for full time (Salaries and non-teaching)—				
	(a) Upgrading of Government Primary Schools to Middle Standard	.. 24.02	2.16	
	(b) Creation of posts of PTIs for Government Middle Schools and Middle Departments of High/Higher Secondary Schools	.. 13.20	1.19	
E.D. 2.2 Incentives—				
	Introduction of non-formal Education in Age Group 11—14	.. 3.00	0.27	
E.D. 2.5 Qualitative Improvement—				
	(a) Work Experience—Vocationalisation of Education at Elementary Stage	.. 28.61	2.57	
(ii) Strengthening of Science Education—				
	(a) Creation of Addl. posts of Science Masters/Mistresses	.. 19.01	1.77	

III
1980-81 Plan Schemes

(Rs. in laacs)

Flow to			Unit	Physical targets			
Border	Bet	Other backward		Sub-Montane	Border	Bet	Other backward
5	6	7	8	9	10	11	12
220.00	100.00	—	Kms.	100	100	40	—
—	—	—	Kms.	1	—	—	—
109.61	29.23	87.69	Kms. in lakhs.	15.68	26.12	6.97	20.90
19.80	5.28	15.84	Kms. in lakhs.	3.18	5.29	1.41	4.23
349.41	134.51	103.53					
0.17	0.05	0.14	No.	1	1	1	1
1.72	0.46	1.38	No.	14	240	64	192
0.75	0.20	0.18	No.	10	16	4	13
0.60	0.16	0.48	No.	9	24	6	17
0.70	0.20	0.56	No.	7	12	3	10
3.94	1.05	3.16					
3.60	0.96	2.88	No.	—	—	—	—
1.98	0.53	1.58	No.	—	—	—	—
0.45	0.12	0.36	No. of Centres	—	—	—	—
4.29	1.44	3.43	No.	—	—	—	—
1.71	0.36	2.28	No.	—	—	—	—

Serial No.	Name of the Scheme	State Plan Divisible Outlay	Flow	
				Sub-montane
1	2	3	4	
	(b) Supply of Science Kits for Government Middle Schools	..	1.39	0.13
	(iii) Others—Diversification of courses—Introduction of Domestic Science in Government Middle Schools and Middle Departments of High/Higher Secondary Schools	..	0.54	0.05
E.D. 3.1	Expansion of facilities Institutional (14—17)—			
	(a) Upgrading of Government Middle Schools to High Standard	..	63.01	5.67
E.D. 3.5	Improvement—			
	(i) (b) Creation of posts—Lab. Attendants	..	12.78	1.15
	(iii) (a) Introduction of Library Service	..	6.24	0.56
	(iv) (a) Introduction of Home Science	..	0.82	0.07
	(b) Introduction of the subject of Music	..	1.34	0.12
E.D. 5.1	Introduction of Social Education Programme	..	19.10	1.72
E.D. 6.2	Creation of posts of D.P. Es.	..	15.84	1.43
	Sub Total	..	208.90	18.86
	Total	..	235.20	21.23
	2. HEALTH			
PH 1.3	Establishment of 25 Bedded block level Rural Hospitals	..	75.00	7.50
PH 1.4	Opening of subsidiary Health Centres in Rural Area	..	150.00	13.80
PH 1.6	Establishment of Dental Clinic in each block	..	6.00	0.60
PH 1.8	Providing Specialists teams in Rural Area	..	7.25	0.65
PH 2.3	Opening of new dispensaries in Urban Slum Area	..	7.50	0.63
PH 2.7	Provincialisation of Local Bodies Hospital/Dispensary	..	3.00	0.27
PH 2.8	Upgradation of existing Hospitals (including Estt. of 100 bedded Hospital) at S.A.S. Nagar	..	23.85	2.14
PH 2.9	Establishment of Intensive Care Units at Distt. Level Hospitals	..	1.25	0.11
PH 4.1	National Malaria Eradication Programme (Rural)	..	50.00	2.80
PH 4.4	National T.B. Control Programme	..	6.00	0.54
PH 4.5	National Leprosy Control Programme	..	2.15	—
PH 4.6	National Programme for Control of Visual impairment and blindness including Trachoma	..	2.30	0.30
PH 5.3	Strengthening of State Health and Distt. Lab.	..	0.65	—
PH 5.7	Multipurpose Workers Scheme	..	20.00	1.80
AY 1.1	Strengthening of existing I.S.M. & Homoeopathic Dispensaries	..	5.50	0.44
AY 1.2	Opening of I.S.M. & Homoeopathic Dispensaries	..	13.83	1.20
	Sub-Total	..	374.28	32.86

(Rs. in lakhs)

to				Physical targets			
Border	Bet	Other Backward	Unit	Sub Montane	Border	Bet	Other Backward
5	6	7	8	9	10	11	12
0.21	0.06	0.17	No.	—	—	—	—
0.08	0.02	0.06	No.	—	—	—	—
9.45	2.52	7.56	No.	—	—	—	—
1.95	0.51	1.53	No.	—	—	—	—
0.94	0.25	0.75	No.	—	—	—	—
0.12	0.03	0.10	No.	—	—	—	—
0.20	0.06	0.16	No.	—	—	—	—
2.87	0.76	2.29	No.	—	—	—	—
2.38	0.63	1.90	No. of Centres	—	—	—	—
30.23	8.25	25.05					
34.17	9.30	28.21					
12.00	3.00	9.00	No.	4	7	1	5
22.80	6.00	18.00	No.	46	76	15	60
0.90	0.24	0.72	No.	4	4	1	2
1.09	0.29	0.87	No.	22	2	1	1
1.12	0.30	0.90	No.	2	2	1	2
0.45	0.12	0.36	No.	1	—	—	1
3.38	0.95	2.86	No.	1	1	—	1
0.19	0.05	—	No.	—	—	—	1
8.40	3.40	6.60	No.	4 blocks for PHC	—	—	Ropar
0.90	0.24	0.72	No.	200	—	—	—
1.36	—	—	No.	12	—	—	—
0.34	0.09	0.28	No.	(18 PHC (New) (30 PHC) (Contd.)	3 PHC (New) 6 PHC (contd)	—	—
0.10	—	0.22	No.	3	1(contd)	—	—
3.00	0.80	2.40	No.	90 Scs.	—	—	—
0.33	0.28	0.60	Dispensaries to be strengthened	8	6	5	11
2.00	0.72	1.60	Dispensaries to be opened	3	5	1	4
58.36	16.48	45.13					

Serial No.	Name of the scheme	State Plan Divisible Outlay	Flow
			Sub- montane
1	2	3	4
	3. RURAL WATER SUPPLY	.. 500.00	—
	4 HOUSING		
H.G. 2.3	Low Income Group Housing Scheme	.. 60.00	5.40
H.G. 6	Village Housing Project Scheme	.. 50.00	4.50
	Sub Total	.. 110.00	9.90
	5 : WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES		
1	(a) Land Purchase Scheme	.. 15.00	1.40
	(b) Houses/Wells	.. 3.00	0.28
2	Dharamshala Scheme	.. 40.00	3.60
3	(a) Harijan Basti Sudhar	.. 70.00	5.80
	(b) Drinking Water Wells	.. 4.00	0.87
4	Houses for Sweepers	.. 27.00	2.45
5	Houses for Vimukat Jaties	.. 13.00	1.18
	Sub Total	.. 172.00	15.58
	Total	.. 1391.48	79.57
	Grand Total	.. 8398.40	876.44

to					Physical targets		
Border	Bet	Other backward	Unit	Sub-montane	Border	Bet	Other Backward
5	6	7	8	9	10	11	12
18.00	0.58	29.00	Villages	6	4	1	18
9.00	2.40	7.20	Houses	108	180	48	14
7.50	2.00	6.00	Houses	90	150	40	120
16.50	4.40	13.20					
2.25	0.60	1.80	Beneficiaries	28	45	12	36
0.45	0.12	0.36	Do	28	45	12	36
6.00	1.60	4.80	Unit	31	60	16	48
10.50	2.80	8.40	Villages	12	21	6	17
0.60	0.16	0.48	Unit	31	64	32	72
4.05	1.08	3.24	Houses	122	202	54	162
1.95	0.52	1.56	Ditto	59	98	26	78
25.80	6.88	20.64					
152.83	37.64	136.18					
1109.10	414.06	952.33					

CHAPTER XXI

Centrally Sponsored Schemes

Background and Report of the Working Group of the N.D.C.

(Rs. crores)

The Working Group of the N.D.C. Committee on Centre State relations directed that a Group consisting of Planning/Finance Secretaries of States and Secretaries of Central Ministries concerned should scrutinise the existing Centrally Sponsored schemes. At the outset the total value of Centrally Sponsored schemes to be scrutinised by the Group was estimated at Rs 6,000 crores, the details of which are as given below :—

Total value of Centrally Sponsored schemes	Schemes to be transferred to State Plan alongwith earmarked funds (List 'A')	Adjustment in Centrally Sponsored schemes to release resources for transfer to the States (List 'B')	Centrally Sponsored schemes to be continued with scheme wise earmarking of funds (List 'C')
Rs. 6000 crores	Rs. 604.43 crores say Rs. 600 crores	Rs. 390 crores say Rs. 400 crores	Rs. 4877.25 crores say Rs. 5000 crores

21.2 The schemes included in List 'A' were considered unanimously or by a substantial majority of the Group, not necessary to be continued and Rs. 600 crores in lieu thereof could very well be transferred to the States to augment their Plans. Upon examination of schemes of List 'B', it was inferred that another Rs 400 crores could possibly be saved therein by making suitable adjustments, thereby bringing the total amount possible to be transferred to the States, to Rs 1,000 crores (Rs. 600 + Rs. 400 = Rs. 1,000) approximately.

21.3 In the remaining schemes worth Rs 5,000 crores approximately were, in the view of the Working Group, required to be funded by the Centre, either partially or in full.

21.4 The entire provision for the following schemes was considered necessary to be retained by the Centre, as these were considered to be schemes of National importance which, if left to the States, might not be implemented to the extent desired.

Annexure	No.	Scheme	Amount
I	84	Adult Education	70.00
I	95	Integrated Child Development Services	30.00
I	100	Post-Matric Scholarships	130.00
I	51	Agricultural Credit Stabilisation Fund	40.00
		Assistance to N.C.D.C.	50.00
		Accelerated Rural Water-Supply	400.00
II	41, 42	Debentures of Land Development Banks and shares of Rural Banks	110.00
			830.00

21.5 In addition to the above, the consensus was that the Family Planning Programme and the scheme 'Inter-State Power Lines' costing Rs 865 crores was necessary to be funded 100 per cent by the Centre as heretofore. The outlay, of the two categories of schemes mentioned above taken together is Rs 1,695 crores and if deducted from the total value of approximately Rs. 5,000 crores of the schemes in List 'C', leaves a balance of Rs 3,300 crores. Of the remaining schemes of List 'C' of the value of Rs 3,300 crores to be finance on 50 : 50 basis by the Centre and the State ; Rs 1,650 crores was to be retained by the Centre and Rs 1,650 crores was to be transferred to the States.

21.6 Rs. 1,000 crores proposed to be transferred to the States under Lists 'A' and 'B' added to the above Rs 1,650 crores (State's share), gives the total additional Central Plan Assistance of Rs. 2,650 crores available for distribution amongst the States. The allocation of resources corresponding to

Rs. 6,000 crores of Centrally Sponsored schemes suggested as above would thus be :—

	(Rs crores)
Centre	3,350
States	2,650
	<hr/>
	6,000
	<hr/>

21.7 Of the total Central Plan Assistance of Rs. 2,650 crores, to be distributed amongst States, Rs. 2,000 crores was made available as additional Block Plan Assistance for the next four years 1979-83.

Distribution of additional amounts on the basis of I.A.T.P. formula

21.8 The percentage distribution of Rs. 2,000 crores for the four years 1979-83, according to Gadgil Formula and Income Adjusted Total Population (I.A.T.P.) Formula is as under :—

CENTRAL AID AND STATES

States	Population percentage (1971 Census)	Percentage share under Gadgil Formula	Percentage share under I.A.T.P. Formula
1	2	3	4
Andhra Pradesh	8.46	8.74	8.06
Bihar	10.97	11.22	14.99
Gujarat	5.19	5.10	4.03
Haryana	1.94	2.52	1.22
Karnataka	5.70	5.45	4.82
Kerala	4.14	3.95	3.83
Madhya Pradesh	8.11	8.81	9.22
Maharashtra	9.80	10.64	6.40
Orissa	4.26	3.60	4.73
Punjab	2.62	3.33	1.46
Rajasthan	5.02	5.76	5.18
Tamil Nadu	8.01	6.57	7.49
Uttar Pradesh	17.17	17.07	21.26
West Bengal	8.61	7.24	7.31
	100.00	100.00	100.00

21.9 Out of Rs. 2,000 crores to be distributed amongst States, Rs. 29.30 crores is the total share of Punjab State for the years 1979-83 on the basis of IATP formula. Out of Rs. 2,000 crores, Rs. 400 crores representing 20 percent has been distributed amongst the States for the year 1979-80. Of this Rs. 5.86 crores has been earmarked for the Punjab State for the year 1979-80.

Schemes Affected

21.10 In accordance with the decision of the National Development Council, Centrally Sponsored schemes included in the Draft Sixth Plan and Central Sector schemes in the nature of Centrally Sponsored schemes, have been divided into following three categories :—

- (i) Schemes which would continue to be Centrally Sponsored and for which funding by the Central Government for relevant items would continue to be 100% as before ;
- (ii) Schemes which would continue to be Centrally Sponsored but in respect of which financing would be on a sharing basis between the Centre and the States ;
- (iii) Schemes which have ceased to be Centrally Sponsored.

21.11 The changed pattern has come into effect from 1st April, 1979. The schemes in list (i) would continue to be funded by the Government of India on the same pattern as followed earlier while the financing of the schemes in list (ii) would now be on fifty-fifty basis.

Financing of the schemes under the changed pattern

21.12 The mid-year decision of the Government of India to distribute Rs. 2,000 crores amongst the States on the basis of IATP formula depleted the resources of the State by Rs. 10.64 crores as against the Rs. 16.50 crores assumed while working out the resources for the Plan for 1979-80 on the basis of the Gadgil formula.

21.13 The State's financial liability in respect of list (ii) and (iii) as shown in Annexure worked out to Rs. 19.92 crores during 1979-80 alone, against which Rs. 5.86 crores has been allocated by Govern-

ment of India, thereby thrusting upon the State an additional recurring liability of Rs. 14.06 crores, if the schemes were to be implemented as originally envisaged.

21-14 It has been decided to adjust the additional liability within the State Plan by pruning the schemes which enjoyed low priority in respect of the State's development strategy. Out of the total financial liability of Rs. 7.22 crores of sub-head Urban Development, the liability to the extent of Rs. 5.66 crores has been deferred to the years 1980-83. To meet the remaining liability of Rs. 14.26 crores, an additional provision of Rs. 5.73 crores was made from within the overall Plan savings as also a saving of Rs. 2.45 crores effected by the squeezing of the size of existing Plan schemes. The outlays of list (ii) and list (iii) schemes have been reduced by Rs. 0.80 crores and Rs. 3.70 crores respectively and 3 schemes in list (ii) and 5 schemes in list (iii) worth Rs. 0.35 crores and Rs. 1.23 crores have been dropped.

Additional Allocation

21-15 Even so, additional amounts had to be given to certain departments over and above their Plan allocations to meet the liability on this account. These are listed below along with the amounts in each case :—

(Rs. in lakhs)	
Name of the sub-head	Additional amount allowed
1. Agriculture	163.00
2. Health	62.00
3. Industries	45.00
4. Community Development and Panchayats	149.50
5. Urban Development	156.16
Total	575.66

Agriculture

21-16 In addition, the department pruned the

existing State Plan schemes in order to accommodate the additional schemes within the savings. In the sub-head Agriculture, the total number of Centrally Sponsored schemes being implemented in the State were 21, out of which 2 schemes worth Rs. 25.70 lakhs, one each in list (ii) and (iii) had to be dropped. After whittling the schemes down to the minimum, the financial liability for the sub-head Agriculture in list (ii) and (iii) was Rs. 369.68 lakhs. The department has had to squeeze the size of its existing Plan schemes to the extent of Rs. 206.68 lakhs and make do with the additional amount of only Rs. 163.00 lakhs provided to it.

Industries

21-17 The Industries Department which was affected to the extent of Rs. 68.78 lakhs was given an additional amount of Rs. 45.00 lakhs, and has managed to adjust these schemes within the allocated amount without disturbing its ongoing Plan schemes.

Health

21-18 In the case of the Health Department the liabilities arose mainly on account of their schemes falling in list (ii), the financing pattern for most of these schemes being 100 per cent by the Centre earlier, which was changed to 50 : 50, a financial responsibility of Rs. 190.87 lakhs devolving upon the State as a result. By pruning existing Plan schemes to the extent of Rs. 50.55 lakhs and with the amount of Rs. 62.00 lakhs additionally allocated the department accommodated schemes worth Rs. 112.55 lakhs.

Urban Development

21-19 The latest communication by Government of India placed the schemes of sub-head Urban Development entirely in list (iii) 'schemes which had since ceased to be Centrally Sponsored'. The financial liability on account of these schemes (including old IUDP which now stands substituted by IUDP for small and medium towns) is of the order of Rs. 722.16 lakhs. These schemes were included in the Annual Plan Year 1979-80 in principle, however, funds would be allocated in respect of each scheme on merit. The likely release of funds is anticipated to be Rs. 156.16 lakhs during 1979-80, the rest of the liability would, however, be deferred to the years 1980-83.

Community Development and Panchayats

21·20 As for the Department of Community Development and Panchayats, it has been additionally burdened to the extent of Rs. 149.50 lakhs due to a change in financing pattern of scheme IRD (Area Planning for full employment), which was earlier financed 100 per cent by the Centre and is now to be financed by it to the extent of 50% only. The entire amount has had to be provided from within the overall Plan savings by the State Government for the adjustment of these schemes.

Forests

21·21 The Forest Department has dropped two Centrally Sponsored schemes with a State share of

Rs. 15.00 lakhs and Centre share of Rs. 68.23 lakhs and reduced the State share of another Centrally Sponsored scheme to the extent of Rs. 2.21 lakhs, resulting in an overall State share saving of Rs 17.21 lakhs. The outlay of the similar schemes in the State Plan was enhanced to the like amount.

Fisheries, Welfare of Scheduled Castes and Backward Classes and Social Welfare

21·22 The Department of Fisheries, Welfare of Scheduled Castes and Backward Classes and Social Welfare were affected to the extent of Rs. 3.00, Rs. 2.25 and Rs. 1.50 lakhs respectively which they have met by effecting savings from the State Plan schemes of their departments.

Sub-headwise Original and Revised Outlays of State Plan schemes, list (ii) and list (iii) schemes after adjustment

Sub-head of Development	Financial Liability	State Plan schemes		
		Original	Revised	Difference
1	2	3	4	5
Agriculture	762.94	735.75	529.07	206.68
Minor Irrigation	—	—	—	—
Soil Conservation	9.00	62.30	54.45	7.85
Animal Husbandry	13.81	228.25	237.77	(—)9.52
Fisheries	3.00	30.00	27.00	3.00
Forests	68.23	146.1.	163.36	(—)17.21
Community Development and Panchayats	149.50	—	—	—
Co-operation	—	—	—	—
Industries	68.78	—	—	—
Health	190.87	229.46	178.91	50.55
Urban Development	722.16*	—	—	—
	156.16			
Welfare of Scheduled Castes and Backward Classes	2.25	24.00	21.75	2.25
Social Welfare	1.50	10.00	8.50	1.50
	1992.04*			
Total	1426.04	1465.91	1220.81	245.10

*The schemes of sub-head 'Urban Development' have now ceased to be Centrally Sponsored and the Central share which used to flow in the form of Loan assistance/subsidy have been accounted for in the Annual Plan 1979-80, in principle. It is anticipated that the likely release of funds may be Rs. 156.16 lakhs during 1979-80.

of Centrally Sponsored schemes for the year 1979-80.

(Rs. in lakhs)

List -II						List -III			
Original			After Adjustment			Original			After adjustment
State share	Centre share	Total	State Share	Centre share	Total	State share	Centre share	Total	State share
6	7	8	9	10	11	12	13	14	15
40.00	360.03	400.03	178.00	176.57	354.57	279.10	602.92	882.02	510.78
9.20	9.20	18.40	9.20	9.20	18.40	—	—	—	—
—	10.00	10.00	5.00	5.00	10.00	4.00	4.00	8.00	6.85
2.00	4.2	6.52	1.76	1.76	3.52	12.55	12.55	25.10	3.27
—	6.00	6.00	3.00	3.00	6.00	—	—	—	—
—	—	—	—	—	—	18.00	68.23	86.23	0.79
—	299.00	299.00	149.50	149.0	299.00	—	—	—	—
1.28	1.28	2.56	1.28	1.28	2.56	—	—	—	—
21.62	75.18	96.80	37.00	37.00	74.00	—	42.00	42.00	26.98
9.10	390.83	399.93	121.65	121.65	243.30	—	—	—	—
—	—	—	—	—	—	—	722.16	722.16	156.16
—	4.50	4.50	2.25	2.25	4.50	—	—	—	—
—	3.00	3.00	1.50	1.50	3.00	—	—	—	—
83.20	1163.54	1246.74	510.14	508.71	1018.85	313.65	1451.86	1765.51	704.83

PART II
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ANNUAL PLAN 1980-81
STATEMENT I
HEADS OF DEVELOPMENT
OUTLAYS AND EXPENDITURE

(Rs. in Lakhs)

Head/Sub-head of Development	Five year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay 1980-81	
			Approved Outlay		Anticipated Expenditure	Total	Of which capital content
			Total	Total				Of which capital content
1	2	3	4	5	6	7	8
I. AGRICULTURE AND ALLIED SECTORS							
Agriculture ..	9604.67	893.14	1797.00	1797.00	780.13	1960.00	545.50
Minor Irrigation ..	2600.60	434.56	520.00	520.00	510.00	808.40	797.90
Soil Conservation ..	2272.50	235.86	340.00	340.00	192.00	340.00	216.50
Food ..	17.00	13.00	5.00	5.00	5.00	5.00	5.00
Animal Husbandry ..	1500.00	243.61	260.00	260.00	28.96	250.00	21.80
Dairying & Milk Supply ..	556.41	26.99	98.00	98.00	45.62	70.00	38.00
Fisheries ..	167.70	20.08	30.00	30.00	19.50	30.00	13.25
Forests ..	1305.50	132.81	175.00	175.00	19.89	175.00	20.00
Community Development & Panchayats ..	972.00	157.00	165.00	165.00	152.50	515.00	344.75
Total-I ..	18996.38	2157.05	3390.00	3390.00	1753.60	4153.40	2002.70
II. CO-OPERATION							
Total-II ..	2360.00	624.05	455.00	455.00	216.44	580.00	364.83
III. IRRIGATION AND POWER							
Irrigation ..	21827.30	2130.03	3083.00	3083.00	3083.00	3838.00	3838.00
Anti-water logging Drainage and Flood Control ..	3505.00	1150.74	750.00	750.00	750.00	500.00	500.00
Power ..	54314.00	7887.65	9471.00	9471.00	9471.00	10830.00	10830.00
Total-III ..	79646.30	11168.42	13304.00	13304.00	13304.00	15168.00	15168.00
IV. INDUSTRY AND MINERALS							
Large & Medium Industries ..	4291.10	790.46	894.00	894.00	877.00	918.00	904.50
Small Scale Industries ..	1704.69	340.78	293.00	293.00	197.75	360.00	233.74
Mines & Minerals ..	20.00	8.69	5.00	5.00	4.24	3.00	—
Total IV ..	6015.79	1139.93	1192.00	1192.00	1078.99	1281.00	1138.24
V. TRANSPORT AND COMMUNICATIONS							
Civil Aviation ..	77.20	11.52	15.00	15.00	14.50	59.00	59.00
Roads & Bridges ..	7830.00	1501.46	1500.00	1500.00	1500.00	1500.00	1500.00
Road Transport ..	3697.50	698.02	600.00	600.00	600.00	700.00	700.00
Tourism ..	260.00	98.76	45.00	45.00	45.00	45.00	45.00
Total-V ..	11864.70	2309.76	2160.00	2160.00	2159.50	2304.00	2304.00

ANNUAL PLAN—1980-81

STATEMENT I

HEADS OF DEVELOPMENT
OUTLAYS AND EXPENDITURE

(Rs. in lakhs)

Head/Sub-Head of Department	Five Year Plan (1987-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved outlay	Anticipated expen- diture	Total	Of which capital content	
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
VI. SOCIAL AND COMMUNITY SERVICES							
General Education (Including Art & Culture)	4919.00	1504.69	597.00	597.00	101.61	657.00	82.00
Technical Education	228.00	28.73	45.00	45.00	6.11	80.00	28.80
Public Health and Sanitation	4399.00	592.14	680.00	680.00	419.65	800.00	166.07
Rural Water Supply	2905.00	403.39	500.00	500.00	—	500.00	—
Housing	5194.00	808.42	934.00	934.00	934.00	1024.00	1024.00
Urban Development	8448.00	745.32	2000.00	2000.00	1982.00	2500.00	2482.00
Information and Publicity	201.00	36.60	40.00	40.00	—	40.00	—
Labour & Labour Welfare	390.00	55.38	75.00	75.00	21.50	96.00	27.00
Welfare of Scheduled Castes & Backward Classes	2130.00	229.19	264.00	264.00	30.00	414.00	80.00
Social Welfare	592.00	66.49	80.00	80.00	35.00	88.00	28.80
Nutrition	150.00	8.46	16.00	16.00	—	16.00	—
Total VI	29556.00	4478.81	5231.00	5231.00	3529.87	6215.00	3890.15
VII. ECONOMIC SERVICES							
Statistics	78.00	15.08	15.00	15.00	—	21.60	—
Planning Machinery	40.00	—	10.00	10.00	—	10.00	—
Total VII	118.00	15.08	25.00	25.00	—	31.60	—
VIII. GENERAL SERVICES							
Stationery & Printing	68.11	18.96	11.00	11.00	9.23	11.00	9.00
Punsup	124.00	9.00	10.00	10.00	10.00	10.00	10.00
Public Works	1144.50	170.62*	232.00	232.00	232.00	270.00	270.00
Administrative Training Institute	54.50	4.50	10.00	10.00	10.00	10.00	10.00
Employment promotion Programme	38.00	38.00	—	—	—	—	—
Total VIII	1429.11	203.08	263.00	263.00	261.23	301.00	299.00
Grand Total	149986.28	22096.18	26020.00	**26020.00	22303.00	30034.00	25166.92
	Say 150000.00						

*Figures are provisional

**It is not possible at this stage to indicate revised estimates which are usually based on actual expenditure for three quarters of the year, the figures for which would be available only in January, 1980. Hence, current year's outlays which are synonymous with the expenditure targets have been repeated in the Column Anticipated expenditure.

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(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)		
			Approved outlay	Anticipated expenditure	Total	Of which capital content		
			Total	Total	Of which Capital content	Total	Of which capital content	
1	2	3	4	5	6	7	8	
PUNJAB AGRICULTURAL UNIVERSITY								
I—RESEARCH								
A(P) 1-1	Chemical, Physical and Biological Studies on waterlogged soils	12.05	2.13	2.60	2.60	—	2.75	—
A(P) 1-2	Facilities for Research on Soil Water-Plant relationship	10.80	2.08	2.38	2.38	—	2.50	—
A(P) 1-3	Studies on the nutrition of oilseeds and pulses	6.50	1.25	1.43	1.43	—	1.55	—
A(P) 1-4	Cotton Research	7.70	1.60	1.54	1.54	—	1.60	—
A(P) 1-5	Quality Improvement of Oilseed Crops	9.80	2.17	2.15	2.15	—	2.11	—
A(P) 1-6	Facilities for quality breeding in cereals and pulses	7.40	1.56	1.63	1.63	—	1.75	—
A(P) 1-7	Facilities for off-seasons growing of breeding material of various crops in Lahaul Valley and Southern India	9.15	1.60	2.01	2.01	—	2.15	—
A(P) 1-8	Improvement of forages and establishment of forage unit	32.90	5.88	7.83	7.83	—	8.05	—
A(P) 1-9	Strengthening of entomological research in oilseeds	2.95	0.83	0.65	0.65	—	0.72	—
A(P) 1-10	Scheme for strengthening the insect toxicology and pesticides residues	6.75	1.20	1.48	1.48	—	1.55	—
A(P) 1-11	Pests of minor crops—ishabgole, mentha, celery chicory, ajwain, saunf etc.	1.00	0.26	0.22	0.22	—	0.25	—
A(P) 1-12	Research and development studies on the malting of indigenous cereals	4.85	0.87	1.15	1.15	—	1.20	—
A(P) 1-13	Studies on the milling per boiling and associated physio-chemical aspects of rice	2.90	0.52	0.60	0.60	—	0.60	—
A(P) 1-14	Studies on the development of fruit juices and beverages	3.15	0.57	0.69	0.69	—	0.75	—
A(P) 1-15	Studies on the quality of hen eggs on poultry farms, marketing channel in Punjab and production, processing and preservation of poultry and poultry products	3.15	0.30	0.69	0.69	—	0.75	—
A(P) 1-16	Studies on milling baking and related compositional and rheological properties of the Punjab and extra provincial wheats as influenced by variety, ecology fertilizers and harvest conditions with a view to improving commercial and consumer utilization	9.10	1.22	1.96	1.96	—	2.05	—

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(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)	
			Approved outlay		Anticipated expenditure	Total	Of which capital content
			Total	Total	Of which Capital content		
1	2	3	4	5	6	7	8
A(P) 1·17 Establishment of Section of ecology	10·50	1·86	2·31	2·31	—	2·45	—
A(P) 1·18 Development of research facilities in Nematology at PAU, Ludhiana	6·15	1·39	1·57	1·57	—	1·65	—
A(P) 1·19 Intensification of research on breeding of vegetable varieties and studies on the cultural and nutritional requirements for processing	11·75	1·61	2·58	2·58	—	2·80	—
A(P) 1·20 Analysis of income and expenditure pattern of Punjab Farmers	9·90	2·15	2·17	2·17	—	2·35	—
A(P) 1·21 Research on Tubewell Design Criteria and development of improved tubewell components	3·55	0·62	0·78	0·78	—	0·80	—
A(P) 1·22 Engineering studies for Utilization of Agricultural By-products	3·15	0·56	0·69	0·69	—	0·75	—
A(P) 1·23 Low Temperatures storage of perishable product	4·00	0·71	0·88	0·88	—	0·95	—
A(P) 1·24 Strengthening of Farm Machinery Development and research	6·75	1·06	1·48	1·48	—	1·55	—
A(P) 1·25 Strengthening of Testing Centre	7·00	1·08	1·50	1·50	—	1·55	—
A(P) 1·26 Design and Development of Structures and equipment for animal production system	6·10	0·92	1·34	1·34	—	1·40	—
A(P) 1·27 Utilization of Solar Energy for creation of optimum environment for animal and Plant Production System	4·95	0·52	1·10	1·10	—	1·15	—
A(P) 1·28 Reproductive Physiology of Birds and Mammals	9·75	1·67	2·15	2·15	—	2·25	—
A(P) 1·29 Harmonal regulation in crops and fruit-trees	11·75	1·82	2·57	2·57	—	2·65	—
A(P) 1·30 Setting up of Laboratory for germ-plasm and fungicides evaluation against plant pathogens under artificial epiphytotic	19·45	2·63	2·95	2·95	—	3·00	—
A(P) 1·31 Utilization of Agricultural wastes micro-biological conversion into food and feed protein	8·50	1·49	1·87	1·87	—	2·05	—
A(P) 1·32 Biochemical evaluation of pulses and their products	4·85	1·05	1·06	1·06	—	1·20	—
A(P) 1·33 Chemistry of some natural products and their significance on agriculture	3·75	0·73	0·82	0·82	—	0·91	—
A(P) 1·34 Studies on potential of new betrocyclic compounds as systematic fungicides	2·75	0·50	0·60	0·60	—	0·65	—

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(P.s. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)	
			Approved Outlay		Anticipated Expenditure		
			Total	Total	Of which capital content	Total	Of which capital content
1	2	3	4	5	6	7	8
A(P) 1-35 Strengthening of Physics Department— Research solid State biophysics (Mossbaur effect)	5.85	1.10	1.28	1.28	—	1.35	—
A(P) 1-36 Micronutrients research establishment of Plant Analysis Laboratory in the Department of Soils	6.35	1.20	1.40	1.40	—	1.45	—
A(P) 1-37 Strengthening of soil testing facilities	6.05	1.17	1.33	1.33	—	1.40	—
A(P) 1-38 Supervised integrated control of cotton pests	5.85	1.32	1.29	1.29	—	1.50	—
A(P) 1-39 Scheme for research on production and storage of vegetable seeds	7.00	1.30	1.54	1.54	—	1.60	—
A(P) 1-40 Scheme on investigation of root nodulation bacterial of leguminous crops	2.70	0.62	0.59	0.59	—	0.65	—
A(P) 1-41 Studies on the agronomy of new crops in Punjab	5.60	1.63	1.23	1.23	—	1.30	—
A(P) 1-42 25 per cent State share on account of I.C.A.R. co-ordinated projects	60.00	5.34	17.00	17.00	—	17.00	—
A(P) 1-43 Instrumentation Cell	4.00	0.72	0.85	0.85	—	0.90	—
A(P) 1-44 Fisheries Research Scheme	5.00	—	0.75	0.75	—	0.60	—
A(P) 1-45 Strengthening of irrigation facilities at P.A.U. Farm, Ludhiana	10.00	1.50	1.60	1.60	0.60	1.60	—
A(P) 1-46 Development of Rice Research Substa- tion, Rauni, Patiala	6.50	1.35	1.30	1.30	—	1.30	—
A(P) 1-47 Development of Cotton Sub-station Goniana, district Faridkot	6.50	0.85	1.00	1.00	—	1.15	—
A(P) 1-48 Breeding of superfine quality (Basmati) rice varieties for Punjab	4.00	0.72	0.70	0.70	—	0.70	—
A(P) 1-49 Breeding for resistance to Karnal Bunt disease in wheat	7.00	—	1.80	1.80	—	1.50	—
A(P) 1-50 Strengthening of research facilities in soil microbiology	6.00	—	—	—	—	—	—
A(P) 1-51 Development of facilities for research and training in soil survey genesis and classification	6.50	—	—	—	—	—	—
A(P) 1-52 Surveillance of insect pests and Plant diseases	4.00	—	—	—	—	—	—
A(P) 1-53 Surveillance of insect pests and plant diseases Plant Pathology	5.00	—	—	—	—	—	—
A(P) 1-54 Epidemiology and control of Karnal Bunt of wheat	—	—	0.70	0.70	—	0.70	—
A(P) 1-55 Experimental Fruit Research Stations, Guraspur, Gangian and Bahadurgarh	10.00	—	1.50	1.50	—	1.50	—

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Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)	
			Approved outlay		Anticipated Expenditure	Total	Of which capital content
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
A(P) 1.56 Studies in tillage agronomy	3.50	—	—	—	—	—	—
A(P) 1.57 Crop association studies under multiple cropping	4.00	—	—	—	—	—	—
A(P) 1.58 Studies in economics of production management, marketing and processing of livestock and their products	6.00	—	—	—	—	—	—
A(P) 1.59 Study of demand for medium and long term credit needs of the Punjab farmers	0.60	—	—	—	—	—	—
A(P) 1.60 Research and development of mushroom cultivation	7.40	—	—	—	—	0.50	—
A(P) 1.61 Establishment of Regional Research and Multiplication Centre, Usmah, District Amritsar	—	—	1.00	1.00	—	1.00	—
A(P) 1.62 Establishment of Regional Research and Seed Multiplication Centre, Rampura Phool/ Talwandi Sabo	6.00	—	0.70	0.70	—	0.75	—
A(P) 1.63 Establishment of Vegetable Research Station, Jullundur	3.00	—	0.40	0.40	—	0.60	—
A(P) 1.64 Study of effect of selected motivation techniques on the adoption rate of farm technology by farmers	3.00	—	—	—	—	—	—
A(P) 1.65 Strengthening of research facilities in measurement, control and instrumentation	5.00	—	—	—	—	—	—
A(P) 1.66 Edible oil engineering research	4.00	—	—	—	—	—	—
A(P) 1.67 Food Engineering research	5.00	—	—	—	—	—	—
A(P) 1.68 Drying dehydration and preservation of food materials	5.00	—	—	—	—	—	—
A(P) 1.69 Evolving design criteria for efficient and economic execution of land and water management works	5.00	—	—	—	—	—	—
A(P) 1.70 Utilisation of farm and industrial wastes with particular emphasis on gobar and flyash	4.00	—	—	—	—	—	—
A(P) 1.71 Engineering properties of land resources and construction technology of rural housing	2.00	—	—	—	—	—	—
A(P) 1.72 Computer Centre	10.00	—	2.00	2.00	—	2.00	—
A(P) 1.73 Biochemical genetics of heterosis and related phenomenon for the development of economic traits	3.25	—	—	—	—	—	—
A(P) 1.74 Development of male sterility sources with disease resistance background in pearl millet	2.25	—	—	—	—	—	—

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Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay		Anticipated expenditure		Total	Of which capital content
			Total	Total	Of which capital content	Total		
1	2	3	4	5	6	7	8	
A(P) 1.75 Establishment of Institute of Post-Harvest Technology	8.00	—	1.50	1.50	—	1.75	—	
A(P) 1.76 Construction of Field Store	11.00	—	1.40	1.40	1.40	1.50	1.50	
A(P) 1.77 Socio-Economic Impact of Migrant Labourers in Punjab	—	—	0.36	0.36	—	—	—	
A(P) 1.78 A Project for preparation of programme Models for Integrated Rural Development Clusters in different Agro-climatic Regions of Punjab	—	—	0.40	0.40	—	—	—	
A(P) 1.79 Kandi Watershed and Area Development Research Project	—	—	3.00	3.00	—	3.50	—	
A(P) 1.80 Kandi Watershed and Area Development Project (Evaluation Cell)	—	—	1.25	1.25	—	1.50	—	
A(P) 1.81 Strengthening of the Agricultural Marketing Research in the Department of Economic and Sociology	—	—	1.50	1.50	—	1.76	—	
A(P) 1.82 A Study into the Economics of Farming and Cost of Production of Important Field Crops in Punjab	—	—	2.00	2.00	—	2.00	—	
A(P) 1.83 Strengthening of facilities for Maize Research at Ludhiana	—	—	0.60	0.60	—	0.60	—	
Total Research	536.65	65.23	109.40	109.40	2.00	114.10	1.50	
2. Agricultural Education Extension and Farmers Training :								
A(P) 2.1 Introduction of course in Business Management in Agriculture	8.55	1.53	1.70	1.70	—	1.75	—	
A(P) 2.2 Farm Women's Training Programme—one year Certificate Course in Home Science and Selected Agriculture Practices	8.75	1.75	1.95	1.95	—	2.10	—	
A(P) 2.3 Extension and improvement of library services	20.50	4.00	4.00	4.00	—	4.15	—	
A(P) 2.4 University administration scheme	12.50	2.50	2.60	2.60	—	2.75	—	
A(P) 2.5 Students welfare activities	17.50	3.50	3.50	3.50	—	4.50	—	
A(P) 2.6 Residences and Campus development	58.55	8.55	17.00	17.00	17.00	17.00	17.00	
A(P) 2.7 College of Agriculture	47.60	8.56	10.47	10.47	—	11.00	—	
A(P) 2.8 College of Basic Science and Humanities	57.00	6.76	10.63	10.63	—	11.00	—	
A(P) 2.9 College of Agricultural Engineering undergraduate, postgraduate programme	32.65	6.06	6.40	6.40	—	6.85	—	
A(P) 2.10 College of Home Science	20.36	2.30	5.32	5.32	—	5.50	—	
A(P) 2.11 University Press	2.00	—	0.50	0.50	—	0.50	—	

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Name of the Scheme/Project	Five year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay, (1980-81)	
			Approved outlay	Anticipated Expenditure		Total	Of which Capital content
				Total	Total			Of which Capital content
1	2	3	4	5	6	7	8
A(P) 2.12 College of Home Science at Faridkot (Kaoni)	50.00	8.19	8.00	8.00	6.00	9.00	5.00
A(P) 2.13 Diversification of education in College of Agriculture	44.05	—	5.00	5.00	2.80	5.43	—
A(P) 2.14 Facilities for training of middle level technicians in agriculture	11.59	—	1.10	1.10	—	1.10	—
A(P) 2.15 Practical training in agricultural engineering	20.00	—	3.04	3.04	—	3.05	—
A(P) 2.16 Hostel sports cultural activities and other student amenities	20.00	—	4.00	4.00	2.30	5.00	1.00
A(P) 2.17 Introduction of library teaching and strengthening of library services at research stations and library extension services	15.00	—	7.50	7.50	—	7.50	—
A(P) 2.18 Strengthening of University Administration	15.50	—	5.65	5.65	—	6.25	—
A(P) 2.19 Farm advisory service scheme at district level—Faridkot district	8.10	1.44	1.50	1.50	—	1.75	—
A(P) 2.20 Facilities for extension/education in crop varieties	1.85	0.33	0.40	0.40	—	0.45	—
A(P) 2.21 Provision of one extension specialist in home management and three extension specialists in child care food and nutrition and clothing and textiles	4.40	0.79	0.95	0.95	—	1.05	—
A(P) 2.22 Strengthening of Communication Centre	7.90	2.16	2.64	2.64	—	2.75	—
A(P) 2.23 Establishment of a Centre for in service training of extension personnel	10.00	—	1.50	1.50	—	2.00	—
A(P) 2.24 Establishment of training Unit in agricultural engineering	10.00	—	2.00	2.00	1.18	2.22	—
A(P) 2.25 Establishment of Plant disease clinic at P.A.U.	3.00	—	1.25	1.25	—	1.25	—
A(P) 2.26 Establishment of Integrated Home Science Extension Centre	6.00	—	2.00	2.00	—	—	—
Total Teaching and Extension	513.35	58.42	110.60	110.60	29.28	115.90	23.00
Grand Total P.A.U.	1,050.00	123.65	220.00	220.00	31.28	230.00	24.50

AGRICULTURE DEPARTMENT

3. Extension and Farmer's Training

A(P) 3.1 Higher Training of selected village level workers	7.00	0.93	1.70	1.70	—	2.00	—
A(P) 3.2 Deputation of village level workers							

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Name of the scheme/ Projects	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80		Proposed Outlay (1980-81)			
			Approved outlay		Anticipated expenditure		Total	Of which capital content
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
A(P) 3.3	Agricultural Information Service	2.52	2.20	—	—	—	—	—
A(P) 3.4	Foreign/In-service Training	6.60	0.43	1.70	1.70	—	1.70	—
A(P) 3.5	Training of farmers	10.00	0.90	1.80	1.80	—	1.80	—
A(P) 3.6	Higher Training and condensed courses of in-service ASI's/CI's	9.50	1.70	2.00	2.00	—	1.51	—
A(P) 3.7	Setting up of composite training centre in the State	150.00	—	20.00	20.00	—	—	—
A(P) 3.8	Farmer's training and education in HYVP running of farmers Training Centre at Patiala, Jullundur, Hoshiarpur, Bhatinda, Ropar and Gurdasur	—	—	—	—	—	10.07	—
A(P) 3.9	Farmers Training and education in HYVP running of Farmer's Training Centre-Grant-in-aid to Khalsa College, Amritsar	—	—	—	—	—	1.57	—
A(P) 3.10	Farmer's training and education in HYVP running of Farmer's Training Centre-Grant-in-aid to P. A. U., Ludhiana	—	—	—	—	—	1.56	—
A(P) 3.11	Promotion of scientific storage of foodgrains at domestic level	—	—	—	—	—	0.36	—
A(P) 3.12	Promotion of Scientific Storage of foodgrains at domestic level Grant-in-aid to Khalsa College, Amritsar	—	—	—	—	—	0.07	—
A(P) 3.13	Promotion of Scientific Storage of food grains at domestic level Grant-in-aid to PAU, Ludhiana	—	—	—	—	—	0.07	—
Total		185.62	6.16	27.20	27.20	—	20.71	—
4. Direction and Administration								
A(P) 4.1	Staff for implementing the plan schemes of Agriculture Department	16.20	15.78	—	—	—	—	—
A(P) 4.2	Re-organisation of Agricultural Extension/Administration, Re-organisation of Agriculture Department	100.00	—	30.00	30.00	—	15.00	—
A(P) 4.3	Strengthening of Planning Machinery at Headquarter level	3.80	—	0.80	0.80	—	0.80	—
Total		120.00	15.78	30.80	30.80	—	15.80	—
5. Land Reclamation								
A(P) 5.1	Reclamation of Alkaline/saline lands including culturable waste land	60.00	9.47	12.40	12.40	—	12.34	—
A(P) 5.2	Amendment of Alkali soils	1561.00	70.00	215.00	215.00	—	442.00	—
A(P) 5.3	Setting up of Land Reclamation Cell	128.00	1.52	34.00	34.00	—	8.00	—
Total		1749.00	80.99	261.40	261.40	—	462.34	—

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Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80		Proposed Outlay (1980-81)			
			Approved Outlay	Anticipated expenditure	Total	Of which capital content		
			Total	Total	Of which capital content	Of which capital content		
1	2	3	4	5	6	7	8	
6. Multiplication and Distribution of Seeds								
A(P) 6.1	Seed certification authority	1.50	1.48	—	—	—	2.05	—
A(P) 6.2	Seed Production and distribution	130.00	11.50	20.00	20.00	—	5.00	—
A(P) 6.3	Contribution to Land Development and Reclamation Corporation	100.00	25.00	15.00	15.00	15.00	15.00	15.00
A(P) 6.4	World Bank Seed Project Establishment of Punjab State Seed Corporation	31.00	—	10.00	10.00	10.00	10.00	10.00
A(P) 6.5	Expansion of Seed Testing Laboratories	3.90	0.17	1.00	1.00	—	2.65	—
Total		266.40	38.15	46.00	46.00	25.00	34.70	25.00
7. Manures and Fertilizers								
A(P) 7.1	Establishment of Soil Testing Laboratories including Mobile Testing Laboratory	90.00	6.83	12.00	12.00	—	14.70	—
A(P) 7.2	Fertilizer Demonstration and Training on cultivators field	6.00	0.94	1.40	1.40	—	1.50	—
A(P) 7.3	Subsidy for the off-time storage of fertilizer for timely availability (grant of subsidy on Agricultural Inputs)	100.00	—	50.00	50.00	—	50.00	—
Total		196.00	7.77	63.40	63.40	—	66.20	—
8. High Yielding Varieties Programme								
A(P) 8.1	IADP (Ferozepur, Sangrur, Gurdaspur, Faridkot and Amritsar)	6.33	5.85	—	—	—	—	—
A(P) 8.2	Integrated Rural Development Programme	294.00	12.07	50.00	50.00	—	50.00	—
A(P) 8.3	Scheme for Intensive Village Development Project in village Gaggar	—	—	—	—	—	—	—
Total		300.33	17.92	50.00	50.00	—	50.00	—
9. Plant Protection								
A(P) 9.1	Ground Spraying of Crops	595.00	61.13	80.00	80.00	—	60.00	—
A(P) 9.2	Loans for Aerial/Ground Spraying of Crops	1230.00	109.04	250.00	250.00	250.00	175.00	175.00
A(P) 9.3	Intensification of plant protection work	46.00	7.17	10.00	10.00	—	10.00	—
A(P) 9.4	Fertilizers Quality Control Laboratory	3.00	0.90	1.00	1.00	1.00	4.40	1.00

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80		Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated expenditure	Total	Of which capital content	
			Total	Total	Of which capital content	Of which capital content	
1	2	3	4	5	6	7	8
A(P) 9.5 Control of Weeds and Loose Smut (Sharing Basis)	200.00	—	30.00	30.00	—	28.00	—
A(P) 9.6 Quality Control of Inputs Insecticides Testing Laboratory	20.00	1.40	6.00	6.00	1.00	9.00	1.00
A(P) 9.7 Plant Protection work at Block-level	150.00	—	50.00	50.00	—	20.00	—
A(P) 9.8 Construction of helipads for aerial spray of cotton	100.00	—	20.00	20.00	20.00	20.00	20.00
A(P) 9.9 Scheme to enable the small farmers in eradication of pests/disease in endemic areas by Agro-chemical operations (sharing basis)	—	—	—	—	—	1.00	—
A(P) 9.10 Scheme regarding Bee-keeping	—	—	—	—	—	2.31	—
Total	2344.00	179.64	447.00	447.00	272.00	329.71	197.00
10. Commercial Crops							
A(P) 10.1 Development of Sugarcane around Sugar Factory areas	65.00	13.62	4.50	4.50	—	8.00	—
A(P) 10.2 Scheme for Maximising Groundnut production	6.32	6.32	—	—	—	—	—
A(P) 10.3 Integrated Cotton Development Project	16.70	5.45	6.80	6.80	—	15.16	—
A(P) 10.4 Intensification of Cotton	2.67	2.67	—	—	—	—	—
A(P) 10.5 Development of Sugarcane in Zira & Gurdaspur area for the Public Sector Sugar Mills	34.00	4.54	3.70	3.70	—	7.60	—
A(P) 10.6 Implementation of Cotton Ginning & Pressing Factory Act	0.13	0.10	—	—	—	—	—
A(P) 10.7 Development of Sugarcane	—	—	—	—	—	4.05	—
A(P) 10.8 Intensive Cotton District Programme including scheme for production of Nucleous Seed of Cotton (Sharing basis)	—	—	—	—	—	40.61	—
A(P) 10.9 Scheme for the Development of Oil-seed Intensive Oil-seed Development programme (sharing basis)	—	—	—	—	—	10.50	—
A(P) 10.10 Intensive Pulses Development programme (sharing basis)	—	—	—	—	—	5.00	—
Total	124.82	32.70	15.00	15.00	—	90.92	—

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs in lakhs)

Name of the scheme /Project	Five year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)	
			Approved outlay	Anticipated Expenditure	Total	Of which capital content	
			Total	Total			of which capital content
1	2	3	4	5	6	7	8
11 Small Farmers and Agricultural Labourers							
A(P) 11.1 Scheme for Small Farmers and Agricultural Labourers							
(i) State S.F.D.A's	325.00	50.93	75.00	75.00	—	86.00	—
(ii) Central S.F.D.A's	—	—	—	—	—	109.00	—
Total	325.00	50.93	75.00	75.00	—	195.00	—
12. Agricultural Engineering							
A(P)12.1 Establishment of Testing Maintenance & standard certification of Agricultural Machinery	66.67	—	20.00	20.00	—	6.00	—
A(P) 12.2 Agro-Industries Corporation	30.00	10.00	6.00	6.00	6.00	6.00	6.00
A(P) 12.3 Strengthening of Engineering section	7.31	4.72	—	—	—	—	—
A(P) 12.4 Scheme for the Intensification of Farm-Machinisation and popularisation of improved agricultural implements	—	—	—	—	—	9.00	—
A(P) 12.5 Scheme for the provision of supply of improved farm storage to the farmers	—	—	—	—	—	5.00	—
Total	103.98	14.72	26.00	26.00	6.00	26.00	6.00
13. Agricultural Economics and Statistics							
A(P) 13.1 Co-ordination scheme of sample survey for Methodological/Investigation into HYVP	0.30	0.30	—	—	—	—	—
A(P) 13.2 Field staff of statistical wing of Agricultural Department	5.00	—	1.20	1.20	—	1.21	—
A(P) 13.3 Timely reporting revised calendar operation of improved crop statistics (sharing basis)	—	—	—	—	—	1.66	—
Total	5.30	0.30	1.20	1.20	—	2.87	—
14. Warehousing							
A(P) 14.1 Construction and operation of warehouses	125.00	30.00	40.00	40.00	40.00	30.00	30.00
A(P) 14.2 Small size storage facilities at farm level	12.00	—	1.00	1.00	—	—	—
Total	137.00	30.00	41.00	41.00	40.00	30.00	30.00

ANNUAL PLAN : 1980-81
 STATEMENT II : SCHEMES
 HEAD : AGRICULTURE

(Rs. in Lakhs)

Name of the scheme/Project	Five year Plan (1978—83) Outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)	
			Approved Outlay		Anticipated Expenditure	Total	Of which capital content
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
15. Agricultural Marketing and Quality Control							
A(P) 15.1 Strengthening of Marketing section	1.53	1.46	—	—	—	—	—
A(P) 15.2 Grading of foodgrains and oilseeds in Regulated markets	25.00	2.54	13.00	13.00	—	4.75	—
A(P) 15.3 Development of Mandis	620.00	171.06	120.00	120.00	113.00	50.00	50.00
Total	646.53	175.06	133.00	133.00	113.00	54.75	50.00
16—Horticulture							
A(P) 16.1 Establishment of Grape-Nursery-cum-demonstration Centre and Strengthening of grape-vine cultivation	2.25	1.95	—	—	—	—	—
A(P) 16.2 Creation of Separate Directorate of Horticulture	30.00	—	6.00	6.00	—	6.00	—
A(P) 16.3 Development of Horticulture in the Punjab State	240.00	11.57	54.85	54.85	30.00	15.00	10.00
A(P) 16.4 Development of Horticulture in Shi-valik Hills	19.00	3.20	4.15	4.15	—	6.40	—
A(P) 16.5 Package Programme on Citrus	0.27	0.03	0.10	0.10	—	1.25	—
A(P) 16.6 Demonstration-cum-Fruit Preservation Unit at Hoshiarpur and Strengthening of existing Unit at Patiala	10.00	—	4.00	4.00	2.50	4.00	—
A(P) 16.7 Development of Horticulture around Pathankot areas of Gurdaspur	10.00	—	5.00	5.00	2.25	5.30	1.00
A(P) 16.8 Development of Horticulture in the Kandī Area Water-shed (World Bank)	160.00	—	23.90	23.90	13.10	22.07	4.00
A(P) 16.9 Direction and Administration Integrated Rural Development Programme	—	—	—	—	—	10.00	—
A(P) 16.10 High Yielding Variety Programme . Intensive Agril. District Programme at Ferozepur and Sangrur	—	—	—	—	—	0.60	—
A(P) 16.11 Subsidizing the rate of interest on loan from Commercial Bank and subsidy on capital investment	—	—	—	—	—	6.00	—
A(P) 16.12 Popularization of Mushroom cultivation	—	—	—	—	—	1.45	—
A(P) 16.13 Cultivation of aromatic and medicinal plants	—	—	—	—	—	3.84	—
A(P) 16.14 Beautification of Public Places	—	—	—	—	—	3.51	—
A(P) 16.15 Beautification of Kanjli Tourist Spot	—	—	—	—	—	0.96	—
A(P) 16.16 Establishment of 5 Community Canning Centres	—	—	—	—	—	5.00	—
A(P) 16.17 Establishment of Fruit Preservation Laboratory at Faridkot	—	—	—	—	—	2.62	—

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in Lakhs)

Name of the scheme/Project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)	
			Approved outlay	Anticipated Expenditure	Total	Of which capital content	
			Total	Total of which capital content			
1	2	3	4	5	6	7	8
A(P) 16.18 Development of Pear Cultivation in Jullundur District	—	—	—	—	—	3.00	—
A(P) 16.19 Development of Ber Cultivation in Sangrur District	—	—	—	—	—	3.00	—
Total Horticulture Department	471.52	16.75	98.00	98.00	47.85	100.00	15.00
17. Agricultural Credit							
A(P) 17.1 Support to ordinary and special debenture of LMB—							
(i) Agriculture Deptt.	225.00	68.66	86.00	86.00	86.00	75.00	75.00
(ii) Soil Conservation Deptt.	350.00	11.70	50.00	50.00	50.00	20.00	20.00
A(P) 17.2 Purchase of debenture of SCLMB for the purchase of tractors and agricultural implements	100.00	—	10.00	10.00	10.00	65.00	65.00
A(P) 17.3 ARC scheme for the reclamation of alkaline/saline soils	475.00	4.53	34.00	34.00	34.00	8.00	8.00
A(P) 17.4 Grant of loans for grape cultivation and Construction of bowers under ARC scheme debenture support for Horticulture	38.00	—	5.00	5.00	5.00	5.00	5.00
A(P) 17.5 Gobar Gas Plant debenture support	26.00	—	5.00	5.00	5.00	2.00	2.00
A(P) 17.6 Dairy Development	40.00	—	5.00	5.00	5.00	5.00	5.00
A(P) 17.7 Poultry, Piggery, sheep breeding, Cattle feed processing unit etc.	96.00	—	5.00	5.00	5.00	5.00	5.00
Total	1350.00	84.89	200.00	200.00	200.00	185.00	185.00
8. Vegetables							
A(P) 18.1 Production and Multiplication of seed Potato	120.00	16.90	35.00	35.00	20.00	15.00	10.00
A(P) 18.2 Intensification of vegetable production	1.17	0.83	—	—	—	—	—
A(P) 18.3 Development of vegetable in Rural Area	8.00	—	2.00	2.00	—	2.00	—
A(P) 18.4 Scheme for the grant of permission of new coldstorage in the State and implementation of Punjab cold storage Control order, 1979	—	—	—	—	—	4.00	—
Total	129.17	17.73	37.00	37.00	20.00	21.00	10.00
9. Employment Promotion Programme							
A(P) 19.1 Setting up of 300 Agro-Service centres payment of interest subsidy	80.00	—	21.00	21.00	21.00	25.00	3.00
A(P) 19.2 Seed Margin Money assistance to entrepreneurs for setting up of Agro-Service centres	20.00	—	4.00	4.00	4.00	—	—
Total	100.00	—	25.00	25.00	25.00	25.00	3.00
10. Others							
A(P) 20.1 Gobar Gas Plants	—	—	—	—	—	10.00	—
A(P) 20.2 Scheme for the award of prizes to the best farmers	—	—	—	—	—	10.00	—
Total	—	—	—	—	—	20.00	—
Total Agriculture Department	8554.67	769.49	1577.00	1577.00	748.85	1730.00	521.00
Grand Total	9604.67	893.14	1797.00	1797.00	780.13	1960.00	545.00

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : MINOR IRRIGATION

(Rs, in lakhs)

Name of Project/Scheme	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay 1980-81	
			Approved outlay	Anticipated Expenditure		Total	Of which Capital content
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
MINOR IRRIGATION							
1. Agriculture Department—							
(a) Investigation and Development of Ground Water Resources							
MI(A) 1.1	Strengthening of Boring Section Ground Water Survey and Investigation	3.24	3.19	—	—	—	—
MI(A) 1.2	Setting up of Ground Water Cell	1.95	1.80	—	—	—	—
MI(A) 1.3	Ground Water Cell (Strengthening of Ground Water and surface water organisation)	40.22	—	9.20	9.20	—	10.00
Total		45.41	4.99	9.20	9.20	—	10.00
(b) Construction and deepening of wells and tanks							
MI(A) 1.4	Grant of subsidy for sinking/repair of wells	1.00	0.01	0.30	0.30	—	0.20
MI(A) 1.5	Grant of subsidy for sinking/repair of tubewells/pumping sets	2.00	0.31	0.50	0.50	—	0.30
Total		3.00	0.32	0.80	0.80	—	0.50
Total Minor Irrigation—Agriculture Department		48.41	5.31	10.00	10.00	—	10.50
2. Irrigation Department—							
MI(I) 2.1	Integrated utilisation of water resources	102.50	18.32	20.00	20.00	20.00	20.00
MI(I) 2.2	Sinking of tubewells in different blocks	35.70	8.41	8.00	8.00	8.00	5.00
MI(I) 2.3	Conversion of exploratory bores into production tubewells for Irrigation	17.40	—	7.00	7.00	7.00	—
MI(I) 2.4	Lift and flow irrigation schemes	63.50	10.33	14.00	14.00	14.00	3.00
MI(I) 2.5	Construction of ghats on canals	9.80	2.19	2.00	2.00	2.00	2.00
MI(I) 2.6	Sprinkler irrigation schemes	33.50	—	5.00	5.00	5.00	2.00
MI(I) 2.7	Underground system for Government tubewells	6.00	—	4.00	4.00	4.00	—
MI(I) 2.8	Strengthening of surface /ground water (Minor Irrigation) Organisation	—	—	—	—	—	7.50
Total Minor Irrigation—Irrigation Department		268.00	39.25	60.00	60.00	60.00	39.50

ANNUAL PLAN : 1980-81

STATEMENT II : SCHEMES

HEAD : MINOR IRRIGATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay 1980-81	
			Approved Outlay	Anticipated expenditure		Total	Of which capital content
				Total	Total			Of which Capital content
1	2	3	4	5	6	7	8
3. Punjab State Tubewell Corporation—							
MI(I) 3·1 Punjab State Tubewell Corporation ..	2284·19	390·00	450·00	450·00	450·00	758·00	758·00
(i) Tubewells ..	561·19	90·00	130·00	130·00	130·00	136·40	136·40
(ii) C.A.D. ..	1723·00	300·00	320·00	320·00	320·00	622·00	622·00
Total Minor Irrigation ..	878·60	134·56	200·00	200·00	190·00	186·40	175·90
(PSTC (Tubewells) Agriculture Deptt. & Irrigation Deptt.)							
Grand Total (Minor Irrigation and C.A.D.)	2601·00	434·56	520·00	520·00	510·00	808·40	797·90

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD: SOIL CONSERVATION

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved outlay	Anticipated expenditure	Of which Capital Content	Total	Of which Capital content
			Total	Total			
1	2	3	4	5	6	7	8
SOIL CONSERVATION							
1. Soil Conservation and Engineering Department							
Direction and Administration							
SC(A) 1·1	Strengthening of Soil Conservation Organisation	5·00	4·31	—	—	—	—
Total		5·00	4·31	—	—	—	—
2. Soil Survey and Testing							
SC(A) 2·1	Detailed soil survey for command and problem areas	23·00	3·50	4·00	4·00	—	5·00
SC(A) 2·2	Strengthening of State Soil Survey Organisation	28·00	1·22	4·00	6·85	—	7·00
Total		51·00	4·72	8·00	10·85	—	12·00
3. Education, Research and Training							
SC(A) 3·1	Training, research and demonstration	33·00	1·21	4·00	4·00	—	4·00
SC(A) 3·2	Conservation irrigation techniques	42·00	—	6·00	6·00	—	6·00
SC(A) 3·3	Applied research on soil conservation practices and methods	20·00	—	4·00	4·00	—	4·00
Total		95·00	1·21	14·00	14·00	—	14·00
4. Soil Conservation Schemes							
SC(A) 4·1	Soil and water conservation on watershed basis	535·00	88·23	130·00	130·00	100·00	145·00
SC(A) 4·2	Pilot Project on development of Kandi areas with World Bank assistance	216·00	—	33·70	33·70	25·00	42·00
SC(A) 4·3	Soil Conservation works in border areas	124·00	19·31	24·00	24·00	20·00	24·00
SC(A) 4·4	Land development work in command areas	588·00	93·00	62·30	54·45	20·00	20·00
SC(A) 4·5	Soil conservation works in central districts on IRD pattern	416·00	13·35	42·00	42·00	—	42·00
SC(A) 4·6	Development of bet area	40·00	—	2·00	2·00	2·00	4·00
SC(A) 4·7	Scheme for ravine reclamation	40·00	—	3·00	3·00	3·00	5·00
SC(A) 4·8	Setting up of Soil Conservation Corporation	4·00	—	1·00	1·00	—	1·00
SC(A) 4·9	Soil and Water Conservation in the catchment of River/Valley Projects	30·00	—	—	5·00	3·50	11·00
Total		1993·00	213·89	298·00	295·15	173·50	294·00
Total : Soil Conservation and Engineering Department		2144·00	224·13	320·00	320·00	173·50	320·00

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : SOIL CONSERVATION

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980.81)		
			<i>Approved outlay</i>	<i>Anticipated expenditure</i>		Total	Of which Capital content	
			Total	Total	Of which Capital content			
1	2	3	4	5	6	7	8	
11. Forest Department—Soil Conservation Scheme								
SC(F) 1	Soil and Water Conservation on water- shed basis	124.00	7.67	20.00	20.00	18.50	20.00	18.50
	Total ..	124.00	7.67	20.00	20.00	18.50	20.00	18.50
III. Irrigation Department—Soil Conservation Scheme								
SC(I) 1	Reclamation of rakkar and thur areas	4.50	4.06	—	—	—	—	—
	Total ..	4.50	4.06	—	—	—	—	—
	Grand Total ..	2272.50	235.86	340.00	340.00	192.00	340.00	216.50

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD : FOOD

(Rs. in Lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure	Of which capital content	Total	Of which capital content	
			Total	Total				
1	2	3	4	5	6	7	8	
Food								
FD-1	Open storage complexes	.. {	3.11	2.00	2.00	2.00	—	—
FD-2	Construction of storage Godowns	.. {	9.89	3.00	3.00	3.00	5.00	5.00
	Total	..	17.00	13.00	5.00	5.00	5.00	5.00

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES
HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
ANIMAL HUSBANDRY								
1. Direction and Administration								
AH 1.1	Directorate of Animal Husbandry— Creation of Planning Cell	3.20	0.37	0.70	0.70	—	0.80	—
AH 1.2	Directorate of Animal Husbandry— Creation of Information and Publicity Cell	2.00	—	0.50	0.50	—	0.50	—
AH 1.3	Intensive Cattle Development Projects— Strengthening of offices of District Animal Husbandry Officers and Project Officers	2.80	—	0.80	0.60	—	1.70	—
AH 1.4	Directorate of Animal Husbandry— Project for Institutional Finance	1.00	—	—	—	—	—	—
AH 1.5	Establishment of Animal Husbandry and Dairy Development Board	—	—	—	—	—	—	—
Total		9.00	0.37	2.00	1.80	—	3.00	—
2. Veterinary Services and Animal Health								
AH 2.1	State Livestock Sanitary Laboratory	—	—	—	—	—	—	—
AH 2.2	Opening of new Veterinary Dispensaries	24.50	24.50	—	—	—	—	—
AH 2.3	Strengthening and upgrading of existing Veterinary Dispensaries	11.70	11.70	—	—	—	—	—
AH 2.4	Establishment of Mobile Veterinary Units	0.06	0.06	—	—	—	—	—
AH 2.5	Punjab Veterinary Vaccine Institute, Ludhiana	8.92	2.93	1.50	1.50	—	7.25	—
AH 2.6	Prophylactic vaccination against Foot and Mouth Disease	1.00	0.90	—	—	—	1.00	—
AH 2.7	Expansion of State Livestock Sanitary Laboratory	0.57	0.57	—	—	—	—	—
AH 2.8	Expansion of State Veterinary Medical Store	6.40	0.64	1.00	0.93	0.50	1.20	0.75
AH 2.9	Modernisation of Slaughter Houses	—	—	—	—	—	—	—
AH 2.10	All India Coordinated Research Project for Epidemiological Studies on Foot and Mouth	0.40	0.08	—	0.10	—	0.15	—
AH 2.11	Foot and Mouth Disease Control Pro- gramme -vaccination of cattle and buffaloes in selected areas	10.00	1.80	2.00	1.50	—	1.50	—
AH 2.12	Setting up of 3 Polyclinics	15.00	—	—	—	—	—	—
AH 2.13	Setting up of a State Veterinary Council (State's share)	0.50	—	0.15	—	—	0.15	—
AH 2.14	Setting up of Punjab Meat Processing and Marketing Corporation	2.00	—	—	—	—	—	—

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved outlay	Anticipated expenditure		Total	Of which capital content
				Total	Total			Of which capital content
1	2	3	4	5	6	7	8
AH 2.15 Establishment of Check Posts under the Rinderpest Eradication Programme	0.26	—	—	0.26	0.26	—	—
Total	81.31	43.18	4.65	4.29	0.76	11.25	0.75
3. Veterinary Education Research							
AH 3.1 Grant-in-aid to Panjab Agricultural University, Ludhiana	240.00	37.65	50.00	54.00	—	50.00	—
Total	240.00	37.65	50.00	54.00	—	50.00	—
4. Investigation and Statistics							
AH 4.1 Integrated survey in livestock (State's share)	5.30	0.77	1.05	1.77	—	1.98	—
AH 4.2 Creating of Statistical Units at the existing Cattle Breeding Farms	0.16	0.16	—	—	—	—	—
AH 4.3 Pilot studies for estimation of death and birth rates in bovines	—	—	—	—	—	—	—
AH 4.4 Estimation of structure and indices of cost of production of livestock Production (State's share)	1.75	—	—	—	—	—	—
AH 4.5 Estimation of production, assessment of livestock and development programme of cultivated fodder (State's share)	2.25	—	0.70	0.66	—	1.00	—
Total	9.46	0.93	1.75	2.43	—	2.98	—
5. Cattle Development							
AH 5.1 Jersey Cattle Breeding Farm, Ropar	0.83	0.83	—	—	—	—	—
AH 5.2 Holstein Friesian Cattle Breeding Farm, Mattewara	—	—	—	—	—	—	—
AH 5.3 ICDP Scheme for Semen Bank, Ropar, Kapurthala and Fodder Bank, Mattewara	0.24	0.24	—	—	—	—	—
AH 5.4 Indo-Swiss Project, Patiala	—	—	—	—	—	—	—
AH 5.5 Indo-Swiss Project, Patiala (2nd phase)	72.13	54.34	14.00	7.75	2.00	4.00	1.00
AH 5.6 Establishment of Semen Banks, Ropar/ Kapurthala	2.36	2.36	—	—	—	—	—
AH 5.7 Intensive cross-breeding of indigenous cattle with imported Frozen Semen-Frozen Semen Station, Amritsar	1.33	1.33	—	—	—	—	—
AH 5.8 Training of Farmers in the technique of rearing, feeding, breeding and management of exotic/cross-bred cattle	6.40	1.50	1.25	1.93	—	1.25	—
AH 5.9 Establishment of Intensive Cattle Development Project	3.45	3.45	—	—	—	—	—

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved outlay	Anticipated expenditure	expenditure	Total	Of which capital content
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
AH 5.10 Assistance to Small/Marginal Farmers and Agricultural Labourers for rearing of cross-bred heifers (State's share)	80.00	6.73	9.30	13.00	—	13.62	—
AH 5.11 Rounding up of Wild and Stray Cattle	3.76	0.51	1.00	2.25	—	1.65	—
AH 5.12 Setting up of a Sahiwal Cattle Breeding Farm for production of cross-bred bulls	15.00	—	—	—	—	—	—
AH 5.13 Govt. Holstein Friesian Cattle Breeding Farm Mattewara (Expansion)	7.77	3.01	1.00	0.86	0.50	2.35	0.75
AH 5.14 Frozen Semen Station, Amritsar (Expansion)	5.00	—	—	—	—	—	—
AH 5.15 Setting up of Bull Stations-cum-Semen Banks and L.N. Plants	30.00	—	3.00	3.00	3.00	4.00	2.00
AH 5.16 Opening of Livestock Welfare Centres	25.00	—	—	—	—	—	—
AH 5.17 Setting up of Small Cattle Breeding Units of 10 cows	—	—	—	—	—	—	—
AH 5.18 Financial support for the development of Gaushalas in the State	5.00	—	—	—	—	—	—
AH 5.19 Kule Majra Co-op. Farm	50.00	5.86	10.00	14.70	14.70	8.00	8.00
AH 5.20 Training of farmers in Artificial Insemination technique	2.00	—	—	—	—	—	—
AH 5.21 Implementation of Poultry, Piggery & Sheep Production Programmes through Small/Marginal Farmers & Agricultural labourers	70.00	—	—	14.00	—	10.29	—
Total	380.27	80.16	39.55	57.49	20.20	45.16	11.75
6. Poultry Development							
AH 6.1 Intensive Egg & Poultry Production -cum-Marketing Centre, Kot Kapura	—	—	—	—	—	—	—
AH 6.2 Additional Production of day old pull-ets at State Poultry Farms	11.50	1.85	1.00	3.00	3.00	6.40	2.00
AH 6.3 Strengthening of Poultry extension services	5.00	—	—	—	—	—	—
AH 6.4 Establishment of Poultry Estates in selected localities for providing employment to educated unemployed	5.00	—	—	—	—	3.00	—
AH 6.5 Grant-in-aid to Punjab Poultry Corporation for the marketing of eggs, Egg Tray Project-Expansion of Feed Compounding activities, storage of eggs & risk insurance charges	18.00	9.00	9.00	9.00	—	—	—
AH 6.6 Purchase of Special Development Debentures for Poultry Programme	—	—	—	—	—	—	—
Total	39.50	10.85	10.00	12.00	3.00	9.40	2.00

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved outlay	Anticipated expenditure	Of which capital content	Total	Of which capital content
			Total	Total			
1	2	3	4	5	6	7	8
7. Sheep and Wool Development							
AH 7.1	Sheep Breeding Farm, Dhar	—	—	—	—	—	—
AH 7.2	Expansion & strengthening of Wool Grading-cum-Marketing Centre, Ludhiana	0.23	0.23	—	—	—	—
AH 7.3	Sheep Breeding Farm, Dhar (Expansion)	0.67	0.67	—	—	—	—
AH 7.4	Strengthening of Intensive Sheep & Wool Development Centres	1.70	1.70	—	—	—	—
AH 7.5	Setting up of a Sheep & Wool Development Corporation	10.00	—	10.00	—	—	—
AH 7.6	Supply of exotic cross-bred rams to bonafide sheep breeders	0.50	—	0.50	—	—	—
AH 7.7	Supply of shearing & spraying equipment at the Sheep & Wool Extension Centres	2.00	—	2.00	1.14	—	—
AH 7.8	Supply of Exotic /cross-bred rams for cross-breeding at Sheep & Wool Extension Centres	—	—	—	—	—	0.50
AH 7.9	Provision of intensive Health cover through Sheep & Wool Extension Centres	—	—	—	—	—	2.00
Total		15.10	2.60	12.50	1.14	—	2.50
8. Piggery Development							
AH 8.1	Expansion of Pig Breeding Farms/Units	12.70	2.31	2.00	2.00	0.50	2.27
AH 8.2	Establishment of new Pig Breeding Farms	11.85	5.62	3.00	2.94	2.00	3.75
AH 8.3	Strengthening & expansion of Pig Marketing Facilities	1.00	—	—	—	—	—
AH 8.4	Aid to Punjab Poultry Corporation for transportation of Pigs (State's share)	—	—	—	—	—	—
AH 8.5	Establishment of Fattening Unit at the Pig Breeding Farm, Kharar	—	—	—	—	—	1.25
Total		25.55	7.93	5.00	4.94	2.50	7.27
9. Other Livestock Development							
AH 9.1	Evaluation of performance of Buffalo Bulls in field conditions	27.86	—	2.00	2.70	—	4.17
AH 9.2	Rearing of Male Buffalo calves	—	—	2.00			

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved outlay	Anticipated expenditure		Total	Of which capital content
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
AH 9.3 Integrated Buffalo Breeding & Sire Evaluation Programme	—	—	—	—	—	—	—
AH 9.4 Conservation of high yielding Buffaloes Maintenance of herd Books of Murrah and Nili Buffaloes	—	—	3.00	—	—	—	—
AH 9.5 Kandi Water Shed & Area Development Project	227.20	—	23.00	1.00	—	5.00	—
AH 9.6 Setting up of Polytechnics of Animal Husbandry & Agricultural Training	10.00	—	2.00	2.00	2.00	5.00	5.00
AH 9.7 Integrated Rural Development Programme	368.34	52.20	85.00	106.06	—	90.00	—
AH 9.8 Training for Self-Employment-Training in Poultry, Piggery & Dairying	0.62	0.62	—	—	—	—	—
AH 9.9 Training to Matriculates as Pashu Rakshaks-Margin money & assistance to trained persons for the purchase of Veterinary Kits	2.35	2.35	—	—	—	—	—
Total	636.37	55.17	117.00	111.76	2.00	104.17	5.00
10. Feed & Fodder Development							
AH 10.1 Establishment of Forage Planting Material Production Farm, Mattewara	2.04	2.04	—	—	—	—	—
AH 10.2 Intensification of existing Forage Planting Material Production Farm	11.10	0.99	2.55	1.69	0.50	3.75	1.00
AH 10.3 Fodder Seed Production through registered growers	1.24	1.24	—	—	—	—	—
AH 10.4 Creation of Cell for Feed & Fodder at State level	2.56	0.50	1.00	0.46	—	0.52	—
AH 10.5 Production & Distribution of Fodder Seeds	—	—	—	—	—	—	—
AH 10.6 Development of Feed & Fodder Resources	—	—	—	—	—	—	—
AH 10.7 Production & Popularisation of newly evolved Fodder varieties	46.50	—	14.00	8.00	—	10.00	—
Total	63.44	4.77	17.55	10.15	0.50	14.27	1.00
Grand Total	1,500.00	243.61	260.00	260.00	28.96	250.00	21.80

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : DAIRYING AND MILK SUPPLY

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure	Total	Of which capital content		
			Total	Total			Of which capital content	
1	2	3	4	5	6	7	8	
DAIRYING AND MILK SUPPLY								
1. Direction and Administration								
DM 1.1	Strengthening of Headquarter staff	6.25	1.20	1.50	1.50	—	1.00	—
	Total	6.25	1.20	1.50	1.50	—	1.00	—
2. Dairy Development								
DM 2.1	Cattle Feed Factories	—	—	—	—	—	—	—
DM 2.2	Dairy Extension Units for intensification of milk production	66.34	6.15	19.00	19.00	9.00	12.50	—
DM 2.3	Punjab Dairy Development Corporation	5.00	—	5.00	5.00	5.00	2.00	2.00
DM 2.4	Operation Flood Phase-II	32.00	—	5.00	5.00	5.00	—	—
DM 2.5	Special employment programme—introduction of scientific and commercial milk production	123.02	1.37	24.00	24.00	4.20	10.00	2.00
	Total	226.36	7.52	53.00	53.00	23.20	24.50	4.00
3. Education and Training								
DM 3.1	Training of technical personnel	5.00	0.24	0.80	0.80	—	0.50	—
	Total	5.00	0.24	0.80	0.80	—	0.50	—
4. Milk Supply Scheme								
DM 4.1	Establishment of Rural Distribution Centres	20.00	—	—	—	—	—	—
DM 4.2	Establishment of Composite Milk Plant, Gurdaspur	—	—	—	—	—	—	—
DM 4.3	Establishment of Composite Milk Plant, Mohali	—	—	—	—	—	—	—
DM 4.4	Establishment of Milk Chilling-cum-Demonstration Centres, in border, sub-montane, bet and other backward areas	127.40	7.75	22.42	22.42	22.42	34.00	34.00
DM 4.5	Milk Plant, Ludhiana—completion	—	—	—	—	—	—	—
DM 4.6	Milk Plant, Bhatinda—completion	—	—	—	—	—	—	—
	Total	147.40	7.75	22.42	22.42	22.42	34.00	34.00
5. Other Expenditure								
DM 5.1	Assistance to Dairy Cooperatives	26.40	5.28	5.28	5.28	—	—	—
DM 5.2	Supply of subsidised milk to weaker section	25.00	5.00	5.00	5.00	—	5.00	—
DM 5.3	Integrated Rural Development Programme	88.00	—	10.00	10.00	—	5.00	—
DM 5.4	Subsidy for Milk Chilling-cum-Demonstration Centres in border, sub-montane, bet and backward areas	32.00	—	—	—	—	—	—
	Total	171.40	10.28	20.28	20.28	—	10.00	—
	Grand Total	556.41	26.99	98.00	98.00	45.62	70.00	38.00

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : FISHERIES

(Rs. in lakhs)								
Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
FISHERIES								
1. Direction and Administration								
FH 1.1	Strengthening of staff at headquarters and in sub-offices	8.00	—	2.00	0.50	—	1.00	—
Total		8.00	—	2.00	0.50	—	1.00	—
2. Fish Farms								
FH 2.1	Completion of Fish Seed Nurseries/ Farms and construction of Fish Seed Farms in the remaining districts	66.94	10.54	11.00	20.30	19.50	13.50	12.50
FH 2.2	Fish Seed collection from bundhs and natural sources	—	—	—	—	—	—	—
FH 2.3	Establishment of Aquarium-cum-Museum	0.23	0.21	—	—	—	—	—
FH 2.4	Fish culture in Shah Nahar Reservoir	12.00	4.00	1.00	0.50	—	1.00	0.75
Total		79.17	14.75	12.00	20.80	19.50	14.50	13.25
3. Research, Education and Training								
FH 3.1	Establishment of Hydrobiological Research Station, Cage Culture and Mobile Fisheries Field Laboratory—Extension and Mobile Laboratories	12.75	2.51	3.00	1.00	—	3.00	—
FH 3.2	Fisheries information, extension and training—pilot Project	7.00	—	2.00	1.00	—	2.00	—
FH 3.3	Creation of conservation division for riverine fisheries and head works—Development of riverine fisheries	7.98	2.02	2.00	—	—	—	—
Total		27.73	4.53	7.00	2.00	—	5.00	—
4. Others								
FH 4.1	Development of fisheries in Kandi Area, Water Shed and Area Development Project (World Bank Assisted)	—	—	—	—	—	—	—
FH 4.2	Promotion of intensive fish culture by providing assistance to private/cooperative sectors (IRDP)	38.80	0.80	5.00	3.00	—	4.00	—
FH 4.3	Exploitation and marketing of fish from stocked ponds	6.00	—	2.00	—	—	—	—
FH 4.4	Creation of Economic and Statistical Wing in the Fisheries Department	4.00	—	1.00	0.20	—	0.50	—
FH 4.5	Survey of fisheries potential in the State	—	—	—	—	—	—	—

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : FISHERIES

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
FH 4.6	Opening of fish snack counters	—	—	—	—	—	—	—
FH 4.7	Punjab Fisheries Development Corporation	—	—	—	—	—	—	—
FH 4.8	Demonstration of fish culture	4.00	—	1.00	0.50	—	1.00	—
FH 4.9	Assistance to Fish Farmers Development Agency, Gurdaspur, Jullundur, Ludhiana and Amritsar	—	—	—	3.00	—	4.00	—
	Total	52.80	0.80	9.00	6.70	—	9.50	—
	Grand Total	167.70	20.08	30.00	30.00	19.50	30.00	13.25

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : FORESTS

(Rs in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
FORESTS								
1. Forest Research								
FT 1.1	Forest Research	6.00	0.75	1.15	2.15	—	2.50	—
Total		6.00	0.75	1.15	2.15	—	2.50	—
2. Education and Training								
FT 2.1	Training of staff	5.00	0.75	0.95	0.95	—	1.00	—
Total		5.00	0.75	0.95	0.95	—	1.00	—
3. Forest Conservation and Development								
FT 3.1	Development of grass lands and pastures	2.00	—	0.50	0.50	—	—	—
FT 3.2	Development of forests on private lands	44.00	0.48	3.00	16.00	—	18.00	—
FT 3.3	Planting along link roads on private lands	16.00	—	3.00	3.00	—	—	—
Total		62.00	0.48	6.50	19.50	—	18.00	—
4. Plantation Schemes								
FT 4.1	Plantation of Sisso, Babul, Eucalyptus Chil, Poplar etc.	333.70	53.57	50.00	69.00	—	80.00	—
FT 4.2	Pilot Project of mixed plantations on waste lands/Panchayat land	—	3.00	5.00	—	—	—	—
FT 4.3	Development of Social Forestry-Reforestation of degraded forests	—	8.70	10.00	—	—	—	—
Total		333.70	65.27	65.00	69.00	—	80.00	—
5. Farm Forestry								
FT 5.1	Farm Forestry	172.00	16.90	22.00	18.77	—	22.00	—
Total		172.00	16.90	22.00	18.77	—	22.00	—
6. Communication and Buildings								
FT 6.1	Construction of buildings	25.00	2.99	5.00	4.89	4.89	5.00	5.00
Total		25.00	2.99	5.00	4.89	4.89	5.00	5.00
7. Preservation of Wild Life								
FT 7.1	Preservation of Wild Life	28.00	3.12	5.00	4.00	—	6.00	—
FT 7.2	Establishment of Zoological Park	198.00	42.12	35.00	33.00	15.00	38.00	15.00
Total		226.00	45.24	40.00	37.00	15.00	44.00	15.00

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : FORESTS

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80		Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure	Total	Of which capital content	
			Total	Total	Of which capital content	Total	Of which capital content
1	2	3	4	5	6	7	8
8. Other Expenditure							
FT 8.1 Share capital contribution to forest corporation	25.00	—	3.00	0.79	—	—	—
FT 8.2 Environmental forestry	6.00	0.43	0.50	0.50	—	—	—
FT 8.3 Kandi Water Shed Area Development Project	300.00	—	25.00	15.55	—	—	—
FT 8.4 Acquisition of land in Shivaliks	136.50	—	4.60	4.60	—	—	—
FT 8.5 Demarcation of forests	7.00	—	1.00	1.00	—	2.00	—
Total	474.50	0.43	34.10	22.44	—	2.00	—
9. Survey of Forest Resources							
FT 9.1 Establishment of Planning and Statistical Cell	1.30	—	0.30	0.30	—	0.50	—
Total	1.30	—	0.30	0.30	—	0.50	—
Grand Total	1305.50	132.81	175.00	175.00	19.89	175.00	20.00

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD : COMMUNITY DEVELOPMENT

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
COMMUNITY DEVELOPMENT AND PANCHAYATS								
Direction and Administration :								
CD 1.1	Grant-in-aid to Panchayat Samitis for employment of Panchayat Secretaries recruited under 'Half-a-million Jobs Programme'	39.00	39.00	—	—	—	—	—
CD 1.2	Strengthening of head-quarters staff	0.70	0.39	—	—	—	—	—
CD 1.3	Staff for Integrated Rural Development Programme and publicity through Audio Visual Aids at focal points	22.00	1.85	5.00	5.00	—	4.25	—
CD 1.4	Additional Staff at Headquarters	—	—	—	—	—	1.30	—
	Total	61.70	41.24	5.00	5.00	—	5.55	—
Training :								
CD 2.1	Training of Panches and Sarpanches	2.00	2.35	—	—	—	—	—
CD 2.2	Study tours of non-officials	1.00	0.20	0.20	0.20	—	0.20	—
CD 2.3	Promotion and strengthening of Mahila Mandals	—	—	—	—	—	8.00	—
	Total	3.00	2.55	0.20	0.20	—	8.20	—
Assistance to Panchayati Raj Institutions								
CD 3.1	Financial assistance to Panchayats Panchayat Samitis and Zila Parishads for expenditure on revenue earning schemes	246.80	48.70	62.00	62.00	61.00	42.80	41.80
CD 3.2	Incentive grants to Panchayats for stepping up their tax efforts	20.00	—	5.00	2.50	—	—	—
CD 3.3	Disposal of sullage water and sanitation	6.00	6.00	—	—	—	—	—
CD 3.4	Composite programme for women and pre-school children, strengthening of craft centres	18.50	4.30	3.80	3.80	—	5.50	—
CD 3.5	Pavement of streets and construction of drains	500.00	40.00	60.00	62.50	62.50	60.00	60.00
CD 3.6	Assistance to Panchayats for expenditure on Panchayat Works	70.00	10.00	15.00	15.00	15.00	25.00	25.00
CD 3.7	Development of Model villages	30.00	4.21	10.00	10.00	10.00	10.00	10.00
CD 3.8	Under-ground water Sewerage	16.00	—	4.00	4.00	4.00	6.95	6.95
CD 3.9	Matching grants to Panchayats and Local Bodies for Development works	—	—	—	—	—	200.00	200.00
CD 3.10	Grant-in-aid to Zila Parishads/Panchayat Samitis for integrated development of villages of historical-/religious importance	—	—	—	—	—	1.00	1.00

ANNUAL PLAN : 1980-81
STATEMENT II : SCHEMES
HEAD : COMMUNITY DEVELOPMENT

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay		Anticipated expenditure		Total	Of which capital content
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
CD 3.11 Integrated Rural Development Programme in Central S.P.D.A. blocks	—	—	—	—	—	115.00	—	
CD 3.12 Area Planning Programme for full employment under I.R.D.	—	—	—	—	—	30.00	—	
CD 3.13 Re-organisation of administrative arrangements at block level	—	—	—	—	—	5.00	—	
Total	907.30	113.21	159.80	159.80	152.50	501.25	344.75	
Grand Total	972.00	157.00	165.00	165.00	152.50	515.00	344.75	

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : CO-OPERATION

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
COOPERATION								
I. Direction and Administration								
CN 1.1	Additional departmental staff	115.00	25.15	43.00	43.00	—	60.00	—
	Total	115.00	25.15	43.00	43.00	—	60.00	—
2. Credit Co-operatives								
CN 2.1	Assistance to Central Cooperative Banks for opening new branches	45.36	16.19	21.10	21.10	—	16.66	—
CN 2.2	Assistance to Cooperative Primary Agricultural Service Societies for construction of godowns	329.67	91.43	76.22	76.22	76.22	72.63	72.63
CN 2.3	Share Capital contribution to :	(500.00)	(223.89)	(90.00)	(90.00)	(90.00)	(90.00)	(90.00)
	(i) Punjab State Cooperative Land Mortgage Bank	5.00	—	1.00	1.00	1.00	1.00	1.00
	(ii) Central Cooperative Banks	30.00	—	5.00	5.00	5.00	5.00	5.00
	(iii) Urban Cooperative Banks	10.00	—	—	—	—	—	—
	(iv) Punjab State Cooperative Bank	5.00	—	—	—	—	1.00	1.00
	(v) Primary Cooperative Land Mortgage Banks	50.00	7.00	9.00	9.00	9.00	8.00	8.00
	(vi) Primary Agriculture Service Societies	400.00	216.89	75.00	75.00	75.00	75.00	75.00
CN 2.4	Reorganisation and revitalisation of Central Cooperative Banks	50.00	7.04	1.28	1.28	—	0.95	—
CN 2.5	Assistance to reorganised Primary Agricultural Service Societies as managerial subsidy	243.10	87.23	93.00	93.00	—	68.41	—
CN 2.6	Subsidy for building premises of new branches of Central Cooperative Banks at focal points under IRDP	53.20	—	23.40	23.40	23.40	6.00	6.00
CN 2.7	Assistance to Central Cooperative Banks for agricultural stabilisation fund	50.00	—	2.50	2.50	—	10.00	—
CN 2.8	Assistance to Primary Agricultural Service Societies as bad debt reserves (risk fund)	265.00	—	2.50	2.50	—	5.00	—
	Total	1536.33	425.78	310.00	310.00	189.62	259.65	168.63

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : COOPERATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay		Of which capital content	Total	Of which capital content	
			Total	Anticipated expenditure				
1	2	3	4	5	6	7	8	
3. Housing Cooperatives								
CN 3.1	Share capital contribution to Housing Societies/Housing Federation as margin money	20.00	—	1.00	1.00	1.00	5.00	5.00
CN 3.2	Assistance to Housing Societies/Federation as managerial subsidy	1.67	—	0.50	0.50	—	0.50	—
Total		21.67	—	1.50	1.50	1.00	5.50	5.00
4. Labour Cooperatives								
CN 4.1	Assistance for technical cell in district Cooperative Labour Unions and State Level Federation	10.00	—	1.00	1.00	—	1.00	—
Total		10.00	—	1.00	1.00	—	1.00	—
5. Warehousing and Marketing								
CN 5.1	Share capital contribution to Co-operative Marketing Societies	50.00	0.50	4.00	4.00	4.00	4.00	4.00
CN 5.2	Assistance for development of export of vegetables, fruits and other products by Markfed	(24.00)	(—)	(2.00)	(2.00)	(1.50)	(9.50)	(9.00)
	(i) Share capital as margin money	8.00	—	1.50	1.50	1.50	9.00	9.00
	(ii) Cold Storage							
	(a) Loan	12.00	—	—	—	—	—	—
	(b) Share Capital	3.00	—	—	—	—	—	—
	(iii) Subsidy for Technical and Marketing Cell	1.00	—	0.50	0.50	—	0.50	—
Total		74.00	0.50	6.00	6.00	5.50	13.50	13.00
6. Processing Cooperatives								
CN 6.1	Assistance to agriculture processing units (other than Sugar Mills)	103.75	78.75	0.50	0.50	0.50	100.00	100.00
CN 6.2	Assistance to State level Federation of Agricultural Processing Societies	—	—	—	—	—	16.00	15.00
Total		103.75	78.75	0.50	0.50	0.50	116.00	115.00

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : COOPERATION

(Rs. in lakhs)

Name of the Scheme/Project	Five year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay		Anticipated expenditure		Total	Of which capital content
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
7. Dairy Cooperatives								
CN 7.1	Share capital contribution to Primary Cooperative Milk Societies, Unions, and Milk Federation	8.50	8.50	—	—	—	—	—
CN 7.2	Assistance to Federation of Milk Unions for technical cell	6.00	1.50	2.00	2.00	—	0.50	—
CN 7.3	Subsidy to Milk Unions for :	(72.10)	(42.10)	(30.00)	(30.00)	(—)	(10.20)	(—)
	(i) Managerial cost	9.00	6.00	3.00	3.00	—	1.00	—
	(ii) Purchase of chemicals for testing milk	7.00	3.00	4.00	4.00	—	1.00	—
	(iii) Transport charges	7.00	3.00	4.00	4.00	—	1.00	—
	(iv) Purchase of diesel jeeps	6.60	3.60	3.00	3.00	3.00	1.20	—
	(v) Farmers Induction Programme (Study tours)	2.50	2.50	—	—	—	—	—
	(vi) Extension Programme audio-visual aids	4.00	—	4.00	4.00	—	2.00	—
	(vii) Procurement and inputs wing	18.00	12.00	6.00	6.00	—	2.00	—
	(viii) Spearhead team expenses	18.00	12.00	6.00	6.00	—	2.00	—
CN 7.4	Assistance to Milk Producers Societies for :	(31.00)	(21.00)	(10.00)	(10.00)	(—)	(0.45)	(—)
	(i) Managerial cost	12.00	8.00	4.00	4.00	—	0.15	—
	(ii) Milk testing equipment	9.50	6.50	3.00	3.00	3.00	0.15	—
	(iii) First aid artificial insemination boxes and cattle crates	9.50	6.50	3.00	3.00	—	0.15	—
CN 7.5	Subsidy to Milk Federation for training of audit/inspection staff	3.40	2.40	1.00	1.00	—	0.23	—
CN 7.6	Assistance for payment of audit fee by Milk Producers Cooperative Societies/Unions and Milk Federation	30.00	—	1.00	1.00	—	0.12	—
CN 7.7	Assistance as revolving fund for the Milk Federation/Milk Unions and Milk Societies	6.00	—	6.00	6.00	4.20	0.50	0.35
	Total	157.00	75.50	50.00	50.00	10.20	12.00	0.35
8. Cooperative Sugar Mills								
CN 8.1	Share capital contribution for installation of new Cooperative Sugar Mills	10.00	—	—	—	—	—	—

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : COOPERATION

(Rs. in lakhs)

Name of the Scheme/Project	Five year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay		Anticipated Expenditure	Total	Of which capital content	
			Total	Total				Of which capital content
1	2	3	4	5	6	7	8	
CN 8.2	Share Capital contribution for expansion of existing Cooperative Sugar Mills	—	—	—	—	—	—	—
CN 8.3	Share capital contribution for setting up of Cooperative Khandsari Units	18.00	—	—	—	—	—	—
	Total	28.00	—	—	—	—	—	—
9. Industrial Cooperatives								
CN 9.1	Participation in the share capital of Industrial Cooperatives including Federation/Unions and Projects in Cooperative sector	30.00	4.00	4.50	4.50	4.50	5.50	5.50
CN 9.2	Subsidy to CCB's for advancing loans to Industrial Cooperatives at 2½ per cent rate of interest	6.00	0.85	1.00	1.00	—	0.50	—
CN 9.3	Assistance to Handloom Weavers Co-operatives—interest concession	4.50	0.09	0.50	0.50	—	1.00	—
CN 9.4	Assistance to Handloom Weavers Cooperatives for rebate on cloth sale	6.00	0.44	—	—	—	1.00	—
CN 9.5	Development of handloom industry—supply of improved appliances	6.00	1.00	0.50	0.50	0.12	1.00	0.50
CN 9.6	Share capital contribution to Punjab Handloom Weavers Apex Cooperative Society	7.50	2.50	1.50	1.50	1.50	7.00	7.00
CN 9.7	Managerial subsidy to the Punjab Handloom Weavers Apex Co-operative Society	2.50	0.50	0.50	0.50	—	1.00	—
CN 9.8	Contribution to share capital of Primary Model Handloom Weavers' Cooperative Societies	5.00	—	—	—	—	0.50	—
CN 9.9	Managerial subsidy to Model Handloom Weavers' Cooperative Societies	1.50	0.35	—	—	—	—	—
CN 9.10	Subsidy to Model Handloom Weavers' Co-operative Societies for construction of sheds	2.50	—	—	—	—	—	—
CN 9.11	Managerial subsidy to Industrial Co-operatives including Handloom Weavers' Co-operatives	3.75	—	—	—	—	1.35	1.35
CN 9.12	Subsidy to Industrial Co-operatives for employing craft teachers	5.00	—	0.50	0.50	—	0.50	—
CN 9.13	Assistance as loan & share capital for setting up processing units by Handloom Apex	—	—	—	—	—	7.50	7.50
	Total	80.25	9.73	9.00	9.00	6.12	26.85	21.85

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : COOPERATION

(Rs. in lakhs)

Name of the Scheme/Project	Five year Plan (1978--83) outlay	1978-79		1979-80			Proposed Outlay (1980-81)	
		Actuals	Approved outlay Total	Anticipated expenditure Total	Of which capital content	Total	Of which Capital content	
								3	4	5	6	7	8
10. Consumers Co-operatives								
CN 10.1	Contribution to share capital of Central Consumers Stores	16.00	—	1.00	1.00	1.00	1.00	1.00
CN 10.2	Share capital contribution to Primary Co-operative Stores	4.00	—	0.50	0.50	0.50	—	—
CN 10.3	Share Capital contribution to State Co-operative Consumer Federation	6.00	4.00	2.00	2.00	2.00	10.00	10.00
CN 10.4	Subsidy to State Co-operative Consumer Federation for business and financial management cell	2.00	—	0.50	0.50	—	0.50	—
CN 10.5	Subsidy for rehabilitation of weak central stores/Federation	42.00	—	7.00	7.00	—	10.00	—
Total		70.00	4.00	11.00	11.00	3.50	21.50	11.00
11. Co-operative Education								
CN 11.1	Member education and leadership training of non-officials through Punjab Co-operative Union	15.00	2.50	3.00	3.00	—	3.50	—
Total		15.00	2.50	3.00	3.00	—	3.50	—
12. Co-operative Research and Training								
CN 12.1	Training of Co-operative subordinate personnel	16.00	1.14	1.00	1.00	—	1.00	—
CN 12.2	Study tours	2.00	—	0.50	0.50	—	0.50	—
CN 12.3	Subsidy for research and case studies through Punjab Co-operative Union	2.00	—	0.50	0.50	—	0.50	—
Total		20.00	1.14	2.00	2.00	—	2.00	—
13. Co-operative Information and Publicity								
CN 13.1	Publicity through Punjab Co-operative Union	5.00	1.00	1.00	1.00	—	2.00	—
Total		5.00	1.00	1.00	1.00	—	2.00	—

ANNUAL PLAN 1980-81
STATEMENT II: SCHEMES
HEAD : COOPERATION

(Rs. in lakhs)

Name of the Scheme /Project	Five Year plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated expenditure	Total	Of which capital content		
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
14. Other Co-operatives								
CN 14.1	Share capital contribution to Co-operative Cold Storages	—	—	—	—	—	25.00	25.00
CN 14.2	Assistance for technical cell in urban Co-operative Banks	10.00	—	1.00	1.00	—	—	—
CN 14.3	Assistance to Co-operative Cold Stores Federation	—	—	—	—	—	5.50	5.00
Total		10.00	—	1.00	1.00	—	30.50	30.00
Total Co-operative Department		2246.00	624.05	439.00	439.00	216.44	564.00	364.83
15. Co-operative Audit								
CN 15.1	Staff for Audit of Credit Co-operatives	77.30	—	12.00	12.00	—	11.50	—
CN 15.2	Staff for audit of Societies other than Credit Co-operatives	17.70	—	0.83	0.83	—	1.09	—
CN 15.3	Training and education of audit staff	0.60	—	0.05	0.05	—	0.05	—
CN 15.4	Direction & Administration of Co-operative Audit	18.40	—	3.12	3.12	—	3.36	—
Total		114.00	—	16.00	16.00	—	16.00	—
Grand Total		2360.00	624.05	455.00	455.00	216.44	580.00	364.83

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : IRRIGATION

(Rs. in lakhs)

Name of the project/Scheme	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated expenditure		Total	Of which Capital content	
				Total	Total			Of which Capital content
1	2	3	4	5	6	7	8	
IRRIGATION								
1 Multipurpose Projects								
MP 1.1	Beas Project Unit-I	119.00	44.55	18.00	18.00	18.00	7.19	7.19
MP 1.2	Beas Project unit-I(Extension)	98.00	9.82	20.00	20.00	20.00	12.39	12.39
MP 1.3	Beas Project Unit-II	305.00	86.92	45.00	45.00	45.00	40.96	40.96
MP 1.4	Beas Project Unit-II (Extension)	538.00	56.08	94.00	94.00	94.00	126.67	126.67
MP 1.5	Thein Dam	9000.22	432.68	1200.00	1200.00	1200.00	1350.00	1350.00
MP 1.6	Diversion Weir of Shahnehar canal	885.00	397.90	250.00	250.00	250.00	450.00	450.00
MP 1.7	Dholbaha Dam	407.00	17.80	60.00	60.00	60.00	140.00	140.00
MP 1.8	Shahpur Kandi Project	301.00	0.41	1.00	1.00	1.00	6.79	6.79
MP 1.9	Low Dams in Kandi area	500.00	—	10.00	10.00	10.00	4.00	4.00
	Total	12153.22	1046.16	1698.00	1698.00	1698.00	2138.00	2138.00
2 Major and Medium Irrigation schemes								
IR 2.1	Extension of non-perennial Irrigation to areas in UBDC tract	114.00	19.18	10.00	10.00	10.00	20.00	20.00
IR 2.2	Utilisation of surplus Ravi Beas Waters	266.00	123.52	60.00	60.00	60.00	60.00	60.00
IR 2.3	Extension and improvement of Shahnehar Canal	550.00	50.92	140.00	140.00	140.00	250.00	250.00
IR 2.4	Lining of Channels	7758.80	846.08	1100.00	1100.00	1100.00	1200.00	1200.00
IR 2.5	Construction of New Distributories, Minors and Bridges	410.28	18.12	20.00	20.00	20.00	20.00	20.00
IR 2.6	Sirhind Feeder Lift Scheme	4.50	—	—	—	—	—	—
IR 2.7	Modernisation of existing canals	50.50	—	5.00	5.00	5.00	5.00	5.00
IR 2.8	Garhshanker lift irrigation scheme	—	—	—	—	—	20.00	20.00
IR 2.9	Lohat & Garhi Lift irrigation schemes	—	—	—	—	—	5.00	5.00
IR 2.10	Technical assistance, Research & Training	50.00	—	—	—	—	50.00	50.00
IR 2.11	Project Administration, Monitoring, Evaluation	20.00	—	—	—	—	—	—
IR 2.12	Pilot demonstration	200.00	—	—	—	—	30.00	30.00
	Total	9424.08	1057.82	1335.00	1335.00	1335.00	1660.00	1660.00
3. Water Development								
WD 3.1	Investigation of schemes	226.00	23.94	45.00	45.00	45.00	35.00	35.00
WD 3.2	Research	24.00	2.11	5.00	5.00	5.00	5.00	5.00
	Total	250.00	26.05	50.00	50.00	50.00	40.00	40.00
	Grant Total	21827.30	2130.03	3083.00	3083.00	3083.00	3838.00	3838.00
	Anti-water logging Drainage and Flood Control	3505.00	1150.74	750.00	750.00	750.00	500.00	500.00

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : POWER

(Rs in lakhs)

Name of the scheme/project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)		
			Approved outlay		Anticipated expenditure		Total	Of which capital content
			Total	Total	Of which capital content			
			1	2	3	4	5	6	7	8
Power								
1. Generation								
(a) Multipurpose projects—								
MP 1.1	Beas Project Unit-I	1641.00	656.87	271.00	302.00	302.00	106.00	106.00
MP 1.2	Beas Project Unit-I (Extension)	1596.00	144.90	300.00	269.00	269.00	530.00	530.00
MP 1.3	Beas Project Unit-II	83.00	26.70	14.00	18.00	18.00	13.00	13.00
MP 1.4	Beas Project Unit-II (Extension)	179.00	17.27	29.00	50.00	50.00	39.00	39.00
MP 1.5	Thein Dam	520.00	—	20.00	20.00	20.00	10.00	10.00
MP 1.6	Shahpur Kandi Project	6.00	—	1.00	1.00	1.00	1.00	1.00
Total (a)		4025.00	845.74	635.00	660.00	660.00	699.00	699.00
(b) Power projects								
PP 1.1	Shanan Renovation Project	402.00	145.68	137.00	137.00	137.00	71.00	71.00
PP 1.2	Shanan Extension Project	594.00	245.83	200.00	200.00	200.00	306.00	306.00
PP 1.3	Guru Nanak Dev Thermal Plant Bhatinda Units I & II	(—) 160.00	—	—	—	—	—	—
PP 1.4	Guru Nanak Dev Thermal plant Bhatinda Extension Units—III & IV	1370.00	408.55	400.00	400.00	400.00	126.00	126.00
PP 1.5	Anandpur Sahib Hydel Project	6160.00	1444.61	2250.00	2250.00	2250.00	2100.00	2100.00
PP 1.6	Mukerian Hydel Project	4870.00	187.14	1000.00	1000.00	1000.00	1200.00	1200.00
PP 1.7	UBDC Project Stage-I	65.00	2.31	10.00	10.00	10.00	3.00	3.00
PP 1.8	Participation in Hydro Projects of H. P. and J and K.	20.00	—	4.00	4.00	4.00	5.00	5.00
PP 1.9	Guru Nanak Dev Thermal Plant Extension Stage-II (Units—V & VI)	11732.18	0.50	10.00	10.00	10.00	2.00	2.00
PP 1.10	Ropar Thermal Project			2.41	90.00	90.00	90.00	1044.00	1044.00
PP 1.11	Bhakra Right and Left Bank Projects	53.82	—	—	—	—	—	—
Total (b)		25107.00	2437.03	4101.00	4101.00	4101.00	4857.00	4857.00
Total		29132.00	3282.77	4736.00	4761.00	4761.00	5556.00	5556.00

ANNUAL PLAN 1980—81
STATEMENT II : SCHEMES
HEAD : POWER

(Rs in lakhs)

Name of the scheme/project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Approved outlay (1980-81)		
			Approved outlay		Anticipated expenditure		Total	Of which capital
			Total	Total	Of which capital content			
I	2	3	4	5	6	7	8	
2. Transmission								
PP 2.1	Beas Transmission							
	(i) BCB	238.00	195.20	31.00	39.00	39.00	26.00	26.00
	(ii) PSEB	942.00	446.46	270.00	270.00	270.00	257.00	257.00
PP 2.2	UBDC Project	138.00	70.95	62.00	62.00	62.00	51.00	51.00
PP 2.3	Bhakra Right Bank							
	(i) B.M.B.	—	—	—	—	—	—	—
	(ii) P.S.E.B.	34.00	27.57	12.00	12.00	12.00	9.00	9.00
PP 2.4	Bhakra Left Bank							
	(i) B.M.B.	—	—	—	—	—	—	—
	(ii) P.S.E.B.	—	—	—	—	—	—	—
PP 2.5	Guru Nanak Dev Thermal Plant, Bhatinda	351.00	57.24	50.00	50.00	50.00	71.00	71.00
PP 2.6	Guru Nanak Dev Thermal Plant, Extension, Bhatinda	491.00	82.05	100.00	100.00	100.00	131.00	131.00
PP 2.7	Shanan Extension Project	308.00	45.01	67.00	67.00	67.00	33.00	33.00
PP 2.8	220 KV, 132 KV and 66 KV Transmission works of the 5th plan connected with new schemes	4085.00	416.16	840.00	865.00	865.00	698.00	698.00
PP 2.9	220 KV, 132 KV and 66 KV Transmission works of the 6th Plan connected with new schemes	3316.00	—	200.00	200.00	200.00	500.00	500.00
PP 2.10	Transmission lines for Dehar Extn. project (BCB)	600.00	—	61.00	3.00	3.00	124.00	124.00
PP 2.11	Sub-transmission works							
	(a) Continuing	1274.00	292.26	531.00	531.00	531.00	400.00	400.00
	(b) New	—	—	—	—	—	200.00	200.00
	Total	11777.00	1632.90	2224.00	2199.00	2199.00	2500.00	2500.00
3. Normal Development / Distribution								
PP 3.1	Normal Development & Distribution	4450.00	843.37	700.00	700.00	700.00	958.00	958.00
PP 3.2	Improvement of Transmission system and Reduction of Transmission losses	1940.00	166.21	320.00	320.00	320.00	400.00	400.00
	Total	6390.00	1009.58	1020.00	1020.00	1020.00	1358.00	1358.00
Total : (Transmission & Distribution)		18167.00	2642.48	3244.00	3219.00	3219.00	3858.00	3858.00

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : POWER

(Rs in lakhs)

Serial No.	Name of the Project/scheme	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80		Proposed Outlay (1980-81)		
				Approved Outlay total	Anticipated expenditure		Total	Of which capital content
					Total	Of which capital content		
1		2	3	4	5	6	7	8
4. Rural Electrification								
PP 4.1	Rural Electrification							
	(i) R.E.C.	2685.00	971.64	470.00	470.00	470.00	426.00	426.00
	(ii) Plan	4180.00	969.33	985.00	985.00	985.00	890.00	890.00
	Total	6865.00	1940.97	1455.00	1455.00	1455.00	1316.00	1316.00
5. Power Development								
PP 5.1	Survey and Investigation	50.00	13.48	8.00	8.00	8.00	20.00	20.00
PP 5.2	Research, Testing Laboratory and load despatch Centre	100.00	7.95	28.00	28.00	28.00	80.00	80.00
	Total	150.00	21.43	36.00	36.00	36.00	100.00	100.00
	Grand Total	54314.00	7887.65	9471.00	9471.00	9471.00	10830.00	10830.00

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	Five year Plan (1978—83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)		
			Approved outlay		Anticipated Expenditure	Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
1. Industrial and Financial Institutions								
IN 1.1	Punjab Financial Corporation	85.50	47.50	38.00	38.00	38.00	—	—
IN 1.2	Industrial Financial Corporation of India	15.00	—	1.00	1.00	1.00	1.00	1.00
	Total	100.50	47.50	39.00	39.00	39.00	1.00	1.00
2. Investment in Public Under-takings								
IN 2.1	Punjab State Industrial Development Corporation	2304.00	474.00	470.00	470.00	470.00	470.00	470.00
IN 2.2	Punjab State Small Industries Corporation	137.00	45.00	35.00	35.00	35.00	14.00	14.00
IN 2.3	Punjab State Electronics Development and Production Corporation	105.00	30.00	15.00	15.00	15.00	30.00	30.00
IN 2.4	Punjab State Handloom and Textile Development Corporation	50.00	5.00	8.00	8.00	8.00	9.00	9.00
IN 2.5	Punjab State Hosiery and Knitwear Development Corporation	80.00	30.00	12.00	12.00	12.00	16.00	16.00
IN 2.6	Punjab Export Corporation	1.00	—	—	—	—	—	—
	Total	2677.00	584.00	540.00	540.00	540.00	539.00	539.00
3. Direction and Administration								
IN 3.1	Cell for Non-resident Indians	4.30	0.40	1.00	1.00	—	1.00	—
IN 3.2	Development of Agro-based Industries and provision for specific studies, feasibility reports, survey, research and development	6.13	0.81	0.81	0.81	—	1.00	—
IN 3.3	Marketing Intelligence Cell	1.44	1.52	—	—	—	—	—
IN 3.5	Liason Office at Calcutta	2.06	1.75	—	—	—	—	—
	Total	13.93	4.48	1.81	1.81	—	2.00	—
4. Small Scale Industries								
IN 4.1	Credit facilities for the development of small scale industries	102.00	41.78	15.00	15.00	15.00	10.00	10.00
IN 4.2	Subsidy	6.00	2.00	1.00	1.00	1.00	1.00	1.00
IN 4.3	Grant of 1 per cent subsidy to PFC for concessional finances in selected backward districts	3.90	0.70	0.80	0.80	—	0.80	—

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	Five year Plan (1978—83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)		
			Approved outlay	Anticipated Expenditure	Of which Capital content	Total	Of which capital content	
			Total	Total				
1	2	3	4	5	6	7	8	
IN 4.4 ¹	Grant of 2 per cent subsidy in the rate of interest on loans by PFC for the purchase of generating sets	1.60	0.29	0.30	0.30	—	0.30	—
IN 4.5	Out right subsidy	65.00	—	10.00	10.00	10.00	15.00	15.00
IN 4.6	Seven New Industrial Development-cum-Service Centres	59.91	27.06	15.25	15.25	6.00	9.00	3.00
IN 4.7	Five New Quality Marking Centres	27.48	6.83	4.91	4.91	0.50	5.00	1.00
IN 4.8	Tool Room, Ludhiana	51.20	15.54	5.00	5.00	5.00	7.00	7.00
IN 4.9	Sewing Machine, Development Centre, Ludhiana	17.00	—	1.00	1.00	0.50	5.00	5.00
IN 4.10	Handtool Designs Institute, Jullundur	26.00	1.35	5.00	5.00	5.00	8.00	8.00
IN 4.11	Punjab Test House, Ludhiana	25.96	3.75	6.50	6.50	2.00	8.00	4.00
IN 4.12	Machine Tool and Design Development Centre, Batala	65.00	0.12	5.00	5.00	3.00	0.50	0.50
IN 4.13	Training of Technical staff and visit to industries in other States	1.00	0.13	0.20	0.20	—	0.30	—
IN 4.14	Modernisation of small scale Industries	45.12	4.85	7.50	7.50	—	8.00	—
IN 4.15	Research and Development Centre for Bicycles, Ludhiana	9.00	—	1.00	1.00	0.50	3.00	3.00
IN 4.16	Electronic Development and Testing Laboratory, SAS Nagar	58.00	12.33	8.00	8.00	4.00	8.00	—
IN 4.17	Development of leather industry	69.20	13.41	21.20	21.20	12.00	15.00	8.00
IN 4.18 ²	Consultancy-technical services and testing facility centres for chemical industries	10.00	—	2.25	2.25	0.75	0.50	—
IN 4.19 ³	Export awards ⁴	1.20	—	0.30	0.30	—	0.30	—
IN 4.20 ⁵	District Industries Centres	90.26	0.31	21.62	21.62	9.00	36.00	12.00
IN 4.21 ⁶	Shoe and Leather Goods Training Centre Longowal	1.60	—	0.40	0.40	—	0.40	—
IN 4.22	Interest subsidy	25.00	—	5.00	5.00	5.00	5.00	5.00
IN 4.23	Loans to Punjab State Small Industries Corporation	15.00	—	2.50	2.50	2.50	4.00	4.00
IN 4.24	Extension of existing building of CFTRI at Ludhiana	11.00	3.59	5.00	5.00	5.00	5.00	5.00
IN 4.25	Training for self employment	13.00	0.66	1.00	1.00	—	1.00	—
IN 4.26	Promotion of self employment through seed/capital/margin money assistance	73.39	20.00	5.00	5.00	5.00	12.00	12.00

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978—83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay		Of which capital content	Total	Of which capital content	
			Total	Anticipated Expenditure				
1	2	3	4	5	6	7	8	
IN 4-27	Establishment of Industrial/Commercial Estates	15.00	—	5.00	5.00	5.00	5.00	5.00
IN 4-28	Supply of machinery on hire-purchase basis	40.00	—	5.00	5.00	5.00	10.00	10.00
IN 4-29	Training for Guaranteed Employment	17.00	5.15	5.00	5.00	—	—	—
IN 4-30	Participation in industrial fairs	25.71	13.58	3.00	3.00	—	3.00	—
IN 4-31	Publicity	10.00	0.83	2.25	2.25	—	2.50	—
IN 4-32	Sports Goods Complex	30.00	—	4.00	4.00	4.00	3.50	3.50
IN 4-33	Surgical instruments Complex	25.00	—	1.50	1.50	1.05	3.50	3.00
IN 4-34	Regional Centre of I.S.I. at SAS Nagar	7.50	5.05	2.50	2.50	2.50	—	—
IN 4-35	Augmentation of Regional Centre of SASMIRA at Amritsar	2.00	1.52	—	—	—	—	—
IN 4-36	Export promotion programme	0.68	0.69	—	—	—	—	—
IN 4-37	Subsidy for purchase of generating sets	1.39	1.39	—	—	—	2.50	2.50
IN 4-38	Trade Centre	9.20	3.05	4.00	4.00	4.00	2.00	—
IN 4-39	Decentralised leather workers	100.00	—	—	—	—	30.00	25.50
IN 4-40	Unit for manufacture of blanks for cut glass wares	2.00	1.62	—	—	—	—	—
IN 4-41	Extension Centre, Jullundur	2.00	2.06	—	—	—	—	—
IN 4-42	Pilot production of Bag tanning of Hides at Government Tanning Centres at Banga, Kot-Kapura and Malerkotla	5.60	3.78	—	—	—	—	—
IN 4-43	Strengthening of organisation dealing with schemes	1.50	1.89	—	—	—	—	—
IN 4-44	Punjab Khadi and Village Industries Board	2.82	—	—	—	—	—	—
IN 4-45	Regional Computer Centre at SAS Nagar	—	20.00	—	—	—	—	—
IN 4-46	Ware house at Bombay	5.00	5.00	—	—	—	—	—
IN 4-47	Export assistance	—	—	—	—	—	1.50	—
Total		1176.32	220.31	183.08	183.08	113.30	231.60	153.00

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure	Total	Of which capital content		
			Total	Total			Of which capital content	
1	2	3	4	5	6	7	8	
5. Industrial Estates								
IN 5-1	Industrial Estates/ Incentives to new Industries—							
	(i) Acquisition of land	578.14	105.00	136.00	136.00	136.00	181.00	181.00
	(ii) Loans to PSSIC	95.40	—	35.00	35.00	35.00	35.00	35.00
	(iii) Interest Free Loan	823.00	103.96	140.00	140.00	140.00	145.00	145.00
	(iv) Maintenance charges	20.00	10.85	10.00	10.00	—	—	—
	(v) Feasibility report	1.00	—	—	—	—	1.00	—
	(vi) Electricity charges of street light at focal points	6.30	1.84	1.00	1.00	—	2.00	—
	(vii) Large and medium industries staff	1.00	2.26	—	—	—	—	—
	(viii) Land acquisition staff	2.00						
	(ix) Land subsidy	117.00	—	27.00	27.00	27.00	35.00	35.00
	(x) Investment loans	70.00	—	10.00	10.00	10.00	6.00	6.00
	(xi) Publicity	—	0.15	—	—	—	—	—
	(xii) Subsidy on electricity tariff	—	—	—	—	—	0.50	—
	(xiii) Re-imbursment of octroi/terminal tax	—	—	—	—	—	0.50	—
	Total	1713.84	224.06	359.00	359.00	348.00	406.00	402.00
6. Handloom/Textile Industries								
IN 6-1	Installation of jacquard machines]	15.60	5.10	3.00	3.00	3.00	2.50	2.50
IN 6-2	Interest free loans for margin money	9.36	0.40	2.00	2.00	2.00	0.50	0.50
IN 6-3	Training of weavers	2.50	0.49	0.50	0.50	—	0.50	—
IN 6-4	Rebate on sale of cotton handloom cloth	5.00	2.00	2.00	2.00	—	2.00	—
IN 6-5	Development of handloom industry in sub-montane areas (Training-cum-Production Centre)	10.00	—	2.50	2.50	—	2.50	—
IN 6-6	Construction of workshed for weavers	9.50	—	2.00	2.00	2.00	2.00	2.00
IN 6-7	Development of weaving industry	0.60	0.52	—	—	—	—	—
IN 6-8	Additional staff for handloom development	0.46	0.31	—	—	—	—	—
IN 6.10	Assistance for conversion of pit looms into frame looms	2.75	2.75	—	—	—	—	—
	Total	55.77	11.57	12.00	12.00	7.00	10.00	5.00

ANNUAL PLAN—1980-81

STATEMENTS II : SCHEMES

HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure		Total	Of which capital content	
				Total	Total			Of which capital content
1	2	3	4	5	6	7	8	
7. Village Industries								
IN 7.1	Integrated Rural Development Programme	210.65	32.87	40.00	40.00	22.00	45.00	32.00
	Total	210.65	32.87	40.00	40.00	22.00	45.00	32.00
8. Handicrafts								
IN 8.1	Development of handicrafts industries	17.50	2.06	3.53	3.53	0.31	4.00	—
IN 8.2	Carpet weaving training centres to be set up by Punjab State Small Industries Corporation	—	—	—	—	—	30.00	—
	Total	17.50	2.06	3.53	3.53	0.31	34.00	—
9. Sericulture								
IN 9.1	Development of sericulture industries	17.52	0.93	5.16	5.16	4.14	6.00	4.74
10. Statistics								
IN 10.1	Statistical cell	3.00	0.89	0.42	0.42	—	0.40	—
11. Mines and Minerals								
IN 11.1	Development of mines and minerals	20.00	8.69	5.00	5.00	4.24	3.00	—
12. Weights and Measures								
IN 12.1	Implementation of Weights and Measures Act	9.76	2.57	3.00	3.00	1.00	3.00	1.50
	Grand Total	6015.79	1139.93	1192.00	1192.00	1078.99	1281.00	1138.24

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : ROADS AND BRIDGES

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978—83) outlay	1978-79 Actuals	1979-80		Proposed outlay (1980-81)		
			Approved outlay	Anticipated expenditure		Total	Of which capital content
				Total	Of which capital content		
1	2	3	4	5	6	7	8
ROADS AND BRIDGES							
1. State Highways, District and Other Roads :							
RD 1.1 Main Roads and Missing links ..	200.00	26.23	40.00	40.00	40.00	75.00	75.00
RD 1.2 Improvement/Widening and providing additional crust on existing roads	2100.00	175.50	375.00	375.00	375.00	400.00	400.00
RD 1.3 Providing of road side amenities ..	—	—	—	—	—	25.00	25.00
RD 1.4 Arboriculture and land scaping of roads ..	—	—	—	—	—	5.00	5.00
2. Machinery and Equipment :							
RD 2.1 Machinery ..	500.00	20.00	115.00	115.00	115.00	100.00	100.00
3. Minimum Needs Programme :							
RD 3.1 (i) Village Roads ..	2800.00	952.33	450.00	450.00	450.00	445.00	445.00
(ii) Zila Parishad Roads ..	—	15.17	45.00	45.00	45.00	—	—
5. Safety works including Bridges :							
RD 5.1 Bridges ..	1100.00	196.93	280.00	280.00	280.00	225.00	225.00
6. Other Expenditure :							
RD 6.1 Central Road Fund ..	400.00	89.20	50.00	50.00	50.00	75.00	75.00
RD 6.2 Improvement of Roads within M.C. Limits	300.00	20.01	50.00	50.00	50.00	50.00	50.00
RD 6.3 Bye-passes ..	330.00	5.59	75.00	75.00	75.00	75.00	75.00
RD 6.4 Research and Development, field training, Labs and purchase of equipment	100.00	0.50	20.00	20.00	20.00	25.00	25.00
Total ..	7830.00	1501.46	1500.00	1500.00	1500.00	1500.00	1500.00

ANNUAL PLAN 1980-81
STATEMENT II ; SCHEMES
HEAD ROAD TRANSPORT

(Rs. in lakhs)

Name of the Scheme/Project	Five year Plan (1978-83) outlay	1978-79 Actuals	Approved outlay	1979-80		Proposed Outlay (1980-81)	
				Anticipated Expenditure		Total	Of which capital content
				Total	Of which capital content		
1	2	3	4	5	6	7	8
Road Transport :							
RT 1. PEPSU Road Transport Corporation	755.50	319.64*	105.00	105.00	105.00	205.00	205.00
RT 2. Punjab Roadways	2942.00	378.38	495.00	495.00	495.00	495.00	495.00
Total	3697.50	698.02	600.00	600.00	600.00	700.00	700.00

*Total expenditure incurred by the Corporation.

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : CIVIL AVIATION

(Rs in lakhs)

Name of the scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)	
			Approved outlay	Anticipated Expenditure		Total	Of which capital content
				Total	Of which capital content		
1	2	3	4	5	6	7	8
1. Training and Education :							
AV 3.1 (i) Grant-in-aid and Subvention to Aviation clubs	5.25	5.25	—	—	—	—	—
(ii) Establishment of AME school	1.50	—	1.50	1.50	1.00	4.50	4.50
2. Aerodromes and Air Route Service :							
AV 2.1 Extension/Construction of runways	16.00	3.02	2.00	2.00	2.00	32.00	32.00
3. Machinery and Equipment :							
AV 3.1 Advanced training of pilots	54.45	3.25	11.50	11.50	11.50	22.50	22.50
Total	77.20	11.52	15.00	15.00	14.50	59.00	59.00
Tourism Corporation :							
Share capital contribution to Punjab State Tourism Development Corporation	260.00	98.76*	45.00	45.00	45.00	45.00	45.00

*Rs. 48.76 lakhs pertain to Department of Tourism.

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
GENERAL EDUCATION/ SCHOOL EDUCATION								
A. Elementary Education (Classes I—V) :								
ED 1.1	Expansion of facilities for full time Schools—							
	(a) Opening of single teacher Primary Schools	280.77	274.75	0.42	0.42	—	1.15	—
	(b) Furniture for Govt. Primary Schools	40.00	—	10.00	10.00	—	11.50	—
	(c) Improvement of Primary Schools	122.05	—	18.45	18.45	—	5.00	—
	(d) Lavatories and drinking water facilities	13.45	—	3.85	3.85	—	4.00	—
	(e) Library Services	30.00	—	3.00	3.00	—	4.65	—
	B. Non-Formal Education :							
	Part-time Classes I to V (6-11) introduction of Non-Formal Education Programme	10.00	—	2.50	2.50	—	2.50	—
ED 1.2	Construction of Class Rooms/School Buildings	39.00	3.01	10.00	10.00	10.00	10.00	10.00
ED 1.3	Replenishment/provision of Science Kits for Primary Schools	6.00	—	1.50	1.50	—	1.95	—
ED 1.4	Administration and Supervision additional staff	48.48	—	8.28	8.28	—	12.25	—
ED 1.5	Inservice Training of J.B.T. Teachers	—	—	—	—	—	2.00	—
	Total Primary Education	589.75	277.76	58.00	58.00	10.00	55.00	10.00
	2. Middle School Education (Classes VI to VIII)							
ED 2.1	Expansion of facilities for full time Schools:—							
	(a) Furniture for Government Middle Schools and Middle Deptts of High and Higher Secondary Schools	58.00	—	14.50	14.50	—	—	—
	(b) Upgradation of Primary Schools to Middle Standard	443.97	440.08	—	—	—	24.02	—
	(c) Posts of P.T.I.s for Government Middle Schools and Middle Deptts. of High/Higher Secondary Schools	84.40	—	7.64	7.64	—	13.20	—
	(d) Additional posts of masters/mistresses on account of additional enrolment	373.58	—	29.38	29.38	—	51.48	—
ED 2.2	Non-Formal Education	21.90	0.45	3.00	3.00	—	3.00	—
ED 2.3	Children Books Trust/Theatre Group:—							
	(i) Children Books Trust	—	—	—	—	—	—	—
	(ii) Children Theatre Group	10.85	—	2.40	2.40	—	2.70	—

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved Outlay	Anticipated expenditure		Total	Of which capital content
				Total	Total			Of which capital content
1	2	3	4	5	6	7	8
ED 2.4 Construction of Buildings—							
(i) Class rooms/school buildings	16.00	—	3.00	3.00	3.00	1.00	1.00
(ii) Science rooms for Govt. Middle School	28.99	0.34	2.49	2.49	2.49	1.00	1.00
ED 2.5 Qualitative improvements—							
(i) Works experience (Vocationalisation of Education)	277.55	29.54	43.70	43.70	—	28.61	—
(ii) Strengthening of Science Education							
(a) Additional post of Science Masters/Mistresses	163.00	88.58	10.84	10.84	—	19.01	—
(b) Supply of Science Kits for Govt. Middle Schools	10.00	—	5.00	5.00	—	1.39	—
(c) Replenishment of Science Kits for Govt. Middle Schools	6.00	—	1.50	1.50	—	—	—
(iii) Introduction of Domestic Science in Govt. Middle Schools and Middle Deptts. of High/Higher Secondary Schools	4.85	1.95	0.65	0.65	—	0.54	—
ED 2.6 Additional staff for supervision	68.11	—	12.72	12.72	—	19.10	—
Total	1567.20	560.94	136.82	136.82	5.49	165.05	2.00
3. Secondary Education (High/Higher Secondary Schools)							
ED 3.1 (a) Upgradation of Government Middle Schools to High Standard	618.04	343.69	21.90	21.90	—	63.01	—
(b) Establishment of quality High Schools (Rural)	221.58	—	35.80	35.80	—	—	—
ED 3.2 Implementation of 10+2 Pattern of Education Appointment of Teachers/Supervisory Staff	0.74	0.70	—	—	—	—	—
ED 3.3 Scholarships for poor but brilliant students	30.94	4.70	6.56	6.56	—	7.00	—
ED 3.4 Construction of buildings—							
(i) Class rooms	2.00	—	—	—	—	—	—
(ii) Laboratories	30.00	0.62	7.50	7.50	7.50	2.50	2.50
(iii) Extension of existing buildings construction of new buildings	345.40	40.00	24.00	24.00	24.00	30.00	30.00
ED 3.5 Improvement of Programmes—							
(i) Strengthening of Science Education—							
(a) Holding of Science Talent Search Examination	1.00	0.07	0.20	0.20	—	0.20	—

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved Outlay Total	Anticipated Expenditure		Total	Of which capital content
				Total	Total			Of which capital content
1	2	3	4	5	6	7	8
(b) Creation of posts of Laboratory Attendants	74.23	—	7.89	7.89	—	12.78	—
(ii) Work Experience	15.10	14.46	—	—	—	—	—
(iii) Other improvement in Schools:—							
(a) Introduction of Library Service in Government High/Higher Secondary Schools	46.77	6.20	5.44	5.44	—	6.24	—
(b) Improvement of High Schools	34.00	—	8.50	8.50	—	—	—
(iv) Diversification of Courses:—							
(a) Introduction of Home Science in Government High/Higher Secondary Schools	9.98	5.08	1.44	1.44	—	0.82	—
(b) Introduction of the subject of Music	5.35	—	0.87	0.87	—	1.34	—
(v) Lavatory and Drinking Water facilities for Girl students	2.50	—	2.50	2.50	—	—	—
Total	1437.63	416.61	122.60	122.60	31.50	123.89	32.50
4. Teachers Education							
ED 4.1 Secondary Stage:—							
(i) Inservice Training of Teachers	55.62	13.77	10.00	10.00	—	10.00	—
(ii) State Institute of Education/ Science Education	15.00	—	3.00	3.00	—	3.50	—
Total	70.62	13.77	13.00	13.00	—	13.50	—
5. Adult Education							
ED 5.1 Introduction of Social Education Programme	61.23	3.62	19.97	19.97	—	19.10	—
Total	61.23	3.62	19.97	19.97	—	19.10	—
6. Physical Education, Games and Sports and Youth Services							
ED 6.1 Holding of Coaching Camps and Competitions	6.00	—	1.50	1.50	—	1.50	—
ED 6.2 Creation of posts of D.P.Es.	139.20	—	9.04	9.04	—	15.84	—
ED 6.3 Starting of Sports Wings	43.52	22.10	4.79	4.79	—	5.34	—
Total	188.72	22.10	15.33	15.33	—	22.68	—

19.10 ^{7.20%} increase

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978—83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved Outlay	Anticipated Expenditure		Total	Of which capital content
				Total	Total			Of which capital content
1	2	3	4	5	6	7	8
7. Additional staff for Direction and Administration and Supervision							
ED 7.1 Additional Inspection Staff	14.27	—	2.28	2.28	—	3.28	—
Total	14.27	—	2.28	2.28	—	3.28	—
Total School Education (Middle & Secondary Education)	3339.67	1017.04	310.00	310.00	36.99	347.50	34.50
II. COLLEGE AND UNIVERSITY EDUCATION							
9. Direction and Administration and Supervision							
ED 9.1 Strengthening of Education Administration	10.00	—	1.59	1.59	—	3.00	—
ED 9.2 Strengthening of Planning Machinery in the Directorate	2.37	—	0.50	0.50	—	0.60	—
Total	12.37	—	2.09	2.09	—	3.60	—
10. Assistance to Universities							
ED 10.1 Grant-in-aid to Universities	217.39	55.10	56.24	56.24	—	45.00	—
Total	217.39	55.10	56.24	56.24	—	45.00	—
11. Government Colleges							
ED 11.1 Expansion of facilities	184.10	66.88	51.25	51.25	45.00	37.45	20.00
ED 11.2 Improvement of existing Colleges	159.51	20.02	26.32	26.32	6.00	50.45	14.50
ED 11.3 Development of College Education under U.G.C. Sharing Schemes	31.07	3.98	8.00	8.00	—	5.00	—
ED 11.4 Strengthening of College Administration	4.60	—	0.73	0.73	—	1.00	—
Total	379.28	90.88	86.30	86.30	51.00	93.90	34.50
12. Assistance to Non-Government Colleges							
ED 12.1 Grant-in-aid to Non-Government Colleges	19.00	—	4.00	4.00	—	4.00	—
Total	19.00	—	4.00	4.00	—	4.00	—
13. Students Welfare							
ED 13.1 Hostels for Government Colleges	13.24	0.66	2.50	2.50	2.00	7.50	2.00
Total	13.24	0.66	2.50	2.50	2.00	7.50	2.00
14. Scholarships							
ED 14.1 State Merit Scholarships	33.67	11.57	6.00	6.00	—	10.00	—
Total	33.67	11.57	6.00	9.75	—	10.00	—

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79		1979-80		Proposed Outlay (1980-81)		
		Actuals	Approved Outlay	Anticipated expenditure	Total	Of which capital content	Total	Of which capital content
1	2	3	4	5	6	7	8	
15. Seminars and Refresher Courses								
ED 15.1	Seminars and Refresher Courses	—	—	—	—	—	1.00	—
	Total	—	—	—	—	—	1.00	—
III. OTHER PROGRAMMES								
16. Art and Culture								
ED 16.1	Establishment and Strengthening of District Libraries	11.98	2.13	3.87	3.87	1.62	5.00	1.00
	Total	11.98	2.13	3.87	3.87	1.62	5.00	1.00
	Total University & Higher Education	686.93	155.34	161.00	161.00	54.62	170.00	37.50
17. Languages								
ED 17.1	Development of Languages—Hindi, Punjabi and Urdu	27.07	4.03	9.00	9.00	—	10.00	—
	Total	27.07	4.03	9.00	9.00	—	10.00	—
18. Youth Services and N.S.S.								
ED 18.1	Direction and Administration	8.61	2.42	—	—	—	—	—
ED 18.2	Punjab Inter-University Youth Festival	2.50	0.34	0.50	0.50	—	0.48	—
ED 18.3	Teachers Training Camp for College/Higher Secondary/High Schools	1.54	—	0.33	0.33	—	0.33	—
ED 18.4	(a) Youth Leadership Training Camp	7.10	1.00	1.30	1.30	—	1.31	—
	(b) Hiking, Trekking, Mountaineering in High Altitude Areas	3.70	0.40	0.87	0.87	—	0.88	—
ED 18.5	Grant-in-aid to Village Youth Clubs	2.41	0.07	0.50	0.50	—	0.49	—
ED 18.6	Inter-State Tours	5.50	0.53	1.20	1.20	—	1.41	—
ED 18.7	Grant-in-aid to College/Schools Youth Clubs	3.50	0.29	0.60	0.60	—	0.60	—
ED 18.8	Planning Forums	1.14	0.08	0.20	0.20	—	—	—
ED 18.9	N.S.S.	17.63	6.64	7.50	7.50	—	7.50	—
	Total	53.63	11.77	13.00	13.00	—	13.00	—
19. Sports and Games								
ED 19.1	Coaching Schemes	44.00	11.76	5.00	5.00	—	5.75	—
ED 19.2	Competition Scheme	19.75	2.75	4.80	4.80	—	5.00	—
ED 19.3	Scholarships	4.14	0.59	2.50	2.50	—	2.60	—

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Schemes/Project	Five-Year Plan (1978—83) Outlay	1978-79		1979-80		Proposed Outlay (1980-81)		
		Actuals	Approved Outlay	Anticipated Expenditure	Total	Of which capital content	Total	Of which capital content
1	2	3	4	5	6	7	8	
ED 19.4 Construction of Villages and Block level Playgrounds	2.00	0.60	—	—	—	—	—	
ED 19.5 Purchase of Sports Equipment	26.00	4.06	5.00	5.00	—	5.75	—	
ED 19.6 State Sports Academy	1.00	—	—	—	—	1.00	—	
ED 19.7 Sports Hostels	20.91	2.10	4.70	4.70	—	4.90	—	
ED 19.8 Construction of Sports Complexes (grant-in-aid)	43.00	9.00	13.00	13.00	—	13.00	—	
Total	160.80	30.86	35.00	35.00	—	38.00	—	
20. Archives								
ED 20.1 Archives	1.80	0.08	0.50	0.50	—	0.50	—	
Total	1.80	0.08	0.50	0.50	—	0.50	—	
21. Revision of District Gazetteers								
ED 21.1 Revision of District Gazetteers	1.25	0.30	—	—	—	—	—	
Total	1.25	0.30	—	—	—	—	—	
22. Archaeology and Museum								
ED 22.1 Conservation of Ancient and Historical Monuments (office expenses)	—	3.50	5.00	5.00	—	5.00	—	
ED 22.2 Excavations & Exploration	—	0.49	0.40	0.40	—	0.40	—	
ED 22.3 Display Equipment for Museum including Purchase of Art Objects and Antiques	—	0.57	0.80	0.80	—	0.50	—	
ED 22.4 Development of Arch. Lib.	—	—	0.10	0.10	—	0.10	—	
ED 22.5 Equipment & Machinery	—	0.49	0.40	0.40	—	0.50	—	
ED 22.6 Transplantation of Paintings	—	—	0.40	0.40	—	—	—	
ED 22.7 Strengthening of Archaeology & Museum Deptt., administrative and other staff	—	0.85	—	—	—	—	—	
ED 22.8 Publication of Arch. Reports	—	—	—	—	—	0.10	—	
ED 22.9 Landscaping Unit	—	—	—	—	—	0.70	—	
ED 22.10 Setting up of Arch. Lab.	—	0.18	0.40	0.40	—	0.20	—	
Total	40.50	6.08	7.50	7.50	—	7.50	—	

ANNUAL PLAN : 1980-81

STATEMENT II : SCHEMES

HEAD : GENERAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79	1979-80		Proposed Outlay (1980-81)			
		Actuals	Approved Outlay	Anticipated expenditure	Total	Of which capital content		
			Total	Total			Of which capital content	
1	2	3	4	5	6	6	8	
23. Promotion of Art and Culture								
ED 23-1	Revival of Folk Songs, Dances and Promotion of Dramas and Performing Arts	—	—	0.75	0.7	—	0.75	—
ED 23-2	Sponsoring of Cultural Troupe Artists to other States, holding of Cultural/Musical Seminars/Festivals/Competitions, remuneration to experts for giving Lectures on Arts and Culture, awards to Indigent Writers/Artists	—	—	1.25	1.25	—	1.25	—
ED 23-3	Grant-in-aid to Institutions engaged in the Promotion of Art and Culture	—	—	1.00	1.00	—	7.00	—
ED 23-4	Setting up of Punjabi Study and Cultural Centre at Delhi	—	—	—	—	—	6.50	—
Total		17.60	1.43	3.00	3.00	—	15.50	—
Grand Total		4919.00	1504.69	597.00	597.00	101.61	657.00	82.00

ANNUAL PLAN : 1980-81
STATEMENT II : SCHEMES
HEAD : TECHNICAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	Five year Plan (1978-83) outlay	1978-79		1979-80			Proposed outlay 1980-81	
		Actuals	Approved outlay	Anticipated Expenditure	Total	Of which capital content	Total	Of which capital content
1	2	3	4	5	6	7	8	
TECHNICAL EDUCATION								
I—Direction and Administration								
TE 1.1	Strengthening of Directorate	5.30	—	0.80	0.80	—	0.50	—
	Total	5.30	—	0.80	0.80	—	0.50	—
II—Engineering Colleges (Private)								
TE 2.1	Diversified courses at Thapar Institute of Engineering and Technology, Patiala	4.00	—	0.40	0.40	—	0.50	—
TE 2.2	Sandwich type degree course in Textile Technology at Thapar Institute of Engineering and Technology, Patiala	3.00	—	0.40	0.40	—	—	—
TE 2.3	Diversified Degree course in Electronics and Electrical Communication at Guru Nanak Engineering College, Ludhiana	8.00	—	0.80	0.80	—	0.50	—
TE 2.4	Diversified Degree course in Production Engineering (Sandwich type course) at Guru Nanak Engineering College, Ludhiana	3.00	—	0.40	0.40	—	0.50	—
TE 2.5	Production/Service-cum-Training Centre at Engineering Colleges	2.00	—	0.40	0.40	—	0.50	—
TE 2.6	Part-time degree course in Engineering Colleges	2.00	—	1.00	1.00	—	1.00	—
TE 2.7	Revision of staff structure in Engineering Colleges	2.00	—	0.40	0.40	—	0.50	—
TE 2.8	Faculty Exchange Programme and Visiting Professors in residence	1.00	—	0.40	0.40	—	0.50	—
TE 2.9	Consultancy service in Engineering Colleges	2.00	—	0.40	0.40	—	0.50	—

ANNUAL PLAN : 1980-81
STATEMENT II : SCHEMES
HEAD: TECHNICAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	Five year Plan (1978-83) outlay	1978-79		1979-80			Proposed outlay (1980-81)	
		Actuals	Approved outlay	Anticipated Expenditure		Total	Of which capital content	
				Total	Total			Of which capital content
1	2	3	4	5	6	7	8	
TE 2.10	Provision of Implementing Credit System in Engineering Colleges	1.00	—	0.40	0.40	—	1.00	—
TE 2.11	Modernisation of Equipment	10.00	5.33	1.60	1.60	—	1.00	—
TE 2.12	Replacement of Obsolete equipment	2.00	—	0.40	0.40	—	0.50	—
TE 2.13	Diversified degree course in Electronics and Electric communication at Thapar Institute of Engineering and Technology, Patiala	4.80	2.80	0.80	0.80	—	0.25	—
TE 2.14	Creation of post of Training-cum-Placement Officer in Engineering Colleges	1.50	—	—	—	—	0.50	—
TE 2.15	Establishment of Computer Terminal facilities Centre at Guru Nanak Engineering College, Ludhiana	8.00	—	3.50	3.50	—	1.00	—
TE 2.16	Establishment of Computer Terminal facilities Centre at Thapar Institute of Engineering and Technology, Patiala	8.00	—	3.50	3.50	—	1.00	—
TE 2.17	Creation of Development fund for the Development of Guru Nanak Engineering College, Ludhiana	—	—	—	—	—	7.50	—
Total		62.30	8.13	14.80	14.80	—	17.25	—
III. Government Polytechnics								
TE 3.1	1-Year Post Diploma course in Dairy Engineering at Government Polytechnic, Amritsar	1.00	—	0.50	0.50	0.50	0.50	0.50
TE 3.2	1-Year Post Diploma course in Television Technology at Government Polytechnic, Hoshiarpur	1.00	—	0.50	0.50	0.50	0.50	0.50
TE 3.3	1-Year Post Diploma course in Heat Treatment at Government Polytechnic, Batala	1.00	—	0.40	0.40	0.40	0.50	0.50
TE 3.4	Diversified Diploma course in Electronics and Electrical Communication at Government Polytechnic, Hoshiarpur	2.87	1.87	0.40	0.40	—	0.20	—
TE 3.5	Diploma course in Commercial Practice at Government Polytechnic, Hoshiarpur	1.33	1.13	0.25	0.25	—	0.10	—
TE 3.6	Diversified Post Diploma course in Refrigeration and Air-Conditioning at Government Polytechnic, Amritsar	1.00	0.40	0.15	0.15	—	0.10	—

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : TECHNICAL EDUCATION

(Rs. in lakhs)

Name of the Schemes/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated Expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
TE 3·7	Production-cum-Training Centre at Government Polytechnic, Amritsar	5·00	—	1·00	1·00	1·00	1·00	0·50
TE 3·8	Service-cum-Training Centre at Government Polytechnic, Batala	4·00	0·75	1·00	1·00	1·00	1·00	0·50
TE 3·9	Setting up of Government Polytechnic at Bhatinda	10·00	—	—	—	—	4·00	3·00
TE 3·10	Part Time Civil/Electrical/Mechanical Engineering Diploma Course at Government Polytechnic, Hoshiarpur/Batala/Amritsar	6·00	0·10	1·50	1·50	—	1·50	—
TE 3·11	Revision of Staff Structure	2·00	—	10·20	020	—	0·50	—
TE 3·12	Modernisation of Equipment	8·00	1·04	1·60	1·60	—	1·00	—
TE 3·13	Replacement of Obsolete Equipment	2·00	—	0·40	0·40	—	0·50	—
TE 3·14	3-Year Diversified Diploma Course in Civil Engineering Design and Drafting at Government Polytechnic, Amritsar	—	—	—	—	—	0·50	0·50
TE 3·15	Sandwich type 4-Year Diploma Course in new discipline not covered so far	—	—	—	—	—	0·50	—
TE 3·16	Production-cum-Service-cum-Training Centre at Government Polytechnic, Hoshiarpur	—	—	—	—	—	0·50	0·50
TE 3·17	Sandwich type 4-year Diploma course at Mohali—Setting up of a new Government Polytechnic at Mohali (on the pattern of Y.M.C.A. Polytechnic, Faridabad)	—	—	—	—	—	1·55	1·00
TE 3·18	Setting up of Government Polytechnic for Hotel Management and Catering at Amritsar	—	—	—	—	—	2·00	1·00
	Total	45·20	5·29	7·90	7·90	3·40	16·45	8·50
IV. PRIVATE POLYTECHNICS								
TE 4·1	Advance level diploma course in Printing Technology at Thapar Polytechnic, Patiala	15·23	—	5·00	5·00	—	3·00	—
TE 4·2	Three Year Architectural Assistantship course at Thapar Polytechnic, Patiala	2·00	—	0·50	0·50	—	0·50	—
TE 4·3	Diversified 3-Year Diploma Course in Plastic & Rubber Technology at Guru Nanak Engineering, College Ludhiana	1·00	—	0·60	0·60	—	0·50	—
TE 4·4	Diversified 3-Year diploma course in Tool & Die Making Tech. at Guru Nanak Engg. College (Poly.), Ludhiana	2·00	—	0·40	0·40	—	0·50	—

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STATEMENT II : SCHEMES
HEAD : TECHNICAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated Expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
TE 4-5	1-Year Post Diploma course in Electronics at Mehrchand Polytechnic, Jullundur	1.00	—	0.50	0.50	—	0.50	—
TE 4-6	1-Year Post Diploma course in Hospital Engg. at Thapar Polytechnic, Patiala	1.00	—	0.50	0.50	—	0.50	—
TE 4-7	AMIE course at Guru Nanak Engg. College (Poly.), Ludhiana	1.00	—	0.25	0.25	—	0.25	—
TE 4-8	Part time Diploma course in Civil Engg. at Mehrchand Polytechnic, Jullundur	1.00	—	0.25	0.25	—	0.25	—
TE 4-9	Revision of Staff Structure	2.00	—	0.20	0.20	—	0.50	—
TE 4-10	Modernisation of equipment	7.00	0.60	1.20	1.20	—	1.00	—
TE 4-11	Replacement of obsolete equipment	2.00	—	0.40	0.40	—	0.50	—
TE 4-12	Part Time Diploma Courses —							
	(a) Electrical & Civil Engg. Thapar Polytechnic, Patiala	0.40	0.40	—	—	—	—	—
	(b) Mech. Engg. at Guru Nanak Engg. College (P.), Ludhiana	0.13	0.14	—	—	—	—	—
TE 4-3	AMIE course at Thapar Poly., Patiala	—	—	—	—	—	—	—
TE 4-14	Audio-Visual Training Centre at Thapar Polytechnic, Patiala	1.75	0.75	—	—	—	0.50	—
TE 4-15	3-Year Diploma course in Agriculture Engg. at Guru Nanak Engg. College (Poly.), Ludhiana	..	—	—	—	—	0.50	—
TE 4-16	Sandwich type 4-Year Diploma course in Maintenance Engg. at Guru Nanak Engg. College (Poly.), Ludhiana	—	—	—	—	—	0.50	—
TE 4-17	Part Time Diploma course in Electrical Engg. at Guru Nanak Engg. College (Poly.), Ludhiana	—	—	—	—	—	0.30	—
TE 4-18	Sandwich type 4-Year diploma course in New Discipline i.e. not covered so far	—	—	—	—	—	0.50	—
TE 4-19	3-Year Diversified diploma course in Mech. Engg. Design & Drafting at Thapar Polytechnic, Patiala	—	—	—	—	—	0.20	—
		37.51	1.89	9.80	9.80	—	10.50	—
V. INDUSTRIAL TRAINING SCHEMES								
TE 5-1	(a) Introduction of new courses at Govt. Polytechnic for Women, Jullundur	6.66	1.66	1.00	1.00	0.25	4.00	3.00
TE 5-1	(b) Starting of Evening Classes at Govt. Polytechnic for Women, Jullundur	2.50	—	0.50	0.50	—	0.75	—

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STATEMENT II—SCHEMES
HEAD : TECHNICAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79	1979-80			Proposed Outlay (1980-81)	
		Actuals	Approved outlay	Anticipated Expenditure		Total	Of which capital content
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
TE 5·1 (c) Part-Time Diploma course in Pharmacy for Serving persons at Govt. Polytechnic for women, Jullundur	—	—	—	—	—	0·50	—
TE 5·2(a) Modernisation of Building Machinery, Equipment & Library at Govt. Institute of Garment Technology, Amritsar	4·00	—	1·00	1·00	0·25	1·00	0·50
TE 5·2(b) Starting of 2nd Shift at Govt. Institute of Garment Tech., Amritsar	2·50	—	0·50	0·50	—	0·75	—
TE 5·3(a) Modernisation of Building, Machinery, Equipment and Library at Punjab Institute of Textile Technology, Amritsar	6·09	1·09	1·00	1·00	0·25	6·00	4·00
TE 5·3(b) Starting of 2nd Shift at Punjab Institute of Textile Technology, Amritsar	2·50	—	0·50	0·50	—	1·00	—
TE 5·4 Modernisation of Building, Machinery, Equipment and Library at Government Institute of Textile Chemistry & Knitting Technology, Ludhiana	13·95	1·36	2·00	2·00	1·00	6·00	4·00
TE 5·5 Modernisation of Building, Machinery, Equipment and Library at Govt. Tanning Institute, Jullundur	11·80	1·80	1·50	1·50	0·50	6·00	4·00
TE 5·6 Setting up of Govt. Polytechnic for Women at Kheowali (Distt. Faridkot)	—	—	—	—	—	4·00	3·00
Total	50·00	5·94	8·00	8·00	2·25	30·00	18·50
SCHOLARSHIPS							
TE 6·1 Degree students of Engg. Colleges	1·43	0·43	0·10	0·10	—	0·10	—
TE 6·2 Diploma students of Govt. Polytechnics	1·60	0·47	0·10	0·10	—	0·10	—
TE 6·3 Diploma students of Private Polytechnics	1·91	0·93	0·10	0·10	—	0·10	—
Total	4·94	1·83	0·30	0·30	—	0·30	—
7. Faculty Development							
TE 7·1 Training Reserve—							
(a) Engineering Colleges	0·40	—	0·08	0·08	—	0·10	—
(b) Govt. Polytechnics	0·50	—	0·09	0·09	—	0·10	—
(c) Private Polytechnics	0·40	—	0·08	0·08	—	0·10	—
TE 7·2 Purchase of Teaching Aids—							
(a) Government Polytechnics	2·00	1·00	0·30	0·30	—	0·50	—
(b) Private Polytechnics	1·50	0·37	0·25	0·25	—	0·50	—

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HEAD : TECHNICAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978—83) outlay	1978-79		1979-80		Proposed Outlay (1980-81)		
		Actuals	Approved outlay	Anticipated expenditure	Total	Of which capital content	Total	Of which capital content
1	2	3	4	5	6	7	8	
TE 7·3	Quality Improvement Programme	0·75	0·75	—	—	—	—	—
TE 7·4	Training in Technical Training Institute—							
	(a) Govt. Polytechnics	0·48	0·50	—	—	—	—	—
	(b) Private Polytechnics	0·11	0·11	—	—	—	—	—
	Total	6·14	2·73	0·80	0·80	—	1·30	—
	8. Other Programmes							
TE 8·1	Student Amenities —							
	(a) Engineering Colleges	1·00	—	0·12	0·12	—	0·20	—
	(b) Govt. Polytechnics	1·40	0·57	0·16	0·16	0·16	0·40	0·40
	(c) Private Polytechnics	1·10	0·05	0·12	0·12	—	0·40	—
TE 8·2	Development of Libraries —							
	(a) Engineering Colleges	1·10	0·50	0·15	0·15	—	0·10	—
	(b) Government Polytechnics	1·60	0·40	0·30	0·30	—	0·20	—
	(c) Private Polytechnics	1·25	0·25	0·25	0·25	—	0·20	—
TE 8·3	Book Bank for Poor Students —							
	(a) Engineering Colleges	0·80	0·20	0·15	0·15	—	0·10	—
	(b) Government Polytechnics	1·60	0·40	0·30	0·30	—	0·20	—
	(c) Private Polytechnics	1·50	0·05	0·25	0·25	—	0·20	—
TE 8·4	Development of Campus—							
	(a) Engineering Colleges	0·60	—	0·15	0·15	—	0·10	—
	(b) Government Polytechnics	1·20	—	0·30	0·30	0·30	0·40	0·40
	(c) Private Polytechnics	1·00	—	0·25	0·25	—	0·20	—
	(d) Staff Quarters	0·28	—	—	—	—	1·00	1·00
	Total	18·25	2·70	2·50	2·50	0·46	3·70	1·80
TE 9·1	Employment Promotion Programmes (Training of Scheduled Castes)	0·36	0·25	0·10	0·10	—	—	—
	Total	0·36	0·25	0·10	0·10	—	—	—
	Grand Total	228·00	28·73	45·00	45·00	6·11	80·00	28·80

ANNUAL PLAN—1980-81

STATEMENT II: SCHEMES

HEAD : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79		1979-80			Proposed Outlay (1980-81)	
		Actuals	Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content	Total	Of which capital content
1	2	3	4	5	6	7	8	
MEDICAL EDUCATION AND RESEARCH								
1. Direction and Administration								
MD 1.1	Strengthening of office of D.R.M.E, Punjab	2.31	0.35	0.30	0.30	—	1.05	—
Total		2.31	0.35	0.30	0.30	—	1.05	—
2. Medical Relief								
MD 2.1	Expansion & Improvement of S.G.T.B. Hospital, Amritsar	282.80	59.58	60.45	60.45	52.20	52.10	32.00
MD 2.2	Expansion & Improvement of Rajindra Hospital, Patiala	161.10	22.91	35.30	35.30	32.50	54.30	25.00
MD 2.3	Expansion and Improvement of T.B. Hospital, Amritsar	19.00	1.68	5.10	5.10	2.75	4.70	1.70
MD 2.4	Expansion & Improvement of T.B. Hospital, Patiala	9.75	1.95	1.00	1.00	0.50	2.50	1.30
Total		472.65	86.12	101.85	101.85	87.95	113.60	60.00
3. Education								
MD 3.1	Expansion and Improvement of Medical College, Amritsar	64.05	20.40	11.60	11.60	11.00	6.70	4.00
MD 3.2	Expansion and Improvement of Medical College, Patiala	40.50	16.43	2.10	2.10	1.70	3.20	0.80
MD 3.3	Expansion and Improvement of Dental College, Amritsar	6.50	2.05	0.70	0.70	—	1.45	—
MD 3.4	Expansion and Improvement of Dental Wing, Patiala	10.10	—	1.60	1.60	1.00	3.00	1.00
MD 3.5	Extra Coaching to Scheduled Castes M.B.B.S. Students in Medical Colleges	1.40	—	0.35	0.35	—	0.35	—
MD 3.6	Taking over Guru Gobind Singh Medical College, Faridkot	469.48	6.70	103.00	103.00	70.00	109.00	71.00
MD 3.7	Grants to Private Medical Colleges	—	—	—	—	—	—	—
Total		592.03	45.58	119.35	119.35	83.70	123.70	76.80
4. Research								
MD 4.1	Grant for applied Research	4.73	0.73	1.00	1.00	—	2.00	—
Total		4.73	0.73	1.00	1.00	—	2.00	—

ANNUAL PLAN—1980-81
STATEMENT II: SCHEMES
HEAD : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79		1979-80			Proposed Outlay (1980-81)	
		Actuals	Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content	Total	Of which capital content
1	2	3	4	5	6	7	8	
5. Training								
MD 5.1	Augmentation of training facilities for Para-Medical Staff	45.00	—	2.50	2.50	—	2.50	—
Total		45.00	—	2.50	2.50	—	2.50	—
6. Centrally-sponsored schemes having 50% as State Share								
MD 6.1	Reorientation of Medical Education	—	—	—	—	—	16.87	9.00
MD 6.2	Visual Impairment and prevention of Blindness	—	—	—	—	—	5.28	—
Total		—	—	—	—	—	22.15	9.00
Total Medical Education and Research		1116.72	132.78	225.00	225.00	171.65	265.00	145.80
II PUBLIC HEALTH								
1. Minimum Needs Programme								
PH 1.1	Completion and Improvement of Primary Health Centres	127.87	39.88	25.00	25.00	25.00	1.00	1.00
PH 1.2	Completion and Improvement of Sub-Centres	34.70	29.33	—	—	—	—	—
PH 1.3	Establishment of 25-bedded block level Rural Hospitals	695.50	92.42	134.00	134.00	109.00	77.00	2.00
PH 1.4	Opening of Subsidiary Health Centres in Rural Areas	1210.10	147.25	95.46	95.46	10.00	150.00	—
PH 1.5	Improvement of Subsidiary Health Centres	39.48	1.83	10.00	10.00	10.00	1.00	1.00
PH 1.6	Establishment of Dental Clinics in each block	28.35	7.94	4.00	4.00	2.50	6.00	—
PH 1.8	Providing specialists teams in Rural Areas	64.00	—	10.00	10.00	7.50	7.25	—
Total		2200.00	318.65	278.46	278.46	164.00	242.25	4.00
2. Hospitals and Dispensaries								
PH 2.1	Completion and Improvement of existing District Hospitals	31.82	42.89	—	—	—	—	—
PH 2.2	Completion and Improvement of Tehsil and Other Hospitals	20.87	32.12	—	—	—	—	—
PH 2.3	Opening of new dispensaries in Urban Slum Areas/suitable urban places	36.18	9.59	3.00	3.00	—	7.50	—

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Name of the Scheme/Project	1978-79		1979-80			Purposed Outlay (1980-81)	
	Five Year Plan (1978-83) Outlay	Actuals	Approved outlay	Anticipated Expenditure		Total	Of which capital content
			Total	Total	Of which Capital Content		
1	2	3	4	5	6	7	8
PH 2.4 Establishment of Common Medical facilities in Rural Areas one in each district (Pilot Project)	1.67	1.96	—	—	—	—	—
PH 2.5 Improvement of Lady Dufferin Hospital, Patiala	3.31	3.62	—	—	—	—	—
PH 2.6 Improvement of Punjab Mental Hospital, Amritsar	6.05	10.72	1.00	1.00	1.00	0.50	0.50
PH 2.7 Provincialisation of Local Bodies Hospitals/Dispensaries	20.03	1.97	2.50	2.50	—	3.00	—
PH 2.8 Upgradation of existing Hospitals (including establishment of Hospital at S.A.S. Nagar)	347.32	—	60.00	60.00	58.00	33.85	10.00
PH 2.9 Establishment of Intensive Care Unit in District level Hospitals	54.30	—	6.00	6.00	5.00	1.25	—
Total	521.55	102.87	72.50	72.50	64.00	46.10	10.50
3. Training Programme							
PH 3.1 Strengthening of Health and Family Welfare Training Centre at Jullundur (Estt. of Rural Medical Institute)	0.30	0.01	—	—	—	—	—
Total	0.30	0.01	—	—	—	—	—
CONTROL/ERADICATION OF COMMUNICABLE DISEASES							
Centrally-sponsored Schemes to be continued on 50:50 sharing basis (State Share)							
PH 4.1 National Malaria Eradication Programme (Rural)	—	—	—	—	—	107.00	—
PH 4.2 National Malaria Eradication Programme (Anti-Larval)	—	—	—	—	—	16.00	—
PH 4.3 National Malaria Eradication Programme (Urban Spray)	43.60	2.38	3.60	3.60	2.60	2.00	—
PH 4.4 National T.B. Control Programme	17.94	1.78	4.40	4.40	3.40	11.45	—
PH 4.5 National Leprosy Control Programme	—	—	—	—	—	2.65	0.50
PH 4.6 National Programme for Control of Visual Impairment & Blindness including Trachoma	20.34	6.53	1.10	1.10	—	2.30	—

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

Head : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79		1979-80		Proposed Outlay (1980-81)	
		Actuals	Approved Outlay	Anticipated Expenditure		Total	Of which Capital Content
				Total	Of which Capital Content		
1	2	3	4	5	6	7	8
PH 4.7 Training & Employment of Multi-purpose Workers Scheme	—	—	—	—	—	12.40	—
Total	81.88	10.69	9.10	9.10	6.00	153.80	0.50
5. Other Programmes							
PH 5.1 Administrative Re-organisation of the Punjab Health Department	13.60	3.24	0.60	0.60	—	—	—
PH 5.2 Immunisation against Polio	1.00	0.95	—	—	—	—	—
PH 5.3 Strengthening of State Health and District Laboratories	8.65	1.67	1.35	1.35	—	0.65	—
PH 5.4 Strengthening of Drug & Food Standard Control Organisation	7.66	—	2.36	2.36	—	2.50	—
PH 5.5 Strengthening of Health Statistics Organisation	1.94	0.28	0.34	0.34	—	—	—
PH 5.6 Organisation of Mass Sterilisation Camps for Scheduled Castes Couples offering of higher incentives	—	—	—	—	—	—	—
PH 5.7 Multipurpose Workers Scheme	97.90	6.07	30.00	30.00	—	20.00	—
PH 5.8 Establishment of Central Medical Store Depot, Punjab	15.20	—	4.20	4.20	—	2.70	—
PH 5.9 Additional vehicles required for implementing integrated health services scheme	15.50	—	5.00	5.00	5.00	—	—
PH 5.10 Establishment of Health Equipment Maintenance and Repair Unit	36.87	—	6.37	6.37	—	1.50	—
PH 5.11 Expansion of Immunisation Programme	3.62	—	2.62	2.62	—	0.45	—
PH 5.12 Training to Scheduled Castes as Multipurpose Health Workers	0.30	0.35	—	—	—	—	—
PH 5.13 Community Health Volunteers Scheme	—	—	—	—	—	10.50	—
Total	202.24	12.56	52.84	52.84	5.00	38.30	—
6. Employees State Insurance Corporation							
PH 6.1 E.S.I. Scheme	68.71	4.50	11.10	11.10	—	19.55	2.05
Total	68.71	4.50	11.10	11.10	—	19.55	2.05
Total : Public Health	3074.68	449.28	424.00	424.00	239.00	500.00	15.00

ANNUAL PLAN 1980-81

STATEMENT II SCHEMES

Head : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated Expenditure		Total	Of which Capital Content	
				Total	Of which Capital Content			
1	2	3	4	5	6	7	8	
III. I.S.M. & HOMOEOPATHY								
AY 1.1	Strengthening of existing I.S.M. and Homoeopathic Dispensaries	27.57	—	4.50	4.50	—	5.50	—
AY 1.2	Opening of I.S.M. and Homoeopathic Dispensaries	88.05	10.08	7.00	7.00	—	13.83	—
AY 1.3	Improvement and expansion of Govt. Ayurvedic College, Patiala	9.98	—	1.13	1.13	—	1.70	1.00
AY 1.4	Improvement and expansion of Govt. Ayurvedic Hospital, Patiala	22.85	—	5.00	5.00	5.00	2.27	2.27
AY 1.5	Improvement and expansion of Govt. Ayurvedic Pharmacy, Patiala	23.00	—	4.40	4.40	4.00	4.70	2.00
AY 1.6	Strengthening of Ayurvedic Headquarters Staff	6.45	—	1.27	1.27	—	1.25	—
AY 1.7	Strengthening of District Headquarters Staff	29.70	—	7.70	7.70	—	5.75	—
Total		207.60	10.08	31.00	31.00	9.00	35.00	5.27
Grand Total		4,399.00	*592.14	680.00	680.00	419.65	800.00	166.07

*This does not include the expenditure for Centrally-sponsored Schemes which have been transferred to State sector since 1979-80.

ANNUAL PLAN, 1980-81
STATEMENT II SCHEMES
HEAD : RURAL WATER-SUPPLY

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) outlay	1978-79	1979-80			Proposed outlay (1980-81)	
		Actuals	Approved outlay	Anticipated expenditure	Total	Of which capital content	
			Total	Total	Of which capital content		
1	2	3	4	5	6	7	8
Rural Water Supply	2,905.00	403.39	500.00	500.00	—	500.00	—

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : HOUSING

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved Outlay	Anticipated Expenditure	Of which capital content	Total	Of which capital content
			Total	Total			
1	2	3	4	5	6	7	8
HOUSING							
Government Residential Buildings							
HG 1.1	At district/tehsil headquarters	1179.00	54.47	200.00	200.00	200.00	200.00
HG 1.2	At places other than district/tehsil headquarters		2.51	15.00	15.00	15.00	15.00
HG 1.3	At focal points	206.00	36.00	50.00	50.00	50.00	50.00
HG 1.4	For Government employees at Chandigarh	455.00	50.00	90.00	90.00	90.00	90.00
Total		1840.00	142.98	355.00	355.00	355.00	355.00
Other Housing Schemes							
HG 2.1	Subsidised Industrial housing	88.00	—	9.00	9.00	9.00	9.00
HG 2.2	Harijan houses	440.00	100.00	70.00	70.00	70.00	70.00
HG 2.3	Loans for Low Income Group houses	310.00	70.00	60.00	60.00	60.00	60.00
HG 2.4	Loans to Government servants	879.00	161.98	160.00	160.00	160.00	200.00
HG 2.5	Loans for building houses in urban estates	235.00	25.00	60.00	60.00	60.00	60.00
HG 2.6	House-sites for landless workers	—	1.62*	—	—	—	—
HG 2.7	Village Housing Project Scheme	—	49.70**	—	—	—	50.00
Total		1952.00	408.30	359.00	359.00	359.00	449.00
3. Other Programmes							
HG 3.1	Contribution to Housing Board	520.00	173.04	70.00	70.00	70.00	70.00
4. Police Housing and Jail Buildings							
HG 4.1	Houses for Police	882.00	84.10	150.00	150.00	150.00	150.00
Grand Total		5194.00	808.42	934.00	934.00	934.00	1024.00

@Figures are provisional.

*The department has intimated this expenditure on decretal liability.

**L.I.C. loan of Rs. 50 lakhs for this scheme was received at the fag end of the year, out of which Rs.49.70 lakhs were spent.

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : URBAN DEVELOPMENT

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated Expenditure		Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
URBAN DEVELOPMENT								
JD-1	Urban Estates	2400·00	368·32	400·00	400·00	400·00	400·00	400·00
UD-2	Loans to Municipal Committees—							
	(a) Urban water supply sewerage	4995·00†	135·00	1500·00*	1500·00	1500·00	1707·32×	1707·32
	(b) Other development works	—	—	—	—	—	—	—
UD-3	Assistance to Improvement Trusts—							
	(a) General activities	150·00	45·00	15·00	15·00	15·00	15·00	15·00
	(b) Allotment of plots to urban harijans	145·00	10·00	15·00	15·00	15·00	15·00	15·00
UD-4	Town and Regional Planning—							
	(a) Rural sector area planning	} 108·00	17·00	18·00	18·00	—	18·00	—
	(b) Urban sector area planning (new towns)							
UD-5	Integrated Urban Development Programme	200·00	—	—	—	—	150·00	150·00
JD-6	Slum clearance/improvements	50·00	—	2·00	2·00	2·00	2·00	2·00
JD-7	Water-Supply and Sewerage Board	400·00	170·00	50·00	50·00	50·00	100·00	100·00
UD-8	Sewage Sullage Utilisation Scheme	—	—	—	—	—	50·00	50·00
UD-9	Setting up of Compost Plants at Amritsar, Jullundur and Ludhiana	—	—	—	—	—	42·68	42·68
UD-10	Conversion of dry latrines into sanitary ones	—	—	—	—	—	—	—
D-11	Urban solid waste disposal	—	—	—	—	—	—	—
Total		8448·00	745·32	2000·00	2000·00	1982·00**	2500·00	2482·00

@ Figures are provisional.

† Includes L.I.C. loan of Rs. 16.25 crores.

* Includes L.I.C. loan of Rs. 600 lakhs.

× Includes L.I.C. loan of Rs. 610 lakhs.

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD : INFORMATION AND PUBLICITY

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)			
			Approved Outlay	Anticipated Expenditure	Of which capital content	Total	Of which capital content		
			Total	Total					
1	2	3	4	5	6	7	8		
I.—Direction and Administration									
IP 1.1	Strengthening of the Department of Public Relations	15.00	3.00	3.00	3.00	..	3.00	..	
IP 1.2	Purchase of books for library at headquarters	..	2.10	0.44	0.40	0.40	..	0.40	..
IP 1.3	Feed Back Studies	..	0.40	..	0.10	0.10	..	0.10	..
	Total	..	17.50	3.44	3.50	3.50	..	3.50	..
2. Films									
IP 2.1	Purchase and Production of Films	..	31.00	4.84	6.00	6.00	..	6.00	..
	Total	..	31.00	4.84	6.00	6.00	..	6.00	..
3. Field Publicity									
IP 3.1	Field Publicity	..	45.00	7.95	9.00	9.00	..	10.00	..
IP 3.2	Audio-broadcasting	..	2.00	0.19	0.40	0.40	..	..	..
IP 3.3	Television scheme	..	7.00	2.64	1.00	1.00	..	2.00	..
IP 3.4	Purchase and production of literature	..	15.00	2.70	3.00	3.00	..	2.00	..
	Total	..	69.00	13.48	13.40	13.40	..	14.00	..
4. Song and Drama Services									
IP 4.1	Song and Drama	..	20.00	4.00	4.00	4.00	..	4.00	..
IP 4.2	Setting up of State Cultural Troupe	..	1.50	2.35	..	..	..	..	..
IP 4.3	Light and Sound	..	20.00	..	5.00	5.00	..	4.00	..
	Total	..	41.50	6.35	9.00	9.00	..	8.00	..
5. Advertising and Visual Publicity									
IP 5.1	Community Listening	..	0.50	0.05	0.10	0.10	..	0.10	..
IP 5.2	Exhibitions	..	15.00	2.65	3.00	3.00	..	2.40	..
IP 5.3	Display Advertisement	..	14.80	4.00	2.70	2.70	..	3.50	..
IP 5.4	Wall Paintings	..	1.70	0.45	0.30	0.30	..	0.50	..
	Total	..	32.00	7.15	6.10	6.10	..	6.50	..
6. Information Centres									
IP 7.1	Teleprinters Lines	..	10.00	1.34	2.00	2.00	..	2.00	..
	Total	..	10.00	1.34	2.00	2.00	..	2.00	..
	Grand Total	..	201.00	36.60	40.00	40.00	..	40.00	..

ANNUAL PLAN 1980-81
STATEMENT II : SCHEMES
HEAD : LABOUR AND LABOUR WELFARE

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80		Proposed Outlay (1980-81)			
			Approved Outlay	Anticipated	Expenditure	Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
I. LABOUR WELFARE								
1. Industrial Relations								
LW 1.1	Strengthening of Industrial relations machinery and machinery for enforcement of labour laws	5.40	4.20	..	..	..	..	..
LW 1.2	Strengthening of arbitration machinery	1.13	..	0.20	0.20	..	0.20	..
	Total	..	6.53	4.20	0.20	0.20	..	0.20
2. Working Conditions and Safety								
LW 2.1	Strengthening of enforcement machinery for Minimum Wages Act, 1948	6.37	..	1.67	1.67	..	1.67	..
LW 2.2	Strengthening of Factory Inspectorate	1.30	..	0.30	0.30	..	0.30	..
LW 2.3	Setting up of Safety Cell	..	3.83	..	0.83	0.83	..	0.83
	Total	..	11.50	..	2.80	2.80	..	2.80
3. General Labour Welfare								
LW 3.1	Labour Welfare Centres	..	1.80	1.80	..	..	..	..
LW 3.2	Setting up of a mobile medical laboratory for examination of industrial workers	..	5.00	..	0.90	0.90	..	0.90
	Total	..	6.80	1.80	0.90	0.90	..	0.90
4. Research and Statistics								
LW 4.1	Strengthening of Statistical Section	..	0.58	..	0.10	0.10	..	0.10
	Total	..	0.58	..	0.10	0.10	..	0.10
	Total : Labour Welfare	..	25.41	6.00	4.00	4.00	..	4.00
II. EMPLOYMENT SERVICES								
1. Employment Exchanges								
EE 1.1	Expansion of employment services	..	11.94	4.07	1.84	1.84	..	2.00
EE 1.2	Collection of employment market information	..	2.20	0.46	0.16	0.16	..	..
EE 1.3	Vocational guidance	..	0.45	0.38	..	..	..	..
EE 1.4	Unemployment allowance to educated unemployed	..	87.00	5.20	20.00	20.00	..	20.00
	Total : Employment Services	..	101.59	10.11	22.00	22.00	..	22.00

ANNUAL PLAN—1980-81

STATEMENT II: SCHEMES

HEAD : LABOUR AND LABOUR WELFARE

(Rs. lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80		Proposed Outlay (1980-81)			
			Approved outlay	Anticipated expenditure	Total	Of which capital content		
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
III. INDUSTRIAL TRAINING								
1. Craftsmen Training								
IT(C) 1.1	Conversion of unpopular trades into popular ones	22.00	0.41	5.00	5.00	—	5.00	—
IT(C) 1.2	Addition to and replacement of tools and equipment	22.00	3.72	5.00	5.00	—	5.00	—
IT(C) 1.3	Training, seminars and study tours of staff	5.00	0.70	1.00	1.00	—	2.00	—
IT(C) 1.4	Completion of ITI buildings and construction of I.T.I. Building at Nabha	33.00	8.00	8.00	8.00	8.00	12.00	12.00
IT(C) 1.5	Training-cum-placement cell	3.00	1.05	0.80	0.80	—	0.80	—
IT(C) 1.6	Apprenticeship Training Wing ..	2.50	0.07	0.50	0.50	—	0.50	—
IT(C) 1.7	Mobile Training Centres in rural areas	5.75	2.76	—	—	—	0.50	—
IT(C) 1.8	Consolidation and expansion of Industrial Training Institute, Lalru	2.30	2.24	—	—	—	—	—
IT(C) 1.9	Consolidation and expansion of Industrial Training Institute, Baba Bakala	1.75	1.70	—	—	—	—	—
IT(C) 1.10	Instructional Centre at Chandigarh ..	2.00	—	0.50	0.50	—	0.70	—
IT(C) 1.11	Modernisation of Industrial Training Institute, Patiala under U.N.D.P./I.L.O. Programme	15.00	1.45	7.00	7.00	4.00	5.00	1.00
IT(C) 1.12	Conversion of R.A.T.Cs/J.T.Ss./ G.I.-Ss. into ITIs and opening of new ITIs in non-represented areas	40.00	—	7.20	7.20	2.50	15.00	3.00
IT(C) 1.13	New Apprenticeship scheme outside the Apprenticeship Act, 1961	3.00	1.90	—	—	—	—	—
IT(C) 1.14	Training-cum-production Centres in I. T.Is	—	—	—	—	—	3.00	—
	Total ..	157.30	24.00	35.00	35.00	14.50	49.50	16.00
2. Industrial Schools for Girls								
IT(S) 2.1	Completion of building of Government Industrial Teachers Training Institute, Jullundur	4.00	—	2.00	2.00	2.00	1.00	1.00
IT(S) 2.2	Construction of new buildings for schools	26.37	—	3.00	3.00	3.00	8.00	8.00
IT(S) 2.3	Opening of new industrial schools and introduction of additional seats in existing schools	28.00	9.98	2.50	2.50	—	3.00	—
IT(S) 2.4	Opening of new teachers training classes	6.00	1.16	1.00	1.00	—	1.00	—

ANNUAL PLAN—1980-81
STATEMENT II: SCHEMES
HEAD LABOUR AND LABOUR WELFARE

(Rs. lakhs)

Name of Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80		Proposed Outlay (1980-81)			
			Approved outlay	Anticipated expenditure	Total	Of which capital content		
			Total	Total			Of which capital content	
1	2	3	4	5	6	7	8	
IT(S) 2.5	Opening of training-cum-Production Centres	5.00	0.83	1.00	1.00	—	1.00	—
IT(S) 2.6	Study tours, training and re-training educational study tours and seminars and conferences.	2.50	0.41	0.50	0.50	—	0.50	—
IT(S) 2.7	Modernisation and replacement of machinery in schools	3.50	—	2.00	2.00	—	2.00	—
IT(S) 2.8	Mobile Training Centres for Women in rural areas	—	—	—	—	—	2.00	—
	Total	75.37	12.38	12.00	12.00	5.00	18.50	9.00
3. Professional Training								
IT(P) 3.1	Construction of building for Arts and Crafts Teachers Training Institute at Amritsar	27.00	—	2.00	2.00	2.00	2.00	2.00
IT(P) 3.2	Starting of Arts and Crafts Teachers Training Institute	2.00	1.87	—	—	—	—	—
IT(P) 3.3	Training of skilled workers in foot wear at Tanning Institute, Jullundur	0.28	0.22	—	—	—	—	—
IT(P) 3.4	Training of skilled workers for Sports Industry	0.30	0.20	—	—	—	—	—
IT(P) 3.5	Private Arts & Crafts Teachers Training Institute	0.75	0.60	—	—	—	—	—
	Total	30.33	2.89	2.00	2.00	2.00	2.00	2.00
	Total: Industrial Training	263.00	39.27	49.00	49.00	21.50	70.00	27.00
	Grand Total	390.00	55.38	75.00	75.00	21.50	96.00	27.00

ANNUAL PLAN -1980-81

STATEMENT II: SCHEMES

HEAD: WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES

(Rs. lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83)	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved outlay	Anticipated expenditure	Of which capital content	Total	Of which capital content	
			Total	Total				
1	2	3	4	5	6	7	8	
1. Education Programme								
SC 1.1	Pre-matric coaching to students ..	124.10	15.10	24.00	24.00	—	19.00	—
SC 1.2	Grant for the purchase of stationery and books (6th to 8th class students)	106.40	18.00	22.40	22.40	—	22.40	—
SC 1.3	Grant for the purchase of law, medical and engineering books	18.05	0.81	2.25	2.25	—	2.25	—
SC 1.4	Training in Stenography ..	16.70	—	2.00	2.00	—	2.00	—
SC 1.5	BEd. and J.B.T. training to Scheduled Caste Graduates and Matriculates	—	—	—	—	—	5.00	—
	Total ..	265.25	33.91	50.65	50.65	—	50.65	—
2. Economic Uplift								
SC 2.1	Subsidy for the purchase of:							
	(a) Agricultural land ..	102.20	7.20	15.00	15.00	—	15.00	—
	(b) Houses/wells on land ..	20.50	1.44	3.00	3.00	—	3.00	—
	(c) Stamp duty ..	4.10	0.26	0.60	0.60	—	0.60	—
SC 2.2	Technical Training in Industrial trades ..	46.25	7.20	8.00	8.00	—	8.00	—
SC 2.3	Punjab Backward Classes Land Development and Finance Corporation	210.00	30.00	30.00	30.00	30.00	30.00	30.00
SC 2.4	Punjab Scheduled Castes Land Development and Finance Corporation	200.00	—	—	—	—	50.00	50.00
SC 2.5	Staff for the scheme Interest Free Loans to Scheduled Castes going abroad for employment	0.85	—	0.25	0.25	—	0.20	—
SC 2.6	Subsidy on interest rates for—							
	(a) Scheduled Castes ..	200.00	—	—	—	—	60.00	—
	(b) Backward Classes ..	100.00	—	—	—	—	40.00	—
	Total ..	883.90	46.10	56.85	56.85	30.00	206.80	80.00
3. Health, Housing and Other Programmes								
SC 3.1	Legal Aid ..	4.75	0.04	0.50	0.50	—	0.30	—
SC 3.2	Construction of Dharamshalas/Chaupals	270.00	33.40	40.00	40.00	—	40.00	—
SC 3.3	Environmental Improvement of Harijan Basties including drinking water wells	401.50	73.60	74.00	74.00	—	74.00	—
SC 3.4	Construction of houses for Sweepers/Scavengers, Flayers and Tanners	201.25	27.14	28.00	28.00	—	27.00	—
SC 3.5	Opening of Creches for the children of working sweeper, scavenger mothers	3.60	1.50	—	—	—	—	—
	Total ..	881.10	135.68	142.50	142.50	—	141.30	—

ANNUAL PLAN 1980-81

STATEMENT II : SCHEMES

HEAD : WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved Outlay		Anticipated expenditure	Total	Of which capital content
			Total	Total				Of which capital content
1	2	3	4	5	6	7	8
4. Welfare of Vimukat Jaties							
SC 4.1 | Construction of Houses for Vimukat Jaties	99.75	13.50	14.00	14.00	—	13.00	—
Total	99.75	13.50	14.00	14.00	—	13.00	—
5. Centrally Shared Schemes (State Share)							
SC 5.1 | I.A.S. Coaching Centre, Patiala	—	—	—	—	—	1.50	—
SC 5.2 | Girls Hostels	—	—	—	—	—	0.75	—
Total	—	—	—	—	—	2.25	—
Grand Total	2130.00	229.19	264.00	264.00	30.00	414.00	80.00

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : SOCIAL WELFARE

(Rs. in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978—83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated expenditure		Total	Of which capital content	
				Total	Total			Of which capital content
1	2	3	4	5	6	7	8	
1. Direction and Administration								
SW 1·1	Research, Training and Administration	2·56	0·24	0·44	0·44	—	0·50	—
	Total	2·56	0·24	0·44	0·44	—	0·50	—
2. Family and Child Welfare								
SW 2·1	Assistance to dependent children	106·00	18·00	10·00	10·00	—	17·00	—
SW 2·2	Construction of Certified School	8·80	—	5·00	5·00	5·00	3·80	3·80
SW 2·3	Reception-cum-Observation Homes	1·80	1·85	—	—	—	—	—
SW 2·4	I.Y.C.	100·00	—	16·90	16·90	—	13·00	—
	Total	216·60	19·85	31·90	31·90	5·00	33·80	3·80
3. Women Welfare								
SW 3·1	Assistance to widows and destitute women	172·50	40·50	12·66	12·66	—	23·00	—
SW 3·2	Home for widows and destitute women	3·58	0·94	0·30	0·30	—	0·50	—
	Total	176·08	41·44	12·96	12·96	—	23·50	—
4. Welfare of Handicapped								
SW 4·1	Scholarships to the handicapped	3·00	0·14	1·00	1·00	—	0·45	—
SW 4·2	Supply of prosthetic aid to the handicapped	2·25	0·25	0·44	0·44	—	0·50	—
SW 4·3	Home for mentally retarded children	0·90	0·90	—	—	—	—	—
SW 4·4	Assistance for victims of chronic diseases	1·00	1·03	—	—	—	—	—
	Total	7·15	2·32	1·44	1·44	—	0·95	—
5. Eradication of Beggary								
SW 5·1	Eradication of Beggary	0·70	0·64	—	—	—	—	—
	Total	0·70	0·64	—	—	—	—	—
6. Other Programmes								
SW 6·1	Grant-in-aid to voluntary Organisations	7·16	2·00	1·50	1·50	—	1·00	—
SW 6·2	Grant-in-aid to the P.G.I. for the blind	7·30	—	1·76	1·76	—	1·75	—
	Total	14·46	2·00	3·26	3·26	—	2·75	—
7. Punjab State Women and Child Welfare Corporation								
SW 7·1	Share capital contribution to Punjab State Women and Child Welfare Corporation	124·45	—	30·00	30·00	30·00	20·00	20·00
	Total	124·45	—	30·00	30·00	30·00	20·00	20·00
8. Centrally Shared Scheme								
SW 8·1	Services for Children in need of Care and Protection	—	—	—	—	—	1·50	—
	Total	—	—	—	—	—	1·50	—
	Total—Social Welfare	542·00	66·49	80·00	80·00	35·00	83·00	23·80

ANNUAL PLAN 1980-81

STATEMENT II SCHEMES

HEAD : SOCIAL WELFARE

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated Expen- diture	Expen- diture	Total	Of which capital content	
			Total	Total	Of which capital content			
1	2	3	4	5	6	7	8	
DEFENCE SERVICES WELFARE								
PUNJAB EX-SERVICEMEN CORPORATION								
DSW 1	Share Capital contribution to Punjab Ex-Servicemen Corporation	50.00	—	—	—	—	5.00	5.00
	Total	50.00	—	—	—	—	5.00	5.00
	Grand Total	592.00	66.49	80.00	80.00	35.00	88.00	28.80

ANNUAL PLAN : 1980-81
STATEMENT II : SCHEMES
HEAD : NUTRITION

(Rs in lakhs)

Name of the Scheme/Project	Five-Year Plan (1978-83) Outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)		
			Approved Outlay	Anticipated Expen- diture		Total	Of which capital content	
				Total	Total			Of which capital content
1	2	3	4	5	6	7	8	
1. NUTRITION								
1. Special Nutrition Programme								
N 1.1	Programme for pre-school children ..	94.00	5.41	11.30	11.30	—	11.30	—
N 1.2	Programme for pregnant and lactating mothers	13.85	0.90	1.70	1.70	—	1.70	—
2. I.C.S.D. Projects								
N 2.1	Nutritional diet under projects ..	42.15	2.15	3.00	3.00	—	3.00	—
Total		150.00	8.46	16.00	16.00	—	16.00	—

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : OTHER GENERAL ECONOMIC SERVICES

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed Outlay (1980-81)	
			Approved outlay	Anticipated Expenditure	Of which capital content	Total	Of which capital content
			Total	Total			
1	2	3	4	5	6	7	8
Other General Economic Services							
Statistics							
ST 1.1	Strengthening of statistical machinery at different levels ..	13.27	12.91	This scheme has been converted into committed expenditure on the Non-Plan side during 1979-80.			
ST 1.2	Preparation of indices of Industrial production and collection of statistics of small scale industries ..	1.58	1.54		Ditto		
ST 1.3	Study of impact on employment in command areas of power projects and their spread effects on employment in adjoining areas ..	0.57	0.56		Ditto		
ST 1.4	Additional staff for machine tabulation unit ..	0.08	0.07	This scheme was discontinued during the year 1979-80			
ST 1.5	Estimation of capital formation ..	11.68	—	2.58	2.58	—	3.08
ST 1.6	Strengthening of district statistical offices and headquarters ..	20.43	—	5.20	5.20	—	10.00
ST 1.7	Editing section at headquarters ..	1.34	—	0.52	0.52	—	—
ST 1.8	Setting up of data Bank ..	7.65	—	1.80	1.80	—	—
ST 1.9	Purchase of computer timings ..	0.52	—	0.20	0.20	—	0.20
ST 1.10	Surveys and studies ..	7.88	—	1.80	1.80	—	2.64
ST 1.11	Strengthening of Evaluation section ..	6.45	—	1.40	1.40	—	1.98
ST 1.12	Training of statistical personnel ..	6.55	—	1.50	1.50	—	1.70
ST 1.13	Economic Analysis Unit ..	—	—	—	—	—	2.00
Total ..		78.00	15.08	15.00	15.00	—	21.60

ANNUAL PLAN—1980-81

STATEMENT H : SCHEMES

HEAD : OTHER GENERAL ECONOMIC SERVICES

								(Rs. in lakhs)	
Name of the Scheme/Project	Five Year Plan (1978-83) Outlay	1978-79		1979-80		Proposed outlay (1980-81)			
		Actuals	Approved outlay	Anticipated Expendi- ture	Of which capital content	Total	Of which capital content		
								Total	Total
1	2	3	4	5	6	7	8		
Planning Machinery									
PM 2.1	Additional staff at headquarters, accommodation and other facilities for them					8.00	—		
PM 2.2	Planning Machinery at the district and block levels					0.05	—		
PM 2.3	Data processing, maintenance and retrieval equipment					0.25	—		
PM 2.4	In service training in planning techniques and procedures	40.00	—	10.00	10.00	—	0.45		
PM 2.5	Strengthening and improvement of Planning Board Library					0.60	—		
PM 2.6	Surveys and studies relating to planning					0.35	—		
PM 2.7	Seminars and workshops on State Planning and participation in conferences on planning					0.30	—		
Total		40.00	—	10.00	10.00	—	10.00		

ANNUAL PLAN—1980-81

STATEMENT II : SCHEMES

HEAD : GENERAL SERVICES

(Rs. in lakhs)

Name of the Scheme/Project	Five Year Plan (1978-83) outlay	1978-79 Actuals	1979-80			Proposed outlay (1980-81)	
			Approved outlay		Anticipated Expenditure	Total	
			Total	Total		Of which capital content	Of which capital content
1	2	3	4	5	6	7	8
GENERAL SERVICES							
Stationery and Printing :							
PT 1.1 (a) Opening of Typewriter workshops at Amritsar, Ferozepur, Hoshiarpur and Sangrur	2.80	2.84	—	—	—	—	—
(b) Opening of typewriter workshops at Ropar, Faridkot and Kapurthala	4.30	—	0.50	0.50	—	0.90	—
PT 1.2 Strengthening of Central Workshops and headquarters at Chandigarh	2.02	0.56	0.15	0.15	—	0.30	—
PT 1.3 (a) Extension in Press Building at Patiala	3.49	7.07	0.50	1.50	1.50	1.50	1.50
(b) Additional machinery and equipment for Government Press and Ticket Printing Unit, Patiala	26.84	—	2.50	2.50	2.50	2.00	2.00
(c) Construction of staff quarters at Patiala	0.23	—	0.23	1.23	1.23	0.50	0.50
PT 1.4 (a) Construction of Government Press at S.A.S. Nagar	14.35	8.42	6.00	4.00	4.00	2.00	2.00
(b) Machinery and equipment for Government Press at S.A.S. Nagar	11.15	—	—	—	—	3.00	3.00
PT 1.5 Additional staff for Government Press Patiala (Ticket printing Unit) and Government Press at S.A.S. Nagar	2.33	—	1.00	1.00	—	0.68	—
PT 1.6 Apprenticeship scheme for 10 typewriter mechanics	0.60	0.07	0.12	0.12	—	0.12	—
Total	68.11	18.96	11.00	11.00	9.23	11.00	9.00
GENERAL SERVICES							
Film Corporation :							
2.1 Share capital contribution to Punjab Films and News Corporation	—	—	—	—	—	—	—
Punjab Civil Supplies Corporation :							
3.1 Share capital contribution to PUNSUP	124.00	9.00	10.00	10.00	10.00	10.00	10.00
Total	124.00	9.00	10.00	10.00	10.00	10.00	10.00
Public Works :							
PW 4.1 Divisional Offices and tehsil buildings	433.00	29.42	75.00	75.00	75.00	89.00	89.00
PW 4.2 Courts	50.00	1.64	9.00	9.00	9.00	12.00	12.00
PW 4.3 Patwar Khanas	100.00	—	18.00	18.00	18.00	21.00	21.00
PW 4.4 Police Stations	100.00	—	50.00	50.00	50.00	50.00	50.00
PW 4.5 Jails	350.00	54.14	75.00	75.00	75.00	75.00	75.00
PW 4.6 Circuit Houses and Rest Houses	111.50	85.42*	5.00	5.00	5.00	23.00	23.00
Total	1144.50	170.62*	232.00	232.00	232.00	270.00	270.00

*Figures are provisional.

ANNUAL PLAN—1980-81
STATEMENT II : SCHEMES
HEAD : GENERAL SERVICES

(Rs. in lakhs)

Name of the Scheme/Project	Five year Plan (1978-83) outlay	1978-79 Actuals	1979—80			Proposed outlay (1980-81)		
			Approved Outlay	Anticipated Expenditure	Total	Of which capital content		
			Total	Total	Of which capital content	Total	Of which capital content	
1	2	3	4	5	6	7	8	
Administrative Training Institute								
5.1	Establishment of Administrative Training Institute	.. 54.50	4.50	10.00	10.00	10.00	10.00	10.00
	Total	.. 54.50	4.50	10.00	10.00	10.00	10.00	10.00

ANNUAL PLAN — 1980-81

STATEMENT III

Targets of production and Physical Achievements

Serial No.	Item	Unit	Five year Plan 1978-83		1978-79 Achievement (P)	Target	1979-80	1980-81
			1977-78 Base year Level	1982-83 Terminal year Target			Anticipated Achievement	Proposed target
1	2	3	4	5	6	7	8	9
I. AGRICULTURE AND ALLIED SERVICES								
1. Production of foodgrains								
(a)	Rice	000 tonnes	2494	3900	3091	3100	2850	3250
(b)	Wheat	"	6639	7400	7423	6900	6900	7100
(c)	Jowar	"	1	5	1	2	2	2
(d)	Bajra	"	119	75	95	100	50	90
(e)	Maize	"	681	650	698	650	590	700
(f)	Other cereals	"	70	50	56	50	40	75
(g)	Pulses	"	343	420	312	398	318	383
	Total Food grains	"	10347	12500	11676	11200	10750	11600
2. Commercial Crops								
(a)	Cotton	000' bales	1224	1500	1325	1350	1120	1350
(b)	Jute and Masta	"	—	—	—	—	—	—
(c)	Sugarcane	000' tonnes	652	750	607	700	500	700
(d)	Oilseeds (Major oilseeds)	"	227	300	180	299	150	300
(i)	Groundnut	"	154	160	114	164	96	165
(ii)	Castor seed	"	—	—	—	—	—	—
(iii)	Sesamum	"	4	5	6	5	3	5
(iv)	Rapeseed and Mustard	"	68	133	58	128	50	128
(v)	Linseed	"	1	2	2	2	1	2
(vi)	Others	"	—	—	—	—	—	—
3. Chemical Fertilizers								
		000' tonnes						
(a)	Nitrogenous (N)	"	331	600	420	525	550	575
(b)	Phosphatic (P)	"	105	260	155	200	225	250
(c)	Potassic (K)	"	29	40	28	40	40	40
	Total	"	465	900	603	765	815	865
4.	Plant Protection of technical grade material	000' tonnes	3.8	5.0	4.0	4.2	4.2	4.2
5. (i) Area under distribution of —								
(a)	Fertilizers	000' Hect.	NA					
(b)	Pesticides							

Serial No.	Item	Unit	Five-year Plan 1978-83		1978-79 Achievement	1979-80	1980-81	
			1977-78 Base year Level	1982-83 Terminal year Target		Target	Anticipated Achievement	Proposed target
1	2	3	4	5	6	7	8	9
5	(ii) Area under High Yielding Varieties							
	(a) Paddy	.. 000 Hect.	768	850	1001	1040	1028	1050
	(b) Wheat	.. "	2452	2600	2634	2650	2600	2600
	(c) Jowar	.. "	—	—	—	—	—	—
	(d) Bajra	.. "	43	50	34	60	40	50
	(e) Maize	.. "	91	100	65	100	90	100
	Total		3354	3600	3734	3850	3758	3800
6	Soil Conservation							
	Area covered	.. "	73	661	44	127	38	22
8	Cropped area							
	(a) Net	.. "	4169	4250	4170	4170	4170	4230
	(b) Gross	.. "	6391	6800	6400	6400	6400	6600
9.	Agricultural Marketing							
	(a) Regulated markets	.. Nos.	109	115	110	NA	115	115
	(b) Sub-market yards	.. "	210	NA	224	NA	227	NA
	(c) Sub-market yards developed	.. "	210	NA	224	NA	227	NA
10	Storage —							
	Owned capacity with —							
	(i) State Warehousing Corporation	.. (000') tonnes (Cumulative)	440	..	799	..	..	..
	(ii) Cooperatives	.. "	1063	1622	1198	1246	1271	1410
	(iii) State Government (Food and Supplies Department)	..	701	..	848	1065	1065	..
11	Animal Husbandry and Dairy Products							
	(i) Milk	000 Tonnes	2729	3820	2911	3059	3059	3236
	(ii) Eggs	Million	419	629	444	474	474	514
	(iii) Wool	Lakh Kgs.	10.35	15.01	11.25	12.20	12.20	13.13
12	Animal Husbandry Programmes							
	(i) Intensive Cattle Development Projects	Nos. (Cumulative)	5	5	5	5	5	5
	(ii) No. of Frozen Semen (Bull) Stations	"	3	4	3	3	3	4
	(iii) No. of Inseminations performed with exotic Bull Semen Annually	No. in lakhs	2.64	5.50	3.25	4.00	4.00	4.50
	(iv) Establishment of Sheep Breeding Farms	Nos. (Cumulative)	2	2	2	2	2	2

Serial No.	Item	Unit	Five-year Plan 1978-83		1978-79 Achievements	1979-80		1980-81
			1977-78 Base year Level	1982-83 Terminal Year Target		Target	Anticipated achievement		Proposed Targets
1	2	3	4	5	6	7	8	9
(v)	Sheep and Wool Extension Centres	Nos. (cumulative)	38	38	38	38	38	38
(vi)	Intensive Sheep Development Projects	"	—	—	—	—	—	—
(vii)	Intensive Egg and Poultry Production-cum-Marketing Centres	"	3	3	3	3	3	3
(viii)	Estt. of fodder seed production Farms	"	2	2	2	2	2	2
(ix)	Vety. Hospitals	"	435	789	550	655	655	760
(x)	Vety. Dispensaries	"	362	362	360	360	360	360 (2 upgraded into Hospitals)
(xi)	Vety. Stockmen Centres	"	583	783	583	583	583	583
13 Dairy Programmes								
(i)	Fluid milk Plants (including composite feeder /balancing milk plants) in operation. (public and cooperative sectors)	Nos.	4	N.A.	4	5	5	5
(ii)	Milk products factories including creameries in operation.	Nos.	2	N.A.	2	2	2	2
(iii)	Dairy Cooperative Unions	Nos.	1	11	5	9	7	11
14 FISHERIES								
(i)	Fish Production	(000 tonnes)						
(a)	Inland	"	2.40	3.50	2.50	2.80	2.80	3.00
(b)	Marine	"	—	—	—	—	—	—
Total			2.40	3.50	2.50	2.80	2.80	3.00
(ii)	Mechanised boats	Nos.	—	—	—	—	—	—
(iii)	Deep sea fishing vessels	Nos.	—	—	—	—	—	—
(iv)	Fish Seed Produced							
(a)	Fry	Lakhs	} 8	42	8	16	9	20
(b)	Fingerlings	"						
(v) (a)	Fish Seed Farms	Nos.	6	8	6	7	6	7
(b)	Nursery Area	Hectares	12.85	24.00	12.85	12.85	12.85	14.00
15 Forestry								
(a)	Plantation of Quick growing species	000 Hectares	—	—	—	—	—	—
(b)	Economic and Commercial Plantations	Do	6.71	2.40	2.33	3.40	3.40	3.40
(c)	Farm forestry	Do	8.40	6.00	4.15	4.40	4.40	4.40
(d)	Communications							

Serial No.	Item	Unit	Five Year Plan 1978-83		1978-79 Achievement	1979-80		1980-81 Proposed targets
			1977-78 Base year Level	1982-83 Terminal year targets		Target	Anticipated achievements	
1	2	3	4	5	6	7	8	9
	Improvement of existing roads	Kms.	—	—	—	—	—	—
II CO-OPERATION								
16	Cooperation							
	(a) Short-term	Rs. crores	78.00	260.00	112.00	140.00	147.00	181.00
	(b) Medium term	.. „	2.50	5.00	3.50	3.50	3.00	4.00
	(c) Long-term	— „	16.27	78.00	20.93	34.00	24.00	56.00
	(d) Retail sale of fertilizers	.. „	78	200	105	110	115	135
	(e) Agricultural produce marketed	.. „	111.65	150	116.50	120	120	130
	(f) Retail sale of consumer goods by Urban Consumer cooperatives	.. „	4.36	6.00	4.00	5.00	3.50	4.00
	(g) Retail sale of consumer goods through cooperatives in rural areas	.. „	2.40	30.00	4.57	20.00	15.00	22.00
	(h) Cooperative Storage	.. No	3,341	4,407	3,805	3,817	3,951	4,149
		Capacity (lakh tonnes)	10.63	16.22	11.98	12.46	12.71	14.10
	(i) Processing Units							
	(i) Organised	.. No (Cumulative)	42	50	42	42	48	48
	(ii) Installed	.. Do	38	48	40	42	42	42
SPECIAL PROGRAMMES OF RURAL DEVELOPMENT								
Small Farmers Development Agency (SFDA)								
	No. of blocks	(Cumulative)	117	118	118	118	118	118
Individual Beneficiary Oriented Programmes								
	(1) Beneficiaries identified	.. Nos.	..	..	75434	100800	100800	120420
	(2) Beneficiaries assisted	.. Nos.	..	..	43006	61590	61590	70800
III. IRRIGATION AND FOOD CONTROL								
	(a) Minor Irrigation	000 Hectares						
	(i) Ground water	.. } .. }	2850	3030	2910	2941	2940	2970
	(ii) Surface water	.. }						
	Total (at the end of the year)	..	2850	3030	2910	2941	2940	2970
	(b) Major and Medium Irrigation							
	(i) Potential created (at the end of the year)	.. 000 Hect.	349.5	526.0	375.5	406.5	406.5	438.5
	(ii) Utilisation (at the end of the year)	.. Do	344.5	—	370.5	397.5	397.5	—
	(c) Flood Control							
	Area provided with protection (at the end of the year)	.. 000 Hect.	2407	2602	2447	2487	2487	2522

Serial No.	Item	Unit	Five-Year Plan 1978-83		1978-79 Achievement	1979-80		1980-81
			1977-78 base year level	1982-83 Terminal year target		Targets	Anticipated Achievements	Proposed targets
1	2	3	4	5	6	7	8	9
VI. POWER								
(i)	Installed capacity	.. MW	1245	1800	1383 (138 MW added during 1978-79)	1556	1537	1549
(ii)	Electricity generated	.. MKWH	3339	7130	5087.30*	5433	5426	5970
(iii)	Electricity sold	.. MKWH	2621	5633	3687	4292	4366	4802
(iv)	Transmission lines (220 KV and above)	.. KM	947	1271	—	955	1045	1269
(v)	Rural Electrification—							
(a)	Villages electrified	.. Nos.	100%	100%	Electrification of 12188 villages completed on 10th May, 1976			
(b)	Pumpsets energised by electricity	} .. Nos.	196515	347185	233185	263185	263185	291185
(c)	Tubewells energised by electricity							
V. VILLAGE AND SMALL INDUSTRIES								
1. Small Scale Industries—								
(a)	Unit functioning	.. No. 1000	45.6	60.06	49.38	3	3.8	3
(b)	Production	.. Rs. lakhs	51292	69974	5808	59243	59243	62802**
(c)	Persons employed	.. No. 1000	275.7	411.4	301.7	329.1	329.1	356.5
2. Industrial Estates/Areas—								
(a)	Estates/Areas functioning Nos.	.. No.	12	21	—	2 (New) 3 (Expn)	2 (New) 3 (Expn)	6 (Expansion)
(b)	No. of Units	.. No. 1000 }	Information regarding focal growth points is given in Annexure III to chapter IX					
(c)	Production	.. Rs lakhs) }						
(d)	Employment	.. No. 1000 }						
3. Handloom Industries—								
(a)	Production	.. M Metres	25	40	5	2	2	Annual—2 Cumulative—34
(b)	Employment	.. No. 1000	N.A.	52	42	2	2	3
4. Powerloom Industry—								
(a)	Production	.. M Metres	680	1000	40	80	80	80
(b)	Employment	.. No. 1000	50	70	5	5	5	5
5. Sericulture—								
(i)	Production of Raw Silk	.. 1000 Kgs.	15.30	57.30	4.00	4.02	4.02	4.04
(ii)	Employment	.. No. 1000	0.023	0.063	0.008	0.001	0.001	0.001
6. Coir Industry—								
(i)	Production of Yarn	.. 1000 Tons	}			Nil		
(ii)	Production of other items	.. Do						
(iii)	Employment	.. 1000 Nos						
7. Handicrafts—								
(i)	Production	.. Rs. lakhs	—	Not available				
(ii)	Employment	.. No. 1000	0.004	0.016	0.002	0.002	0.002	0.002

*This excludes energy used on work and export etc.

**Production at constant prices based 1973-74=100

Serial No.	Item	Unit	Five-Year Plan 1978-83		1978-79	1979-80		1980-81
			1977-78 Base Year Level	1982-83 Terminal year target	Achievement	Targets	Anticipated Achievements	proposed target
1	2	3	4	5	6	7	8	9
8.	Village Industries—							
	(a) Within/outside the purview of KVIC—							
	(i) Production	Rs. lakhs	1145	3250	1322	1755	1755	22.24*
	(ii) Employment	No. 1000	51.3	91.3	61.3	77.00	77.00	97.60
9.	District Industries Centres—							
	(i) No. of Units assisted	Nos. Commulative	N.A.	8000	4200	6000	6000	6300
	(ii) No. of artisans assisted	Nos. 1000	N.A.	9000	5879	6500	6500	6700
	(iii) Financial assistance rendered to industrial units	Rs. Lakhs	N.A.	—	10.50	10.50	10.50	10.50
VI. TRANSPORT AND COMMUNICATION								
(1) Roads at the end of the year :—								
(1) State Highways—								
	(a) Surfaced	Km.	1900	1900	—	1900	1900	1900
	(b) Unsurfaced	Km.	—	—	—	—	—	—
	(c) Total	Km.	1900	1900	—	1900	1900	1900
(2) Major District Roads—								
	(a) Surfaced	Km.	2100	2100	—	2100	2100	2100
	(b) Unsurfaced	Km.	—	—	—	—	—	—
	(c) Total	Km.	2100	2100	—	2100	2100	2100
(3) Other District Roads—								
	(a) Surfaced	Km.	2346	2506	2379	2404	2391	2406
	(b) Unsurfaced	Km.	—	—	—	—	—	—
	(c) Total	Km.	2346	2506	2379	2404	2391	2406
(4) Village Roads—								
	(a) Surfaced	Km.	21246	25246	23520§	23886	24520	25520†
	(b) Unsurfaced	Km.	—	—	—	—	—	—
	(c) Total	Km.	21246	25246	23520§	23886	24520	25520
(5) Total Roads—								
	(a) Surfaced	Km.	27592	31752	25899	30290	30911	31926
	(b) Unsurfaced	Km.	—	—	—	—	—	—
	(c) Total	Km.	27592	31752	25899	30290	30911	31926
VII. EDUCATION								
A. Elementary Education								
1. Classes I-V (Age-group 6—10)								
(i) Enrolment—								
	(a) Boys	1000	1176	1050	1163	1157	1157	1078
	(b) Girls	1000	960	875	943	963	963	897
	(c) Total	1000	2126	1925	2106	2120	2120	1975
(ii) Percentage to age-group—								
	(a) Boys		118.30	109.31	117.09	117.10	117.10	109.88
	(b) Girls		106.26	97.54	105.48	107.59	107.59	100.22
	(c) Total		112.60	103.49	111.54	112.64	112.64	105.55

*Production at constant prices based 1973-74=100

§Includes 883 kms. of road length constructed with the funds of M.C.'s/M.B.

†Includes interlinks besides 249 kms. of 1st links.

§The information for 1978-79 should be the same as supplied to the Ministry of Education for Selected Statistical

||Based on population figures estimated by the Registrar General of India.

Serial No.	Item	Unit	Five-Year Plan 1978-83		1978-79 Achievement	1979-80		1980-81 Proposed Targets
			1977-78 Base Year Level	1982-83 Terminal Year Target		Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9
2. Classes VI—VIII (Age-group 11—14)								
(i) Enrolment—								
	(a) Boys	1000	402	597	412	441	441	474
	(b) Girls	"	239	398	250	294	294	316
	(c) Total	"	641	995	662	735	735	790
(ii) Percentage to age-group**—								
	(a) Boys		68.39	99.37	68.92	73.30	73.30	78.00
	(b) Girls		46.86	74.17	47.87	55.56	55.56	57.72
	(c) Total		58.38	87.48	59.10	64.59	64.59	69.46
B—SECONDARY EDUCATION								
1. Classes IX—X								
	(a) Boys	1000	154	238	154	167	167	195
	(b) Girls	"	90	135	87	94	94	110
	(c) Total	"	244	373	241	261	261	305
2. Classes XI—XII (General Classes)								
	(a) Boys	1000	13	22	15	16	16	18
	(b) Girls	"	8	15	8	10	10	12
	(c) Total	"	21	37	23	26	26	30
C. ENROLMENT IN VOCATIONAL COURSES								
1. Post Elementary Stage								
	(a) Total	Nos.	8365	8500	8209	8500	8500	8500
	(b) Girls	Nos.	372	—	597	—	—	—
2. Post High School Stage								
	(a) Total	Nos.	3138	3300	3201	3300	3300	3300
	(b) Girls	Nos.	135	—	90	—	—	—
D. ENROLMENT IN NON-FORMAL								
(Part-time/continuation) Classes—								
(i) Age-group 6—10								
	(a) Total	Nos.	7500	7500	7500	7500	7500	7500
	(b) Girls	Nos.	3375	3375	3375	3375	3357	3375
(ii) Age-group 11—13								
	(a) Total	Nos.	819	12000	N.A.	12,000	12,000	12,000
	(b) Girls	Nos.	—	—	—	—	—	—

*The information for 1978-79 should be the same as supplied to the Ministry of Education for 'Selected Statistic

**Based on Population figures estimated by the Registrar-General of India.

Serial No.	Item	Unit	Five-year Plan 1978--83		1978-79 Achievement	1979-80		1980-81 Proposed Targets	
			1977-78 Base Year Level	1982-83 Terminal Year Target		Target	Anticipated Achievement		
1	2	3	4	5	6	7	8	9	
E. ADULT EDUCATION									
(a)	Number of Participants (Age-group 15—35)	1000	2471	3000	NA.	3314	36,000	36,000	
(b)	No. of Centres opened under—								
(i)	Central Programme	Nos.	91	1200	56	1200	1200	1200	
(ii)	State's Programme	Nos.	78	—	76	—	—	—	
(iii)	Voluntary Agencies	Nos.	—	—	—	—	—	—	
F. TEACHERS									
(i)	Primary Classes I—V	Nos.	47559	47599	47559	47569	47569	47579	
(ii)	Middle Classes VI—VIII	"	24665	28815	28840	29840	29840	30350	
(iii)	Secondary Classes IX—XI	"	15940	19930	21198	21728	22258	22778	
VIII. HEALTH AND FAMILY WELFARE									
1. Hospitals and Dispensaries :—									
(a)	Urban	(i) Hospital	Nos. (Cumulative)	146	147	—	—	—	
		(ii) Dispensaries	"	128	173	5	10	10	
(b)	Rural		"	14	144	70	30	10	
(c)	Upgradation of existing Urban Hospitals		"	37	57	3	8	3	
2. Beds :—									
(a)	Urban Hospitals / Dispensaries/P.H.Cs.		"	10154	11262	153	215	115	
(b)	Rural Hospitals Dispensaries and P.H.Cs.		"	3691	11311	2180	1720	1220	
(c)	Bed Population Ratio (Rural and Urban)		No. (Per 1000)	0.89 (1:1124)	1.3 (1:772)	0.2 (1:6838)	0.1 (1:18428)	0.1 (1:8428)	0.08 (1:12500)
3. Primary Health Centres :—									
(a)	Main Centres		Nos. (Cumulative)	128	129	1	—	—	
(b)	Sub-Centres including M.P.W.		"	1225	2593	368	1000	1000	
(c)	Subsidiary Health Centres		"	716	2019	135	260	260	
4	Nurse Doctor Ratio		No. (Per 3 Doctor)	3.06	1.86	4.14	2.34	0.60	
5. Training of Auxiliary Nurse--Mid-wives--									
	Institute		Nos. (Cumulative)	4	7	—	3	3	
	Annual Intake		"	198	378	—	—	180	
	Annual Outturn		"	90	210	90	—	120	
6. Control of Diseases--									
(a)	T.B. Clinics/Centre		"	12	12	—	—	—	
(b)	Leprosy Control Units		"	—	—	—	—	—	
(c)	V.D. Clinics		"	—	—	—	—	—	
(d)	Filaria Units		"	—	—	—	—	—	

Serial No.	Item	Unit	Five Year Plan 1978-83		1978-79 Achievement	1979-80		1980-81 Proposed Target	
			1977-78 Base Year Level	1982-83 Terminal Year Target		Target	Anticipated Achievement		
			1	2		3	4		5	6	7	8	9
	(e) SET Centres	Nos. (Cumulative)	—	—	—	—	—	—	—
	(f) District T.B. Centres	"	4	—	—	—	—	—	—
	(g) T.B. Isolation Beds	"	50	—	—	—	—	—	—
	(h) Cholera Combat Teams	"	—	—	—	—	—	—	—
	(i) STD Clinics	"	—	—	—	—	—	—	—
	(j) Filaria Control Units	"	—	—	—	—	—	—	—
	(k) National Scheme for Prevention of Blindness :—								
	(i) Mobile Units set up	"	3	4	—	1	1	1	1
	(ii) P.H.C. assisted	"	55	122	25	30	30	18	18
	(iii) Ophthalmic Departments assisted	"	—	—	—	1	1	2	2
	(iv) District Hospitals Assisted	"	5	12	7	—	—	—	—
7.	Maternity and Child Welfare Centres	"	86	86	—	—	—	—	—
8.	Doctor-Population Ratio	No. (per 1000 population)	0.18	0.27	0.02	0.03	0.02	0.02	0.02
9. Training and Employment of Multipurpose Workers:—									
	(a) Districts Covered	Nos. (Cumulative)	3	12	4	5	5	—	—
	(b) Trainees Trained	"	375	1573	308	N.A.	292	} Back log to be covered	}
	(c) Workers Trained	"	238	5200	240	N.A.	1836		
10. Community Health Volunteers Scheme:—									
	(a) Community Health Volunteers selected	"	1058	N.A.	2506	454	454	—	—
	(b) C.H. V. selected	"	1058	N.A.	2506	454	454	—	—
	(c) Working in the Field	"	1058	N.A.	2506	454	454	—	—
11. No. of Voluntary Sterilisation done :—									
	(a) Tubectomy	1000	11126	Target not fixed	17396	} 65000	{ 11137 9592	} Not fixed by G.O.I. Do	}
	(b) Vesectomy	1000	1922	Do	3134				
	(c) No. of IUD Insertions	1000	28171	Do	34308	44000	1545	Do	Do
	(d) Conventional Contraceptives (Nirodh)								
	(i) Free Supply	1000 Pcs.	137849	N.A.	130821	N.A.	122000	N.A.	N.A.
	(ii) Commercial Supply	"	—	—	—	—	—	—	—
12. M.C.H. Benefits :—									
	(a) Immunisation of infants and pre-school children with DPT	Nos. (Cumulative)	190669	To be fixed by G.O.I.	249113	450000	450000	To be fixed by G.O.I.	Do
	(b) Immunisation of school-going children with DT	"	145358	Do	178930	400000	400000	Do	Do
	(c) Prophylaxis against Nutritional Anaemia amongst :—								
	(i) Mothers	"	109405	Do	194517	260000	260000	Do	Do
	(ii) Children	"	91152	Do	182777	220000	220000	Do	Do

Serial No.	Item	Unit	Five Year Plan 1978.-83		1978-79 Achievement	1979-80		1980-81 Proposed Target
			1977-78 Base Year Level	1982-83 Terminal Year Target		Target	Anticipated Achievement	
			1	2		3	4		5	6	7	8	9
	(d) Prophylaxis against Vit. 'A' deficiency.	Nos. (Cumulative)	286476	To be fixed by G.O.I.	142101	400000	400000	To be fixed by G.O.I.
13. Family Welfare :—								
	(a) Rural F. W. Centres	„	128	Do	—	Not fixed by G.O.I.	—	Not fixed by G.O.I.
	(b) Distt. F.W. Centres	„	12	Do	—	Do	—	Do
	(c) City F.W. Centres	„	—	Do	—	Do	—	Do
	(d) Urban F.W. Centres	„	14	Do	—	Do	—	Do
	(e) Post-Mortum Centres	„	17	Do	—	Do	—	Do
	(f) Regional F.W. Trg. Centres	„	1	Do	—	Do	—	Do
	(g) A.N.M. Trg. Schools	„	4	Do	—	Do	1	Do
IX—WATER SUPPLY AND SANITATION								
A. Urban Water Supply								
Corporation Towns (Town-wise)								
1 Amritsar —								
	(i) Augmentation of Water-Supply ..	Mld	154.39	193.68	163.61	174.11	174.11	182.85
	(ii) Population covered ..	lakhs	4.93	5.73	5.02	5.26	5.26	5.53
2. Jullundur—								
	(i) Augmentation of Water-Supply ..	Mld.	52.30	92.92	57.37	66.97	66.97	75.50
	(ii) Population Covered ..	Lakhs	2.23	3.81	2.46	2.90	2.90	3.20
3. Ludhiana—								
	(i) Augmentation of Water-Supply ..	Mld	117.13	171.16	123.49	139.38	139.38	152.09
	(ii) Population Covered ..	Lakhs	4.16	6.60	4.36	5.11	5.11	5.73
Other Towns :—								
(a) Original schemes—								
	(i) Towns Covered (Partially) ..	Nos.	64	88	3	5	5	6
	(ii) Population Covered ..	Lakhs	5.70	7.70	0.20	0.40	0.40	0.50
(b) Augmentation Schemes—								
	(i) Towns covered (Partially) ..	Nos.	52	80	52	50	50	The schemes in progress during 1979-80 will continue in 1980-81.
	(ii) Population Covered ..	Lakhs	(Part Population)		1.24	0.68	0.68	
B. Urban Sanitation								
Sewerage Schemes								
Corporation Towns (Town-wise)								
(i) Amritsar—								
	(i) Augmentation capacity ..	Mld.	115.92	146.30	122.81	130.84	130.84	137.72
	(ii) Population covered ..	Lakhs	0.44	3.44	1.00	1.62	1.62	2.38

Serial No.	Item	Unit	Five year Plan 1978-83		1978-79 Achievement	1979-80		1980-81 proposed target
			1977-78 Base Year Level	1982-83 Terminal Year		Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9
(2) Jullundur—								
	(i) Augmentation capacity	.. Mld.	39.27	71.83	43.03	51.66	51.66	58.29
	(ii) Population covered	.. Lakhs	0.39	2.62	0.53	1.00	1.00	1.89
(3) Ludhiana—								
	(i) Augmentation capacity	.. Mld.	87.85	136.09	94.89	109.08	109.08	120.89
	(ii) Population covered	.. Lakhs	1.32	5.70	1.93	2.86	2.86	3.63
Other Towns								
(a) Original schemes—								
	(i) Towns covered	.. Nos.	53	76	3	4	4	6
	(ii) Population covered	.. Lakhs	1.65	3.35	0.30	0.40	0.40	0.40
(b) Augmentation Schemes—								
	(i) Towns covered	.. No.	41	50	41	40	40	The schemes in progress during 1979-80 will continue in 1980-81.
	(ii) Population covered	.. Lakhs	Part Population		0.53	0.50	0.50	
2. Drainage schemes—								
Original schemes—								
	(i) Towns covered	.. Nos. }						} Covered in 'B' above
	(ii) Population covered	.. Lakhs }						
Augmentation schemes								
	(i) Towns covered	.. No. }						} Covered in 'B' above
	(ii) Population covered	Lakhs }						
(c) Rural Water Supply —								
1. First priority problem villages—								
(i. e. villages identified in 1972 survey)								
(a) Piped Water Supply—								
	(i) Villages covered	.. Nos. }	1,674	2,374	136	135	135	135
	(ii) Population covered (Census 1971)—	.. Lakhs }	15.86	24.26	1.48	1.68	1.68	1.68
X HOUSING—								
	1. Subsidised Industrial Houses	.. No.	78	200	..	60	60	60
	2. Low Income Group Houses (Housing Board)	.. No.	268	NA	1,048	200	200	NA
	3. (Others)	.. No.	1,500	1,450	981	1,456	1,456	1,200
	4. Middle Income group Houses	.. No.	287	850	488	25	25	NA
	5. Rental Housing Scheme (Housing Board) —	..						
	(i) Houses at District/Tehsil Headquarters and other places	No.	NA	NA	NA	1,660	1,660	1,013

Serial No.	Item	Unit	Five Year-Plan 1978-83		1978-79 Achievement	1979-80		1980-81 Proposed Target
			1977-78 Base Year Level	1982-83 Terminal year Target		Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9
	(ii) At focal points	.. No.	NA	120	—	400	569	196
	(iii) At Chandigarh	.. No.	NA	250	—	997	997	362
	Total	..				2060 + 997 Flats	2229 + 997 Flats	1209 + 362 Flats
5.	Police Houses	.. No.	—	200	—	1,000	1,000	870
6.	Village Housing scheme	.. No.	—	—	1,000	—	—	1,000
8.	Slum Clearance Housing Scheme	.. No.	NA	NA	NA	NA	NA	NA
9.	Land Acquisition and Development—							
	(a) Acquisition	.. No. of acres	518	—	—	50	50	50
	(b) Development	.. Do	400	400	1,010 Partially developed	400	400	400
XI. Urban Development—								
2. Town and Regional Planning								
(a) Rural Sector								
	Preparation of Block Reports and Development Plans	.. Nos. (Cumulative)	12	15	12	15	1	15
	Preparation of Development Plans of Focal Villages under I. R. D. P.	.. Nos. (Cumulative)	—	45	27	45	5	45
(b) Urban Sector								
	U.D.P. Project Report New Towns	.. Nos. (Cumulative)	—	—	1	1	—	1
XII. Labour and Labour Welfare —								
A. CRAFTSMEN TRAINING								
	1. No. of Industrial Training Institutions (I.T.I's)	.. Nos. (Cumulative)	29	40	—	10	10	1
	2. Intake capacity	.. Nos.	11772	12316	11772	12316	12316	—
	3. No. of persons undergoing training	.. ,,	9857	10401	9857	10401	10401	—
	4. Out-turn	.. ,,	4303	5847	4840	5050	5050	5150
APPRENTICESHIP TRAINING								
	1. Training places located	.. ,,	2612	5500	700	500	500	500
	2. Apprentices trained	.. ,,	1780	4480	600	500	500	500
	C. NO. OF EMPLOYMENT EXCHANGES	.. ,,	32	41	3	2	2	2
D. LABOUR WELFARE :								
	1. No. of Labour Welfare Centres	.. ,,	—	10	10	—	—	—
	2. Bonded Labour Rehabilitated	.. No. of persons	—	—	—	—	—	—
XIII. Welfare of Backward Classes								
1. Pre-matric education incentives—								
	(i) Scholarships/stipends	.. No. of students	32377	192377	24000	31000	31000	31000
	(ii) Other incentives like boarding, grants books/stationery & uniform	.. ,,	135440	675440	95000	100000	100000	100000
	(iii) Ashram Schools	.. Nos. of (Cumulative)	—	—	—	—	—	—
2. Economic Aid—								
	(i) For Agriculture	.. No. of families	1460	4204	144	300	300	300
	(ii) For Animal Husbandry	.. ,,	—	—	—	—	—	—
	(iii) For Cottage Industry	.. ,,	—	—	—	—	—	—
3. (i) House-sites								
	(ii) Drinking Water Wells/Tanks	.. Nos.	6459	16969	765	1500	1500	1000

Serial No.	Item	Unit	Five Year-Plan 1978-83		1978-79 Achievement	1979-80		1980-81 Proposed Target
			1977-78 Base Year Level	1982-83 Terminal year Target		Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9
XIV. Social Welfare								
Children Welfare								
(a)	Scheme under IYC	.. No. of bene, (Commulative)	—	N.A.	—	N.A.	N.A.	5000
(b)	I.C.D.S.	.. ..	N.A.	52000	4000	4000	4000	4000
(c)	Balwadis	.. ..	—	—	—	—	—	—
(d)	Creches	.. ..	—	—	—	—	—	—
2. Women Welfare								
(a)	Training-cum-Production Centres	.. ..	—	—	—	—	—	—
(b)	Hostels for working women	.. ..	—	—	—	—	—	—
3. Welfare of the Handicapped								
(a)	Programme for the Blind	.. ..	—	—	—	—	—	—
(b)	Programme for the Deaf	.. ..	—	—	—	—	—	—
(c)	Programme for the Orthopaedically handicapped	.. ..	—	750	85	140	140	150
(d)	Programme for the mentally retarded	.. ..	—	—	—	—	—	—

ANNUAL PLAN 1980-81

STATEMENT IV

REVISED MINIMUM NEEDS PROGRAMME—OUTLAYS AND EXPENDITURE

(Rs. in lakhs)

Name of the Programme	Five-Year Plan (1978-83) Outlay	1978-79 Actual	1979-80			Proposed Outlay (1980-81)	
			Approved Outlay	Anticipated Expenditure	Of which Capital content	Total	Of which capital content
			Total	Total			
1	2	3	4	5	6	7	8
EDUCATION							
Elementary Education							
(a) Classes I—V (age group 6—11 years)	589.75	277.75	58.00	58.00	10.00	55.00	10.00
(b) Class VI—VIII (age group 11—14 years)	1567.20	560.94	136.82	136.82	5.49	165.05	2.00
(c) Adult Education	61.23	3.62	19.97	19.97	—	19.10	—
Total	2218.18	842.31	214.79	214.79	15.49	239.15	12.00
PUBLIC HEALTH AND SANITATION							
Rural Health							
PH 1.1 Completion and Improvement of Primary Health Centres	127.87	39.88	25.00	25.00	25.00	1.00	1.00
PH 1.2 Completion and Improvement of sub-centres	34.70	29.33	—	—	—	—	—
PH 1.3 Estt. of 25 bedded Block Level Rural Hospitals	695.50	92.42	134.00	134.00	109.00	77.00	2.00
PH 1.4 Opening of subsidiary Health Centres	1210.10	147.25	95.46	95.46	10.00	150.00	—
PH 1.5 Improvement of Subsidiary Health Centres	39.48	1.83	10.00	10.00	10.00	1.00	1.00
PH 1.6 Establishment of Dental clinics in each Block	28.35	7.94	4.00	4.00	—	6.00	—
PH 1.8 Providing Specialists teams in Rural Areas	64.00	—	10.00	10.00	—	7.25	—
Total	2200.00	318.6	278.46	278.46	164.00	242.25	4.00
RURAL WATER SUPPLY							
Rural Water Supply Scheme ..	2905.00	403.39	500.00	500.00	—	500.00	—
NUTRITION							
(i) Special Nutrition Programme } (ii) I.C.D.S. Project .. }	150.00	8.46	16.00	16.00	—	16.00	—
Rural Roads ..	2800.00	952.33	450.00	450.00	450.00	445.00	445.00
Housing							
H.G. 2.2 Harijan Houses	440.00	100.00	70.00	70.00	70.00	70.00	70.00
Urban Development							
U.D.-6 Environmental improvement of Urban slums (slum clearance/improvements)	50.00	—	2.00	2.00	2.00	2.00	2.00

ANNUAL PLAN 1980-81

STATEMENT V

Targets and Physical Achievements

Physical Programmes—RMNP

Head of Development	Unit	Five Year Plan 1978—83)		1978-79	1979-80		1980-81
		1977-78 Base Year Level	1982-83 Terminal Year Target	Achievement	Target	Anticipated Achievement	Proposed Target
1	2	3	4	5	6	7	8
EDUCATION							
Elementary Education							
(a) Classes I—V Age Group 6—11 years)							
Enrolment	000	2126	1925	2106	2120	2120	1975
(b) Classes VI—VIII (Age group 11—14 years)							
Enrolment	000	641	995	662	735	735	790
Adult Education							
(a) Number of Participants (15—35)							
	(i) State	2200	36000	N.A.	1993	36000	36000
	(ii) Central	2071	—	N.Ar	1321	—	—
(b) Number of Centres							
(i) Centre	No.	91	1200	56	1200	1200	1200
(ii) State	No.	78	—	76	—	—	—
Rural Health							
(a) Primary Health Centres	No.	128	129	1	—	—	—
(b) Subsidiary Health Centres	No.	716	1846	130	250	250	250
(c) Sub-Centres including MPW	No.	1225	2593	368	1000	1000	—
(d) Rural Hospitals (25/30 bedded)	No.	14	144	70	30	30	10
(e) P.H.Cs. covered under Community Health Workers Programmes	No.	20	40	20	—	—	—
Rural Water Supply							
(a) No. of problem villages	.. Numbers	3800	3800	—	—	—	—
(b) Villages covered	.. Do	1674	2374	136	135	135	135
(c) Population in all problem villages (Census 1971)	.. Lakhs	40.00	40.00	—	—	—	—
(d) Population covered in Villages at (b)	.. Do	15.86	24.26	1.48	1.68	1.68	1.68
(e) Number of villages covered by—							
(i) Piped Water Supply	.. Numbers	1674	2374	136	135	135	135
(ii) Wells	.. Do	—	—	—	—	—	—
(iii) Hand Pumps	.. —	—	—	—	—	—	—
(iv) Drilled Wells	.. —	—	—	—	—	—	—

ANNUAL PLAN 1980-81
STATEMENT V
Targets and Physical Achievements
Physical Programmes-R.M.N.P.

Head of Development	Unit	Five year Plan (1978-83)		1978-79 Achievement	1979-80		1980-81	
		1977-78 Base year level	1982-83 Terminal year target		Target	Anticipated achievement	Proposed target	
		1	2	3	4	5	6	7	8 8
Roads & Bridges								
* Rural Roads								
(a) Length		21246	25520	23520	23886	24520	2	25520
(b) No. of villages connected with roads		10403	All connected	11541	All connected	11938	All connected	
NUTRITION								
(i) Special Nutrition Programme	} Bene	40402	1,83,000	17,000	17,000	17,000	2	21,000
(ii) I. C. D. S. Projects								
HOUSING								
HG 2.2	Harljans Houses	Houses (No.)	—	N.A.	36	3,500	3,500	1,765
URBAN DEVELOPMENT								
U.D. 6	Environmental Improvement of urban slums (Slum clearance/Improvement)	—	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Note :—*The information with regard to item (c) relating to villages connected with a population of 1500 and above, with a population between 1000-1500 and with a population below 1000 is under collection. The department will, however, supply directly to the Planning Commission, Govt. of India before scheduled date of discussion.

ANNUAL PLAN, 1980-81

STATEMENT—VI

CENTRALLY-SPONSORED SCHEMES OUTLAYS

(Rs. in lakhs)

Name of the scheme		1979-80 Approved outlay	1980-81 Proposed Outlay
1		2	3
I. AGRICULTURE			
C. S. 1	Timely Reporting Revised calendar operation and improved crop statistics.	1.50	1.66
C. S. 2	Scheme to enable the small farmers in eradication of pests/disease in endemic area by Agro-chemical operations.	—	1.00
C.S. 3	Intensive Cotton District programme including sub-scheme for production of Nucleus seed of cotton.	31.50	40.61
C.S. 4	Scheme for the Developmant of Oilseeds Intensive Oilseed Development Programme.	5.00	10.50
C.S. 5	Intensive pulses Development programme	5.00	5.00
C.S. 6	Scheme for the control of weeds and loose smut	30.00	28.00
C.S. 7	Small Farmers & Agriculture Development Agencies	95.00	109.00
Total Agriculture		168.00	195.77
II. SOIL CONSERVATION			
C. S. I.	Soil & Water Conservation in catchment of River Valley Projects	5.00	11.00
Total Soil Conservation		5.00	11.00
III. MINOR IRRIGATION			
C. S. 1.	Strengthening of ground water/surface water (Minor Irrigation) Organisation (Irrigation Department)	.	7.50
C. S. 2.	Strengthening of Ground water/Surface water (Minor Irrigation) Organisation (Agriculture Department)	9.20	10.00
C. S. 3.	Strengthening of Ground water/surface water (Minor Irrigation) Organisation. (Punjab State Tubewell Corporation)	..	3.00
Total:—		9.20	20.50
IV. ANIMAL HUSBANDRY			
CS 1	Estt. of Check Posts under Riaderpest Eradication Programme	0.26	—
CS 2	Assistance to Small/Marginal Farmers & Agricultural Labourers for rearing of Cross-bred heifers	13.00	13.62
CS 3	Foot & Mouth Disease Control Programme—Project for Vaccination of Cattle & Buffaloes in selected areas	1.50	1.50
CS 4	Implementation of Poultry, Piggery and Sheep Production Programmes through Small/Marginal Farmers and Agricultural Labourers	14.00	10.29
Total		28.76	25.41

ANNUAL PLAN 1980-81

STATEMENT—VI

CENTRALLY SPONSORED SCHEMES OUTLAYS

(Rs. in lakhs)

Name of the Scheme		1979-80 Approved Outlay	1980-81 Proposed Outlay
1		2	3
V FISHERIES			
C.S. 1	Assistance to Fish Farmers Development Agencies, Gurdaspur, Jullundur, Ludhiana and Amritsar	3.00	44.00
VI—COMMUNITY DEVELOPMENT AND PANCHAYATS			
C.S. 1.	Integrated Rural Development Programme in Central S.P.D.A. blocks	115.00	115.50
C.S. 2.	Area Planning Programme for full employment under I.R.D.	34.50	300.00
Total		149.50	1455.00
VII—CO-OPERATION			
CS 1.	Rehabilitation of weak Central Co-operative Banks	1.28	00.95
Total		1.28	00.95
VIII INDUSTRIES			
C.S. 1.	District Industries Centres	75.18	366.00
Total		75.18	366.00
IX WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES			
C.S. 1	I.A.S. Coaching Centre	3.00	11.50
C.S. 2	Girls Hostels	1.50	00.75
C.S. 3	Share assistance to Punjab Scheduled Castes Land Development and Finance Corporation	—	499.00
Total		4.50	511.25
X SOCIAL WELFARE			
C.S. 1.	Children in need of care and protection	3.00	11.50
Total		3.00	11.50
XI PUBLIC HEALTH AND SANITATION			
C.S. 1	Reorientation of Medical Education	—	166.87
C.S. 2	Visual Impairment and Prevention of Blindness	—	55.28
C.S. 3	National Malaria Eradication Programme (Rural)	—	1077.00

