



SIXTH FIVE YEAR PLAN

1980—85

FRAMEWORK

SIXTH FIVE YEAR PLAN

1980-85

FRAME WORK



GOVERNMENT OF PUNJAB
DEPARTMENT OF PLANNING

1980

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PUN-S

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CONTENTS

CHAPTER I	THE PLANNING ORGANISATION AND PROCEDURE	.. 1—2
CHAPTER II	STRATEGY AND OBJECTIVES	.. 3—12
CHAPTER III	FINANCIAL RESOURCES	.. 13—16
CHAPTER IV	AGRICULTURE AND RURAL DEVELOPMENT I	.. 17—31
	(1) Agriculture	.. (20—26)
	(2) Horticulture	.. (26—27)
	(3) Food	.. (27—28)
	(4) Soil Conservation	.. (28—31)
CHAPTER V	AGRICULTURE AND RURAL DEVELOPMENT II	.. 32—42
	(1) Animal Husbandry	.. (32—35)
	(2) Dairying and Milk Supply	.. (35—37)
	(3) Fisheries	.. (37—38)
	(4) Forests	.. (38—40)
	(5) Community Development and Panchayats	.. (41—42)
CHAPTER VI	CO-OPERATION	.. 43—48
CHAPTER VII	IRRIGATION AND FLOOD CONTROL (INCLUDING MINOR IRRIGATION)	49—68
CHAPTER VIII	POWER	.. 69—95
CHAPTER IX	INDUSTRY AND MINERALS	.. 96—114
CHAPTER X	TRANSPORT AND TOURISM	.. 115—118
	(1) Roads and Bridges	.. (115—116)
	(2) Road Transport	.. (116—118)
	(3) Civil Aviation	.. (118)
	(4) Tourism	.. (118)
CHAPTER XI	EDUCATION	.. 119—126
	(1) General Education	.. (119—121)
	(2) College and University Education	.. (121—122)
	(3) Other Programmes	.. (122—123)
	(4) Technical Education	.. (123—126)
CHAPTER XII	PUBLIC HEALTH AND SANITATION	.. 127—133
	(1) Medical Education and Research	.. (127—128)
	(2) Medical Colleges	.. (128—130)
	(3) Public Health	.. (130—132)
	(4) Indian System of Medicine and Homoeopathy	.. (132—133)

CHAPTER XIII	URBAN DEVELOPMENT, HOUSING AND RURAL WATER SUPPLY ..	134—141
	(1) Urban Development ..	(134—137)
	(2) Housing ..	(138—140)
	(3) Rural Water Supply ..	(140—141)
CHAPTER XIV	DEVELOPMENT OF SCHEDULED CASTES AND BACKWARD CLASSES ..	142—144
CHAPTER XV	SOCIAL WELFARE AND NUTRITION ..	145—146
	(1) Social Welfare ..	(145)
	(2) Nutrition ..	(146)
CHAPTER XVI	OTHER PROGRAMMES ..	147—155
	(1) Public Works ..	(147—148)
	(2) Labour and Welfare ..	(151—152)
	(3) Punjab State Civil Supplies Corporation ..	(152)
	(4) Stationery and Printing ..	(152)
	(5) Information and Publicity ..	153—154
	(6) Planning Machinery ..	(154)
	(7) Statistics ..	(155)
	(8) Administrative Training Institute ..	(156)
CHAPTER XVII	EMPLOYMENT ..	156—172
CHAPTER XVIII	REVISED MINIMUM NEEDS PROGRAMME ..	173—177
CHAPTER XIX	SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES ..	178—191
CHAPTER XX	WORLD BANK AIDED PROJECTS ..	192—200
STATEMENTS		
STATEMENT I	SUB-HEADWISE OUTLAYS AND EXPENDITURE ..	1—2
STATEMENT II	SCHEMES ..	3—62
STATEMENT III	TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS ..	63—79
STATEMENT IV	REVISED MINIMUM NEEDS PROGRAMME—OUTLAY AND EXPENDITURE ..	80
STATEMENT V	TARGETS AND PHYSICAL ACHIEVEMENTS—PHYSICAL PROGRAMME—RMNP ..	81—82
STATEMENT VI	CENTRALLY SPONSORED SCHEMES—OUTLAY AND EXPENDITURE ..	83—88

CHAPTER I

The Planning Organisation and Procedure

THE PLANNING ORGANISATION IN THE STATE

The Punjab State Planning Board which is an apex body for the formulation, review and evaluation of the various Plan programmes/schemes, has since been reconstituted on the 15th September, 1980, after the taking over of the new Government in the State. The newly constituted State Planning Board is headed by the Chief Minister as its Chairman while the Planning and Finance Minister is the Deputy Chairman of the Board. The Board has Chief Secretary, Financial Commissioner Development, Finance Secretary, Secretary Irrigation and Power and Principal Secretary to Chief Minister, as *ex-officio* Members. Besides, there are 10 non-official part-time Members. The non-official part-time Members represent different fields of specialisation such as agriculture, energy, industry, irrigation and development economics. The Planning Secretary is the *ex-officio* member Secretary of the Board.

1.2 In the first meeting of the newly constituted Board, the proposals for the Sixth Five Year Plan 1980—85 and the Annual Plan 1981-82 were considered and the Board had given certain broad directions for the formulation of the Sixth Five Year Plan as also a Perspective Plan for the State for the next 15—20 years. Due to the paucity of time, it has not been possible to fully reflect the views of the Board in the Plan proposals which have been incorporated in the Draft Sixth Five Year Plan. Various specialised working groups of the State Planning Board are being constituted shortly to undertake the work of framing a long term perspective plan for 15 to 20 years for the State. These groups will also keep in view the result of discussions with the Planning Commission of the draft Sixth Five Years Plan. Their concrete proposals about the Perspective Plan for the next 15—20 years would be considered by the State Planning Board for adoption. Any modifications/reorientations of schemes included in the draft Sixth Plan could thereafter be carried out in

consultation with the Planning Commission on appropriate occasions.

STREAMLINING OF PROCESSES AND PROCEDURE

(a) Hitherto fore, the exercise for Plan formulation has only been a variant of the exercise for budgetting. In most of the cases it has been a mere aggregation of the various Plan schemes of a department without positive thrust and direction. It is, therefore, proposed to have a hard critical look at all the on going schemes of the departments with regard to their utility and merit, with a view to weeding out the schemes that might have outlived their utility. All the departments have already been requested in this behalf. After this exercise, the departments would be asked to prepare Perspective Plans in their different spheres for the next 15—20 years. It is out of these Perspective Plans that the Medium Term Five Year Plan and the Annual Plans would be drawn up. These Perspective Plans would also be discussed in the specialised working groups of the State Planning Board.

(b) The Plan performance over the years has been adversely affected due to lack of effective monitoring, review and evaluation by the concerned departments as well as the Punjab State Planning Board. The processes of monitoring, review and evaluation are proposed to be activated. For this purpose, it is proposed to constitute a high level Monitoring, Review and Evaluation Committee, under the Chairmanship of the Chief Minister with the concerned Minister, Administrative Secretary, Planning Secretary, Finance Secretary and the Specialist Member of the Punjab State Planning Board as Members, which would periodically review the implementation of the important Plan programmes and the projects. The Punjab State Planning Board would also review the various programmes/schemes through its specialised working groups periodically.

(c) The Plan performance usually suffers due

to the non-availability and shortages of material inputs. This problem has assumed serious dimensions during the last two years. To tackle this problem, it is proposed to start an exercise for material inputs planning in the short as well as medium term and long term perspective. After the material inputs plan corresponding to the Annual Plan and the Sixth Five Year Plan is drawn up, the availability of materials would be concurrently monitored and remedial action for tackling the problem of shortages would be initiated by fixing priorities for allocation of strategic inputs.

FUTURE PROGRAMME OF ACTION

The draft Sixth Five Year Plan is only a first step in the formulation of the plan. The draft plan and the Perspective Plans referred to earlier would be discussed in the specialised working

groups of the Punjab State Planning Board, after discussions with the Planning Commission. These working groups would give due consideration to the views of the Planning Commission. Secondly, the recommendations of the various specialised working groups on the formulation of the Sixth Five-Year Plan and the Perspective Plan would be considered by the Punjab State Planning Board before these are given final shape. Thirdly, the existing information and data gaps would need to be filled up by streamlining the planning machinery in the various administrative departments as also in the Planning Board itself. Finally, the progress of Plan implementation will be subjected to concurrent monitoring, and post implementation, evaluation would also be initiated. It is also proposed to introduce the mid term review of the Annual as well as Sixth Five Year Plan.

CHAPTER II

Objectives and Strategy

OBJECTIVES AND STRATEGY

The Sixth Five-Year Plan 1980—85 (hereafter referred to as the plan) is being launched under very difficult economic conditions. There is near crisis situation in the infrastructure sector ; inflationary pressures are building up unabated ; and there are wide-spread shortages of vital inputs and goods of daily consumption. Therefore, the basic strategy for formulating the programmes for the plan should be directed towards speeding up the productive impulses in the economy, arresting the inflationary pressures and alleviating the hardship of the people by providing for their day-to-day consumption requirements. Besides, the goal of equitable distribution of gains of development and mitigating hardships being faced by the poor strata of society, specially the weakest amongst the scheduled castes and backward classes, needs to be kept constantly in view.

PLAN OBJECTIVES

2.1. The Plan has been formulated with a view to achieving the following objectives :—

- (i) stepping up of the rate of growth of State's economy from an average rate of growth of around 4 per cent achieved during the Fifth Five Year Plan period to 6 per cent per annum during the Sixth Five Year Plan 1980—85, thus, increasing the total State income at constant prices from Rs. 2126 crore in 1979-80 to 2867 crore in 1984-85 ;
- (ii) strengthening the infrastructural base of the economy ;
- (iii) optimum utilisation and management of ground and surface water resources ;

- (iv) diversification of the base of the State's economy ;
- (v) removal of poverty and unemployment amongst the scheduled castes and backward classes ;
- (vi) reduction in regional imbalances in the development of various regions of the State ;
- (vii) keeping up the current tempo of development in the sphere of social services like education, medical and public health and reorientating the approach with a view to laying stress on improving the quality of these services ; and
- (viii) improving the quality of life of the people of the State and evolving a Habitat policy.

PLAN STRATEGY

Accelerated Rate of Growth

2.2 Against a rate of growth of round 4% achieved during the last decade, a rate of growth of 6% per annum is targetted to be achieved during the Plan period. The rate of growth in the primary sector would be 5.2% in the secondary sector 9.8% and in the tertiary sector 5.7%. This rate of growth would ensure rise in the State income from the current level of Rs. 2126.00 crores to Rs. 2867.00 crore by the year, 1984-85 at constant prices (1970-71). The per capita income at 1970-71 prices is expected to increase from the current level of Rs. 1330 to Rs. 1627.

Strengthening of Infrastructure

2.3 The State has continued to suffer from severe power shortage. This has adversely affected the agricultural as well as industrial

growth. Therefore, the programmes for power generation have been accorded the highest priority while making sectoral allocations for the Plan. The objective is to step up the installed capacity by about 70% during the Plan period. Apart from adding additional generating capacity, vigorous efforts will be made to improve capacity utilisation in the existing projects/Plants, specially the GNDTP Bhatinda. Endeavour would also be made for the reduction of transmission and distribution losses. For achieving these targets, the requirements of the on going projects have been fully provided for.

2.4. Other measures for strengthening the infrastructure in the State are to ensure optimum utilisation and management of the water resources. It is anticipated that in the near future the State of Punjab would have utilised nearly all its total ground water resources potential. Therefore, conservation of surface and ground water resources become imperative. For this purpose a massive programme of lining of canal distributaries and field channels have been launched with assistance from the World Bank.

Diversification of the State's economy

2.5. The Punjab's economy continues to be predominantly agrarian. As much as 55.36% of the State's total income is contributed by the primary sector, while the contribution of secondary sector to the State's income is around 16% against the national average of 22%. For a sustained and higher rate growth of the State's economy, it is necessary to diversify the economic base by laying more stress on the development of industries. For this purpose a two pronged strategy of providing infrastructure facilities and incentives for industrial development has been launched. The main emphasis in this sphere would be to develop agro-based industries, light engineering industries with high value added output. This would be in keeping with the resources endowment of the State. Even within the agriculture, the emphasis from production of cereals needs to be shifted to animal husbandry, dairy, poultry development and piggery.

Removal of Poverty and Unemployment :

2.6. Hithertofore isolated and uncoordinated programmes for the removal of poverty and unemployment had been launched. These have not made any significant dent in the problem. Therefore, it is now proposed to launch an integrated programme for the removal of poverty and unemployment, especially among the economically weaker sections of the community. For this purpose a Statewide comprehensive survey for the identification of the families in the poverty zone have been launched, the results of which are likely to be available by the end of November, 1980. Thereafter, specific programmes for the removal of poverty and unemployment would be formulated and implemented. The main thrust of these programmes would be to ensure that at least one member of each of the identified families is provided gainful employment. The programmes for the welfare of the Scheduled Castes and Backward Classes, Children and Women, Ex-servicemen and the Central Integrated Rural Development Programme are proposed to be dovetailed in this overall strategy for the removal of poverty and unemployment. Out of roughly about 8 lakh families in the poverty zone in the State of Punjab, 50% would be covered under this programme in the Plan.

Reduction in Regional Imbalances

2.7. The State has certain special problem areas : Kandi area, the 'Bet' area and the border area. Besides, there are other backward pockets in other parts of the State. On account of certain special problems, these areas have been left behind in development. In the Plan, special emphasis is being laid on the development of the Kandi area with financial assistance from the World Bank. Under this project an integrated programme of development is envisaged. Special programmes and schemes have been formulated for development of the 'bet' and other backward pockets. A large number of concessions in the form of subsidy and loans are being offered to entrepreneurs to set up industries in these areas. It is expected that with the various programmes and schemes included in the Plan, these areas will be developed and the existing regional imbalances will be considerably reduced.

Keeping up the Tempo of Development of Social Services

2.8. In the matter of education, health and other social services emphasis so far has been mainly on their expansion. There is a primary school in practically every inhabited village in the State. A well structured three tier rural health service has also been created. It is now proposed to consolidate the gains of such expansions and bring about qualitative improvement and greater efficiency in these services. There will be more emphasis on improvement of school education through vocationisation, non-formal education and provision of buildings, furniture equipment, etc. Hospitals and dispensaries are proposed to be provided with the needed buildings, necessary staff, equipment and medicines. A very high priority has also been accorded to rural water supply programme so as to cover half of the remaining scarcity villages numbering 830 in the Sixth Five-Year Plan. With all these measures the social services in the State will be improved and brought to a high level efficiency.

Improving the Quality of life

2.9. Direct measures for improvement in the quality of life have been received adequate emphasis in the Plan. The most important programmes in this direction relate to rural and urban drinking water supply schemes, sewerage schemes, housing for industrial workers, construction of houses for harijans, environmental improvement

of harijan bastis and villages through pavement of streets and construction of drains, provision of community buildings, allotment of plots to urban homeless, etc. A purposeful and comprehensive habitat policy will be adopted in bringing about an all round environmental improvement in the living conditions of the people of the State, especially the weaker sections of the community, both in the rural and the urban areas.

PLAN SIZE

2.10. During the Fifth Five-Year Plan 1974—79, a Plan investment of Rs 940.13 crores had taken place. In the earlier draft Sixth Five Year Plan 1978—83, the Plan size was fixed at Rs 1500.00 crores. Keeping in view the rise in prices and the developmental needs of the State, the Plan size of Rs 2000.00 crores for the Sixth Five Year Plan 1980—85 is being proposed. This would mean a step up of 113% over the Fifth Five Year Plan 1974—79 and 33% over the draft Sixth Five Year Plan 1978—83. The Plan size for the Annual Plan 1981-82 is proposed at Rs 357.40 crores as against the Plan size of Rs 300.00 crores for the Annual Plan 1980-81. This is a step up of 19% over the previous year's Plan, i.e., 1980-81. Distribution of the Plan outlays by Heads of Development is shown in Annexure I, Annexure II contains physical targets of selected items for the Annual Plan 1981-82 and the Sixth Five-Year Plan 1980—85.

ANNEXURE—I
SIXTH FIVE YEAR PLAN 1980—85

Outlay by Development Heads

(Rs. in lakhs)

Sub Head of Development	Outlay 1980-81	Proposed outlay 1981-82	Proposed outlay 1980—85
1	2	3	4
I. Agriculture and Allied Sectors			
Agriculture ..	2375.00	1943.00	10160.00
Minor Irrigation ..	768.00	811.00	4878.00
Soil Conservation ..	340.00	340.00	2120.00
Food ..	5.00	12.00	17.00
Animal Husbandry ..	282.30	375.00	2030.00
Dairying and Milk Supply ..	82.00	51.00	236.00
Fisheries ..	30.00	30.00	175.00
Forests ..	195.00	300.00	1540.00
Community Development and Panchayats ..	855.00	955.00	5200.00
Total—I	4932.30	4817.00	26356.00
II. Cooperation			
..	586.20	820.00	4150.00
Total—II	586.20	820.00	4150.00
III. Irrigation and Power			
Irrigation ..	4100.00	4823.00	37051.00
Anti-Water logging, Drainage and Flood Control ..	500.00	400.00	2100.00
Power ..	10431.00	13635.00	73603.00
Total—III	15031.00	18858.00	112754.00
IV. Industry and Minerals			
Large and Medium Industries ..	900.00	1058.50	6087.20
Village and Small Scale Industries ..	340.00	410.50	2061.30
Mines and Minerals ..	3.00	8.00	20.00
Weights and Measures ..	3.00	3.00	15.00
Total—IV	1246.00	1480.00	8183.50
V. Transport and Communication			
Civil Aviation ..	29.50	14.00	70.00
Roads and Bridges ..	1300.00	1300.00	7015.00
Road Transport ..	700.00	800.00	4000.00
Tourism ..	45.00	45.00	255.00
Total—V	2074.50	2159.00	11340.00

ANNEXURE—I
SIXTH FIVE YEAR PLAN 1980—85
Outlay by Development Heads

(Rs. in lakhs)

Sub Head of Development	Outlay 1980-81	Proposed outlay 1981-82	Proposed outlay 1980—85
1	2	3	4
VI. Social and Community Services			
General Education ..	743.00	1045.00	5300.00
Technical Education ..	55.00	100.00	450.00
Public Health and Sanitation ..	840.00	950.00	5000.00
Rural Water Supply ..	500.00	800.00	2800.00
Housing ..	989.00	1040.00	5700.00
Urban Development ..	2125.00	2115.00	10000.00
Information and Publicity ..	36.00	37.50	180.00
Labour and Labour Welfare ..	47.00	546.00	2229.50
Welfare of Scheduled Castes and Backward Classes ..	389.00	489.00	3200.00
Social Welfare ..	85.00	161.00	582.00
Nutrition ..	16.00	16.00	80.00
Total—VI	5825.00	7300.50	35521.50
VII. Economic Services			
Statistics ..	*19.00	17.00	85.00
Planning Machinery ..	10.00	10.00	50.00
Total—VII	29.00	27.00	135.00
VIII. General Services			
Stationery and Printing ..	11.00	11.00	60.00
PUNSUP ..	10.00	10.00	50.00
Public Works ..	246.00	250.00	1400.00
Administrative Training Institute ..	9.00	9.00	50.00
Total—VIII	276.00	280.00	1560.00
Grand Total	30000.00	35740.50	200000.00

* (includes Rs. 2.00 lakhs for weights and measures).

ANNEXURE—II
SIXTH FIVE-YEAR PLAN 1980—85
(Main Physical Targets)

Item	Unit	1980-81		Proposed targets 1981-82	Proposed targets 1980—85
		Targets	Anticipated Achievement		
1	2	3	4	5	6
1. Agriculture and Allied Services					
1. Production of foodgrains—					
(a) Rice	000' tonnes	3300	3300	3500	4000
(b) Wheat	"	8000	8500	8500	9000
(c) Jowar	"	1	2	2	2
(d) Bajra	"	90	100	60	40
(e) Maize	"	800	800	830	900
(f) Other Cereals	"	60	50	40	40
(g) Pulses	"	249	248	268	318
Total Foodgrains		12500	13000	13200	14300
2. Commercial Crops—					
(a) Cotton	000' Bales	1350	1300	1350	1500
(b) Jute and Masta	"	—	—	—	—
(c) Sugarcane (cane)	000' tonnes	5500	5500	6500	7500
(d) Oilseeds (Major oil seeds)	"	300	235	300	350
(i) Groundnut	"	165	100	160	175
(ii) Castor Seed	"	—	—	—	—
(iii) Sesamum	"	5	5	6	6
(iv) Rapeseed and Mustard	"	128	128	132	168
(v) Linseed	"	2	2	2	1
(vi) Others	"	—	—	—	—
3. Chemical Fertilizers—					
(a) Nitrogenous (N)	000' tonnes	600	550	600	750
(b) Phosphatic (P)	"	250	210	250	300
(c) Potassic (K)	"	50	35	50	50
Total	"	900	795	900	1100
4. Plant Protection	000 tonnes of technical grade material	4.5	4.5	4.5	5.0

Item	Unit	1980-81		Proposed targets 1981-82	Proposed targets 1980-85
		Targets	Anticipated achievement		
1	2	3	4	5	6
5. Area Under High Yielding varieties—					
(a) Paddy	000 hec.	1050	1100	1150	1200
(b) Wheat	"	2600	2800	2825	2900
(c) Jowar	"	—	—	—	—
(d) Bajra	"	50	35	35	40
(e) Maize	"	100	100	105	110
Total		3800	4035	4115	4250
6. Cropped Area—					
(a) Net	000 hec.	4230	4300	4350	4600
(b) Gross	"	6600	6730	6850	7250
7. Agricultural Marketing—					
(a) Total No. of markets at Mandi level	Nos.	N.A.	118	N.A.	N.A.
(b) Regulated markets	"	115	118	N.A.	N.A.
(c) Sub-market yards	"	N.A.	494	N.A.	N.A.
(d) Sub-markets yards developed	"	N.A.	494	N.A.	N.A.
8. Land Reclaimed	Hects.	30,000	30,000	32,000	1,75,000
AGRICULTURAL CREDIT					
(during the year)					
(i) Short term	Rs. crores	181.00	181.00	200.00	300.00
(ii) Medium term	"	4.00	4.00	4.45	5.85
(iii) Long term	"	52.00	37.00	40.20	61.60
II—Soil Conservation and Water Management					
(i) Land levelling	000 hec.	7.7	7.7	6.0	32.0
(ii) Bench terracing	"	3.8	3.8	3.0	14.0
(iii) Contour bunding and gully reclamation	"	1.2	1.2	1.0	5.0
(v) Laying of underground pipelines	"	9.0	9.0	9.0	46.5
(v) Lining of water courses	"	—	—	—	3.5
(vi) Field drainage	"	—	—	1.0	4.0
Total		21.7	21.7	20.0	105.0
III—Animal Husbandry					
(i) Productions of animal products(during the year)—					
(a) Milk/Milk products	000 tonnes	3236	3236	3514	4254
(b) Eggs	Millions	514	514	564	782
(c) Wool	Lac Kgs.	13.13	13.13	14.06	16.50
(ii) Vety. Hospitals	Nos.	348	348	358	398
(iii) Vety. Hospitals at the focal points under IRDP	"	413	413	413	413

Item	Unit	1980-81			
		Targets	Anticipated achievement	Proposed targets 1981-82	Proposed targets 1980-85
1	2	3	4	5	6
(iv) Vety Dispensaries	Nos.	360	460	450	410
(v) Artificial insemination during the year	In lakhs	4.50	4.50	5.00	6.00
IV Dairying & Milk Supply					
(i) Fluid Milk Plants including Composite & feeder/balancing Milk Plants	No.	5	5	7	15
(ii) Milk products factories including creameries in operation	"	2	3	5	15
(iii) Dairy Co-operative Unions	No.	11	9	11	11
V. Fisheries					
(i) Fish Production	000 tonnes	3.0	2.8	3.0	3.5
VI. Forestry					
(i) Economic and Commercial plantations	000 hect.	6.00	10.70	14.80	14.80
(ii) Farm Forestry	"	4.40	5.40	6.00	6.00
VII. Irrigation					
(i) Area under major and medium irrigation (at the end of the year)—					
(a) Potential	000 hecets.	414	414	453	619
(b) Utilisation	"	412	412	451	619
(ii) Lining of distributories/Minors (during the year) K.Ms.		750	750	750	5250
(iii) Lining of water courses (during the year)	"	3525	3525	3500	17525
VIII. Power					
(i) Installed capacity (at the end of the year)	MW	1549.00	1537.00	1599	2450
(ii) Electricity generated during the year (including purchases from outside)	"	5970	5809	6304	8923
(iii) Electricity sold during the year (within State)	"	4802	4560	5012	7138
(iv) Tubewells/Pumping sets energised (during the year)	No.	28000	15000	15000	85000
(v) General connections (during the year)	"	140000	100000	100000	600000
(vi) Industrial connection (during the year)	"	3000	2000	2000	15000
IX. Transport					
(i) Roads at the end of the year—					
1. State Highways surfaced	Km.	1900	1900	1900	1900
2. Major District Roads surfaced	"	2100	2100	2100	2100
3. Other District Roads surfaced	"	2398	2394	2404	2448
4. Village Roads surfaced	"	24899	24899	25224	25824
Total Roads		31297	31293	31698	32272

Item	Unit	1980-81		Proposed Targets 1981-82	Proposed Targets 1980-85
		Targets	Anticipated Achieve- ment		
1	2	3	4	5	6
(ii) Villages not connected with roads	No.	191	191	130	—
(ii) Vehicles owned by State undertakings—					
(a) P.R.T.C.—					
(i) Fleetstrength at the end of the year	No.	1293	1293	1358	1596
(ii) Route Kilometerage operated daily	Km.	268521	268521	318507	359167
(b) Punjab Roadways—					
(i) Fleet strength at the end of the year	No.	2005	2005	2105	2438
(ii) Route Kilometerage operated daily	Km.	412649	412649	431551	523159
X. PUBLIC HEALTH AND SANITATION					
(i) Medical Education—					
(a) Annual Adm.	No.	460	460	460	460
(b) Annual Outturn	No.	450	450	450	450
(ii) Rural Health—					
(a) Subsidiary Health Centres	No.	200	200	—	200
(b) Dental Clinics	No.	10	10	10	40
(c) Dispensaries in Urban Slum Area	No.	5	5	5	25
(d) I.S.M. Dispensaries	No.	28	10	10	68
(e) Homoeopathic Dispensaries	No.	7	7	8	37
XI. Rural Water Supply					
(i) Villages covered	No.	80	80	100	830
XII. General Education					
1. Primary Schools	No.	14079	14079	14089	14119
2. Middle Schools	No.	1355	1355	1355	1355
3. High Schools	No.	1831	1831	1831	1831
Enrolment at the end of the year—					
(a) Age-group 6—11	'000	1975	1975	1975	1971
(b) Age-group 11—14	'000	690	690	750	910
(c) Age-group 14—17	'000	304	304	420	340
XIII. Housing					
1. Houses for Government Servants—					
(a) At District/Tehsil Headquarters and at other places	No.	628	740	80	1922 including 754 (spill over)
(b) At Focal points	"	158	218	Nil	696 including 478 (spill over)
(c) At Chandigarh	"	291	410	Nil	1128 including 718 (spill over)
Total		1077	1368	80	5404

Item	Unit	1980-81		Proposed targets 1981-82	Proposed targets 1980-85
		Targets	Anticipated achievement		
1	2	3	4	5	6
2. Houses for Police	No.	870	546 houses plus barrack allocation for 550	200	1645+550 barrack allocation
3. Subsidised Industrial Housing	"	60	60	40	228
4. Low Income Group Houses	"	1200	1200	1200	6000
5. Middle Income Group Houses	"	—	—	100	300
6. Houses for Rural house-less/land-less Workers	"	3389+6611 (spill over)	3389+6611 (spill over)	4000	24389+6611 (spill over)
XIV. Urban Development					
1. Area Acquired	Acres	..	..		Rs. 150 lakhs as a seed money has been provided for the constitution of Urban Development Authority. The targets will be work- ed out by the Authority after its coming into exis- tance
2. Area Developed	"	260	260		
3. Plots carved (during the year)	No.	N.A.	N.A.		
4. Plots sold (during the year)	"	N.A.	N.A.		
5. Progress realised (during the year)	Rs. in lakhs	N.A.	N.A.		

CHAPTER III

Financial Resources

The resources for the Sixth Five Year Plan 1980-85 and the Annual Plan 1981-82 were discussed at official level in the Planning Commission on the 6th and 7th October, 1980. In these discussions, the State's total resources for the Sixth Five Year Plan 1980-85 had been estimated at Rs. 1555.29 crores. This, however, did not include Central Assistance which the State would get during the period 1980-85. While submitting the forecast of receipts and disbursements to the Planning Commission, central assistance of the order of Rs. 366.40 crores had been assumed during the period 1980-85 as per the following details :—

Serial No.	Description	Amount (in crores)
1	IATP assistance	.. 41.40
2	Normal Central Assistance	.. 252.70
3	IDA assistance	.. 72.30
	Total	.. 366.40

The IATP assistance and the normal central assistance are assumed on the basis of 10 per cent rate of growth to the current year's level. With this order of central assistance, the total resources of the State for the Sixth Plan 1980-85 would work out to Rs. 1931.69 crores.

3.2. It may be mentioned that the Planning Commission had deducted from the resources for the Sixth Five Year Plan a sum of Rs. 27.53 crores on account of the opening deficit for the year 1980-81. This deficit had emerged because of the non fulfilment of the target of agreed additional resources mobilisation by the previous Government during the year 1979-80. Since it would not be practicable for the State Government to fill up this gap through additional resources mobilisation over

and above the already high target of additional resources mobilisation set for the current year 1980-81, the Government of India was requested to suitably assist the State Government in liquidating this opening gap so that it does not deplete the State's Plan resources. The Government of India had agreed to the rolling over of the gap to the extent of Rs. 18 crores and the adjustment of the remaining gap of Rs. 9.53 crores during the current year. Due to the severe constraint of resources during 1980-81 and 1981-82, it is proposed that this gap of Rs. 27.53 crores may be adjusted in the terminal year of the Sixth Five Year Plan. This would improve the resources position for the year 1980-81 to the extent of Rs. 9.53 crores and that for the year 1981-82 to the extent of Rs. 18 crores. However, the overall resources position would not change on this account.

3.3. During the official level discussions in the Planning Commission it was indicated that the resources position would further improve during 1980-81 on account of economy in non-plan expenditure (Rs. 9 crores) and mobilisation etc. of deposits from Corporations/Boards (Rs. 13 crores). This would improve the resources position for the Annual Plan 1980-81 and consequently for the Sixth Five Year Plan to the extent of Rs. 22.00 crores. Therefore, the resources for the Sixth Five Year Plan would work out to Rs. 1926.16 crores. The position of State's resources in summary form is at Annexure I.

3.4. Against the aforementioned estimate of resources, a Plan size of Rs. 2,000 crores is being proposed. This would leave a gap of about Rs. 74 crores between the proposed plan size and plan resources. It would be made good through buoyancy in tax and non-tax revenue receipts, economy in non-plan expenditure and further measures for additional resources mobilisation during the course of the Sixth Five Year Plan.

3.5. To summarise, the resources for the Annual Plans 1980-81 and 1981-82 and the Sixth Five-Year Plan 1980-85, are as under :—

S. No.	Item	1980-81	1981-82	1980-85
(Rs. in crores)				
1	State's total resources as assessed in discussions with the Planning Commission	215.65	258.34	1565.29
2	Central assistance	62.24	69.00	366.40
3	Mobilisation etc. of deposits from Corporations/Boards	13.00	—	13.00

S. No.	Item	1980-81	1981-82	1980-85
4	Economies in non-plan expenditure	9.00	—	9.00
5	Opening Deficit for 1980-81	—	—	(—) 27.53
6	Total	299.89	327.34	1926.16
		Say 300.00		
7	Plan size	300.00	357.40	2000.00
8	Resource gap (7—6)	—	30.06*	73.84*

*The gap would be made up by buoyancy in tax receipts, economy in non-plan expenditure and further measures for additional resources mobilisation during the course of the Sixth Five-Year Plan.

ANNEXURE I

Resources for the Annual Plan 1981-82 and the Sixth Five Year Plan 1980-85

(Rs. in crores)

Items	1980-81		1981-82		1980-85	
	As furnished by State Government	As worked out during discussion	As furnished by State Government	As worked out during discussion	As furnished by State Government	As worked out during discussion
1	2	3	4	5	6	7
I. State's Budgetary resources other than negotiated loans—						
1. Balance from current revenues at 1979-80 rates of taxation ..	102.60	101.20	126.10	121.50	728.80	734.81
2. Contribution of Public Enterprises at 1979-80 rates—						
(a) State Electricity Board ..	11.70	6.70	4.00	3.97	28.20	23.14
(b) Road Transport Corporation ..	(—)4.20	(—)4.18	(—)9.00	(—)9.05	(—)39.40	(—)39.34
3. Loans from Market by State Government and P.S.E.B. ..	16.00	16.00	17.60	17.60	97.70	97.70
4. Share of Small Savings ..	25.00	25.00	26.00	30.00	135.00	175.00
5. State Provident Fund (net) ..	10.10	10.10	10.80	10.80	58.30	58.30
6. Miscellaneous Capital Receipts (net) ..	15.20	15.20	18.20	18.90	91.20	94.00
7. Contribution of Local Bodies ..	10.00	10.00	—	—	10.00	10.00
Total I ..	186.40	180.02	193.70	193.72	1109.80	1153.61
II. Additional Resources Mobilisation—						
(a) 1980-81 measures ..	15.00	15.00	30.00	30.00	153.00	153.00
(b) 1981-82 measures ..	—	—	15.00	15.00	88.00	88.00
(c) 1982-83 measures ..	—	—	—	—	59.00	59.00
Total II ..	15.00	15.00	45.00	45.00	300.00	300.00
III. Negotiated Loans (Gross)—						
1. State Government—						
(a) Loans from L.I.C. ..	2.80	1.95	1.10	1.10	9.60	7.05
(b) Loans from R.B.I. ..	2.10	2.10	2.30	2.31	12.80	12.81
2. State Enterprises—						
(a) Loans from L.I.C. ..	9.40	7.68	8.50	8.45	48.90	46.91
(b) Loans from R.E.C. ..	5.20	5.20	4.00	5.72	19.20	31.74
(c) Loans from L.I.C. for R.T.C. ..	0.80	1.65	0.50	0.72	2.70	4.99
3. Other (L.I.C. loans for Water Supply) ..	1.20	2.05	1.30	1.32	7.00	8.18
Total III ..	21.50	20.63	17.70	19.62	100.20	111.68

(Rs in crores)

Items	1980-81		1981-82		1980-85	
	As furnished by State Government	As worked out during discussion	As furnished by State Government	As worked out during discussion	As furnished by State Government	As worked out during discussion
I	2	3	4	5	6	7
IV. State's Total Resources	222.90	215.65	256.40	258.34	1510.00	1565.29
V. Central Assistance—						
(a) Normal Assistance	43.20	33.22				
(b) I.A.T.P. Assistance	6.80	6.74				
(c) For Externally-Aided Projects	12.30	12.28	69.00	69.00	366.40	366.40
(d) Additional Plan Assistance	—	10.00				
Total V	62.30	62.24	69.00	69.00	366.40	366.40
VI. Total Resources IV+V	285.20	277.89	325.40	327.34	1876.40	1931.69
VII. Add—						
(i) Mobilisation of deposits		13.00				13.00
(ii) Economy		9.00				9.00
Total VII		22.00				22.00
VIII. Less opening deficit of 1980-81		—				(—)27.53
IX. Aggregate Resources for the Plan VI to VIII		299.89		327.34		1926.16

Agriculture and Rural Development (I)

Punjab State has a farm dominated economy. Agriculture sector contributes 56.9 per cent of the total State income (GDP) as compared to the all India figure of 45 per cent. Over 80 per cent of the population depends directly or indirectly on this sector. A sustained development and growth of agriculture is, therefore, imperative. Punjab has now entered into a new phase where intensive exploitation of land and water resources through multiple cropping has changed the total eco-system and has created over-dependence on a few crops like wheat and rice. Besides, agriculture has been confronted with some problems like that of rising pests/insects population, increasing incidence of weeds, depleting soil fertility, inadequate supply of vital agricultural inputs, like fertilizers, seeds, irrigation facilities and shrinking size of operational holdings. The future development strategy must, therefore, take into account these issues.

Objectives and strategy for the Sixth Plan :

4.2. The main aim is to achieve a growth rate of 5 per cent per annum during Sixth Plan 1980-85 in the agriculture and allied sector as against the rate of growth of 4 per cent for the country indicated by the National Development Council. In order to achieve this target of growth rate, definite production targets are required to be set and for achieving them a suitable strategy need be evolved. Following measures will form part of the envisaged strategy in this sector :—

- (i) increase irrigation facilities through installation of tubewells ;

Table 4.1: Land Utilisation

(000 hectares)

Item	1965-66	1974-75	1977-78	1978-79(P)
Geographical Area	5,038	5,038	5,038	5,038
Reported Area	5,028	5,033	5,033	5,033
Forest	83	211	209	217
Land not available for cultivation	638	531	536	490
Other uncultivated land excluding fallow lands	187	74	57	55
Fallow Lands	317	125	62	55
Net Cultivated Area	3,803	4,092	4,169	4,216
Percentage of Geographical area	76	81	83	84
Gross Cropped Area	4,889	5,904	6,391	6,629
Cropping Intensity percentage	128.5	144.3	153.3	157.2

- (ii) efficient water management through lining of channels and water courses ;
- (iii) enlarge certified seed supply programme so as to achieve the target of replacement of self-pollinated varieties after every 4th year and hybrids every year ;
- (iv) coverage of maximum area with timely-sowing/transplantation during the optimum period of sowing by regulating availability of essential inputs in time ;
- (v) carry out massive land reclamation programme ;
- (vi) balanced, efficient and economic use of fertilizers including micro-nutrients. The current level of 108 Kg./hect. will be increased to about 140 Kgs. per hectare ;
- (vii) increase productivity per unit area with economic and efficient use of vital inputs and higher cropping intensity ;
- (viii) assist common farmers of cotton growing areas of the state by laying more emphasis on ground/aerial spraying ;
- (ix) diversification of farming so as to increase the production of pulses, cotton, oil seeds, sugarcane, etc.

4.3. The Punjab State has exploited the natural physical resources of land to the maximum extent. Currently, over 84 per cent of the States geographical area is under cultivation as compared to the national average of about 42 per cent. The comparative statement of land utilization for the last few years is as under :—

4.4. The culturable wastes and fallow lands are less than 1.10 lakh hec. There is thus little scope for horizontal increase in land resources of the State. Side by side there is pressing demand from the growing sector of industry and urbanisation. In the Sixth Plan, most of the projected increase in the gross cropped area is expected on account of intensive multiple cropping.

Gross Cropped Area :

4.5. It is estimated that gross cropped area

for the year 1979-80 will be 66.50 lakh hectares. It is proposed to bring 6.00 lakhs hectares additional area through multiple cropping and Land Reclamation, etc. As such the total cropped area of 72.50 lakhs hectares is expected to be available by the end of sixth Plan giving an increase of 9 per cent over the gross cropped area for 1979-80. It is anticipated that about 58 per cent of the additional area will be covered with foodgrains crops. The crop-wise breakup of the additional area to be brought under cultivation is given below :—

Table 4.2: Gross cropped area by Principle Crops

(Area in 000' hectares)

Commodities	1979-80 assumed based level	1980-81 Targets	1981-82 Targets	1984-85 Targets	Additionality during 1980-85
1	2	3	4	5	6
Kharif					
Rice	1,173	1,200	1,200	1,325	152
Maize	392	357	400	500	108
Bajra	46	100	60	40	(-)6
Jowar	2	2	2	2	—
Pulses	39	48	48	58	19
Total Kharif	1,652	1,707	1,710	1,925	273
Rabi :					
Wheat	2,825	2,825	2,825	2,900	75
Barley	48	40	40	40	(-)8
Gram	251	205	205	240	(-)11
Pulses	20	35	35	35	15
Total Rabi	3,144	3,105	3,110	3,215	71
Total Foodgrains	4,796	4,812	4,820	5,140	344
Cotton	633	612	635	650	17
Sugarcane	79	98	110	120	41
Oilseeds	205	260	300	375	170
Potatoes	45	45	47	50	5
Other Crops	892	903	938	915	23
Total Cropped Area	6,650	6,730	6,850	7,250	600

4.6. During the Sixth Plan, large increases in area are projected for rice, wheat, and sugarcane. Among course cereals the area under barley and bajra is expected to decline but that under maize will go up substantially. With greater emphasis on the production of oilseeds and pulses, area under these crops is expected to increase significantly. However, area under gram is likely to come down on account of low yield as compared to other Rabi crops.

4.7. The projected 9 per cent increase in the gross cropped area during the Sixth Plan will be achieved by improving the cropping intensity from about 157.7 per cent during 1979-80 to about 172.0 per cent by the end of the Sixth Plan. This improvement is expected under the conditions of an almost stable net area sown. It is mostly the result of

spread of irrigation, evolution of short maturity crops, suitable rotation intensive use of fertilizers and mechanisation of peak season operations to economise the limited time between two crops.

Yield per hectare :

4.8. Punjab has been mainly a wheat-growing State up-to the end of the Fourth Plan. Now during the last five years it has also emerged as an important rice growing State. The average yield of wheat and rice are the highest in the country. Higher average yields per hectare are expected by the end of the Sixth Plan with the supply of more high yielding varieties of seed, extension of irrigation facilities, application of more fertilizers and other inputs. Yield per hectare of various crops in the state is given as under :—

Table 4.3: Yield of Different Crops in Punjab

(Kg./Hects.)

Crop	1979-80 Actual	1980-81 Targets	1981-82 Targets	1984-85 Targets
1	2	3	4	5
Rice	2,605	2,750	2,910	3,000
Jowar	500	1,000	1,000	1,000
Bajra	1,020	900	1,000	1,000
Maize	1,716	2,240	2,075	1,800
Wheat	2,800	2,830	3,000	3,100
Barley	940	1,250	1,000	1,000
Gram	685	880	950	1,000
Sugarcane (Gur)	51,090	56,120	59,100	62,500
Potatoes	17,500	19,000	19,000	21,000
Cotton (American)	357	370	390	420
Cotton (Desi)	242	260	265	280

Production :

4.9. Punjab has achieved a major break through in agricultural production, particularly in the production of wheat and rice. As a result of this,

the State is the largest single contributor to the Central Rice and Wheat Pool. The envisaged growth in the output of the Principle crops during the Sixth Plan period is given below :

Table 4.4. Output of Principle Crops

Item	Unit	1979-80				
		Base year (Triennial Average)	Estimates	1980-81 Targets	1981-82 Targets	1984-85 Targets
1	2	3	4	5	6	7
AGRICULTURE :						
1. Production of Principle Crops :						
Wheat	.. 000 (tonnes)	7322	7900	8000	8500	9000
rice	2880	3056	3300	3500	4000
maize	682	672	800	830	900
bajra	88	47	90	60	40
barley	65	74	60	40	40
other cereals (jowar)	1	1	1	2	2
total cereals	11038	11750	12251	12932	13982
gram	258	172	230	200	240
other pulses	29	33	19	68	78
total pulses	287	205	249	268	318
total foodgrains	11325	11955	12500	13200	14300
groundnuts	116	81	165	160	175
other oilseeds	72	81	135	140	175
total oilseeds	188	162	300	300	350
cotton	.. 000' bales	1256	1213	1350	1350	1500
sugarcane (Gur)	.. 000' tonnes	550	404	700	650	750
potato	781	787	850	875	925

4.10. The increase in the gross cropped area during the Sixth Plan is likely to raise crop production by about 9—10 per cent. Improvement in the cropping pattern will also make some contribution to this increase. The remaining projected increase in the output will be realised through improvement in per hectare yields by efficient and judicious application of various inputs.

4.11. Although wheat and rice will continue, to dominate agricultural production in the State, more emphasis is now being laid on the diversification of the cropping pattern. It is proposed to raise substantially the production of sugarcane, cotton, oilseeds and pulses. Production of sugarcane is expected to rise from 4.04 lakh tonnes in 1979-80 to 7.50 lakh tonnes in 1984-85. Oilseeds

output will be more than doubled over the same period. Cotton production will rise from 12.13 lakh bales in 1979-80 to 15.00 lakh bales in the last year of the Sixth Plan. Pulses are also expected to record a substantial increase from 2.05 lakh tonnes to 3.18 lakh tonnes during this period. The envisaged targets of these crops, when achieved will make agricultural production in the State a little more broad based.

AGRICULTURE

4.12. An outlay of Rs. 1943.00 lakhs has been provided for the sub-head of development Agriculture for the year, 1981-82 as against the

anticipated expenditure of Rs. 2375.00 lakhs for 1980-81. The provision for 1980—85 is placed at Rs. 10160.00 lakhs. The apparent decrease in the outlay for 1981-82 as compared to the outlay for 1980-81 is mainly because of the following reasons :

- (i) An outlay of Rs. 510.00 lakhs was made in the annual plan 1980-81 for providing one-time incentives for inputs to the farmers of the State. This programme is not being continued from 1981-82 on wards.

- (ii) The outlay for the programme relating to Small Marginal Farmers and Development Agencies (SFDA's) has been provided under the sub-head Community Development and Panchayats. Funds for the development of mandis which were provided earlier in the Plan side will now come from the State Marketing Board.

4.13. Outlays provided for some of the major programmes under this sub-head are given below :

Table 4.5 Major Outlay

(Rs. in lakhs)

Serial No.	Name of the Programme	Outlays	
		1981-82	1980—85
1	2	3	4
1.	Punjab Agricultural University	190.00	10,00.00
2.	Land Reclamation	478.07	26,21.00
3.	Multiplication and Distribution of Seed	49.70	181.00
4.	Minures and Fertilizers	46.30	711.50
5.	Plant Protection	372.70	18,36.00
6.	Commercial Crops	74.48	410.59
7.	Agricultural Engineering	70.00	225.00
8.	Warehousing	15.00	85.00
9.	Horticulture	115.00	590.00
10.	Agricultural Credit	378.00	17,23.00
11.	Employment Promotion	40.00	100.00

Reserach, Education, Extension and Training.

4.14. The Plan includes a comprehensive, programme of agricultural research, education extension and training to be undertaken by PAU, Ludhiana. The main areas of research are wheat rice, cotton, oilseeds, cereals and pulses etc. Research is being strengthened to evolve high yielding and disease resistant varieties. During the Sixth Plan, the main emphasis in crop improvement will be on genefic upgrading for yield, quality and in-built resistance to diseases. The university also undertakes programmes for spreading higher education, training of farmers, etc. It also under-

takes 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. 1000.00 lakhs has been provided for the Sixth Plan period (1980—85). The outlay for 1981-82 is proposed to Rs. 190.00 lakhs against the approved outlay of Rs. 180.00 lakhs for 1980-81. While providing this outlay it is envisaged that some schemes costing around Rs. 30 lakhs will be taken over to the non Plan side. Thus effective outlay for PAU in 1981-82 will be higher by this amount.

Reclamation of Land.

4.15. At the beginning of the Fifth Plan about 6,98,000 hectares were affected with alkalinity/salinity. Of this 4,63,000 hectares were marginally or moderately and 2,35,000 hectares were seriously affected. Most of the area in the first category is under cultivation, but on account of the affected patches, gives low yield. The reclamation process remained slow in the Fifth Plan as only about 16,029 hectares were reclaimed by 1977-78. The pace of the programme was stepped up in 1978-79. However, due to limited supply of gypsum an area of 26,990 hectares was reclaimed during 1978-79 against the target of 80,000 hectares. The programme has been given high priority in the Sixth Plan. It is proposed to reclaim 1,75,000 hectares of land during the Sixth Five Year Plan.

4.16. This programme covers three main schemes. Under the scheme A(P) 5.1 'Reclamation of Alkaline/Saline lands including culturable waste land' the Government takes on lease the

affected areas owned by village Panchayats for setting up of demonstration plots for reclamation work. Three reclamation centres have been set up—Kalanaur in district Gurdaspur (280 hec), Masitan in Kapurthala District (120 hec.) and Garachon in Sangrur District (40 hec). After reclamation, these areas will be used for seed production. Under the scheme A(P) 5.2. 'Amendment of Alkali Soils', gypsum, the main ingredient for reclamation of soils is supplied to farmers at a highly subsidised rate 75% for small and marginal farmers and 50% for others. The procurement and supply of gypsum is handled by Land Development and Reclamation Corporation, Scheme A(P) 5.3. The Corporation also provides bulldozers at reasonable rates for levelling and shaping of lands.

4.17. An outlay of Rs. 478.07 lakhs has been provided for 1981-82 for this programme as against the outlay of Rs. 462.34 lakhs for 1980-81. The outlay for 1980—85 is Rs. 2,621.00 lakhs. The physical achievement for 1978-79 and targets for 1980-81, 1981-82 and 1984-85 is given below :—

Table 4.6 Area reclaimed, Gypsum supplied and subsidy advanced

Item	Unit	1978-79	1979-80	1980-81 (targets)	1981-82 (targets)	1984-85 (targets)
1	2	3	4	5	6	7
1. Area Reclaimed	(hects.)	26,990	30,000	30,000	32,000	1,75,000
2. Gypsum supplied	000 tonnes	151.67	218.00	212.00	225.00	1,237.00
3. Subsidy Utilized	Rs in lakhs	210.00	393.42	433.90	441.52	2,484.00

Multiplication and Distribution of seeds.

4.18. Improved seeds increase productivity. Self pollinated seeds require replacement every 4-5 years and hybrids every year. Therefore, this programme has to be expanded from year to year. For the intensification of seed production, the Punjab State Seeds Corporation has been set up. It arranges for the production of seed through registered growers. The "Seed Certification Authority",

an autonomous organisation, has the responsibility for certification of seeds. Provision has also been made for the expansion of seed testing laboratory to ensure quality through all stages of production, processing and marketing.

4.19. Performance in respect of the supply of improved seed and targets for the Sixth Plan period are given in table 4.7. :

Table 4.7 Supply of Improved seeds

Seed	Unit	1978-79	1979-80	1980-81 (targets)	1981-82 (targets)	1984-85 (targets)
1	2	3	4	5	6	7
Wheat	000' Qtls	37.00	30.00	47.00	120.00	200.00
Paddy	" "	12.50	14.00	15.50	24.00	40.00
Gram	" "	2.20	0.65	1.39	4.20	6.00
Matze	" "	1.80	0.95	1.35	3.00	5.00

4.20. A provision of Rs. 49.70 lakhs and Rs. 181.00 lakhs has been made for 1981-82 and 1980-85 respectively for this programme.

Manures and Fertilizers

4.21. Since the introduction of High Yielding Varieties of crops fertilizers consumption has been

rapidly increasing. By 1979-80 the total consumption in terms of Plant nutrients (N, P₂O₅, K₂O) had increased to 686,000 tonnes. There is still a vast scope for further improvement in the consumption rate. Accordingly, the target for 1981-82 has been set at 900,000 tonnes against an anticipated consumption of 795,000 tonnes during the current year as per details given below :—

Table 4.8 Fertilizer Consumption

(000 tonnes of nutrients)

Year	N	P ₂ O ₅	K ₂ O	Total
1	2	3	4	5
1978-79	420	155	28	603
1979-80 (Base year (terennial average))	409	146	29	584
1979-80 (Actuals)	477	179	30	686
1980-81 (anticipated)	550	210	35	795
1981-82 (targets)	600	250	50	900
1980-85 (targets)	750	300	50	1,100

4.22. Fertilizer is a costly input and for making a balanced, efficient and economic use of fertilizers, soil testing is a pre-requisite. It is, therefore, necessary to provide this service to the farmers at their door-steps before sowing of the crops. The main object is to test the soils of farmers free of cost. A sum

of Rs. 21.30 lakhs has been provided for the scheme (AP) 7.1 'Establishment of Soil testing laboratories including mobile Testing Laboratories' for 1981-82 against a provision of Rs. 14.70 lakhs during 1980-81. The physical profile is given in Table 4.9.

Table 4.9 Soil Testing Laboratories/Samples

Item	Unit	Upto 1979-80	Targets		
			1980-81	1981-82	1984-85
	2	3	4	5	6
1 Testing Laboratories to be set up	No (Cumulative)	18	25	31	43
of soil samples to be analysed	No (Annually)	110	200	250	1,425

4.23. Funds to the extent of Rs. 25.00 lakhs have also been provided for giving subsidy to Markfed and Agro-Industries Corporation on imported Zinc Sulphate. The total provisions for this programme for 1981-82 is of the order of Rs. 46.30 lakhs while the allocation for 1980-85 is Rs. 711.50 lakhs.

Plant Protection.

4.24. The Plan provides for a variety of plant protection measures including both Soil/Seed treatment before sowing and prophylactic and curative spraying of crops.

4.25. Supply of quality pesticides is necessary

for the control of insects/pests. So far the insecticides/pesticides have been supplied by private trade. There are wide spread complaints of mal-practices 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. Under the scheme 'Ground spraying of crops' pesticides/insecticides etc. are supplied to farmers on 'no profit no loss' basis and plant protection equipment is supplied on rent. A provision of Rs. 80.00 lakhs has been made for 1981-82 for this scheme as against Rs. 60.00 lakhs in the current year. It is envisaged

to organise campaigns by providing squads pesticides and equipment. Provision has also been made for large scale campaigns to tackle the spread of pests and diseases in an epidemic form.

4.26. When the cotton plants grow to certain size, ground spraying becomes difficult. In this case aerial spray of cotton is arranged 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. The physical progress in respect of ground and aerial spraying along with the target for 1981-82 and 1980—85 is given in table below :—

Table 4.10: Ground/Aerial Spraying of Crops

(000' hecta).

Achievement (Annual)	1979-80	Targets		
		1980-81	1981-82	1980—85
1	2	3	4	5
(i) Ground Spray	693	700	770	790
(ii) Aerial spray	151	140	150	170

4.27. Under the scheme A (P) 9.5 'Control of weeds and loose smut' measures are taken for the control of weeds and loose smut with the use of chemicals. Herbicides like Tribunil and Dosavax, have been found effective. A provision of Rs. 30.00 lakhs (State Share) has been made for this scheme for 1981-82 as against Rs. 28.00 lakhs for the current year. It is proposed to supply the herbicides at 25 per cent subsidy out of which 12½ per cent of the subsidy will be met by the Government of India. It is envisaged to supply 170 tonnes of weedicides on a subsidized basis (25% of the cost) for-treating an area of 85,000 hectares.

4.28. A sum of Rs. 372.70 lakhs has been provided for the programme of plant Protection for 1981-82 against the provision of Rs. 329.71 lakhs for 1980-81 while the outlay for 1980—85 is Rs 1,836.00 lakhs.

Commercial Crops

4.29. Punjab's agriculture is predominantly cereal based. In view of the comfortable food-grain reserves, it is proposed to diversify agriculture by promoting the cultivation of commercial crops.

4.30. The scheme 'Development of Sugar-cane in the State and Public sector Sugar mills' aim to assist the sugar-cane cultivators in the sugar mill areas. Under this scheme good quality seed of improved varieties of sugar cane is supplied and measures are taken for the prevention and control of sugar-cane diseases and pests. Subsidy on the following items will be given :—

- (i) Subsidy of Rs. 1 per quintal to the producer of sugar-cane seed and subsidy of Rs. .1 per quintal to the purchaser of the seed.

- (ii) subsidy on the cost of pesticides required for the treatment of sugarcane seed at the time of sowing. The sugar mills will share 25 per cent of the cost of pesticides and the cane growers will pay the balance 50 per cent cost of the pesticides to be used by them for seed and Soil treatment.

4.31. Funds have also been provided for the Integrated cotton Development project Muktsar. A sum of Rs. 46.64 lakhs has been provided for 1981-82 for the scheme 'Intensive Cotton district programme including scheme for production of nucleous seed of cotton'. A matching contribution will be provided by the Government of India. Under another scheme 'Intensive oilseed development programme' it is envisaged to apply intensive approach to ground nut and rape-seed and mustard in selected high potential area with a view to increasing production of edible oil. A sum of Rs. 3.27 lakhs has been provided as the State share for 1981-82 for the scheme 'Intensive pulses development programme' which aims at raising production of pulses. These are centrally sponsored schemes and funds will also be provided by the Government of India.

4.32. An outlay of Rs. 74.48 lakhs has been earmarked for 1981-82 for this programme. The provision of Rs. 410.59 lakhs has been made for 1980-85.

Agricultural Engineering

4.33. Under this programme technical know-how and guidance is provided to farmers to take proper care of their machinery. A sum of Rs. 10.00 lakhs has been provided for the scheme

'Intensification of Farm Mechanisation and Popularisation of Improved Agricultural Implements' for 1981-82. It aims to introduce the newly evolved farm machinery amongst farmers, besides imparting training to farmers regarding selection, operation and maintenance of agricultural machinery. A provision of Rs. 60.00 lakhs has been made for Agro-Industries Corporation.

4.34. A sum of Rs. 70.00 lakhs has been earmarked for 1981-82 for this programme against the provision of Rs. 26.00 lakhs for 1980-81. The outlay provided for 1980-85 is Rs. 225.00 lakhs.

Warehousing

4.35. The Punjab State warehousing Corporation provides storage facilities to the farmers and purchasing agencies. The growing agricultural production has given rise to increasing demand for warehousing facilities. A provision of Rs. 15.00 lakhs and Rs. 85.00 lakhs has been made for 1981-82 and 1980-85, respectively for this programme.

Agricultural Credit

4.36. The Plan visualises mobilisation of maximum institutional finance for long term investment in agriculture. It has been proposed to finance installation of about 9,600 tubewells, purchase of 2,600 tractors, reclamation of about 1,5000 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 in debentures related to Loaning Programme for different purposes. Details of Agricultural Credit to be provided during 1981-82 is given in table 4.11.

Table 4.11: Agricultural Credit to be provided during 1981-82

(Rs in lakhs)

Scheme	Physical targets	Loans to be advanced	Debentures to be floated	Contribution by		
				State Govt.	GOI	Total
1	2	3	4	5	6	7
A(P)16.1 Support to ordinary and special debenture of LMB—						
(i) Agriculture Department	9600 T wells	17,20.00	15,50.00	117.50	117.50	235.00
(ii) Soil Conservation Department	N.A.	100.00	100.00	10.00	10.00	20.00

(contd)

Scheme	Physical targets	Loans to be advanced	Debentures to be floated	Contribution by		
				State Govt.	GOI	Total
1	2	3	4	5	6	7
A(P) 16.2 Purchase of debentures of SCLMB for the purchase of tractors and agricultural implements	2600	1300.00	1300.00	162.50	162.50	325.00
A(P) 16.3 ARC scheme for the reclamation of alkaline, saline soils	15000 Hects,	150.00	150.00	30.00	30.00	60.00
A(P) 16.4. Grant of loan for grape cultivation and construction of bowers under ARC scheme debenture support for Horticulture	..	64.00	64.00	8.00	8.00	16.00
A(P) 16.5 Gobar Gas Plants	—	—	—	—	—	—
A(P) 16.6 Dairy Development	1333 (Unit of 25 (animals) each	200.00	200.00	25.00	25.00	50.00
A(P) 16.7 Poultry, Piggery, Sheep breeding, cattle feed processing unit camel carts etc.	1000 units of 500 birds each)	200.00	200.00	25.00	25.00	50.00
Total		3734.00	3564.00	378.00	378.00	756.00

Employment Programme :

4.37. In order to provide custom service of machinery, the Government decided to set-up Agro-service centres in villages. These centres will provide custom service to the villagers at reasonable rates. Custom Service centres are allocated to the unemployed Agricultural Engineers and Matriculates. Funds for training programme are provided by Government of India to Agro-Industries corporation. Seed Margin money has to be made available by State Government to enable trained Engineers to raise requisite institutional finance. A sum of Rs. 40.00 lakhs has been provided for this programme for 1981-82 against the provisions of Rs. 20.00 lakhs during the current financial year. A sum of Rs. 100.00 lakhs has been provided for the sixth plan period.

Horticulture :

4.38. 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.

4.39. The Punjab State has a vast potential for building up horticulture on commercial lines. The sub-mountain tracts comprising the districts of Ropar, Hoshiarpur, Gurdaspur and parts of Patiala (Dera Bassi) districts 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.

4.40. At present, the estimated area under plantation, which has been static for the last several years, is 20,000 hectares. It is planned to rejuvenate most of the gardens including replantation of old deteriorated and uneconomic orchards. Besides, it is envisaged to bring under horticulture an additional area of 12,000 hectares during the Sixth Plan as per details given in table 4.12.

Table 4.12 :Area to be covered

Year	(Hectares)
	Area to be covered
1980-81	2000
1981-82	2000
1982-83	2400*
1983-84	2800
1984-85	2800
Total	12000

4.41. It is proposed to develop eight nursery-cum-progeny orchards during the Sixth Plan, besides, strengthening the present ones. The

year-wise requirement of nursery plants for bringing new area under fruits and re-plantation of the old area is given in the table 4.13.

Table 4.13: Nursery Plants

(Plants in lakhs)

Year	Requirement of Nursery Plants for		Total
	New Area	Re-plantation	
1980-81	5.00	2.50	7.50
1981-82	5.00	2.50	7.50
1982-83	6.00	3.00	9.00
1983-84	7.00	3.50	10.50
1984-85	7.00	3.50	10.50
Total	30.00	15.00	45.00

4.42. To achieve these objectives some of the important measures proposed are (i) development of nursery-cum-progeny orchards, besides strengthening the present net-work. (ii) approach commercial Banks for the grant of loans to the intending growers @ Rs. 5,000 per acre through A.R.D.C. scheme. (iii) the purchase of high-power spray equipment for ensuring timely spraying (iv) efficient marketing of the produce.

4.43. It is also being 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. In order to inculcate the habit of spraying orchards regularly 50% subsidy on insecticides/pesticides will also be provided.

4.44. A fruit preservation laboratory is functioning in the State at Patiala. Funds are being provided for the establishment of similar laboratory in Faridkot district. In addition to this, a sum of Rs. 8.00 lakhs has been provided for the establishment of 5 Community Canning Centres at Jullundur, Amritsar, Bhatinda, Gurdaspur and Ferozepur. Provision of Rs. 5.00 lakhs and Rs. 50.00 lakhs has also been made for a new scheme

“Marketing of Horticulture Produce” for 1981-82 and Sixth Plan respectively.

4.45. The total provision for the department of Horticulture for 1981-82 is Rs. 115.00 lakhs as against Rs. 100.00 lakhs provided for the current financial year. The outlay for the Sixth Plan is Rs. 590.00 lakhs.

Food :

4.46. Under this sub-head there are only two schemes namely “Acquisition of Land for open-storage/Complexes” and “Construction of godowns”. During the current financial year there is a provision of Rs. 5.00 lakhs for the scheme ‘Construction godowns’ at Dhuri with 4,000 tonnes capacity. There is no provision for the other scheme open storage/Complexes during the year 1980-81.

4.47. For the year 1981-82, a sum of Rs. 12.00 lakhs has been provided for this sub-head. Out of this, provision of Rs. 11.00 lakhs is for the scheme “Open Storage/Complexes”. It is proposed to construct 177 open plinths having a capacity of about 26,550 tonnes. The remaining amount of Rs. 1.00 lakh is needed for the residual work of the godown at Dhuri of which the construction work is in progress.

4.48. The details of 177 open plinths to be cons-

tructed on the vacant space available in the Government owned godowns are as under :—

Table 4.14 : Open Plinths to be constructed

Name of the district	Name of the place	No. of plinths to be constructed during 1981-82
1	2	3
1. Sangrur	.. Malerkotla	90
2. Gurdaspur	.. Batala	5
3. Ferozepur	.. Fazilka	10
4. Bhatinda	{ Mansa	6
	{ Rampur phool	7
5. Faridkot	.. Jaitu	24
6. Patiala	{ Patiala	.. 21
	{ Sarhind	.. 7
	{ Nabha	7
Total		.. 177

Soil Conservation :

4.49. There is hardly any scope for further increase in cultivated area in Punjab State because 84 % of the total geographical area is already under the plough. However, certain areas in the State are undulated and are affected by sheet erosion. There is also 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.

4.50. In the past, major part of the expenditure under this sub-head of development was incurred on lining of canal water courses. This work has since been transferred to the Punjab State Tubewell Corporation. The Department of Soil Conservation and Engineering, therefore, now mainly concentrates on laying of underground pipelines, land levelling, bench terracing and gully reclamation. Field

drainage is also proposed to be taken up during the Sixth Plan.

4.51. The outlays for the Sixth Plan and the Annual Plan 1981-82 are given below :—

Department	(Rs. in lakhs)	
	1980—85 outlay	1981-82 outlay
Soil Conservation and Engineering	1477.00	260.00
Forests	643.00	80.00
Total	2120.00	340.00

4.52. Physical targets/achievements are given in an Annexure to this Chapter.

4.53. Keeping in view the nature of soil conservation measures and the regions to be covered, the programmes and schemes have been rationalised to make them more meaningful and specific in their content.

Soil Survey :

4.54. In order to assess the magnitude of the problem of soil conservation and work out remedial measures, 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. 62.00 lakhs for 1980-85 and Rs. 11.00 lakhs for 1981-82 has been provided under the scheme SC(A) 1.1 'Soil Survey in the State' for surveying an area of 12.00 lakh hectares during 1980—85 and 2,40,000 hectares during 1981-82.

Education, Research and Training :

4.55. The Soil Conservation Training Institute imparts training to surveyors and 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 impart training to 25 gazetted and 100 non-gazetted officials

during the Sixth Plan period. In addition demonstration of approved soil conservation practices and research trials will also be carried out. An outlay of Rs. 30.00 lakhs for 1980-85 and Rs. 4.00 lakhs for 1981-82 has been provided for this programme.

Soil Conservation Programme :

4.56. During 1980—85, it is proposed to carry out soil conservation measures over an area of 1,05,000 hectares in sub-montane and other areas of the State. Main thrust of the Department would be on laying of underground pipelines over an area of 46,500 hectares. Details of the various works are as under :—

Sub-montane/Kandi areas.—Two schemes namely 'Soil and Water Conservation on watershed basis' and 'Pilot Project on development of Kandi area with World Bank assistance' are being implemented in the sub-montane 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. About 53,000 hectares are culturable waste lands and 26,000 hectares are Chod damaged lands. It has been estimated that about 1,10,000 hectares in the Kandi tract require land levelling and bench terracing and about 15,000 hectares require gully reclamation measures. During 1980-85, it is proposed to carry out various soil conservation measures over an area of 35,000 hectares.

4.57. An outlay of Rs. 675.00 lakhs for 1980—85 and a sum of Rs. 125.00 lakhs for 1981-82 have been provided in the plan under the scheme 'Soil and Water Conservation on Watershed basis' for undertaking soil conservation measures over an area of 23,000 hectares during the Sixth Plan period. The following works will be undertaken during the plan period :—

Item	1980—85 target (Hects.)	1981-82 target (Hects.)
(i) Bench terracing ..	11,000	2,000
(ii) Land levelling ..	4,000	930
(iii) Underground pipelines	6,000	1,170
(iv) Gully reclamation ..	2,000	400
Total	23,000	4,500

4.58. Integrated watershed management programme is being implemented through World Bank assistance in the catchments of five Choos of sub-mountainous areas of the State. An outlay of Rs. 296.00 lakhs for 1980—85 and Rs. 48.00 lakhs for 1981-82 has been provided in the plan for treatment of 12,000 hectares of area under various soil conservation measures during the Sixth Plan period. Out of total area to be covered, 1400 hectares of area will be covered during 1981-82.

4.59. A number of continuing schemes having identical objectives have been amalgamated under the new nomenclature 'Soil and water conservation programme in other areas of the State'. An expenditure of Rs. 105.22 lakhs was incurred under these schemes during 1979-80. A sum of Rs. 96.00 lakhs has been provided for the Annual Plan 1980-81. As the problem of soil conservation is more acute in sub-mountainous areas of the State, more funds have been allocated for this region. Against Rs. 971.00 lakhs allocated for this area, only a sum of Rs. 354.00 lakhs has been set aside for undertaking soil conservation measures in other areas of the State during the Sixth Plan. The main programmes to be covered in the Plains would be laying of underground pipelines over an area of 40,350 hectares and land levelling in 21,250 hectares. An allocation of Rs. 61.00 lakhs has been made in the Annual Plan 1981-82 for covering an area of 13,300 hectares.

4.60. An allocation of Rs. 60.00 lakhs has been made for the Sixth Plan period under the 'Centrally Sponsored Scheme for Integrated Watershed Management in catchments of Flood Prone River (Indo-Gangetic basin) Ghaggar river Punjab'. Matching funds would be provided by Government of India for implementation of this scheme over an area of 4000 hectares. A sum of Rs. 22.00 lakhs (50 per cent to be funded by Government of India) has been allocated for the Annual Plan 1981-82 for covering an area of 800 hectares.

Forest Department-Soil Conservation :

4.61. To achieve integrated development of land and water resources in five catchments of Maili, Dholbaha, Janaure, Chohal and Patiala Ke Rao upto their ou'falls, an important project of 'Kandi Watershed and area development has been taken up with financial assistance from the World Bank.

4.62. Upper catchments of Shivalik Hills 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. This causes huge devastation to productive agricultural lands. To increase agricultural production, generate employment opportunities and for improving the socio-economic conditions of the inhabitants of this area, the Kandi Project covers the following :—

- (i) Afforestation of upper catchments ;
- (ii) Development of pasture lands ;
- (iii) Promotion of dairy enterprise ;
- (iv) Construction of drains and embankments to moderate flashy rain off and

improvement of ground water resources ;

- (v) Utilization of impounded water for irrigating farm crops ;
- (vi) Development of fisheries ;
- (vii) Soil conservation programmes for the reclamation of waste lands.

3.63. For the implementation of forest component of Kandi Project, an outlay of Rs. 611.00 lakhs has been provided in the Sixth Five Year Plan for raising plantation over 18,500 hectares of area. In the Annual Plan 1981-82, an amount of Rs. 74.00 lakhs has been earmarked for planting 1800 hectares of area.

ANNEXURE

Achievements and Targets of Soil Conservation and Water Management

Item	Unit	1979-80 achievements	1980-81 target	Proposed targets	
				1980-85	1981-82
A. Soil Conservation and water management					
(i) Land levelling	.. Hectares	2,733	7,700	32,000	5,900
(ii) Bench terracing	.. ..	3,552	3,800	14,000	2,700
(iii) Contour banding and gully reclamation	.. ..	261	1,200	5,000	1,000
(iv) Laying of under-ground pipelines	.. ..	3,305	9,000	46,500	9,600
(v) Lining of water courses	.. ..	9,580	—	3,500	—
(vi) Field drainage	.. ..	—	—	4,000	800
Total	.. ..	19,431	21,700	1,05,000	20,000
B. (i) Laying of underground Pipelines	.. K.M.	137	400	2,300	480

CHAPTER V

Agriculture and Rural Development (II)

In view of the limited scope of addition to net area sown in the State, increased emphasis has been laid on diversification of agriculture. Thus more emphasis is being laid on other activities covering Animal Husbandry, Dairying and Milk Supply, Fisheries and Forests in the Sixth Plan. Besides, substantial provision has been made for small/marginal farmers and agricultural labourers for encouraging them to take up subsidiary occupations and supplement their income through productive programme.

ANIMAL HUSBANDRY

5.2. Despite large scale mechanisation of agricultural activities, bullock and buffalo continue to be the backbone of the rural economy. Raising of cattle and buffalo involves intensive use of labour and offers significant employment and income opportunities to small/marginal farmers

and agricultural labourers. As the growth curve for cereals tends to flatten out, it has become necessary to accelerate the pace of development in allied agricultural activities through the adoption of mixed farming where livestock development plays an important role. As indicated by the National Commission on Agriculture, promotion of livestock could be relied upon as a major instrument of social change.

5.3. Animal husbandry has been accorded high priority in the Sixth Plan with a view to augmenting milk production and subsidiary food. Against an outlay of Rs. 2.82 crores in 1980-81, an outlay of Rs. 3.75 crores has been provided for the year 1981-82. The outlay for the Sixth Five-Year plan 1980-85 has been proposed at Rs 20.30 crores. The main programmes under this sub-head of Development are :—

(Rs. in lakhs)

Serial No.	Name of the Programme	Outlay 1980-81	Proposed outlay 1981-82	Proposed outlay 1980-85
1	Veterinary Services and Animal Health	36.80	42.33	226.77
2	Veterinary Education and Research	50.00	60.00	275.00
3	Cattle Development	45.16	35.10	254.90
4	Poultry Development	16.40	10.00	65.10
5	Other Livestock Development	104.17	187.76	1,005.64
6	Feed and Fodder Development	14.27	16.83	77.28

5.4. The allocation of Rs 35.10 lakhs for the programme of "Cattle Development" in the Annual Plan 1981-82 appears to be lower as compared to the outlay of Rs 45.16 lakhs provided for 1980-81. This is mainly due to the fact that some of the schemes like AH 5.2 "Training of farmers in the technique of rearing, breeding, management etc." and AH 5.7 "Kule Majra Co-operative Farm etc."

have been given low priority. Besides, substantially enlarged provision of Rs 68.28 lakhs has been made for cattle/buffalo development programme in the Annual Plan 1981-82, against an outlay of Rs 9.17 lakhs provided during 1980-81 for this purpose under the programme. "Other Livestock Development". Thus cattle development including buffaloes has been accorded due priority in the Annual Plan 1981-82.

Veterinary Services and Animal Health

5.5. Adequate and effective health cover is an essential condition to improve the productivity of the indigenous livestock, as the cross-bred animals are more susceptible to diseases. At the end of 1979-80, there were 656 veterinary hospitals manned by qualified veterinarians. Besides this, there were 360 veterinary dispensaries manned by veterinary compounders/stock assistants catering to the health requirements of the livestock.

5.6. It is envisaged that during the Sixth Plan, 100 new veterinary dispensaries will be established to serve the livestock population. Of the existing dispensaries, 50 will be upgraded into veterinary hospitals by providing veterinary assistant surgeons. It is also proposed to carry out major repairs to 200 existing veterinary dispensaries and veterinary hospitals which are in urgent need of such repairs. An outlay of Rs 113.93 lakhs has been provided in the Sixth Plan and a provision of Rs 20.45 lakhs in the Annual Plan 1981-82 for these schemes. Besides, funds have also been provided for

other main schemes under this programme as given below :—

5.7. Biological product section of the Punjab Vaccine Institute, Ludhiana will be expanded to take up the production of new vaccines and antigens and increase the production of sera and vaccines.

5.8. For introduction of multi-disciplinary approach in combating animal diseases, reproductive disorders and nutritional imbalances, 4 polyclinics will be established at selected district headquarters during Sixth Plan.

5.9. Existing veterinary medical store will be expanded by providing additional stores and transport facilities to handle the increased work load of distributing medicines to the veterinary institutions.

5.10. 50% subsidy on supply of foot and mouth disease vaccine will continue to be available to the owners of cross-bred stock and high yielding indigenous animals.

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

Table-5.1 Physical Achievements and Targets regarding Veterinary Institutions

Item	Unit	1973-74 Actuals	1978-79 Actuals	1979-80 Actuals	1980-81 Targets	1981-82 Targets	1984-85 Terminal year target
1	2	3	4	5	6	7	8
Veterinary Hospitals	No.	276	348	348	348	358	398
Veterinary Dispensaries	No.	259	360	360	460	450	410
Veterinary Hospitals-cum-Artificial Insemination Centres under I.R.D.P.	No.	—	202	308	413	413	413
Mobile Veterinary Dispensaries	No.	6	—	—	—	—	—
Total Veterinary Institutions		541	910	1,016	1,221	1,221	1,221
Livestock Population	In lakhs	91.15	103.12	105.71	108.35	109.70	118.14
Heads of Livestock served per veterinary Institution	In 000	16.85	11.33	10.41	8.88	8.98	9.67

Cattle Development

5.12. Breed improvement is the key to cattle development. It will be undertaken through intensification of cross-breeding programme. The thrust of the Cattle Development Programme is towards increased production of milk. Total milk

production in 1979-80 has been estimated at 3,059 thousand tonnes giving a per capita availability of 524 gms. per day. The milch buffaloes number about 2,555 thousand as against 1,013 thousand milch cows. The buffalo also gives a higher average daily milk yield of about 4.31 litres as

against 2.45 litres in the case of the cow. The buffalo is still the primary milch animal of the State. While the cattle Development programme covers both cows and buffaloes in the Sixth Plan, the accent will be on the latter. Main development measures proposed to be taken during the Sixth Plan are enumerated below :—

- (i) Artificial insemination facilities will be expanded through the frozen semen technique by setting up bull stations cum semen banks at Kapurthala for cow bulls.
- (ii) Arrangements for the production of frozen semen of buffalo bulls at the existing semen banks at Nabha and Patiala will be strengthened. Four regional semen banks will be established to cover 70% of breeding cow population and 30% of buffalo population.
- (iii) The introduction of Frozen Semen Technology will be accelerated in the southern districts so as to cover 300 additional insemination units by importing

liquid Nitrogen containers and other accessories.

- (iv) The shortage of pedigreed buffalo bulls will be overcome by arranging testing of buffalo bulls under field conditions and by herd registration of quality buffaloes of superior germ plasm.
- (v) Rearing of cross-bred will be further promoted among small/marginal farmers and agricultural labourers by providing them subsidy in the form of balanced cattle feed.
- (vi) The existing Holstein Friesian Cattle Breeding farm at Matthewara will be expanded.

5.13 Funds to the extent of Rs. 254.90 lakhs have been provided in the Sixth Plan and Rs 35.10 lakhs for the Annual Plan 1981-82 for this purpose.

5.14 A Table indicating the number of milch cattle and milk production by type of cattle in the state is given below :—

Table 5.2 Stock of Milch Cattle and Milk Production by Type of Cattle

Unit		1973-74	1978-79	1979-80	1980-81	1981-82	1984-85
1. Milch Cattle	.. Thousand No.	2,884	3,443	3,568	3,699	3,834	4,275
(i) Buffaloes	.. ..	1,979	2,449	2,555	2,666	2,782	3,162
(ii) Cows	.. ..	905	994	1,013	1,033	1,052	1,113
2. Milk Production	.. Thousand Tonnes	2,100	2,911	3,059	3,236	3,514	4,254
(i) Buffaloes	.. ..	1,700	2,310	2,420	2,530	2,695	3,174
(ii) Cows	.. ..	400	601	639	706	819	1,080
3. Per Capita availability of milk per day	.. gms.	404	508	524	544	579	661

Poultry Development

5.15. Commercial poultry farming has made considerable headway. In 1977 there were about 2.6 million layers and 2.1 million chicks in 3907 private poultry farms. 656 farms had more than 1000 layers. Egg production was estimated to be 474 millions in 1979. By the end of Sixth Plan period, egg production would be raised to 782 million. An outlay of Rs 65.10 lakhs has been provided for the Sixth Plan and Rs 10.00 lakhs for 1981-82 for this programme.

5.16. Following are the major programmes for poultry development during the Sixth Plan.

5.17. The present production of 2.50 lakh pullets will be doubled through the expansion of hatcheries by providing additional layers, incubators and by optimum utilisation of existing facilities at the poultry farms.

5.18. A Broiler Project will be set up by converting one of the existing poultry farms for raising 4 lakh a day old hybrid chicks annually.

A parent stock of 5000 birds will be maintained at the farm.

Sheep Development

5.19. The sheep population was about 565 thousand in 1977. The average wool yield of a ram was about 3.23 kg. of an ewe 1.86 kg. and of a lamb 1.96 kg. The total wool production during 1979-80 was estimated at 1,220 thousand kg. This is proposed to be increased to 1,650 thousand Kg. by 1984-85, an increase of 35 % over 1979-80 level. The main programme includes the availability of sufficient number of cross-bred rams, cross-breeding in the field by maintaining corriedale rams at sheep and wool extension centres and expansion of Sheep Breeding Farm, Mattewara through the introduction of additional Neli sheep.

5.20. Effective health cover will be provided through the supply of anthelmintics, anti-biotics, insecticides and sheep vaccine. It is also envisaged to promote the breeding of fat lambs through the setting up of a sheep farm of imported sheep numbering 300 of south down and doreset breed.

Piggery Development

5.21. Pig population was estimated at 85,000 in 1976-77. It is estimated to rise by 50 % during the Sixth Five Year Plan. The development programme includes completion of the pig breeding farm, Mattewara, continuance of the pig breeding farms already completed, expansion of the such farms at Nabha and Kharar to raise the strength of breeding sows to 200. At Kharar 100 to 150 Pigs will be fattened to ensure regular supply of fattened stock. To make piggery development more remunerative, following incentives are proposed to be given to the interested pig breeders.

- (i) Supply of weaners on subsidized rates.
- (ii) To make available ingredients like rice polish and molasses at controlled rates.
- (iii) Remunerative price to pig producers.

Fodder Development

5.22. For adequate and perennial supply of fodder, the following measures will be adopted during Sixth Plan :—

- (i) A greatly enlarged programme of seed

multiplication will be undertaken. Proper arrangement of production of breeder seeds, foundation seeds and certified seeds will be made through close co-ordination between the research institutes, seed multiplication agencies and the farmers.

- (ii) Production at the existing farms will be increased.
- (iii) Farmers will be acquainted with latest techniques of fodder cultivation through demonstration plots. They will be supplied improved fodder seeds.
- (iv) Additional capacity will be created for the production of cattle feed.
- (v) Milk production is expected to rise to 4254 thousand tonnes by 1984-85, a 39 % step up over 1979-80 level.

Other Livestock Development Programmes

5.23. Kandi Water-shed and Area Development Project has a component of Animal Husbandry. This programme includes the supply of 5000 cattle, 7500 sheep, 50 bulls, 250 rams to the inhabitants of the Project area to replace the existing stock of low yielding cows and goats. Under the I.R.D.P., 413 Veterinary Hospital-cum-Artificial Insemination Centres, likely to be set up by the end of 1980-81, would be maintained.

DAIRYING AND MILK SUPPLY

5.24. 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 also promotes diversification of agriculture and provides remunerative supplementary activities to the farmers especially to small/marginal farmers and landless/agricultural labourers. Commercial dairy-farming on scientific lines could provide the educated un-employed a new avenue of gainful self-employment. Thus Punjab seeks to follow up Green Revolution with White Revolution aiming at substantial increase in milk production.

5.25. An outlay of Rs. 236.00 lakhs has been provided for various plan schemes relating to dairying and milk supply programmes in the Sixth Plan 1980—85 and Rs. 51.00 lakhs for 1981-82, against an outlay of Rs. 82.00 lakhs provided during the current year. The reduced outlay is being proposed because massive investment in this sector is expected to come forth under Operation Flood-II, which has already been launched in the State. It is estimated that during the seven years of its operation, financial assistance to the extent of Rs. 58.32 crores would be available to the State from Indian Dairy Corporation/National Dairy Development Board. This will go a long way-in-developing-self-sustaining-and-self supporting dairy industry in the State.

5.26. The main programmes are discussed below :—

Education and Training

5.27. To meet the requirement of technical personnel for the existing as well as future milk plants, candidates are sent for training in Dairying Courses to various Dairying Research Institutes. During Sixth Plan, 40 candidates for I.D.D. and 20 for B.Sc. will be deputed for training. After the completion of the training, the candidates are required to serve the State for a period of 5 years.

5.28. For imparting technical know how to farmers in the scientific technique of feeding, breeding and better managerial practices and to enable them to turn to commercialisation of dairying, extension/training services will be expanded in the State by creating additional training units during the Sixth Plan. It is envisaged to impart training to 18,300 farmers/milk producers in 5 days/one month's training courses in scientific dairying. The trainees will be paid messing charges Rs. 5.00 per day for 5 days courses. An outlay of Rs. 22.00 lakhs for Sixth Plan and Rs. 3.50 lakhs for 1981-82 has been provided for this programme.

Dairy Development

5.29. Important programme under dairy development is the establishment of Milk Chilling-cum-Demonstration Centres. In order to encourage the inhabitants of border, sub-montane, bet and backward areas to take to milk production as a

subsidiary occupation, marketing facilities are proposed to be provided. Work relating to the construction of buildings and installation of machinery will be completed at the 10 Chilling-cum-Demonstration Centres where work of buildings and installation of machinery has been taken in hand. The nearest milk plant will lift the milk from these Chilling Centres. A sum of Rs. 92.00 lakhs for the Sixth Plan and Rs. 20.00 lakhs for 1981-82 has been provided for this purpose.

5.30. Under the special employment programme, 21 days training will be imparted to 3600 educated youngmen and women belonging to weaker sections of the society of rural areas for introduction of commercialised milk production during Sixth Plan period. Stipend @ Rs. 100 per mensem will be paid to each trainee. After the completion of training, the trainees will be assisted to get loans @ Rs. 15,000 from various financial institutions for the purchase of 5 milch animals. Besides, the following subsidies are also proposed to be provided to the trainees :—

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

5.31. An outlay of Rs. 50.00 lakhs for Sixth Plan and Rs. 12.00 lakhs for 1981-82 has been provided for the scheme. Funds have also 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 Punjab Government would arrange to supply milk worth Rs. 50.00 lakhs equal to $1\frac{1}{2}$ times the landed value of machinery and equipment donated by UNICEF in a period of 10 years. Subsidized milk would be supplied to the Scheduled castes, Backward Classes and other weaker sections of the society in the ratio of 2 : 1 : 2 respectively.

5.32. Besides, token provisions have also been made for the establishment of cattle feed factory, Milk Plant, Cheese Plant and laboratory

for testing milk and milk products. In case sufficient funds are not coming forth from Operation Flood-II for these activities during the plan period, provision of funds for these programmes would be considered after assessing their requirements.

FISHERIES

5.33. There is considerable scope in the State for supplementing agriculture by aquaculture to reduce the gap between the availability and requirements of high quality protein and subsidiary food (fish) at reasonable prices. A survey conducted by the Department of Fisheries has revealed that Punjab State has got enormous water resources. Four rivers comprise a length of 1,830 kilometres whereas canals and their distributaries have a length of 13,445 kilometres. Total area in village ponds and tanks suitable for fish culture is 3,100 hectares. In addition, there are 4,400 hectares of continuous strips of depressions along canals. Thus the total impounded area in the State available for fish culture is 8,700 hectares. A large number of existing tubewells and pumping sets can be fruitfully utilised to practise fish culture in dug ponds for raising fish production in the State. Punjab thus has a considerable resources for fresh water fish culture.

5.34. Out of 118 Blocks in the State, Fish Culture Programmes have been introduced so far in 72 blocks covering an area of 500 Hectares. Besides, with the introduction of cultural scheme 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 requirement of fingerlings for continuing fish culture activities in 1,300 hectares area will be to the extent of 65 lakh fingerlings annually if stocked @ 5,000 fingerlings per hectare. The production capacity of the existing six Fish Seed Farms and eleven Block Nurseries, which are likely to be completed by the end of 1980-81 will be to the extent of 60 lakh fingerlings annually. Therefore, to cover 1,300 hectares of water area and to bring the remaining 1,800 hectares of village ponds under intensive fish culture, the requirement of fingerlings will be to the extent of 1.55 crore annually.

5.35. An outlay of Rs. 175.00 lakhs has been provided for the development of fisheries in the State, for the Sixth Plan and the allocation for 1981-82 has been kept at the current year's level of Rs. 30.00 lakhs.

5.36. During Sixth Plan the growing requirements of fingerlings will be met by following main schemes :—

- (i) Four more fish seed farms will be established.
- (ii) Nursery area will be increased from 13 hectares to 30 hectares.
- (iii) Two dry bundhs will be constructed for the purpose of bund-breeding. 30 lakh fingerlings will be produced annually under the scheme of bund-breeding.
- (iv) Fish Farmers Co-operatives and Fishermen Co-operatives will be organised to bring fish farming and fish trade under the fold of Co-operative structure to eliminate middle men.
- (v) Running canals and areas above the barrages will be utilised for intensive fish farming by adopting cage fish culture technology.
- (vi) Glass-Jar hatcheries will be installed at all the existing farms and nurseries which will be completed during the Sixth Five-Year Plan.
- (vii) A fish seed farm will be completed during Sixth Five-Year Plan in the vicinity of Shah Nehar Reservoir. It will yield 5.00 lakh fingerlings annually for stocking the reservoir (200 hectares of water area).
- (viii) The Kandi Water Shed and Area Development Project has a fisheries component. It is proposed to construct two fish seed farms one each in the districts of Ropar and Hoshiarpur to develop fisheries potential by stocking fingerlings of carps in the proposed reservoirs to

be constructed on the Choes and in riverine stretch of river Sutlej from Ropar headwork upstream to Nangal headworks. During 1981-82, the construction work of both the farms will be taken up. An outlay of Rs. 64.00 lakhs has been provided for Sixth Plan and Rs. 8.00 lakhs for 1981-82 for this purpose.

5.37. It is proposed to bring 175 hectares of additional water area under intensive fish farming by giving 25 per cent subsidy both for excavation and renovation under IRDP during Sixth Plan. 75 hectares of water area will be newly excavated and 100 hectares of water area will be renovated. Under this programme, 263 metric tonnes of fish valued at Rs. 10.50 lakhs will be produced by the end of Sixth Five-Year Plan. During Annual Plan 1981-82, 35 hectares of water area will be brought under fish culture. Out of 35 hectares, 15 hectares of water area will be excavated and 20 hectares will be renovated.

5.38. A sum of Rs. 5.00 lakhs has been provided in the Sixth Plan to set up two mobile fisheries field laboratories for Ferozpur and Jullundur circles. These laboratories will study the effect of fish growth and suggest measures for proper fertilization and feeding. These mobile units would also conduct soil and water analysis. During 1981-82, one mobile unit will be set up to cover the districts of Bhatinda, Faridkot and Ferozpur, for which an outlay of Rs. 1.00 lakh has been provided. An outlay of Rs. 20.00 lakhs for the Sixth Plan and Rs. 4.00 lakhs for 1981-82 has been provided for the Centrally Sponsored Scheme "Assistance to Fish Farmers Development Agencies" of Gurdaspur, Amritsar, Jullundur and Ludhiana" for the promotion of pond fish culture in the selected areas, linking training, marketing and propagating modern technique of fish farming to achieve higher rate of fish production. Under this scheme, matching assistance will be received from Government of India. It is expected that 800 hectares of water area during Sixth Plan and 200 hectares during 1981-82 will be brought under fish culture by all these four agencies.

5.39. Provisions has also been made for :—

(i) Deputing District Fisheries Officers

for higher technical training course of two year's duration at Central Institute of Fisheries Education Bombay, twenty fisheries officers for one year's fisheries training course at Central Fisheries Research Institute, Barrakpur (Calcutta) and ten months' fisheries training course at the Central Fisheries Extension Training Centre at Hyderabad and sixteen fishermen/field assistants for nine months training course for specialisation in inland Fisheries Operations at Regional Training Centre, Agra. Besides, 200 candidates will be trained at Training Centre, Neilla (Nangal), at the rate of 40 candidates every year. During 1981-82, one district fisheries officer, four fisheries officers and four fishermen/field assistants will be deputed for training.

- (ii) Continuation of one fisheries extension unit to disseminate technical know-how in fish culture technology through audio-visual media for mobilizing people to adopt fish farming.
- (iii) Creation of demonstration centres at selected places where polyculture technology may be taught to raise fish production. A sum of Rs. 500 per hectare will be given as 25 per cent subsidy for inputs. 400 hectares will be covered during the Sixth Five-Year Plan and 80 hectares during 1981-82.
- (iv) Conducting survey of fishing potential of the State.

5.40. The fish production in the State is projected to grow from 2,600 tonnes in 1979-80 to 3,500 tonnes in 1984-85.

FORESTS

5.41. After the reorganisation of the State in 1966, 1,850 sq. kilometers of area came to the share of Punjab out of the 20,000 sq. kilometres of area of erst-while Punjab. This area was augmented by transferring 107.53 sq. kilometres of

evacuee land to the forest area. Besides, 48.33 sq. kilometres of land of the Revenue Department along River Ravi and management of some plantable area belonging to G.O.I., Defence Department had been transferred to the Forest Department. In addition, some private area has also been notified under Punjab Land Preservation Act, with the result that the total area under forest has now increased to 2,244 sq. kilometres which accounts for about 4.4% of the geographical area of the State. Out of the total forest area, about half of the area belongs to the private individuals. In view of the farm expansion that has taken place in the State, it would not be possible to enhance area under forests 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, fuelwood and industrial wood. Besides, trees can be planted along farm boundaries, roads and rail strips.

5.42. To ensure ecological security and to meet the fuel, fodder and other domestic requirements of the people and of small and large industries, the forestry schemes have been formulated. The main objectives are given as under :—

- (i) To plant over two crore trees annually in the State ;
- (ii) Fuel wood plantations will be raised to save cowdung from being used as fuel.
- (iii) To promote industrial forestry in the State ;
- (iv) To provide tree/grass cover over denuded Shivaliks as an anti-erosion measure and as a source of fire-wood and industrial wood.
- (v) To improve the environments in the state particularly urban areas and to create sites for recreation.
- (vi) To conserve precious wild life in the State by maintaining sanctuaries and farms to attract migratory birds.

5.43. The forestry development programmes include the following :—

(1) Forest research will be conducted partly by the PAU and partly by the Department,

(2) The staff will be trained at the Punjab Forest School, Hoshiarpur where training will be imparted to forest guards, deputy forest rangers and forest rangers. Refresher courses in forest training will also be conducted.

(3) Plantation will be raised on private lands (owned by individuals). In the area under the control of the Forest Department, planting and maintenance will be done by the Department itself. In other areas, planting will be done by the Department while the owners will pay for the plants and be responsible for maintenance. During Sixth Plan, 20,400 hectares of area will be planted. During 1981-82, 4,000 hectares will be covered for afforestation.

(4) A major programme pertains to the raising plantations of economic species like shisham, kikar, eucalyptus, mulberry, khair, bamboos and chil, etc. in the block forests and strips along railways, roads and canals. The strips plantations will also serve as shelter belts. 17,000 hectares of Government lands will be covered during the Sixth Plan and 3,600 hectares will be planted during the Annual Plan 1981-82.

(5) Saplings will be supplied for planting along boundaries of land holdings, water channels in schools and on private waste lands and marginal lands. During the Sixth Plan, 300 lakh plants will be raised and distributed. During 1981-82, 60 lakh plants will be distributed to the public for afforestation purpose.

(6) Under a new Centrally Sponsored Scheme "Raising of fuel wood plantation", it is envisaged to plant 2,500 hectares of Government lands and 3,000 hectares of private lands during the Sixth Plan period. In the Annual Plan, 600 hectares of Government lands and 700 hectares of private lands would be covered for afforestation. Under another Centrally-Sponsored Scheme "Soil Water and Tree Conservation in Himalayas", it is envisaged to raise plantations over 3,300 hectares of Government lands and 10,000 hectares of private lands. In the Annual Plan 1981-82, 1,600 hectares of Government lands and 2,000 hectares of private lands will be covered for the purpose of plantations.

(7) "Environmental forestry" will comprise of planting of trees, shrubs and creepers on Government areas. 300 hectares of area will be planted during Sixth Plan and 100 hectares will be covered during 1981-82.

5.44 Other Programmes include :—

- (i) Construction of houses for the staff.
The Department envisages to construct 300 quarters during Sixth Plan and 50 quarters during 1981-82 for the staff to increase efficiency of work of plantations ;
- (ii) Setting up of a modern Zoological Park at Chhat Bir (near Chandigarh) which is considered a necessity in a progressive State for recreation and educational purposes. This will help in conservation, multiplication and rehabilitation of wild life particularly those species which are threatened with extinction. It is envisaged to complete the construction work of enclosures and purchase of various kinds of animals during the Sixth Plan period for which an outlay of Rs. 240.00 lakhs has been provided

in the Sixth Plan and Rs. 50 lakhs for 1981-82. Besides, wild life farms & sanctuaries will be maintained.

- (iii) The forestry component of the Karoli Water-shed and Area Development Project including afforestation of 1,800 hectares of Government lands and 16,700 hectares of private areas during Sixth Plan and 400 hectares of Government lands and 1,400 hectares of private lands during 1981-82 (with economic species) of the upper catchments of five choes ;

5.45 The provision for Sixth Five-Year Plan for the sub-head of development of 'Forests' is Rs. 1,540 lakhs as against the expenditure of Rs. 716.38 lakhs during 1975—79. An outlay of Rs. 300.00 lakhs has been provided for the Annual Plan 1981-82, against the provision of Rs. 195.00 lakhs for 1980-81. In addition, funds to the tune of Rs. 235.00 lakhs and Rs. 45.00 lakhs respectively would be available as Centre's 50% contribution to the Centrally-Sponsored Programme during Sixth Five-Year Plan 1980—85 and Annual Plan 1981-82, respectively. Scheme-wise physical targets are given in the table below.

Table 5.3 Physical Targets in Forest Development

Serial No.	Name of the Scheme	Unit	6th Plan targets			1981-82 targets		
			(Hectares)			(Hectares)		
			Govt. lands	Private lands	Total	Govt. lands	Private lands	Total
1	2	3	4	5	6	7	8	9
1.	Ft. 3.1 Raising of Industrial Plantations on private lands	Hectares	—	20,400	20,400	—	4,000	4,000
2.	Ft. 3.2 Raising of Fuelwood plantations (Centrally-sponsored)	Do	2,500	3,000	5,500	600	700	1,300
3.	Ft. 3.3 Plantation of Sissoo, Babul, Eucalyptus, chili, poplar, etc.	Do	17,000	—	17,000	3,600	—	3,600
4.	Ft. 3.4 Soil Water and Tree Conservation in Himalayas (Centrally-sponsored)	Do	3,300	10,000	13,300	1,600	2,000	3,600
5.	Ft. 3.5 Integrated Water-shed Management in the catchment of Flood Prone Rivers (Centrally-sponsored)	Do	—	2,200	2,200	—	—	—
6.	Ft. 3.6 Environmental Forestry	Do	300	—	300	100	—	100
7.	Ft. 3.7 Farm Forestry	Do	—	—	30,000	—	—	6,000

COMMUNITY DEVELOPMENT AND PANCHAYATS

5.46 Main emphasis under this sub-head of development is on the improvement of village sanitation through pavement of streets and construction of drains, disposal of sullage water, construction of Panchayat Ghars, Community Halls, shopping complexes and provision of other facilities like children parks, play grounds, drinking water wells, setting up of libraries, etc.

5.47 An outlay of Rs. 5200.00 lakhs for 1980-85 and Rs. 955.00 lakhs for 1981-82 has been provided for this sub-head. About half of the total provision has been made for pavement of streets and construction of drains. Other major schemes of the Department are :—

Scheme/Item	(Rs. lakhs.)	
	Outlay Proposed	
	1980-85	1981-82
(i) Grant-in-aid to small farmers development agencies under integrated rural development programme	1,385.00	295.00
(ii) Construction of panchayat ghars/ community halls	350.00	70.00
(iii) Creation of revenue earning assets by Panchayats	271.30	38.00
(iv) Provision of matching grants to Panchayats and local bodies for development works	240.00	40.00

Pavement of Streets :

5.48 All the villages in the State have been provided with link roads, but the position with regard to sanitation in villages remains deplorable. Paved streets and drains have been provided in 1,284 villages by the end of 1979-80. In an effort to step up the slow pace of work the outlay for this scheme was raised from Rs. 60.00 lakhs to Rs. 4.50 crore in 1980-81. State Government also proposes to cover all the villages under this programme during the Sixth Plan period. But due to scarcity of financial resources and material inputs like cement, bricks etc., it may not be possible to cover all the villages within the stipulated period. With an outlay of Rs. 2,754.00 lakhs provided for the Sixth Plan, the Department proposes to cover about 3,600 villages. A sum of Rs. 475.00 lakhs has been provided for covering about 620 villages

during 1981-82. Funds for this programme will be financed according to the following pattern :—

(i) State Plan funds	..	45%
(ii) Food for Work Aid	..	30%
(iii) Contribution by Panchayats		25%

Small Farmers Development Agencies

5.49 Grant-in-aid to Small Farmers Development Agencies is provided for encouraging subsidiary employment in the fields of dairy, poultry, piggery, sheep rearing, village and small industries. The main objective of this scheme is to provide full employment and better standard of living through productive programmes in rural areas. Small Farmers Development Agencies in the State, engaged in the process of rural development, mainly concentrate on productive activities for the realisation of the following objectives of integrated rural development programme :—

- (i) to provide full and gainful employment ;
- (ii) to increase agricultural production ;
- (iii) to revive/intensify traditional rural industries and trades ;
- (iv) to facilitate the development of cottage and small scale, agro-based and ancillary industries ; and
- (v) to ensure that weaker sections of rural society also participate and suitably benefit from the development process.

5.50 An outlay of Rs. 1,385.00 lakhs has been provided in the Sixth Plan for implementation of this programme. Matching contribution is expected from Government of India. Provision of Rs. 295.00 lakhs has been made under the scheme 'Grant-in-aid to Small Farmers Development Agencies under Integrated Rural Development Programme' for 1981-82.

Panchayat Ghars and Community Halls :

5.51 Grant-in-aid amounting to Rs. 25,000 is sanctioned for construction of Panchayat Ghars/Community Halls. Land for the construction of Panchayat Ghar is arranged by the concerned Panchayats themselves. In case the

expenditure on construction exceeds Rs. 25,000, the excess amount is to be provided by the Panchayats themselves out of their own resources. It is expected that 1,400 Panchayat Ghars would be constructed during the Sixth Plan to enable Panchayats to hold their meetings at a common place. An outlay of Rs. 70.00 lakhs has been provided in the Annual Plan 1981-82 for the construction of 280 Panchayat Ghars/Community Halls.

Financial Assistance to Panchayats/Panchayat Samitis :

5.52. Under the scheme 'Financial assistance to Panchayats/Panchayat Samitis and Zila Parishads for expenditure on revenue earning schemes', it is proposed to provide interest subsidy on bank loans amounting to Rs. 3.40 crore to be raised by about 5,200 Panchayats during the Sixth Plan period for the creation of revenue earning assets. An outlay of Rs. 271.30 lakhs has been provided for 1980-85 for this purpose. A sum of Rs. 38.00 lakhs has also been allocated under this scheme for covering about 1,000 Panchayats during 1981-82.

Assistance to Mahila Mandals, Balwadis and Craft Centres :

5.53. Two schemes namely 'Promotion and Strengthening of Mahila Mandals' and 'Composite programme for women and pre-school children—strengthening of Craft Centres' are being implemented for the welfare of women and pre-school children in the State. An outlay of Rs. 40.00 lakhs has been provided during Sixth Plan to grant financial assistance to 6000 Mahila Mandals. It is proposed to provide seed money of Rs. 5,000 to each Mahila Mandal to enable them to take up revenue earning projects. Mahila Mandals will also be provided subsidy for train-

Other Programmes :

5.55 Outlays provided for other schemes under the sub-head are as under :—

(Rs. in lakhs)

Name of the scheme	Outlay proposed	
	1980-85	1981-82
(i) CD 1-1 Staff for Integrated Rural Development Programme and publicity through Audio-visual-aids at Focal Points	20.00	4.25
(ii) CD 1-2 Additional staff at Headquarters.	10.00	2.00
(iii) CD 2-1 Study tour of non officials	1.20	0.25
(iv) CD 3-5 Development of Model villages.	20.00	5.00
(v) CD 3-6 Underground Water Sewerage.	60.00	7.00
(vi) CD 3-8 Grant-in-aid to Zila Parishads/Panchayat Samitis for Integrated Development of Villages of historical/religious importance.	21.00	5.00

ing of office bearers and for meeting the expenditure on the honorarium to the secretaries of the concerned Mahila Mandals. A sum of Rs. 8.00 lakhs has been provided for this programme during 1981-82. The scheme 'Composite programme for women and the pre-school children' aims at improving the nutritive diet being provided to pre-school children and nursing mothers. Efforts will also be made to improve quality of life in general through education and demonstrations of cooking of nutritive food once a week at village level. The cooked food is given to pre-school children and pregnant women. Equipment is also provided for Balwadis and Craft Centres, where various craft works such as tailoring, embroidery, cane work and doll-making are being undertaken. An outlay of Rs. 27.50 lakhs for 1980-85 and Rs. 5.50 lakhs for 1981-82 has been provided in the plan for the implementation of this programme. This scheme will cover 245 Balwadis and 354 Craft Centres.

Matching Grants to Panchayats :

5.54. Another important scheme, which aims at overall rural development, namely 'Matching grants to Panchayats and Local Bodies for development works' will be implemented with an outlay of Rs. 240.00 lakhs for 1980-85 and Rs. 40.00 lakhs for 1981-82. In order to induce Panchayats to undertake development works on their own, the State Government will offer matching contribution in terms of money. This scheme is considered important to support and implement the concept of plans at the grass roots. During 1979-80, an expenditure of Rs. 200.00 lakhs was incurred under this scheme by making provision for hospitals, civil dispensaries, veterinary dispensaries, school buildings, panchayat ghars, ever-clean latrines, pavement of streets, construction of drains etc.

CHAPTER VI

Co-operation

Co-operatives have been viewed as an important instrument for decentralisation of the economy and encouraging local initiative. They enable the small producers to secure economies which are otherwise available only to the large producers. In a pattern of development which emphasises family farms and village and small industries, co-operatives are an indispensable condition for success.

6.2. The schemes under this sub-head of development are being implemented by two departments, namely Department of Co-operation and the Department of Co-operative Audit. Allocations provided for these Departments are as under :—

(Rs. in lakhs)

Department	1980-85 Outlay	1981-82 Outlay
Co-operation	.. 4060.00	804.00
Co-operative Audit	.. 90.00	16.00
Total	.. 4150.00	820.00

6.3. During 1979-80, the Departments could expend an amount of Rs. 716.26 lakhs for the implementation of various schemes. An outlay of Rs. 586.20 lakhs has been allocated for 1980-81.

6.4. The Sixth Plan seeks to give a powerful boost to co-operation. The main thrusts are towards :—

- (i) revitalisation of the Co-operative Credit structure at the base level to enable the Primary Agricultural Service Societies to meet the crop credit requirements of the farmers and provide economic facilities and services.
- (ii) revitalising the Co-operative Banking system for providing convenient and easily accessible credit.

- (iii) providing extensive marketing and storage facilities for agricultural inputs to enable timely supply to farmers.

- (iv) developing a network of milk procurement societies at the village level on Anand Pattern and installation of new milk plants in the Co-operative Sector under Operation Flood-II.

- (v) creating a strong complement of processing units like new Spinning Mills, Co-operative Sugar Mills and Dyeing, Printing and Calendering Industrial Ventures.

- (vi) establishing an efficient distribution system for consumer articles in rural areas.

- (vii) creating new avenues of employment in processing units and such activities as marketing of fruits and vegetables through newly organised fruit and vegetable Co-operative Marketing Societies and establishment of new Industrial Co-operatives.

- (viii) reinforcing the co-operative audit structure in the State.

6.5. Major emphasis in the plan of the Co-operation Department has been laid on strengthening the credit structure in the State, construction of wheat storage godowns, supply of inputs, setting up of processing units like Spinning Mills, Co-operative Sugar Mills, Dyeing and Printing Industrial Units to be set up by Handloom Apex and construction of Cold Storages. All the major schemes of the Department are directed towards improvement of the economic condition of the rural people.

6.6. The Co-operation Department proposes to step up advancement of short-term loans from Rs. 154.17 crore during 1979-80 to Rs. 300.00 crore during 1984-85, the terminal year of the Sixth Five-

Year Plan. Long-term loans are proposed to be raised from about Rs. 23.00 crore during 1979-80 to about Rs. 62.00 crore during 1984-85. Deposits are also likely to rise from the base year (1979-80) level amounting to Rs. 190.00 crore to Rs. 290.00 crore by the end of Sixth Five-Year Plan. Overdues of Primary Agricultural Service Societies are also proposed to be reduced from 24 per cent to 18 per cent during the Sixth Plan period. Marketing of agricultural produce would also be substantially increased from 9.17 lakh tonnes to 18 lakh tonnes. There would be about four-fold increase in the purchase of cotton from the base year level of 1.10 lakh bales. The sale of consumer goods through the Co-operative Societies is also proposed to be doubled in rural areas during Sixth Plan period from the existing level of Rs. 20.58 crore during 1979-80. Another important activity of the Co-operation Department is the procurement of fertilizers, seeds and other inputs direct from the source by the Primary Co-operative Agricultural Service Societies located at focal points.

Credit Co-operatives

6.7. Main stress in the plan of the Co-operation Department for the Sixth Plan, as well as for 1981-82 has been laid on the programme of credit co-operatives. An outlay of Rs. 1324.10 lakhs for 1980-85 and Rs. 332.89 lakhs for 1981-82 has been provided for the implementation of various schemes under this programme. A sum of Rs. 590.00 lakhs for the Sixth Plan and Rs. 117.00 lakhs during 1981-82 would be provided for strengthening the equity of Primary Agricultural Service Societies and the Banks. In terms of physical targets, 2,200 Primary Agricultural Service Societies would be covered by the end of 1984-85. 900 such societies would be assisted during 1981-82. All the 43 Land Mortgage Banks are proposed to be strengthened during the Sixth Plan period by providing equity capital. 15 Central Co-operative Banks would also be assisted under this programme. Funds under this programme flow from the Reserve Bank of India out of its Long-term Operations Fund for strengthening the base of Co-operative Banks and Primary Agricultural Service Societies to enable them to discharge their functions effectively for providing finances for the purchase of fertilizers and various other agricultural inputs. A sum of Rs. 515.28 lakhs has also been provided under the scheme 'Assistance to Primary Agricultural Service Societies

for construction of godowns for the Sixth Plan period for the construction of 2,038 rural godowns. Assistance is proposed to be provided for 788 such godowns during 1981-82 with an outlay of Rs. 171.94 lakhs. Primary Agricultural Service Societies which have already been given first instalment of loan on the old pattern of 60 per cent loan to be provided by the NCDC and 40 per cent subsidy to be availed out of plan funds, would be provided assistance on the old pattern whereas assistance for 500 Metric Tonne capacity godowns would be provided on the new pattern detailed below :—

- (i) loan amounting to 60 per cent to be provided by the NCDC direct through the Punjab State Co-operative Bank ;
- (ii) Loan to the extent of 15 per cent to be provided by NCDC to the State Government for contribution as share capital by the State Government ;
- (iii) 20 per cent to be provided by the Government of India in the form of share capital ;
- (iv) 5 per cent to be contributed by the societies themselves.

6.8. Managerial subsidy amounting to Rs. 91.41 lakhs during 1980-85 and Rs. 23.00 lakhs during 1981-82 will be granted to the reorganised Primary Agricultural Service Societies. All the societies would be covered under this scheme by the end of 1981-82. Provision has also been made to grant assistance to Central Co-operative Banks for agricultural stabilisation fund and to Primary Agricultural Service Societies as bad debt reserves under this programme.

Warehousing and Marketing

6.9. Share capital amounting to Rs. 527.62 lakhs in the Sixth Plan and Rs. 99.81 lakhs during 1981-82 has been provided to the Markfed for construction of Wheat Storage Godowns and making arrangement for the supply of fertilizers etc. Department also proposes to organise 80 Fruit and Vegetable Co-operative Marketing Societies during 1980-85. The Department, however, envisages an ambitious programme of construction of godowns of total capacity of 20 lakh tonnes during the Sixth Plan period. The department expects that it would be in a position to avail assistance of

Rs. 7065.00 lakhs during 1980—85 and Rs. 723.65 lakhs during 1981-82 from National Co-operative Development Corporation. An allocation of Rs. 20.00 lakhs has been provided under the scheme 'Share capital contribution to marketing societies' for providing margin money to the newly organised societies. An outlay of Rs. 4.00 lakhs has been provided for assisting 16 such societies during 1981-82.

Processing Co-operatives

6.10. Emphasis has also been laid for setting up processing units in the Co-operative sector during the Sixth Plan period. An outlay of Rs. 977.93 lakhs has been provided under the programme Processing Co-operatives for 1980-85. 6 new Spinning Mills are proposed to be set up during the Sixth Plan period for which an outlay of Rs. 861.33 lakhs has been provided in the State Plan. It is expected that a sum of Rs. 1016.32 lakhs would be forthcoming from National Co-operative Development Corporation. Spinfed also proposes to raise institutional finance of about Rs. 21.14 crore from IFCI during the plan period. During 1981-82 a sum of Rs. 250.00 lakhs has been provided in the State Plan. It is expected that an amount of Rs. 910.00 lakhs would be availed from National Co-operative Development Corporation and IFCI. An outlay of Rs. 90.00 lakhs has also been provided for the expansion of Kot Kapura Spinning Mills. It is proposed to double the capacity of this existing unit from 25,000 spindles to 50,000 spindles during the Sixth Plan period. A sum of Rs. 15.60 lakhs has also been provided for the proposed Waste Cotton Spinning Mills Unit. A sum of Rs. 39.00 lakhs is expected to be provided by the NCDC for this proposed venture.

6.11. The Department proposes to set up 4 new Sugar Mills in Co-operative Sector during the Sixth Plan. Two of these would be taken up during 1981-82. A sum of Rs. 200.00 lakhs has been provided for 1980—85 for this purpose. Only token provision of Rs. 1.00 lakh has been provided in the Annual Plan 1981-82. More funds would be provided for this purpose during the course of year when the Department obtains requisite licences and ties up the financing arrangement with the NCDC and other term lending institutions. The Department also proposes to expand two existing Sugar Mills

during the Sixth Five Year Plan. An allocation of Rs. 250.00 lakhs has been made for this purpose for the Sixth Plan period. Only token provision of Rs. 1.00 lakh has been provided in the Annual Plan 1981-82.

Dairy Co-operatives

6.12. National Dairy Development Project Operation Flood II is under implementation in Punjab State. This programme is to be implemented within a period of seven years 1980—86 with the financial assistance to be provided by NDDB/IDC. It is expected that funds to the extent of Rs. 58.32 crore would be received for the development of self-sustaining and self-supporting dairy industry in the State for the following broad categories :—

	Rs. in lakhs
(a) Dairy Plants (Chilling Centres and distribution system) ..	3389.52
(b) Cattle feed plants ..	252.30
(c) Farmers' organisation and Milk production enhancement inputs ..	1165.34
(d) NDDB/IDC direct expenditure ..	336.50
(e) Price contingency ..	688.01
Total ..	5831.67 or 58.32 Crores

Almost the whole of the Dairy Cooperative Sector is likely to be covered under this operation.

6.13. Milk co-operative societies eliminate the middlemen between the producers and the milk plant, enable the members to avail of institutional finance for purchase of cattle, and facilitate procurement of inputs and services. Provision of Rs. 15.00 lakhs for the Sixth Plan and Rs. 4.00 lakhs for 1981-82 has been made under the scheme 'Share capital contribution to Primary Cooperative Milk Societies Unions and Milk Federation' for strengthening the base of dairy societies. This has been considered necessary as only 670 Dairy Co-operative Societies, out of total of 3,400 societies, have recently been formed on Anand pattern. Most of the existing societies shall have to be reorganised, so that these societies are provided regular marketing facilities

and veterinary help is extended to the dairy producers for their cattle wealth. At present there are four milk plants in the Cooperative Sector located at Hoshiarpur, Jullundur, Sangrur and Bhatinda. Another one is likely to be added at Gurdaspur. The Department also proposes to expand the existing capacity of Jullundur and Sangrur Milk Plants.

Industrial Cooperatives

6.14. Punjab State Handloom Apex Co-operative Society proposes to set up 3 processing units which would undertake dyeing, printing and calendaring of cotton cloth. An allocation of Rs. 50.00 lakhs has been made for this purpose in the Sixth Plan period under the scheme 'Assistance as loan and share capital for setting up processing units by Handloom Apex' and it is expected that funds amounting to Rs. 108.00 lakhs would flow from NCDC for these proposed Industrial Units during the Sixth Plan. Provision of Rs. 10.00 lakhs has been made for the Annual Plan 1981-82 in the State plan for setting up one unit and it is hoped that an amount of Rs. 27.00 lakhs would flow from NCEC for this purpose.

6.15. The Department proposes to organise 250 new Industrial Co-operative Societies during the Sixth Plan period. An outlay of Rs. 25.00 lakhs has been provided for strengthening the base of such societies. 50 societies would be assisted during 1981-82 with an outlay of Rs. 5.00 lakhs, provided for the Annual Plan 1981-82. Out of total allocation of Rs. 156.25 lakhs for the programme of Industrial Co-operatives, a sum of Rs. 122.00 lakhs has been allocated for the development of Handloom Industry in the State. Under this scheme, assistance will be given to the Handloom Weavers Co-operative Societies and the Punjab State Handloom Weavers Apex Federation. Likewise during 1981-82, a sum of Rs. 24.25 lakhs has been allocated for the development of Handlooms in the Co-operative Sector out of total allocation of Rs. 31.00 lakhs.

Consumer Co-operatives

6.16. The distribution of consumer articles in rural areas has gained momentum and it is proposed to open retail outlets at each of the existing 2,581 Primary Co-operative Reorganised Agricultural Service Societies. Assistance for this purpose is being provided by National Co-operative Development Corporation. It is expected that funds to the tune of Rs 415 lakhs would be provided by the NCDC for this purpose during the Sixth Plan period. A sum of Rs. 51.62 lakhs is likely to flow for this purpose during 1981-82. An allocation of Rs. 25.50 lakhs for 1980-85 and Rs. 4.00 lakhs for 1981-82 has been provided in the State Plan for strengthening Central Co-operative Consumer Stores and the State level Consumers Stores Federation.

Other Co-operatives

6.17. The Co-operation Department also proposes to set up 25 Co-operative Cold Stores during the Sixth Plan period. A sum of Rs. 191.25 lakhs has been provided for 1980-85 for this purpose. It is expected that an outlay of Rs. 595.00 lakhs would flow from NCDC for the establishment of these Cold Storages. A sum of Rs. 15.30 lakhs has been provided for the Annual Plan 1981-82.

Co-operative Audit

6.18. Regular, timely and effective audit is essential for proper functioning of the Co-operative Institutions. Additional staff is necessary both for proper audit of the existing Institutions and to cope with the envisaged expansion of this sector. An outlay of Rs. 90.00 lakhs for the Sixth Plan and Rs. 16.00 lakhs for the Annual Plan 1981-82 has been provided to meet the expenses of continuing and additional staff for audit of credit and non-credit societies, training and education of audit staff and strengthening the Headquarters.

Physical Targets and Achievements

6.19. The position with regard to achievements of physical targets during 1979-80, proposed targets

for 1981-82 and terminal year target for 1984-85 are depicted in the table below :—

Achievements and Targets in the Co-operative Sector

Serial No.	Item	Unit	Five year Plan 1980-85		1979-80 Achievement	1980-81		1981-82 proposed Target
			1979-80 Base year level	1984-85 Terminal year Targets		Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9
1	Co-operative Banks							
	(i) Branches	No.	587	590	587	610	590	590
	(ii) Deposits	Rupees Crores	190	290	190	230	230	250
2	Re-organised Primary Agri. Service Societies	No.	2581	2581	2581	2581	2581	2581
3	Coverage of Agri. Families	% age	78	84	78	80	80	81
4	Borrowing membership	% age	66	75	66	70	70	72
5	Agricultural Loans advanced during the year							
	(i) Short Term	Rs. crores	154.17	300.00	154.17	181	181	200.00
	(ii) Medium Term	„	—	5.85	—	4	4	4.45
	(iii) Long Term							
	(a) Ordinary	„	10.05	19.60	10.05	26	11	11.70
	(b) Special ARDC	„	12.92	42.00	12.92	26	26	28.50
	Total Loans Advanced		177.14	367.45	177.14	237	222	244.65
6	Loans to Small & marginal farmers							
	(i) Short Term	%age of total Agri. Loan	43	50	43	44	44	45
	(ii) Long Term	„	55	75	55	60	60	63
7	Overdue of short Term Agri. Loans							
	(i) Central Co-operative Banks	%age of demand	22	18	22	20	20	20
	(ii) Primary Agri. Service Societies	„	24	18	24	22	22	21
8	Fertilizer retailed by C-operatives							
	(i) Quantity	000 tonnes	290	400	290	375	310	350
	(ii) Value	Rs. lacs	9288	17150	9288	10216	12700	15000
9	(a) Agricultural produce marketed by Co-operatives							
	(i) Quantity	lac Tonnes	9.17	15.00	9.17	10.41	10.41	13.67
	(ii) Value	Rs. Crore	105.50	187.50	105.50	125.00	125.00	164.04
	(b) Cotton							
	(i) Quantity	lac bales	1.10	4.50	1.10	3.00	3.00	3.50
	(ii) Value	Rs. Crore	20.31	83.25	20.31	55.00	55.00	44.75
10	Retail Sale of Consumer goods by urban Consumers Co operatives	„	1.95	5.00	1.95	4.00	3.00	4.00

1	2	3	4	5	6	7	8	9
11	Retail Sale of Consumer goods through Co-operatives in Rural areas	Rs. Crore	20.58	40.10	20.58	22.00	32.00	40.00
12	Co-operative Storage (i) Rural godowns	No.	3217	4357	3217	3309	3445	3673
		000 Tonnes	6610	7015	6610	6650	6691	6772
	(ii) Other godowns	No.	760	2760	760	840	840	1060
		000 Tonnes	665	2665	665	745	745	965
13	Processing Units							
	(i) Organised	No.	42	49	42	48	46	49
	(ii) Installed	No.	42	49	42	42	43	44
14	Cold Storages							
	(i) Organised	No.	19	44	19	29	29	34
	(ii) Installed	No.	19	34	19	19	19	24
15	Dairy Programme							
	(i) Fluid Milk Plants including Creameries in operation	No.	1	13	1	3	3	5
	(ii) Milk Product Factories (including Creameries in operation)	No.	1	13	1	1	3	5
	(iii) Dairy Co-operative Unions	No.	7	11	7	9	9	11
	(iv) Milk Producers Co-op. Societies	No.	3400	4000	3400	4000	3500	3600

CHAPTER VII

Irrigation and Flood Control

Irrigation is the main stay of agriculture in Punjab. Out of the total geographical area of 50.38 lakh hectares the net area sown in Punjab during 1979-80 was 44.16 lakh hectares. The net area irrigated during this year was however 34.25 lakh hectares (80 per cent of the net area sown) out of which 14.50 lakh hectares was irrigated by canal irrigation and the remaining 19.75 lakh hectares was irrigated by Minor Irrigation Works, mainly tubewells. A target of creating new irrigation potential of 3.53 lakh hect during the Sixth Plan is envisaged. Out of this a potential of 2.18 lakh hectares would be created under Major and Medium Irrigation and 1.35 lakh hectares under Minor Irrigation Schemes.

7.2. Being an extremely vital input of new farm technology, irrigation has been accorded a comparatively high priority in the matter of allocation of funds. Sixth Five Year Plan 1980-85 envisages an outlay of Rs. 419.29 crores. Details of the outlays provided are as under :—

(Rs. in crores)

Item	1979-80 Actuals	Outlay 1980-81	Proposed outlay	
			1981-82	1980-85
Major and Medium Irrigation ..	31.88	41.00	48.23	370.51
Minor Irrigation ..	10.52	7.68	8.11	48.78
Total ..	42.40	48.68	56.34	419.29

7.3. Since most of the surface water resources in the State have already been tapped, and 80 per cent of the net area sown is already under irrigation, greater stress is being laid on creating higher irrigation potential through efficient water management techniques. Sufficient funds are therefore proposed to be provided for early completion of the on-going works. Some new

schemes are also envisaged during the Sixth Plan period.

7.4. The guiding considerations in implementation of the irrigation programme during the Sixth Plan and the Annual Plan 1981-82 are :—

- (i) expeditious implementation of on-going projects ;
- (ii) attention to detailed programming and evaluation of selected major projects and monitoring of their implementation ;
- (iii) stress on conjunctive use of surface and ground water in the commands of irrigation projects ; and
- (iv) accelerated pace of modernisation of existing canal systems.

7.5. The Irrigation programmes include (i) Multipurpose projects, (ii) Major and Medium Irrigation schemes (iii) Water Development schemes, (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

7.6. This is a Major Multipurpose Project of the State. 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 control of 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. The Irrigation potential of the project has been estimated at 3,48,000 hectares on completion. The power house will have an installed capacity of 480 MW (4 x 120). Besides, Stage-II of UBDC hydel project will add 3 units of 15 MW each. This project, which was submitted to Government

of India in 1964 for sanction at an estimated cost of Rs 69.63 crores has been much delayed. Consequently, the cost of the project at 1978 prices is estimated at Rs 380.00 crores. As the project had not been cleared by Government of India it could not take off the ground. Only small provisions had to be made yearly for preliminary works and to create the requisite infrastructure for further building of the Dam. A sum of Rs 23.40 crores had been spent on this project upto the end of 1979-80. During the current year a further sum of Rs 12.00 crores is likely to be spent. It is considered imperative that if this project, so vital for the State, is to be completed within a reasonable span of time a minimum investment of Rs 45.00 to Rs 50.00 crores annually is made. It is not possible for the State Government to finance such a huge project out of its limited resources. The Government of India is being approached to grant special assistance for the execution of this project. However, Rs 53.00 crores for the Sixth Plan period and Rs 12.00 crores for the Annual Plan 1981-82 (including Rs 52.00 lakhs for the design organisation) are proposed to be provided for this project from the State Plan.

7.7. Considering that special assistance for this project is forthcoming from Government of India and it is possible to provide at least Rs 45.00 crores for this project during the year 1981-82, it is proposed to execute following works with this amount :—

	(Rs in crores)
1. Establishment ..	2.50
2. Works—	
(i) Residential and non-residential buildings at Dam site and at Shahpur Kandi ..	4.00
(ii) External services in Shahpur Kandi and Dam site colonies ..	1.00
(iii) Construction of Railways (Balance works) ..	0.40
(iv) Construction of access roads to site, its culverts, retaining walls and drainage system (10 Kms.) ..	0.70

	Rs. in crores
(v) Construction of workshop building (Balance works) ..	0.50
(vi) Special T & P ..	23.00
(vii) Steel ..	4.00
(viii) Open cut excavation for tunnel portals and allied works ..	3.00
(ix) Construction of diversion tunnels ..	1.00
(x) Others ..	3.10
(xi) Batching, mixing, aggregate classification and other construction plants and workshop equipment ..	1.75
(xii) Alternative bridge over Ravi ..	0.30
(xiii) III T & P ..	0.25
(xiv) Suspense ..	2.00
Total ..	45.00

Shahpur Kandi Project

7.8. The Shahpur Kandi Project envisages construction of a Barrage across the river Ravi down stream of the proposed Thein Dal site and upstream of the existing Madhopur Head Works. The project will irrigate 33,000 hectares in J & K State and yield an installed capacity of 94 MW (2 x 47). The cost of the project which was estimated as Rs 68.16 crores had now been revised to Rs. 116.50 crores of which share of Jammu and Kashmir State is 20.67 crores. Since there is no irrigation benefit to Punjab from this project, entire cost will ultimately be chargeable to Power sector. But as the civil works are to be completed by Irrigation department the total provision has been made on the Irrigation side which will be later on debited to Power. Till now, only token provisions had been made for this project for the survey and investigation works but it is now proposed to take up this project in the right earnest and complete it during early seventh Plan period. An outlay of Rs 6548.00 lakhs has been proposed for the Sixth Five Year Plan and Rs 200.00 lakhs for the Annual Plan 1981-82. Whereas major civil works relating to the project would be completed during

the Sixth Five Year Plan, the works, such as preliminary survey, investigation, field and lab. tests, land, buildings and purchase of T & P would be taken up during 1981-82. The details of expenditure are as under :—

	(Rs in lakhs)
1. Surveys, Lab. and field tests	14.00
2. Land for reservoir, barrage, spillway, hydel works and colony area for Shahpur Kandi	.. 20.00
3. Compensation for land acquired	41.00
4. Roads	.. 8.00
5. Establishment	.. 30.00
6. T & P	.. 83.00
7. Miscellaneous such as O—Misc, Maintenance, losses of stock etc.	.. 4.00
Total	.. 200.00

Diversion Weir of Shahnehar Canal

7.9. Shahnehar is an inundation canal taking off a few kilometres downstream of the Pong Dam on the river Beas. The construction on 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. 34.45 crores due to price escalation and change in design. Upto the end of 1979-80 an expenditure of Rs. 20.61 crores had been incurred on this project. Further expenditure of Rs. 4.50 crores is likely to be incurred during the year 1980-81. An outlay of Rs. 4.50 crores is again proposed for the year 1981-82 and Rs. 13.84 crores are proposed for the Sixth Five Year Plan so as to complete this project during 1982-83.

The expenditure during 1981-82 would be incurred as under:—

	(Rs. in lakhs)
1. Works	.. 400.00
2. Machinery and equipment	.. 0.10
3. Suspense (stock)	.. 15.90
4. Establishment	.. 35.00
Total	.. 451.00
Less R/R on capital	.. 1.00
Net	.. 450.00

7.10. The main works proposed during 1981-82 are (i) Construction of left and Right bund (ii) Construction of aquaduct on Sohan khud, (iii) excavation and lining of feeder channel and (iv) residential and non-residential buildings. The details of the works proposed to be executed during 1981-82 are at Annexure-III (i).

Dholbaha Dam

7.11. 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 water of the choe will be utilised to irrigate 6,960 hect. An additional area of 2,700 hect. will benefit from flood protection. Some part of the bed of the choe will also be reclaimed for cultivation. The earlier cost estimate of Rs. 3.90 crores for this project now stands revised at Rs. 6.50 crores. An expenditure of Rs. 66.00 lakhs has been incurred on this project upto the end of 1979-80. Another Rs. 140.00 lakhs are likely to be expended during the year 1980-81. The project is being executed with the World Bank assistance. The following reimbursement would be received from the Government of India.

	(Rs. in lakhs)
1. Total cost of the project	.. 650.00
2. Amount to be reimbursed by World Bank to Government of India (50% of total cost)	.. 325.00
3. Amount to be reimbursed by Government of India to State Government (35% of the total cost)	.. 227.50

7.12. As the project is scheduled to be completed during the Sixth Five Year Plan, full spill-over requirement amounting to Rs. 584.00 lakhs is being provided during the Sixth Plan. An allocation of Rs. 150.00 lakhs is proposed for the Annual Plan 1981-82. Details of works expected to be carried out during the year 1981-82 are as under:—

	(Rs. in lakhs)
(i) Acquisition of land ..	25.00
(ii) Buildings ..	15.00
(iii) Earthwork in foundation ..	60.00
(iv) Payments to consultants ..	40.00
(v) Machinery ..	2.00
(vi) Establishment, suspense ..	8.00
Total ..	150.00

Low Dams in Kandi Area

7.13. The submontane 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, Scan Nadi and Sirsa Nadi choes, as also the Janauri Dam. The sites of these dams have been selected after the inspection of World Bank team under 'Kandi Watershed Area Development Programme'. The project is estimated to cost Rs. 1000.00 lakhs. This project is also being financed by the World Bank and the following reimbursement would be received:

	(Rs. in lakhs)
1. Total cost of the project ..	1000.00
2. Reimbursement to be received by Government of India (50% of the total cost) ..	500.00
3. Reimbursement to be received from Government of India by State Government (35% of total cost) ..	350.00

6.14. An expenditure of Rs 3.72 lakhs has already been incurred on this project upto the end

of the year 1979-80. Another Rs. 2.00 lakhs are expected to be spent on this project during the year 1980-81. As the project is scheduled to be completed during the Sixth Five Year Plan the whole of spill over requirement of Rs. 996.00 lakhs is proposed during Sixth Plan for this project. An outlay of Rs. 50.00 lakhs has been earmarked for the year 1981-82. The details of the works to be carried out during this period are as under:—

	(Rs. in lakhs)
1. Survey and Investigation ..	5.00
2. Drilling geological bores, holes, drifts and pits ..	25.00
3. Observing discharge data ..	5.00
4. Acquisition of land ..	4.00
5. Buildings ..	6.00
6. Establishment and Misc. ..	5.00
Total ..	50.00

Balance expenditure on Beas Project

7.15. The Beas Project Unit-I and II have since been completed. To meet the balance expenditure on this project Rs. 101.00 lakhs for Sixth Plan and Rs. 36.00 lakhs for Annual Plan 1981-82 have been provided. In addition to this amount Rs. 98.00 lakhs for the Sixth Plan and Rs. 32.00 lakhs for the Annual Plan 1981-82 for Beas Project Unit-I (Extension) and Rs. 455.00 lakhs for Sixth Plan and Rs. 175.00 lakhs for Annual Plan 1981-82 for Beas Project Unit-II (Extension) have been provided for the construction of these projects.

MAJOR AND MEDIUM IRRIGATION SCHEMES

Extension of non-perennial Irrigation to areas in UBDC tract

7.16. 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 distributories and minors as well as remodelling of the existing channels to increase their discharge capacities. On completion, the scheme is expected to

generate an additional irrigation potential of 235,000 hect. Upto the end of the year 1979-80 an expenditure of Rs. 533.00 lakhs had been incurred. Another sum of Rs. 18.00 lakhs is likely to be spent on this scheme during the year 1980-81. The cost estimate of Rs. 590.00 lakhs has now been revised to Rs. 631.00 lakhs. As the project is scheduled to be completed during the Sixth Plan full spill-over requirement of Rs. 98.00 lakhs is proposed to be made during this period. For the Annual Plan 1981-82 an outlay of Rs. 20.00 lakhs is proposed. It is expected that an Irrigation potential of 10,000 hectares would be created during this year. Main works proposed during 1981-82 are (i) Remodelling of old and construction of new bridges (ii) Remodelling of head regulators. Details of works to be completed during 1981-82 are at Annexure -III (ii).

Utilisation of surplus Ravi Beas Waters

7.17. Under this project, a part of the surplus Ravi Beas waters was to be utilised, besides remodelling of the existing irrigation channels, to increase the water allowance from 2.75 to 3.50 cusec per thousand acres for the areas lying to the South-West of the Ferozepur- Jakhhal line and to extend Irrigation to new areas so as to utilise part of the Ravi-Beas waters over and above the pre-partition usage. The project cost has been revised from Rs. 987.00 lakhs to Rs. 1,009.00 lakhs. An expenditure of Rs. 615.00 lakhs has already been incurred on this project upto the end of 1979-80. During 1980-81 another sum of Rs. 30.00 lakhs is likely to be spent. As this project is also scheduled to be completed during the Sixth Five year Plan entire spill over requirement of Rs. 394.00 lakhs is proposed to be met during this period. For the Annual Plan 1981-82 an outlay of Rs. 90.00 lakhs is proposed. In addition to remodelling work following new works are proposed to be undertaken:

- (i) Raising Banks of Sirhind Feeder channels to utilise the additional supplies becoming available from the year 1978.
- (ii) Raising banks of Eastern canal system.
- (iii) Constructing of Malerkotla Minor.
- (iv) Completing masonry works on Jansua Disty.

- (v) Raising and strengthening Bhatinda branch, Abohar Branch and Sidhwan Branch for utilising additional supply becoming available at Ropar.

7.18. An Irrigation potential of 43,000 hectares during the Sixth Plan and 19,000 hectares during 1981-82 is expected to be created under this scheme.

Extension and Improvement of Shahnehar Canal System

7.19. 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 hect. The enlarged and regular supply of water will make it possible to increase the irrigated area to 86,320 hect. by extending irrigation to non-irrigated areas. The scheme comprises of three units viz:

- (i) Remodelling, extension and lining of existing Shahnehar Canal.
- (ii) Construction of Kandi canal system.
- (iii) Extension of Kandi canal.

7.20. In order to cover the Kandi area of Hoshiarpur district, the alignment of the Kandi canal is proposed to run on higher contours. The area in question has no mode of irrigation facilities at present. It is economically and socially backward as compared to other areas of the State. The cost of the project has risen from the earlier approved estimate cost of Rs. 10.63 crores to Rs. 32.55 crores. Upto the end of the year 1979-80 an expenditure of Rs. 304.00 lakhs had been incurred on this project. An amount of Rs. 165.00 lakhs is likely to be spent on this project during the year 1980-81. The total spill over requirement of Rs. 2,951.00 lakhs of this project is proposed to be provided during the Sixth Plan period so as to complete it during this plan. For the Annual Plan 1981-82 an outlay of Rs. 350.00 lakhs is being proposed. It is expected to add 49,000 hect of irrigation potential on completion and 5000 hect. during 1981-82. The details of

works to be carried out during 1981-82 are given below:—

	(Rs. in lakhs)
(i) Preliminary ..	1.00
(ii) Land acquisition ..	25.00
(iii) E falls, Drg. works ..	25.00
(iv) Works ..	25.00
(v) Bridges, escapes and buildings	20.00
(vi) Earth work and Lining ..	100.00
(vii) Disty. ..	20.00
(viii) Machinery and equipment ..	84.00
(ix) Misc. ..	25.00
(x) Establishment ..	25.00
Total ..	350.00

Lining of Channels :

7.21. 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 almost 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 system of the State. The total length of the canals, main canals, branches, distributories, and minors is 14,882 Km. Of this, 506 Km. of main canals were constructed as lined channels in the very beginning. The programme for Lining Distributories and minors had been stepped up in the recent past. A length of 2,045 Kms. with an expenditure of Rs. 28.34 crores had been lined upto the end of the year 1979-80. A further sum of Rs. 1,672.00 lakhs is likely to be spent during the year 1980-81 with which 750 Kms. length of channels is likely to be lined.

The project estimates amounting to Rs. 100.09 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 year 1979-84. The financial reimbursement to be received from Govt. of

India for this scheme would be as under :—

	(Rs. in lakhs)
1. Total cost of the project ..	10,009.00
2. Reimbursement to be received by Govt. of India from World Bank (50 % of total cost) ..	5,004.50
3. Reimbursement to be received from Govt. of India by State Govt. (35 % of total cost) ..	3,510.15

7.22. Out of the total estimated cost of Rs. 100.09 crores of the World Bank Project an amount of Rs. 11.12 crores has been incurred during the year 1979-80 leaving a balance of Rs. 88.97 crores. An outlay of Rs. 118.88 crores is envisaged for this programme for the Sixth Plan which includes balance provision of Rs. 88.97 crores for the World Bank assisted Project. An allocation of Rs. 16.72 crores at the current year's level has been proposed for the year 1981-82. It is targetted to line 5,250 Km. of canal distributories during the Sixth Plan including 750 Kms. each during 1980-81 and 1981-82. An irrigation potential of 128,000 hectares is likely to be created during the Sixth Plan period out of which 19,000 hectares each will be during 1980-81 and 1981-82. This potential would be utilised mainly for increasing the water intensity of areas already irrigation under the command of canal irrigation.

Construction of New Distributories, Minors and Bridges.

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

7.24. This project is estimated to cost Rs. 400.00 lakhs. An expenditure of Rs. 25.00 lakhs was incurred during the year 1979-80 and further amount of Rs. 20.00 lakhs is likely to be spent on this scheme during the year 1980-81. An outlay of Rs. 270.00 lakhs is proposed for the Sixth Five Year Plan. For the Annual Plan 1981-82 it is

proposed to provide Rs. 30.00 lakhs for the following works :—

	(Rs. in lakhs)
1. Constructing Kalyan Minor ..	6.00
2. Constructing new lined upper Kauri Disty. ..	9.00
3. Constructing new lined Rania Minor from RD 0-24900 off-taking at RD-213000 Abohar Branch ..	9.00
4. Constructing Tandian lift irrigation channel off taking RD 116750/L Mussa Branch ..	2.00
5. Constructing Hiran Khurd Minor off-taking at RD 20320-R of Biroke branch ..	4.00
Total ..	30.00

7.25. An irrigation potential of 20,000 hect. is expected to be created during Sixth Plan and 5,000 hect. during 1981-82.

Modernisation of existing canal system :

7.26. Modernisation and improvement of the existing canal systems is required to be undertaken so as to conserve the supplies in the best manner possible for future development of irrigation. Under this programme, the following modernisation measures will be taken :—

1. Converting the non-patrolable banks into motorable banks.
2. Provision of adequate canal regulators and escapes for efficient functioning and supply of water.
3. Replacement of Karri regulation system by mechanically operated gates.
4. Provision of modern communication system.

7.27. In the absence of proper Project Report for this scheme only a token provision of Rs. 1.00 lakh for the Annual Plan 1981-82 has been provided.

LIFT IRRIGATION SCHEMES

Garhshanker Lift Irrigation Scheme

7.28. In order to provide irrigation facilities to the sub-montaneous area (Kandi Area) lying in the foot of Shivalik hills near Garhshanker in Hoshiarpur district, a scheme named 'Garhshanker Lift Irrigation scheme' has been sanctioned during the current year. It is expected that about 8,000 hect. of 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. Against the outlay of Rs. 20.00 lakhs for the current year an outlay of Rs. 50.00 lakhs is proposed for the Annual Plan 1981-82. As the scheme is proposed to be completed during the Sixth Plan the spill over requirement of Rs. 262.00 lakhs is proposed to be provided during this period.

7.29. Details of works to be carried out during the year 1981-82 are given below :—

	(Rs. in lakhs)
1. Preliminary ..	1.00
2. Acquisition of land ..	5.00
3. Works ..	12.00
4. Buildings ..	4.00
5. Earth work ..	10.00
6. Lining ..	10.00
7. Machinery and equipment ..	5.00
8. Misc. ..	3.00
Total ..	50.00

Garhi Lift Irrigation Scheme

7.30 It is proposed to provide irrigation facilities to areas bounded by Balachaur Bhaddi road and Shivalik foot-hills. 80 cs. of water is proposed to be lifted from off-take point at RD 87000-R of Bist Doab Canal. The scheme will provide irrigation to 8,500 ha. of backward area of Hoshiarpur District. The Project estimated to cost Rs. 486.00 lakhs is proposed to be completed during the sixth Plan period. The total project

cost of Rs. 486.00 lakhs has been proposed for the Sixth Five Year Plan. A sum of Rs. 50.00 lakhs will be spent on this scheme during the year 1981-82. The details of works to be carried out with this amount are given below :

	(Rs. in lakhs)
1. Preliminary ..	0.50
2. Acquisition of land ..	8.00
3. C-Works, pump house, pre-stressed pipe ..	12.50
4 Buildings ..	4.00
5. Earthwork ..	2.50
6. Lining of Channels ..	12.50
7. Misc. ..	3.00
8. Machinery and Equipment ..	7.00
Total ..	50.00

Lohat Lift Irrigation Scheme

7.31. Under this scheme it is proposed to provide irrigation facilities to the areas bounded by Ropar-Balachaur and Balachaur Bhaddi road and Shivalik foot-hills. It will provide irrigation to an area of 5,500 ha. The water is proposed to be lifted from an off-take point at RD-60000-R of Bist Doab Canal. Lift involved is 33.60 metres. This scheme will be a boon to the backward area of Hoshiarpur District and is proposed to be completed during the Sixth Plan period. The total project cost of Rs. 330.00 lakhs is proposed to be provided during this period. A sum of Rs. 30.00 lakhs has been earmarked for the year 1981-82. Details of works proposed to be carried out with this outlay are given below :—

	(Rs. in lakhs)
1. Preliminary ..	0.50
2. Acquisition of land ..	6.00
3. C. Works pump house and pre-stressed pipe ..	4.50
4. Buildings ..	4.00
5. Earthwork ..	8.00
6. Lining of Channels ..	3.00
7. Machinery and Equipment ..	4.00
Total ..	30.00

Lift Irrigation Scheme for Ghat Area in Ropar District

7.32. There are large areas lying in the sub-montaneous region of Ropar district known as Ghat Area which is devoid of any mode of Irrigation. It is proposed to lift water from Nangal Hydrel Channel/Bhakra Main line/Sutlej Yamuna Link and a channel is proposed to be run into high level land in order to provide irrigation to such un-irrigated areas. The lift involved is about 150 metres and it will provide irrigation to an area of 24,300 hect utilising 210 cs. of water with a water allowance of 3.5 cs. % acres of C.C.A. The estimated cost of the scheme is Rs. 36.00 crores. The scheme has already been investigated and project is under preparation. Outlay of Rs. 5.00 lakh for the year 1981-82 and Rs 18.00 crores for the Sixth Five-Year Plan are being proposed for this scheme.

Technical Assistance, Research and Training.

7.33. 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. The works would primarily benefit the farmers in these areas.

7.34. In the appraisal report brought out by the World Bank authorities on the 'kandi watershed and Area Development project', it has been desired to build up planning capacity in the Directorate of Water Resources. A team of consultants will work closely with staff of the Directorate and will provide them in-service training. Provision has therefore been made for the appointment of counter part staff and for the overseas training of 7 specialists for a period ranging between 6 to 12 months. Outlay of Rs. 265.00 lakhs for the Sixth Five Year Plan and Rs. 85.00 lakhs for the Annual Plan 1981-82 has been proposed.

Pilot Demonstration

7.35. Over and above the on-going modernisation programme for canal and water courses 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 part of the World Bank Aided Programme.

7.36. 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 high 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. 279.00 lakhs for the Sixth Five-Year Plan and an amount of Rs. 58.00 lakhs for the Annual Plan 1981-82 proposed to be set aside for this purpose. The following works will be taken up during the year 1981-82 :—

- (1) Survey and Investigation
- (2) Pilot Demonstration:—
 - (i) Sprinkler Irrigation
 - (ii) Saline augmentation tubewells
 - (iii) Buried conveyance system
 - (iv) Special studies.

Project Administration, Monitoring and Evaluation:

7.37. To co-ordinate the work of various implementing agencies concerned with the 'Irrigation Project of Punjab' an officer of the rank of Chief Engineer has been appointed as a Project Co-ordinator. A project co-ordination unit would assist the project co-ordinator and is headed by a Director. A provision of Rs. 32.00 lakhs for the Sixth Five-Year Plan and Rs. 8.00 lakhs for the Annual Plan 1981-82 has been made under this scheme.

Raising Lining of Bhakra Main Line for providing free board

7.38. It is proposed to restore the capacity of Bhakra Main Line to its authorised full supply of 12,455 cs. For this purpose, a project has been prepared at an estimated cost of Rs. 122.80 lakhs. This

project is common to the three States of Punjab, Haryana and Rajasthan and the cost is to be shared by these States. The share of Punjab State is Rs. 20.18 lakhs which is proposed to be provided in the Sixth Plan to achieve authorised capacity of the channel. A sum of Rs 1.00 lakh is proposed for the year 1981-82.

Construction of new lined combined Channels of Bikaner Canal and Main Branch Eastern Canal

7.39. The lining of the Bikaner canal which was constructed in nineteen twenties as a lined canal has deteriorated during its working of nearly 50 years. For the last many years it has not been able to carry its authorised full supply discharge. The Rajasthan State sometime back asked for the relining of this channel. As such a project estimate for constructing 'New Lined combined channel of Bikaner canal with Main Branch of Eastern canal' has been prepared. The Punjab share for lining of Eastern canal from RD 19000 to 173200 is Rs. 9.80 crores. There will be a saving of 72 cs. in this reach after it is lined and this will be used somewhere else for development of additional area of 8,000 hect. A sum of Rs. 20.00 lakhs is proposed to be spent on this scheme in 1981-82 and 480.00 lakhs during the Sixth Plan.

Irrigation scheme for areas lying on right side of River Sutlej

7.40. The proposed channel will take off from Nangal Pond upstream of Nangal dam and will run at right side of River Sutlej at a ridge. The area lying between left side of the proposed channel and the right edge of river will be provided with flow irrigation. The channel will cross Swan Nadi via an aqueduct. The tail of channel will be below Nurpur Bedi. The total area likely to be irrigated with 70 cs. of water is about 8.100 hect. The cost of the scheme is estimated at Rs 34.00 crores. The project is under preparation. A sum of Rs 10.00 lakhs is proposed to be spent on the scheme in 1981-82. An outlay of Rs. 14.00 crores is proposed for the Sixth Five-Year Plan.

Providing Irrigation facilities to the area on left side of Narwana Branch

7.41. There is a large compact block lying on the left side of Narwana branch which has no mode of irrigation. It is proposed to extend Rajpura Disty. of Bhakra Main line in order to bring the

area under the fold of irrigation. The estimated cost of the scheme is Rs. 5.00 crores. It will provide irrigation to an area of 12,000 hect. Outlays of Rs. 3.00 lakhs for the year 1981-82 and Rs. 200.00 lakhs for the Sixth Five-Year Plan are being proposed. The project report is, however, under preparation.

Providing Canal Irrigation facilities to the area of Erstwhile Malerkotla State.

7.42. In order to provide irrigation facilities to the area of erstwhile Malerkotla State, which was previously under tubewell irrigation, a channel with a discharge of 106 cs. is proposed to be constructed. The estimated cost of the scheme is Rs. 3.50 crores. An area of 17000 hect. will be irrigated by this channel. The project has since been investigated and prepared. Under this scheme, conjunctive use of surface and ground water will be introduced. Outlays of Rs. 2.00 lakhs for the year 1981-82 and Rs. 150.00 lakhs for the Sixth Five-Year Plan are proposed for this scheme.

Water Development

Investigation of Schemes:

7.43. 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, investigations required for new schemes in the future will necessarily have to be directed towards the goal of utilisation of the available water resources to get the maximum returns from irrigated land. 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. Outlays of Rs. 180.00 lakhs for Sixth Five-Year Plan and Rs 35.00 lakhs for the Annual Plan 1981-82 are proposed for this purpose. Apart from investigation of various schemes, geological, hydrological, material, property, social, economic and topographical surveys are to be carried out. Besides, discharge and sil observations of various *khuds* and *choes* in the State would be carried out.

Research Schemes :

7.44. 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. Outlays of Rs. 50.00 lakhs for the Sixth Five-Year Plan and Rs. 10.00 lakhs for the Annual Plan 1981-82 are proposed for the Research Schemes. The research schemes proposed to be taken up during 1981-82 will be selected out of the list given at Annexure III (iii).

6.45. Details regarding targets and achievements of potential created and utilisation up to the end of 1979-80, likely achievement during 1980-81, target for 1981-82 and 1984-85 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 1979-80, spill over requirement after 1979-80, outlay 1980-81 and proposed outlay 1981-82 and 1980-85 in respect of main Irrigation projects are given in Annexure III.

ANNEXURE I

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

(Rs. in lakhs)

Sr. No.	Name of the Scheme	Estimated cost (Latest revised)	Status of Project	Date of start	Schedu- led date of comple- tion	Expendi- ture incurred upto 1979-80	Spill over require- ment after 1979-80	Proposed outlay		
								Outlay 1980-81	Sixth Plan (1980-85)	Annual Plan (1981-82)
1	2	3	4	5	6	7	8	9	10	11
1	Beas Project Unit—I	1144.00	Stands cleared from Govt. of India	1959-60	1978-79	1125.00	19.00	13.00	19.00	6.00
2	Beas Project Unit—I (Extension)	128.00		1978-79	1982-83	30.00	98.00	34.00	98.00	32.00
3	Beas Project Unit—II	4949.00		1959-60	1978-79	4867.00	82.00	52.00	82.00	30.00
4	Beas Project Unit—II (Extension)	648.00		1978-79	1982-83	193.00	455.00	173.00	455.00	175.00
5	Thein Dam	38000.00	Technically cleared by G.O.I.	1977-78	1988-89	2340.00	35660.00	1200.00	5300.00	1200.00
6	Diversion Weir of Shahnehar Canal	3445.00	Stands cleared by G.O.I.	1972-73	1982-83	2061.00	1384.00	450.00	1384.00	450.00
7	Dholbahi Dam	650.00	Ditto	1980-81	1983-84	66.00	584.00	140.00	584.00	150.00
8	Sahpur Kandi Project	11650.00	Technically cleared by G.O.I.	1981-82	1986-87	1.45	11648.55	5.00	6548.00	200.00
9	Low Dams in Kandi area	1000.00	..	1980-81	1984-85	3.72	996.28	2.00	996.00	50.00
10	Extension of non-perennial Irrigation to areas in UBDC tract	631.00	Clearance awaited from G.O.I.	1st Plan	1983-84	533.00	98.00	18.00	98.00	20.00
11	Utilisation of surplus Ravi-Beas waters	1009.00	Ditto	1967-68	1984-85	615.00	394.00	30.00	394.00	90.00
12	Extension and Improvement of Shahnehar Canal	3255.00	Ditto	1975-76	1984-85	304.00	2951.00	165.00	2951.00	350.00
13	Lining of Channels	30000.00 (10009.00 World Bank Project)	Under sanc- tion	1974-75	Seventh Plan (1983-84 for World Bank Portion)	2834.00 (1112.00 of World Bank portion)	27166.00 (8897.00 of World Bank portion)	1672.00	11888.00 (8897.00 for World Bank portion)	1672.00
14	Construction of new Distri- butaries, Minors and Bridges	400.00	..	1980-81	Seventh Plan	25.00	375.00	20.00	270.00	30.00

ANNEXURE H

SIXTH FIVE-YEAR PLAN, 1980-85 AND ANNUAL PLAN, 1981-82

Major and Medium Irrigation Projects—Targets and Achievements

(000 Hect.)

Name of the Scheme	Districts to be benefited	Ultimate Irrigation potential	Commulative Benefits at the end of								
			Targets								
			1979-80		1980-81 Anticipated		1980-85		1981-82		
			Pot.	Utl.	Pot.	Utl.	Pot.	Utl.	Pct.	Utl.	
1	2	3	4	5	6	7	8	9	10	11	
A. Continuing Schemes—											
1. Major Schemes											
(i) Extension of non-perennial Irrigation to areas in UBDC tract	Gurdaspur & Amritsar	235	192	191	196	195	235	235	206	205	
(ii) Utilisation of surplus Ravi-Beas waters	Bhatinda, Ferozepur, Faridkot & Sangrur	252	209	208	212	211	252	252	231	230	
(iii) Thein Dam	Gurdaspur & Amritsar	348	—	—	—	—	—	—	—	—	
(iv) Dholbaha Dam	Hoshiarpur	2.6	—	—	—	—	2.6	2.6	—	—	
(v) Extension and Improvement of Shahnehar canal	Hoshiarpur & Jullundur	51	2	1	3	3	51	51	8	8	
(vi) Lining of Channels	All Districts	345	46	46	70	69	174	174	89	88	
Medium Schemes—											
(i) Construction of new Distributaries and Minors	All Districts	2	2	1	3	3	22	22	8	8	
New Schemes of Sixth Plan—											
(i) Low Dams in Kandl area	Hoshiarpur & Ropar	4.5	—	—	—	—	4.5	4.5	—	—	
(ii) Garhshanker Lift Scheme	Hoshiarpur	8	—	—	—	—	8	8	—	—	
(iii) Lohat Lift Scheme	Do	5.5	—	—	—	—	5.5	5.5	—	—	
(iv) Garhi Lift Scheme	Do	8.5	—	—	—	—	8.5	8.5	—	—	
(v) Lift Scheme for Ghat area in Ropar District	Ropar	24	—	—	—	—	12	12	—	—	
(vi) Constructing new lined combined channels of Bikaner Canal and Main Branch Eastern Canal	Ferozepur	8	—	—	—	—	4	4	—	—	
(vii) Scheme for irrigating areas on right side of Sutlej river	Ropar	8	—	—	—	—	4	4	—	—	
(viii) Providing irrigation facilities to areas on leftside of Nawana Branch	Patiala	12	—	—	—	—	5	5	—	—	
(ix) Providing irrigation facilities to erstwhile Malerkotla State	Sangrur	17	—	—	—	—	5	5	—	—	
Total			405	401	414	412	619	619	453	451	

Note : The totals under various Cols. do not include Irrigation potential to be created under the scheme 'Lining of Channels' as it is felt that the saving of water effected under this scheme would be utilised mainly for increasing the water intensity of areas already being irrigated under the command of canal systems.

ANNEXURE III (i)

Details of works to be executed during the year 1981-82 under the scheme 'Diversion Weir of Shahnehar Canal;

Distribution of proposed outlay

Sr. No.	Name of work	Proposed expenditure for 1981-82
I—Works		
1	Acquiring land for Shahnehar Feeder Channel	2·00
2	Constructing Common Bundh	40·00
3	Constructing left guide bundh	20·00
4	Constructing right bundh	80·00
5	Excavation of S/N Feeder Channel	25·00
6	Lining of Feeder Channel	
7	Diversion arrangement of river beds	30·00
8	Constructing aqueduct on Sohan Khud	100·00
9	Removal of right bundh and grading of river Beas D/S tail race of barrage	5·00
10	Replanishment/protection of X-Diversion bundh	2·00
11	Concreting parapets along service deck of S/N Barrage	7·00
12	Providing railing along stop-long operation deck and around pressure observation pipes of S/N Barrage	4·00
13	Constructing walk way and cable gallery cross S/N Barrage	2·00
14	Constructing service deck/approach slabs/control structure for gauge observations of river and canal	4·00
15	Concreting right abutment/Upstream flared wall/D/S Flared wall and L/S D/s Flared wall	2·00
16	Excavation of S/N Barrage	4·00
17	Concreting impiers and floor of S/N Barrage	3·00
18	Concreting side wall of D/S Head Regulator /Protection work of D/S Head Regulator/Toe Wall/ Up stream/ flared of Head Regulator	15·00
19	Providing and Maintenance of H.T./L.T. Line and area lighting	10·00
20	Running of inspection vehicles	3·00
21	Dewatering of sub-soil water for right bundh	10·00
22	Dewatering of and water supply arrangement for concreting feeder channel	3·00
23	Painting of 3rd coat of Barrage gates and columns and superstructure/installation of control penals and construction of control room	5·00
24	Dewatering of sub-soil water for construction of guide bundh	2·00
C—Misc.		
25	Making watch and ward and security arrangement, running of First Aid Post, Operation of Telephones	5·00
26	Retrenchment compensation and medical reimbursement to the labour during the year 1981-82	10·00
P—Maintenance		
27	AM&R of residential and non-residential buildings at S/N Colony and Barrage side during 1981-82	4·00
K—Buildings		
28	Constructing Divisional Officer Building at Shahnehar Colony (Permanent)	3·00
Total for I—Works		400·00

ANNEXURE III (ii)

Details of works to be completed during the year 1981-82 under the scheme 'Extension of Non-perennial Irrigation to areas in UBDC tract'.

Sr. No.	Name of work	Amount for 1981-82
		Rs.
1	Remodelling V.R. Bridge at R.D. 20540-KBU	3,00,000
2	Constructing V.R. Bridge at RD 27500-KBU	3,00,000
3	Tightening of MBU t-75000	3,00,000
4	Constructing Faridpur Minor	1,50,000
5	Constructing V.R. Bridge RD 70000 of Renia Distributary	40,000
6	Remodelling V.R. Bridge RD 3890 Minor No. 4 of Renia Disty.	40,000
7	Remodelling V.R. Bridge RD 3000 and 7000 of Minor No. 3	20,000
8	Remodelling Sarna Disty.	1,00,000
9	Remodelling HS Regulator Ditch No. 3	30,000
10	Constructing V.R. Bridge KBL RD 65436	2,50,000
11	Constructing Link channel to join new head regulator	20,000
12	Providing gates at Regulator Batala Disty RD 45788-RKBL	20,000
13	Remodelling Head Regulate including provision of gates of Babawal disty. head RD 75323K RRBL	40,000
14	Constructing V.R. Bridge at RD 6600 Sathali Disty. to join village road from Kahnuwan to Nainakot	50,000
15	Constructing V.R. Bridge at RD 10100 Dyalgarh Disty to join village road from village Chgina to Kalhushal	50,000
16	Remodelling V.R. Bridge RD 72587 by Dyalgarh Disty.	70,000
17	Constructing silt venee to avoid silt entry upto head KBL	15,000
18	Constructing VR Bridge at RD 26760 Dyalgarh Disty. to join village road to Dhariwal Bhoje	50,000
19	Remodelling Head Regulator and providing gates of Harpur Disty. 30500-R Nabroon Branch	40,000
20	Remodelling Head Regulator and providing gates of Khojala Disty. RD 47-R.S. Branch	40,000
21	Remodelling H/Regulator 6 Nos. Riarki Disty. system, according to revised lined sections of Riarki Disty.	10,00,000

ANNEXURE III(iii)

Details of Research Schemes

1. Hydrological studies of Flashy rivers.
2. Prevention of Siltation in reservoirs and ponds.
3. Standardising design criteria to minimise seers at spurs of piers due to Karman vortex vortices.
4. Eradication of aquatic weed in clear water, tilting and embankments in irrigation and drainage channels of Punjab.
5. Use of marginally safe water for irrigation.
6. Effect of electro-type concentration on the permeability of soils.
7. Effect of fertilisers and soils or amendment on the quality of ground water.
8. Development of Chemical technique for embankment maintenance.
9. Reclamation of sandy soils for rice cultivation.
10. Influence on soils of seasonal changes in the quantity of well water in Amritsar District.
11. Anti-salt treatment already salt affected tile and concrete lined channels.
12. Reclamation of saline-cum-Alkali soils.
13. Deterioration of cement concrete structures and technique to repair the same.
14. Equipment for use in various laboratories of the institute.
15. Recharge studies of ground water with radio tracers.
16. Designing re-inforced earth slabs over inferior foundation soils.
17. Comparative study of engineering properties of Punjab soils by different techniques.
18. Surface geological classification of saturated soils and sand in Punjab their significance utility in irrigation engineering projects.
19. Effect of soils textures on moisture equivalent and soils utilisation in irrigation engineering.
20. Capacity survey of including comparison of design assumption and proto-type canal behaviour.
21. Hydrology and ground water studies in Punjab during the Fifth Five-Year Plan.
22. Assessment of seepage losses from canal system in Punjab.
23. Comparison and co-relation of model proto-type, behaviour and results including comparison of design assumptions and proto-type.
24. Three dimensional photo elastic stress analysis studies of structure.
25. Study of un-saturated flow behind canal lining.
26. Investigation on the use of weak and weathered coarse aggregate in the comparison with hard aggregate in cement concrete mixers.
27. Economical utilisation of different varieties of sand available at different places in Punjab for manufacture of quality concrete.
28. Establishment of mini computer centre at the Irrigation and Power Research Institute for evaluation of data of Irrigation channels water table rain fall evaporation etc.
29. To study the tolerable concentration of the impurities in water use for mixing and curing concrete.
30. Research for alternative sources of energy from different biological sources.
31. Proto-type studies of energy dissipation devices below falls to reduce erosion in the down stream reach.
32. Proto-type study for runoff of small catchments to predict floods.
33. Remote sensing survey of Punjab for studying behaviour and soils characteristics.
34. Utilisation of Power potential available at low head falls in the Irrigation Canal System.
35. Proto-type studies to determine extent of water lost in the Irrigation water conveyance system (lined and unlined channels).

Minor Irrigation

7.46. 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 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 assisted by institutional finance have gone all out to exploit the ground water resources. The number of tube wells increased from 25,361 in 1965-66 to 257,732 in 1978-79 more than ten times in 13 years. Wells have been mostly fitted with pumping-sets. The consumption of electricity in agriculture is now close to 45 per cent of the total State consumption. The main users are the large number of tubewells and pumping-sets. The supply of electricity for tubewell irrigation at a subsidised rate has given further impetus to exploitation of ground water resources. The main strategy under Minor Irrigation, therefore, would be (i) acceleration in flow of institutional investment ; (ii) stepping up rural electrification by energisation of 15,000 additional tubewells/pumping-sets during 1981-82 and 85,000 during Sixth Plan period; (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. 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.

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

Agriculture Department

7.48. The only Minor Irrigation scheme of the Department of Agriculture relates to Ground Water Cell (Strengthening of Ground

Water and Surface water Organisation). It is a Centrally-sponsored scheme on 50 per cent sharing basis. The investigation and development of Ground Water resources is the main objective of the scheme. The ground water cell would evolve strategy to minimise the adverse effects of exploitation of ground water in the underground reservoir and disseminate vital information to the farmers for their benefit.

7.49. An allocation of Rs. 50.00 lakhs for the Sixth Plan and Rs. 10.00 lakhs for the Annual Plan, 1981-82 is proposed under this scheme.

Irrigation Department

Integrated utilisation of water resources.

7.50. This scheme 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 installation of tubewells.

7.51. A sum of Rs. 100.00 lakhs for the Sixth Five-Year Plan and Rs. 20.00 lakhs for the Annual Plan 1981-82 is proposed for this scheme.

Sinking of tubewells in different blocks

This scheme consists of the following three parts :—

- (i) Sinking of tubewells in Mahilpur Block of Hoshiarpur District.
- (ii) Sinking of 150 tubewells in U.B.D.C. tract.
- (iii) Drilling 4 tubewells in Sangrur and Bhawanigarh blocks in Sangrur District.

Under the scheme (i) above out of 108 tubewells planned to be installed, 105 have already been drilled and the drilling of 2 tubewells is in progress. Under (ii) above all the tubewells have been drilled and only residual works remain to be completed. Under scheme (iii) above all the 4 tubewells have been drilled for the reclamation of large kallar land. Some funds are required to make left over payments.

7.52. An amount of Rs. 20.00 lakhs for the Sixth Plan and Rs. 15.00 lakhs for Annual Plan, 1981-82, is proposed for this scheme so as to complete all the works during 1981-82. On completion the scheme is expected to add an irrigation potential of 4,000 hectares.

Sprinkler Irrigation Scheme

7.53. With a limited quantity of water substantially larger area can be irrigated by sprinkler irrigation method as compared to flow irrigation. Sprinkler irrigation is particularly suited to coarse, sandy, undulating and gravelly soils where percolation losses from surface irrigation are high and also where frequent higher irrigation is required because of the poor waterholding capacity of the soil.

7.54. Mahilpur block in Hoshiarpur has got such type of soil. The terrain is undulated with coarse texture of soil. The underground aquifer is poor. The tubewells installed in this block could not meet the requirements of the cultivators as heavy percolation losses occur. It is proposed that sprinkler irrigation units may be installed on the tubewells which have been installed in sandy and undulating terrain in order to provide irrigation with limited quantity of water.

7.55. A provision of Rs 89.00 lakhs for the Sixth Five-Year Plan and Rs. 25.00 lakhs for the Annual Plan 1981-82 is proposed. An irrigation potential of 5,000 hectares is expected

to be created on the completion of this scheme. This programme, however, would be tried on an experimental basis to begin with and further sprinkler units would be installed only after the successful operation of the scheme.

PUNJAB STATE TUBEWELL CORPORATION (Rs. in crores)

	Sixth Five-Year Plan (1980—85)	Annual Plan, 1981-82
	Rs.	Rs.
1. Total investment ..	185.68	31.94
2. State/PSTC share ..	46.19	7.41

7.56. 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 Watercourses. These are discussed below :—

Tubewells :

7.57. 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 the table :—

TABLE

Stage	Number at the end of the year			
	1979-80 (Actuals)	1980-81 (Anticipated)	Proposed Target	
			Sixth Plan, 1980—85	1981-82
1	2	3	4	5
1. Drilled ..	710	760	840	780
2. Developed ..	683	733	813	753
3. Completed ..	566	616	696	636
4. Energised ..	530	580	660	600

7.58. The Irrigation potential created through the installation of tubewells upto the end of 1979-80, anticipated during 1980-81 and target for 1981-82 and 1980—85 is indicated in the table below :—

Year	Cummulative Irrigation potential
1979-80	52.0
1980-81 (anticipated)	56.0
1981-82 (Target)	57.5
1984-85 (Terminal year of Sixth Plan)	62.0

7.59. The deep tube-wells are mainly installed in backward and submontane area of the State where at present there is no assured means of Irrigation. Besides 50 tubewells targetted to be installed during 1980-81, it is proposed to sink 20 such tube-wells each in the remaining four years of the Sixth Plan. The PST/State Government is to provide 25% of the total cost and the remaining 75% would be raised from other financial institutions under the ARC refinance programme.

7.60. The total expenditure incurred on the installation of tubewells upto the end of 1979-80, anticipated expenditure during 1980-81 and proposed outlay for Sixth Plan and Annual Plan 1981-82 is given in the table below :—

Item	expenditure incurred		Proposed Outlay	
	Upto 1979-80	1980-81 (Anticipated)	Sixth Plan 1980—85	Annual Plan 1981-82
1	2	3	4	5
1. Installation of tubewells (State share)	299.37	25.00	75.00	11.00
2. Equity	280.00	..	..	..
3. Repayment of principal	316.37	39.00	249.00	47.00
4. Subsidy for running & maintenance of tubewells	42.75	69.00	399.00	75.00
5. Strengthening of Ground Water/Surface Water (Minor Irrigation) Organisation	—	3.00	15.00	3.00
Total	938.49	136.00	738.00	136.00

Command Area Development

7.61. Under this programme PSTC has undertaken the work of lining of water courses. The total length of water courses in the State is estimated as 60,000 Kms. This work was taken up by the Corporation during the year 1975-76. Targets and achievements in respect of lining of water courses for the years 1975-76 to 1979-80, 1980-81 (Anticipated) and proposed targets for Sixth Plan (1980—85) and Annual Plan 1981-82 are given below :—

Year	Target	Achievement
	Rs.	Rs.
1975-76	600	159
1976-77	600	506
1977-78	2000	1184
1978-79	2500	1421
1979-80	2710	1763
1980—85	17525	..
1980-81	3525	3525
		(Anticipated)
1981-82	3500	..

7.62. The Project of Lining of Water Courses is being executed with financial assistance from the World Bank as it was felt that the total programme involved a huge investment which could not be financed from the limited resources of the State. The component of Lining of Water Courses of the 'Irrigation Project of Punjab, 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 is to be completed in five years beginning from the year 1979-80. The yearwise break up of the physical targets and financial outlay involved is as under :—

Particulars	1979-80	1980-81	1981-82	1982-83	1983-84	Total
1	2	3	4	5	6	7
1. No. of outlets (W/CS of which are to be lined)	460	590	590	590	590	2,820
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

7.63. Besides 3,525 Kms. of water courses to be lined during the year 1980-81, it is programmed to line 3500 Kms. of water courses each year from 1981-82 to 1984-85. The total length expected to be lined during the Sixth Plan would therefore work out to 17,525 Kms.

7.64. The total expenditure incurred on Lining of water courses upto the end of 1979-80, anticipated expenditure during 1980-81 and proposed outlay for the Sixth Plan 1980—85 and Annual Plan 1981-82 is given below in the table :—

TABLE

(Rs. in lakhs)

Item	Expenditure incurred		Proposed Outlay	
	Upto 1979-80	1980-81 (Anticipated)	1980-85 (Sixth Plan)	Annual Plan 1981-82
1	2	3	4	5
1. Lining of water courses (State share)	889.26	482.00	3431.00	605.00
2. Equity	399.50	100.00	450.00	..
3. Repayment of principal & interest	311.00	..	..	..
Total	1599.76	582.00	3881.00	605.00

Anti-Waterlogging, Drainage and Flood Control

7.65. Floods have been a recurring menace. As such, main emphasis so far had been on the construction of embankments and drainage improvement. By the end of 1979-80 besides widening and deepening of drains, reconditioning of existing drains and raising and strengthening of flood protection embankments, 946 Kms. of flood protection embankments and 6,177 Kms. of surface drains had been completed. These provided relief/protection to about 25.20 lakh hectares of area as against the estimated total flood-prone area of 37.00 lakh hectares. An expenditure of Rs. 85.81 crores had been incurred upto the end of 1979-80. During the year 1980-81, 8 Kms. of new embankments and 50 Kms. of drainage channels are likely to be completed at an estimated cost of Rs. 5.00 crores. This would provide benefit to an additional area of 35,000 hectares.

7.66. Taking into account the recurring flood damages, inspite of flood protection works having been carried out in the affected areas, it is considered necessary to adopt a multipurpose approach to these problems envisaging construction of embankments down stream of storage reservoirs which will be constructed in head reaches of choes and river system and other non-engineering works of afforestation, soil conservation and watershed management along with flood protection and drainage works in the affected reaches. Some of these works would be carried out under World Bank assisted Programme.

7.67. The strategy during the Sixth Plan period would be to complete, as far as possible, the schemes which are continuing from the Fifth Plan and even earlier period and undertake some new schemes of vital importance.

A table showing physical targets/achievements up to 1979-80 anticipated achievement during 1980-81 and proposed targets 1980-85 and Annual Plan 1981-82 is given below.

Item	Unit	Constructed upto 1979-80	1980-81 (anticipated)	Target	
				1981-82	1980-85
1. Length of new Embankments	.. Kms.	946	8	6	3:
2. Length of drainage channels	.. Kms.	6,177	50	40	210
3. Area to be benefited	.. Lakh (Hect.)	25.20	0.35	0.25	1.20

7.68. Though the demand of the Flood Control Department is of a much higher magnitude (Rs. 134.00 crores for Sixth Plan and Rs. 32.00 crores for the Annual Plan 1981-82) and the Working Group on Flood Control set up by Govt. of India in its meeting held on 10th July, 1980, had recommended Rs. 60.00 crores for the Sixth Plan but due to constraint of resources it has not been possible to provide this amount. Presently, it is proposed to provide Rs. 21.00 crores for the Sixth Plan and Rs. 4.00 crores for the Annual Plan 1981-82 for undertaking anti-waterlogging, drainage and flood control works.

7.69. The outlay envisaged for 1981-82 is proposed to be utilised for the following works :

	(Rs. in lakhs)
1. Anti-waterlogging schemes ..	65.00
2. Reconditioning of existing drains	10.00
3. Bridges on existing drains ..	50.00
4. Advance bunds along rivers for reclamation of area from river beds	75.00
5. Raising and strengthening of bunds along river Sutlej ..	75.00
6. Anti-erosion and river training works ..	75.00
7. World Bank Project—Kandi Watershed—Dholbaha Drainage component	50.00
Total ..	400.00

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 all along been accorded top

priority in the matter of Plan allocation. The outlays for the power sector as percentage of the total plan outlay since the Fourth Five Year Plan are given in the following table :—

TABLE 8.1

(Rs in crores)

Serial No.	Period / Year	Total State's Plan outlay	Power portion	Percentage of Col. 4 to 3
1	2	3	4	5
1	Fourth Plan (1969—74)	293.56	119.08	40.56
2	Fifth Plan (1974—78)	767.00	311.77	40.63
3	1978-79	260.00	91.30	35.12
4	1979-80	260.00	94.71	36.42
5	Sixth Plan 1980—85 (Proposed Outlay)	2000.00	736.03	36.80
6	1980-81	300.00	104.31	34.77
7	1981-82 (Proposed Outlay)	357.40	136.35	38.15

8.2 It may be pointed out that the allocation for the Sixth Plan is provisional and is expected to be higher as more funds will be diverted or mobilized for this critical area of vital infrastructural system of the State economy during the remaining years of the Plan.

8.3. That the Punjab State suffers from a severe power shortage hardly needs emphasis. The forecast of energy demand as worked out by Punjab State Electricity Board for the Sixth Plan period is given as under :—

TABLE 8.2

	Energy requirement in MKwh	Peak demand in MW
	2	3
1980-81	7613	1485
1981-82	8455	1636
1982-83	9455	1814
1983-84	10561	2021
1984-85	11775	2259

8.4. The demand for energy upto 1980-85 has been projected a little on the high side for the purposes of planning energy generation programmes as decided in the recent meeting of the State Ministers of Power, presided over by the Prime Minister.

8.5. The position with regard to increase in the installed capacity in Punjab on the basis of the latest revised commissioning schedule of various projects from 1980-81 to 1984-85 is given in the following table :—

TABLE 8.3

(In MW)

Serial No.	Name of Power House/Project	Installed Capacity during				
		1980-81	1981-82	1982-83	1983-84	1984-85
1	2	3	4	5	6	7
1	Shanan Renovation	48	60	60	60	60
2	Shanan Extension	..	50	50	50	50
3	U.B.D.C.	45	45	45	45	45
4	Share in Bhakra Complex	613	613	613	613	613
5	Beas Unit-I	317	317	317	317	317
6	Beas Unit-I (Exten.)	..	..	79	158	158
7	Beas Unit-II	60	60	60	60	60
8	Beas Unit II (Exten)	..	..	30	30	30
9	Anandpur Sahib	..	..	67	134	134
10	Mukerian Hydel	..	..	15	75	109.50
11	G.N.D.T.P. Units I & II	220	220	220	220	220
12	G.N.D.T.P. Extension Units III & IV	220	220	220	220	220
13	Diesel	14	14	14	14	14
14	Ropar Thermal Project	..	..	..	..	420.00
	Total	1537	1599	1790	1996	2450.50

8.6. It would be seen from the above table that the installed capacity is likely to increase from 1537 MW in 1979-80 to 2450.5 MW in 1984-85.

8.7. However, the Generation capacity and energy availability from the various projects for the Sixth Plan period would as under :—

TABLE 8.4

Year	Energy availability in MKwh	Generation capacity available in MW
1	2	3
1980-81	5809	986
1981-82	6304	1036
1982-83	7016	1111
1983-84	7714	1284
1984-85	8923	1535

8.8. The projections of gap between the requirements and availability of Power during the Sixth Plan period is given in the following table:—

TABLE 8.5

Serial No.	Item	Years				
		1980-81	1981-82	1982-83	1983-84	1984-85
1	2	3	4	5	6	7
1	Installed Capacity—MW	1537	1599	1790	1996	2450.5
2	Generation capacity available—MW	986	1036	1111	1284	1535
3	Anticipated Peak Demand—MW	1485	1636	1814	2021	2259
4	Deficit (Col. 3—2) —MW	499	600	703	737	724
5	Additional installed capacity required to off set the generation capacity deficit—MW	832	1000	1172	1228	1207
6	Energy availability —MKwh	5809	6304	7016	7714	8923
7	Energy requirements—MKwh	7613	8455	9455	10561	11775
8	Deficit (Col. 7—6)—MKwh	1804	2151	2439	2847	2852

8.9. From the above it is evident that the state would continue to be in the grip of Power famine through out the Sixth Plan period.

8.10. 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 within the Sixth Plan Period.

8.11 Sizeable allocation have been proposed for Ropar Thermal Plant Stage-I to Commission the Project by the end of the Sixth Plan. As new starts, Shah Pur Kandi Project, Ropar Thermal Plant Stage-II and Anandpur Sahib Hydel

Project Stage-III would be taken up during the Sixth Plan. Allocation for Shah Pur Kandi Project has been made on the Irrigation side as all the Civil Works have to be undertaken by the Irrigation Department. An attempt has also been made to rectify the imbalance between generation and transmission and distribution by laying more emphasis on the latter. The following table indicates, programme-wise details regarding actual expenditure for 1979-80, outlay and anticipated expenditure for 1980-81, proposed outlay for Sixth Plan 1980-85 and proposed outlay for 1981-82.

TABLE 8.6

(Rs in lakhs)

Programme	1979-80 Actual Expendi- ture	1980-81		1980-85	1981-82
		Approved outlay	Anticipated expenditure	proposed outlay for Sixth Plan	proposed outlay
1	2	3	4	5	6
1. Generation	3817.46	5488.00	5894.00	46720.00	8660.00
2. Transmission and Distribution—					
(a) Transmission	2086.87	2428.00	2534.00	13683.00	2500.00
(b) Distribution including normal development	854.55	750.00	600.00	4350.00	650.00
(c) Reduction of Transmission losses/Improvement of Transmission system	347.79	300.00	370.00	2370.00	500.00
Total	3289.21	3478.00	3504.00	20403.00	3650.00
3. Rural Electrification—					
(a) R.E.C.	1138.88	517.00	517.00	1917.00	400.00
(b) Plan	689.31	790.00	428.00	3960.00	600.00
Total	1828.19	1307.00	945.00	5877.00	1000.00
4. Survey and Investigation	13.39	8.00	8.00	68.00	13.00
5. Research Station and load Despatch Centre	12.68	150.00	80.00	535.00	312.00
Total	8960.93	10431.00	10431.00	73603.00	13635.00

8.12 The Sixth Plan 1980—85 and Annual Plan 1981-82 in respect of the Sub-head 'Power' is proposed to be financed as given in the following table:

Table 8.7 (Rs. in crores)

Source	Sixth Plan 1980—85	Annual Plan 1981-82
1	2	3
1. Borrowing from market	73.80	13.30
2. Borrowing from L.I.C. ..	46.11	8.45
3. Borrowing from R.E.C.†	31.74	5.72
4. Borrowing from others ..	2.70	0.50
5. Consumers contribution..	13.69	2.47
6. Drawing down of inventory	10.01	1.50
7. Drawing down of cash balance ..	3.04	—
8. Debts, Deposits & Remittances (net) ..	(—)3.60	—
Total (1 to 8) ..	177.49	31.94
9. Government loan ..	558.54	104.41
10. Total ..	736.03	136.35

†As worked out during discussion with Planning Commission on 6th & 7th October, 1980.

8.13 The various projects/programmes to be executed during the Sixth Plan and 1981-82 are discussed below :—

MULTIPURPOSE PROJECTS

Beas Project :

8.14 This is an inter-State project with Punjab, Haryana and Rajasthan as partners. The project is being executed by the Beas Construction Board. The project comprises Beas Unit-I (Dehar Power Plant) and its extension and Beas Unit-II (Pong Power Plant) and its extension.

Beas Unit-I :

8.15 The project envisaged the installation of four units of 165 MW capacity each in Dehar Plant. Punjab's share in this Power Plant is 317 MW. The

1st and 2nd units of the plant were commissioned in November, 1977 and March, 1978 respectively while the 3rd and 4th Units were commissioned in June, 1979.

8.16 In the total estimated cost of Rs 37399.00 lakhs, the share of Punjab is Rs. 16874.00 lakhs. An expenditure of Rs. 16588.00 lakhs has already been incurred upto March, 1980.

8.17 An outlay of Rs. 287.00 lakhs has been provided in the Sixth Five Year Plan for completion of residual works which includes Rs. 187.00 lakhs for 1980-81 and Rs. 68.00 lakhs for 1981-82.

Beas Unit-I (Extension) :

8.18 The Dehar Pong Power Plant envisages the installation of two additional units of 165 MW capacity each in Dehar Power Plant. The State Share in this plant is 158 MW. These units are scheduled to be commissioned in February, 1983 and July, 1983 respectively. Since the project is to be commissioned during the Sixth Plan period, full provision has been proposed to complete the project.

8.19 The latest estimated cost of the project, Punjab's share of the total cost, expenditure incurred upto 1979-80, spill-over requirement after 1979-80, proposed outlay for Sixth Plan, anticipated expenditure for 1980-81 and proposed outlay for 1981-82 are given as under :—

	(Rs. in lakhs)
1. Latest Estimated cost ..	4178.00
2. Punjab's share in total cost (Power Portion) ..	1885.00
3. Expenditure upto 1979-80 ..	448.11
4. Spill-over requirement after 1979-80	1436.89
5. Proposed outlay for Sixth Plan ..	1437.00
6. Anticipated expenditure for 1980-81	508.00
7. Proposed outlay for 1981-82 ..	499.00

Beas Unit-II :

8.20 The Beas Project Unit-II (Pong Power Plant) envisaged the installation of 4 units of 60 MW capacity each. The States share of this Power

Plant is 60 MW. All the 4 units of this project have already been commissioned, as under :—

Unit—I	1/78
Unit—II	3/78
Unit—III	10/78
Unit—IV	3/79

8.21 In the total estimated cost of Rs. 25980.00 lakhs, the State share is Rs. 1520.00 lakhs. An expenditure of Rs. 1495.21 lakhs has been incurred upto 3/80. An outlay of Rs. 25.00 lakhs has been proposed in the Sixth Five Year Plan for the completion of remaining works. This includes an outlay of Rs. 12.00 lakhs for 1981-82.

Beas Unit-II (Extension)

8.22. The Pong Power Plant Extension envisages the installation of two additional units of 60 MW capacity each. The State Share in this Power Plant is 30 MW. The units are scheduled to be commissioned in 9/82 and 1/83 respectively. The spill-over requirement have been fully provided in the Sixth Plan. The details of proposed outlay and expenditure upto date are given as under :—

	(Rs. in lakhs)
1. Total cost of the Project	3403.00
2. Punjab's share in the total cost of the Project (Power Component)	199.00
3. Expenditure incurred up to 1979-80	59.33
4. Spill-over requirement after 1979-80	139.67
5. Proposed outlay for Sixth Plan	140.00
6. Anticipated Expenditure for 1980-81	53.00
7. Proposed outlay for 1981-82	50.00

Thein Dam Project

8.23. The project envisages the construction of 147 Meter high Dam on River Ravi, 24 Km. upstream of Madhopur Head Works. The Project is now estimated to cost Rs. 380.00 crores and envisaged installation of 4 units of 120 MW

capacity each in the Power house at the dam site. The project has already been cleared by the Central Electricity Authority. However, its formal sanction is still awaited from Government of India. In case the construction of Projects commences immediately, the first unit of the project is likely to be commissioned in 1/87. The UBDC stage-II also forms part of Thein Dam Project, which envisages installation of one unit of 15 MW each in the existing 3 Power Houses of UBDC stage-I. All the 3 units are scheduled to be commissioned in 1986-87. Since initially it is to be implemented by the Irrigation Department, an outlay of Rs. 5.00 lakh per annum is proposed during the Sixth Plan period for design organisation on the Power side.

POWERS PROJECTS

Shanan Renovation Project

8.24 Shanan Renovation Project is a two stage project i.e.—

1. Restoring the derated capacity of 9 MW each of 4 Units to their original capacity of 12 MW each by replacing the Generator winding.
2. Uprating of 4 units from 12MW to 15 MW each by replacing Turbine, Governing System, Excitors, allied equipment in the control room, Indoor Switch gear and Transformers and augmentation of water conductor system.

The 1st stage of the project as cited above on machine Nos. I, II, III & IV has already been completed in 3/73, 3/74, 3/75 & 3/76, respectively.

8.25. The work on replacement of Turbine, Governing and Excitation system of all the four machines had already been commissioned and synchronised with the system. These machines had been commissioned on 12/13 MW each instead of at 15 MW due to delay in the supply of 11KV Switch gear. The 11KV Switch gear was scheduled to be supplied by M/s Southern Switch-gear Ltd. Madras by June-July, 1978 but the firm has failed to supply the Switch-gear as the Switch gear could not withstand the specified Impulse test. Fresh tenders for the supply of 11KV switch-gear has been invited and are being processed. Keeping in view the normal delivery period of such equipment, it is expected that all the 4 machines will be

updated from 12 MW to 15MW by replacing 11KV switch-gear, cabling etc. by Feb., 1983. An outlay of Rs. 58.00 lakhs is proposed for 1981-82 to provide for Gates and Gears, 11 KV Switch gear, turbine and governing system, erection of equipment and for establishment charges, etc. The details of outlay and expenditure up-to-date are given as under : —

	(Rs. in lakhs)
1. Estimated cost of the project	753.00
2. Expenditure incurred up to 1979-80 ..	567.59
3. Spillover requirement after 1979-80 ..	185.41
4. Proposed outlay for Sixth Plan 1980—85 ..	163.00
5. Anticipated expenditure for 1980-81 ..	71.00
6. Proposed outlay for 1981-82	58.00

Shanan Extension Project

8.26. This project envisages the installation of one unit of 50 MW capacity adjacent to existing four units of 12MW each at Shahan Power House, Joginder Nagar. This is an important project which can give immediate benefit to the state by increasing its generation by 176 MU (gross) per year. The cost of the project, as per latest assessment, has been revised from Rs. 1814.00 lakhs to Rs. 1906.00 lakhs. It includes the cost of replacement of equipment damaged in the fire. Although there has been a set back in the progress of the scheme due to fire in the Electrical stores of the project yet the works relating both to Electrical and Civil jobs are at an advanced stage of construction. The project is expected to be commissioned by 11/81. An outlay of Rs. 349.00 lakhs is proposed for the Sixth Plan period which includes anticipated expenditure of Rs. 109.00 lakhs during 1980-81 and the proposed outlay of Rs. 210.00 lakhs for 19781-82. The details of outlay and expenditure up-to-date are given as under :—

	(Rs. in lakhs)
1. Latest Estimated cost of the project ..	1906.00

(Rs in lakhs)

2. Expenditure incurred up to 1979-80 ..	1412.66
3. Spill-over requirement after 1979-80 ..	493.34
4. Proposed outlay for Sixth Plan	349.00
5. Anticipated expenditure for 1980-81 ..	109.00
6. Proposed outlay for 1981-82 ..	210.00

8.27. The proposed outlay would be utilised on the works such as purchase of T.G. sets including burnt equipments, gates and gears, 11 KV Switch Gear, Erection of Hydro generating units and connected Civil Works and establishment charges.

GNDTP Extension Units-III & IV.

8.28. Both the units of 110 MW capacity each of this project have already been commissioned. However, some left-over civil, electrical and mechanical works are to be completed. In addition some suppliers dues are also to be paid. An outlay of Rs. 872.00 lakhs for the Sixth Plan and Rs. 247.00 lakhs for 1981-82 is envisaged to complete the residual works. The details of outlay and expenditure upto date are given as under :—

	(Rs. in lakhs)
1. Latest estimated cost of the project	7115.00
2. Expenditure upto 1979-80 ..	6415.18
3. Spill-over requirement after 1979-80	699.82
4. Proposed outlay for Sixth Plan ..	872.00
5. Anticipated Expenditure for 1980-81	280.00
6. Proposed outlay for 1981-82 ..	247.00

Anandpur Sahib Hydel Project :

8.29. The project envisages the installation of 4 Units of 33 MW capacity each in two Power Plants to be constructed on a Hydel Channel parallel to the existing Nangal Hydel Channel. On completion of the Beas-Sutlej Link, additional releases from Bhakra Dam are available which would be utilised for Power Generation. It is proposed to accelerate the pace of work of this project so as to

advance its commissioning by seven months. The original and revised commissioning schedules of various units are as under :—

	Commissioning Schedule	
	Original	Revised
PH-1 : Unit-I ..	1/83	6/82
Unit-II ..	4/83	9/82
PH-2 : Unit-I ..	1/84	6/83
Unit-II ..	4/84	9/83

8.30 The details of outlay and expenditure upto date are given below :—

	(Rs. in lakhs)
1. Latest Estimated cost of the Project	9612.00
2. Expenditure incurred upto 1979-80	5369.77
3. Spill-over requirement after 1979-80	4242.23
4. Proposed outlay for Sixth Plan ..	4242.00
5. Anticipated Expenditure 1980-81..	2037.00
6. Proposed outlay for 1981-82 ..	1694.00

The main items of expenditure during 1981-82 are as under :—

	(Rs. in lakhs)
(i) Civil Works ..	1271.00
(ii) Establishment ..	195.00
(iii) Electrical Works ..	228.00
	<hr/>
	1694.00
	<hr/>

8.31. Civil Works, *inter alia* include Excavation and concreting of Power House, Bye Pass channel, Head Regulator and Intake Works ; Excavation and Lining of Power channel and Tail Race, and Drainage works. Electrical works provide for T.G. sets, Power transformer, Bus duct and accessories and erection of T.G. units,

Mukerian Hydel Project :

8.32 The project envisages the construction of 4 Power Plant with an installed capacity of 207 MW on a Hydel Channel which will take off from the Left Bank of river Beas near Talwara Township utilising the total head of 265 ft. It is proposed to install 6 units of 15 MW capacity each in the first 2 Power Plants and another 6 units of 19.5 MW capacity each in the other 2 Power Plants. The scheme estimated to cost Rs. 11559.00 lakhs will generate 1177 MUs per year. The work on the project is being accelerated so that the first unit of PH-I is commissioned in January, 1983. The other units are slated for commissioning at 3 months interval. The envisaged additional installed capacity to be added by this project during Sixth Five-Year Plan would be 109.5 MW. In order to adhere to the envisaged commissioning schedule of the project, an outlay of Rs. 106.53 crores for Sixth Plan and Rs. 26.65 crores for 1981-82 is envisaged. The details of outlay and expenditure upto date are given below :—

	(Rs. in lakhs)
1. Latest Estimated cost of the project	11559.00
2. Expenditure upto 1979-80 ..	1033.77
3. Spill-over requirement after 1979-80	10525.23
4. Proposed outlay for Sixth Plan ..	10653.00
5. Anticipated expenditure for 1980-81	1275.00
6. Proposed outlay for 1981-82 ..	2665.00

The main items of expenditure during 1981-82 are given as under :—

	(Rs. in lakhs)
(i) Civil Works ..	1753.00
(ii) Electrical Works ..	793.00
(iii) Establishment ..	119.00
	<hr/>
Total ..	2665.00
	<hr/>

8.33. The proposed outlay for 1981-82 would be utilised for Excavating Hydel Channel, Intake works and Head Regulator; Concreting of Power

Houses and Bye-Pass Channel; Lining of Hydel Channel and Tail Race ; Purchase of T.G. sets and E.O.T. Cranes and Establishment charges.

U.B.D.C. Stage I

8.34. The three power houses of 15 MW each of U.B.D.C. Stage I Project commissioned during August, 1971, May, 1972 and April, 1973, respectively, and are in operation. However, some essential protection and cross drainage works which formed an integral part of the original project and which were otherwise essentially required to be executed for the protection of the Hydel Channel and the Power Plant had been left incomplete. Some of the important items of the works are detailed below—

- (i) removing deficiencies of civil works in respect of the Hydel Channel and Power Plant etc ,
- (ii) remodelling of surface drains,
- (iii) providing of pucca drains along with Hydel Channel and interlinking S/S Sarna,
- (iv) providing anti-flood measures in U.B.D.C. complex, and
- (v) providing measuring and testing instruments of U.B.D.C. Power House.

8.35. These works have since been taken up for completion. A sum of Rs. 73.00 lakhs have been proposed in the Sixth Plan 1980—85 including Rs. 3.00 lakhs during 1980-81 and Rs. 19.00 lakhs in the Annual Plan for 1981-82.

8.36 The projections of availability of Power, taking into account the Peak capacity of Punjab Power system from all sources and anticipated demand in future years reveal that Punjab will be facing power deficit, throughout the Sixth Plan period. To mitigate the Power shortage in future years, three new projects are proposed to be taken up in the Sixth Plan, namely, Ropar Thermal Plant, Stage-I, Ropar Thermal Plant Stage II and Anandpur Sahib Hydel Project Stage III. The possibility of adding another unit of GNDTP Baintinda would also be explored, funds for which would be provided in due course.

Ropar Thermal Project Stage I

8.37. The Ropar Thermal Plant envisages

the installation of 5 units of 210 MW each. The Planning Commission cleared the proposal in July, 1979, for installation of 2 units of 210 MW each in Stage I at an estimated cost of Rs. 168.00 crores. The land for the project has been acquired and construction of residential buildings is in progress. The first unit of this scheme is scheduled to be commissioned by April, 1984, while the 2nd unit by October, 1984.

8.38. As per latest assessment the scheme is likely to cost Rs. 207.00 crores. In order to complete the project as per schedule an outlay of Rs. 196.25 crores is proposed for the Sixth Plan. The provision for 1981-82 has been increased to Rs. 31.28 crores from the anticipated expenditure of Rs. 13.50 crores in 1980-81. The details of outlay and expenditure are given as under :—

	(Rs. in lakhs)
(1) Approved cost	.. 16800.00
(2) Latest estimated cost	.. 20700.00
(3) Expenditure incurred up to 1979-80	83.16
(4) Spill-over requirement after 1979-80	20616.84
(5) Proposed outlay for Sixth Plan	.. 19625.00
(6) Anticipated expenditure for 1980-81	1350.00
(7) Proposed outlay for 1981-82	.. 3128.00

The break-up of the proposed outlay for 1981-82 is as under :—

	(Rs. in lakhs)
(i) Civil Works	.. 1070.00
(ii) Electrical Works	.. 84.00
(iii) Mechanical Works	.. 1824.00
(iv) Establishment	.. 150.00
Total	.. 3128.00

8.39. The provision for 1981-82 would be utilised mainly for the purchase of land, construction of residential quarters, Railway siding and Marshalling yard, purchase of steel, and advance payments for the purchase of electrical equipments and on Mechanical equipments such as Boiler Auxiliaries and Turbo generator and Auxiliaries.

Ropar Thermal Project Stage II

840. The Ropar Thermal Extension Project Stage II envisages the installation of 3 × 210 MW units at Ropar Thermal Plant. The project report has already been prepared. The scheme is proposed to be taken up in 1984-85 and the units are scheduled to be commissioned between October, 1987 to October, 1988. An outlay of Rs. 7309.00 lakhs has been provided in the Sixth Plan for this project. However, no provision has been made for 1981-82.

Anandpur Sahib Hydel Project Stage III

8.41. The work on Anand Pur Sahib Hydel Project Stage I and II is already in the advanced stage and both the Power Houses are likely to be commissioned by September, 1983. It is proposed to utilise the tail race water of Anandpur Sahib Hydel Channel and the available head for generation purposes. The scheme has been fully investigated and a Power House with 2 units of 27.5 MW each near Ropar is proposed. The project report is under preparation. It is proposed to commence the execution of this scheme during 1983-84 but its benefit would be available only in the Seventh Plan. An allocation of Rs. 1500.00 lakhs is proposed for this project during Sixth Plan period. No provision has been proposed for 1981-82.

8.42. Details regarding cost estimates, date of commencement, expected date of completion, status of the project, expenditure incurred upto the end of 1979-80, spill-over requirement after

1979-80, proposed outlay for Sixth Plan, anticipated expenditure for 1980-81 and proposed outlay for 1981-82 in respect of Generation projects are given in annexure I to this Chapter.

Transmission and Distribution :

8.43. 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 helps 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 State Electricity Board suffers because of huge 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 is being avoided in the Sixth Plan and adequate provision has been proposed for this purpose both in the Sixth Plan and Annual Plan 1981-82. An outlay of Rs 136.83 crores for Sixth Plan and Rs 25.00 crores for the Annual Plan 1981-82 is proposed for the Transmission works. The cost estimates, expenditure incurred upto 1979-80, spill-over requirement after 1979-80, proposed outlay for Sixth Plan, anticipated expenditure for 1980-81 and the proposed outlay for 1981-82 in respect of the major transmission projects are given in the following table;

Table 8.8

(Rs. in lacs)

Transmission Project	Estimated cost	Expenditure up to 31-3-80	Spill-over after 1979-80	Anticipated expenditure 1980-81	Proposed outlay	
					1980-85	1981-82
1	2	3	4	5	6	7
1. Beas Transmission Project—						
(i) BCB	1787.00	1516.76	270.24	78.00	132.00	54.00
(ii) PSEB	5458.00	5134.89	323.11	257.00	1050.00	180.00
2. UBDC Transmission Project	752.50	823.34	..	51.00	331.00	38.00
3. Bhakra Right Bank Trans. Project	..	..	..	9.00	51.00	10.00
4. GNDTP Trans. Project	1512.00	1221.32	290.68	71.00	273.00	118.00
5. GNDTP Extn. Trans. Project	1137.00	310.48	826.52	131.00	449.00	140.00
6. Shanan Extn. Transmission Project	592.00	270.47	271.53	33.00	77.00	30.00
7. 220, 132 KV. and 66 KV. trans. works of 5th Plan	5860.00	1327.19	4532.81	698.00	2686.00	745.00
8. Sub-transmission works	1953.25	1246.88	706.37	600.00	3300.00	600.00
9. 220, 132 KV. and 66 KV. transmission works of 6th Plan	..	48.16	..	606.00	5334.00	585.00
Total	..	..	..	2534.00	13683.00	2500.00

(A) Continuing schemes —**Beas Transmission Project —**

8.44. The project (220 KV and above 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 P.S.E.B. works (exclusive works).

(i) BCB Common Works Transmission ;

8.45. These works consist of certain 220 KV and above lines which are common to 3 partner states namely Punjab, Haryana and Rajasthan. These works are being executed by the Beas Construction Board. As per decision of the standing Committee of the Beas Construction Authority, the cost of these works is being shared in the ratio of 24.5 % , 51.7 % and 23.8 % among Punjab, Haryana and Rajasthan respectively. As against the anticipated expenditure of Rs 78.00 lakhs during 1980-81 an outlay of Rs 54.00 lakhs has been proposed for 1981-82. These figures will however, be revised when the firm requirement is indicated by BCB.

(ii) PSEB Works

8.46. The works connected with the Beas Transmission project which are being executed by PSEB (exclusively) are of three types namely 220 KV works, 132 KV works and 66 KV works. Out of the total estimated cost of Rs 54.58 crores, a sum of Rs 51.34 crores has been spent upto 1979-80. An outlay of Rs 180.00 lakhs is proposed for 1981-82 against the anticipated expenditure of Rs 257.00 lakhs during 1980-81. Some of the important works proposed to be carried out during 1981-82 are as under :—

1. 220 KV Works**(a) 220 KV Sub-Stations**

- (i) Jullundur (New)
- (ii) Jullundur (BBMB)

2. 132 KV Works**132 KV Sub-stations**

- (i) Batala (New)
- (2) Patiala

- (3) Jagraon
- (4) Abohar
- (5) Ropar

3. 66 KV Works**(c) 66 KV Sub-Stations—**

- (1) Barnala
- (2) Dhuri
- (3) P/M S/S, Jullundur.

8.47. The details of works to be taken up during 1981-82 are given in Annexure-II(i).

8.48. The Transmission lines of 132 KV and 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, GNDTP Extension Transmission Project and Bhakra Right Bank Transmission Project are connected with the respective generating schemes. The work on all these projects has been continuing since the last few years. The transmission works are of an important nature since these are required to feed power to the Load Centre. 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 much earlier. It is, therefore, proposed to complete these pending works during the Sixth Plan and the allocation proposed for each of these projects in the Sixth Plan and Annual Plan 1981-82 are given as under :—

Table 8.9**(Rs. in lakhs)**

Name of the Transmission Project	Sixth Plan	Annual Plan
	(1980—85)	(1981-82)
1	2	3
(i) UBDC Transmission Project	331.00	38.00
(ii) GNDTP Transmission Project	273.00	118.00
(iii) Shanan Extension Transmission Project	77.00	30.00

(iv) GNDTP Extension

Transmission Project	449.00	140.00
(v) Bhakra Right Bank Project	51.00	10.00

8.49. The details of Transmission works on which the above proposed funds would be spent are given in Annexure-II (ii to vi).

B. New Schemes ;

220 KV, 132 KV and 66 KV Transmission works of Fifth Plan :

8.50. 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 and 66 KV works to be continued/undertaken during the Annual Plan 1981-82 are given as under :—

I. 220 KV :

(a) Sub-Stations—

- (1) Patiala
- (2) Malerkotla
- (3) Chandigarh
- (4) Batala

(b) Lines—

- (1) Sarna-Batala
- (2) Batala-Verpal

II. 132 KV

(a) Sub-stations—

- (1) Kartarpur
- (2) Sultanpur
- (3) Sri Hargobindpur
- (4) Bagha Purana

(5) Jallalabad

(b) Lines—

- (1) Link lines at Verpal, Batala and Sarna ends.
- (2) Kartarpur-Sultanpur
- (3) Batala-Kotli Surat Mali

III. 66 KV :

(a) Sub-stations—

- (1) Mohali Phase-VII
- (2) Rupana
- (3) Dhanaula
- (4) Chubal

(b) Lines—

- (1) 220 KV S/S Patiala-Bahadurgarh
- (b) Lines—
 - (1) 220 KV S/S Patiala-Bahadurgarh

8.51. The details of works to be undertaken during 1981-82 are given in Annexure-II (vii).

8.52. For undertaking the above-mentioned works, an outlay of Rs. 26.86 crores and Rs. 7.45 crores has been proposed for Sixth Plan 1980—85 and Annual Plan 1981-82 respectively.

220/132/66 KV Transmission Works of the 6th Plan connected with New Schemes :

8.53. The project estimates for the Transmission works relating to Generation Schemes such as Anandpur Sahib Hydel Project, Mukerian Hydel Project and Ropar Thermal Project are in the process of finalisation. Moreover, certain works which have not been identified and are required to be undertaken immediately on technical grounds have been proposed under this scheme. An outlay of Rs. 53.34 crores and Rs. 5.85 crores is proposed for Sixth Plan 1980—85 and Annual Plan 1981-82 respectively. The main works to be undertaken under this scheme are given as under :

A. 220 KV :

- (a) Sub-Stations—
 - (1) Bhatinda

(2) Dasuya

(3) Gobindgarh

(4) Barnala

(b) Lines—

(1) Pong-Jullundur

(2) Sarna-Batala

B. 132 KV :

(b) Sub-stations—

(1) Kotli-Suratmali

(2) Nurmahal

(3) Tarn Taran

(4) Bhogpur

(5) Goraya

(a) Lines :

(1) Nawanshahar-Goraya

(2) Goraya-Nurmahal

(3) D/C line from PH-I to PH-II at Anandpur Sahib

(4) S/C line from PH-II to Ropar

(5) Lines connected with Mukerian Power Houses.

C 66. K.V.

(a) Sub-stations

(1) Tibber

(2) Talwara

(3) Kala Afgana

(4) Begowal

(5) Udhonangal

8.54. The detailed works to be undertaken during 1981-82 is given in Annexure-II.

8.55. In addition to above works, an outlay of Rs. 44.00 lakhs is proposed for Transmission works for the evacuation of Power from Dehar Extension Unit. These works are to be carried out by Beas Construction Board.

(C) Sub-Transmission lines (33 KV) and Sub-Stations:

8.56. These works comprise 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 whereas some new sub-stations have to come up in the rural areas. Unless the 33 KV sub-stations 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 sub-stations would also help in reduction of distribution losses. A separate project report for 33 KV works has been prepared. An outlay of Rs. 33.00 crores and Rs. 6.00 crores is proposed for the Sixth Plan 1980-85 and Annual Plan, 1981-82 respectively for this programme.

(D) Normal Development Works :

8.57. The normal development works include giving of general (domestic and commercial) and industrial connections, erection of new L.T. and H.T. lines, distribution sub-stations and augmentation thereof. The information showing achievements under Normal Development Works (General and Industrial connections) upto 1979-80, targets for Sixth Plan 1980-85, anticipated achievement in 1980-81 and target for 1981-82 are given as under :—

TABLE 8.10

Serial No.	Particulars	Unit	Achievement upto 1979-80	Target for Sixth Plan 1980-85	Anticipated achievement 1980-81	Target 1981-82
1	2	3	4	5	6	7
1	General Connections	No.	16,11,807	6,00,000	1,00,000	1,00,000
2	Industrial Connections	No.	50,780	15,000	2,000	2,000

8.58. An outlay of Rs. 43.50 crores and Rs. 6.50 crores has been proposed for the Sixth Plan 1980—85 and for Annual Plan 1981-82 for this programme.

The break-up of the proposed outlay for 1981-82 is given in the following table:

TABLE—8.11

(Rs in lakhs)

Serial No.	Description		
1	2		3
1	Providing General Connections at the rate of Rs. 260 each for 100,000	..	260.00
2	Industrial Connection :	..	107.60
	(a) 40 Nos. Large Supply Connections at the rate of Rs. 40,000 each	..	16.00
	(b) 200 Nos. Medium Supply Connections at the rate of Rs. 15,000 each	..	30.00
	(c) 1,760 Nos. Small Connections at the rate of Rs. 3,500 each	..	61.60
3	Providing 11KV lines 500 Km. at the rate of Rs. 15,000 per Km.	..	75.00
4	Providing L.T. Lines 500 Km. at the rate of 15,000 per Km.	..	75.00
5	Providing 600 Nos. Distribution Sub-Stations at the rate of Rs. 13,000 each	..	78.00
6	Providing Street Lighting	..	12.00
7	Training of Personnel	..	5.00
8	General equipment, T&P and any other capital work	..	32.90
9	Electrification of Harijan Basties	..	4.50
	Total	..	650.00

(E) Improvement of Transmission and Distribution system and reduction of losses in Punjab :

8.59. Due to haphazard load growth, achievement of 100% rural electrification in the State, low load factor in the rural areas and the rural load being far flung, the Transmission and Distribution losses in the State have been quite high. While in a system where agriculture accounts for about 45% of the total consumption the transmission losses are likely to be high, there is, however, considerable scope for reduction in transmission and distribution losses through system improvement. As a result of various measures undertaken during the last few years it has been possible to reduce the transmission losses from 34.9% in the year, 1968-69 to 21.25% in the year, 1978-79. This improvement in energy losses has been achieved by adopting various remedial measures which are proposed to be continued to further reduce the losses to less than 20% by the end of the Sixth Plan. An outlay of Rs. 23.70 crores for Sixth Plan and Rs. 5.00 crores for the Annual Plan 1981-82 is proposed for this programme.

(F) Rural Electrification :

8.60. In the Sixth Plan Rural Electrification has been given due emphasis. 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 the rural areas. The most important directions are : (i) the energisation of tubewells/pumping-sets and replacement of diesel engines by electric motors (ii) Electrification of post harvest operations and cottage and small industries (iii) more intensive coverage of rural house-holds including Harijan Basties and (iv) improvement of supply conditions by augmentation and improvement works.

8.61. 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 Rural Electrification Corporation and are meant for giving connections both general and industrial and also for the energisation of tubewells in the scheme areas, whereas the Plan funds are spent for energisation of tubewells in the non-REC areas or the areas which are already electrified and are known as reticulated areas.

8.62. For giving additional tubewells 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 these areas were electrified before the formation of Rural Electrification Corporation and also from the funds allocated during the last few years from the State Plans. 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 :

8.63. The numbers of tubewells/Pump sets energised in the State upto the end of 1979-80 has been 262,267. It is proposed to go a little slow under this programme due to persistent shortfall in the availability of energy anticipated throughout the Sixth Plan period. It is envisaged to energise 85,000 tube wells during the Sixth Plan period. During 1980-81 and 1981-82 it is anticipated that 15,000 tubewells each would be energised. For the implementation of this programme an outlay of Rs. 58.77 crores (Rs. 19.17 crores from REC schemes and Rs. 39.60 crores from State Plan resources) has been proposed for Sixth Five Year Plan. The outlay envisaged for 1981-82 for this programme is Rs. 10.00 crores (Rs. 4.00 crores from REC schemes and Rs. 6.00 crores from State Plan resources).

G. Investigation

8.64. To meet with the ever growing power demand of Punjab all possible new schemes of power generation need be tapped in the shortest of 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 in near future, Punjab will continue to be deficit in Power.

8.65. The following schemes are proposed to be investigated during 1981-82 :—

- (1) Investigation of Goindwal Sahib Hydel Scheme.

- (2) Investigation of UBDC Hydel Scheme, Stage-IV.

- (3) Investigation of Micro Hydel Schemes on various Canals falls.

- (4) Investigation of Anandpur Sahib Hydel Scheme Stage-IV.

- (5) Investigation of schemes in the neighbouring States for collaboration.

8.66. An outlay of Rs. 68.00 lakhs for Sixth Plan including Rs. 8.00 lakhs for 1980-81 and Rs. 13.00 lakhs for 1981-82 is proposed for the investigation of the above schemes.

H. Research Station :

8.67. Research works on Power is being undertaken by State Electricity Board under the auspices of C.B.I. & P. In view of the large scale power development envisaged in near future, responsibility and task for the research unit has increased manifold and therefore, it has been planned to upgrade the existing research unit 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. 103.00 lakhs for Sixth Plan and Rs. 12.00 lakhs for 1981-82 is proposed as against Rs. 15.00 lakhs likely to be incurred on this station during 1980-81.

Load Despatch Centre :

8.68. 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 includes other States, namely, Rajasthan, Haryana and Himachal Pradesh. 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 the constituent States of the region, State Load Despatch Centres are to be set up in the each State. Such a Centre in the State of Punjab is being set up at

Patiala at a cost of Rs. 5.02 crores. An expenditure of Rs. 70.00 lakhs has already been spent upto 1979-80 and an outlay of Rs. 4.32 crores is proposed for the Sixth Plan period for the completion

of this project. An outlay of Rs. 3.00 crores is envisaged in the Annual Plan 1981-82 against an expenditure of Rs. 65.00 lakhs anticipated during the current year on this project.

ANNEXURE—I

Information regarding cost estimates, date of completion, status

Serial No.	Name of the scheme	Latest Estimated Cost	Date of Commencement	Latest Commissioning schedule
1	2	3	4	5
1.	Beas Project Unit-I (4X165=660 MW)	.. 16874.00	1959-60	already commissioned
2.	Beas Project Unit-I(Ext.) (2 × 165=330 MW)	.. 1885.00	..	Unit-I/2/83 Unit-II/7/83
3.	Beas Project Unit-II (4 × 60=240 MW)	.. 1520.00	1959-60	already commissioned
4.	Beas Unit-II(Ext.,) (2 × 60=120 MW)	.. 199.00	..	Unit-I/9/82 Unit-II/1/83
5.	Taen Dam Project (4 × 120=480 MW)	.. 38000.00	1978-79	Unit-I/1/87 Unit-II/4/87 Unit-III/7/87 Unit-IV/10/87
6.	Shanan Renovation Project (4X6=24 MW)	.. 753.00	1972-73	2/82
7.	Shanan Extension Project (50 MW)	.. 1906.00	1975-76	11/81
8.	G.N.D.T.P.—III and IV (2 × 110=220 MW)	.. 7115.00	1974	already commissioned
9.	Anandpur Sahib Hydel Project (4 × 33.5=134 MW)	.. 9612.00	April, 1974	PH—I Unit—I-6/82 Unit—II-9/82 PH—II Unit— I-6/83 Unit—II-9/83
10.	Mukerian Hydel Project 6 × 15=90 MW 6 × 19.5=117 MW Total=207 MW	11559.00	1977-78	PH—I Unit—1-1/83 Unit—II-4/83 Unit—III-7/83 PH—II Unit—I-11/83 Unit—II-2/84 Unit—III-5/84 PH—III Unit—I-3/85 Unit—II-7/85 Unit—III-11/85 PH—IV Unit—I-3/86 Unit—II-7/86 Unit—III-11/86
11.	Ropar Thermal Project Stage—I (2 × 210=420 MW)	.. 20700.00	1978-79	Unit—I/4/84 Unit—II-10/84

and details of expenditure for Power Projects

(Rs. in lakhs)

Status of Project	Expenditure upto 1979-80	Spillover requirement after 1979-80	Sixth Plan	1980-81	1981-82
			1980-85 Proposed outlay	Anticipated Expenditure	Proposed outlay
6	7	8	9	10	11
Stands cleared from G.O.I.	16587.63	286.37	287.00	187.00	68.00
Ditto	448.11	1436.89	1437.00	508.00	499.00
Ditto	1495.21	24.79	25.00	16.00	12.00
Ditto	59.33	139.67	140.00	53.00	50.00
Technically cleared	..	..	25.00	5.00	5.00
Stands cleared from G.O.I.	567.59	185.41	163.00	71.00	58.00
Ditto	1412.66	493.34	349.00	109.00	210.00
Ditto	6415.18	699.82	872.00	280.00	247.00
Technically cleared	5369.77	4242.23	4242.00	2037.00	1694.00
Ditto	1033.77	10525.23	10653.00	1275.00	2665.00
Stands cleared from G.O.I.	83.16	20516.84	19625.00	1350.00	3128.00

ANNEXURE—II (i)

Detailed list of Works proposed to be carried out during 1981-82 in respect of Beas Project (Trans)

Serial No.	Name of work	Outlay proposed (Rs. in lacs)
A. 220 KV Substations		
1	Jullundur (New)	20.00
2	Jullundur (BBMB)	10.00
	Total 'A'	30.00
B. 132 KV Substations		
1	Batala (New)	18.19
2	Verka	3.10
3	Patfala	12.41
4	Ferozepur (Aug)	3.21
5	Kotkapura	4.28
6	Jagraon	16.79
7	Abohar	16.80
8	Mukatsar	3.75
9	Moga	7.49
10	Gobindgarh	4.60
11	Samrala	5.15
12	Ropar	15.25
13	Malout	4.76
	Total 'B'	1,15.78
C. 66 KV Substations		
1	Barnala	4.82
2	Malerkotla	3.21
3	Dhuri	6.42
4	Adda Dakha	5.78
5	Bahadurgarh	3.26
6	B/M S/S Jullundur	20.00
7	Do Ludhiana	12.57
	Total 'C'	60.06
66 KV Lines		
1	Fig. 2nd Ckt of B/M at Ludhiana	12.84
	Grand Total	218.68
		Say 219.00 lacs
	B.C.B. works	10.00
	Grand Total	229.00

Note.—The expenditure will be restricted to Rs 190 lacs including establishment and pro rata charges.

ANNEXURE—II (ii)

Detailed list of works proposed to be carried out during 1981-82 in respect of UBDC Project (Trans)

Serfal No.	Name of work	Outlay proposed (Rs. in lacs)
A. 132 KV Substations		
1	Nakodar	2.50
2	Fatehgarh Churlan	5.00
	Total 'A'	7.50
B. 66 KV Substations		
1	Dina Nagar	3.75
2	Ajnala	1.89
3	Galri	3.21
4	Narot Jajmal Singh	3.21
5	Kahnuwan	2.57
6	Ramdas	2.68
7	Quadfan	18.19
8	Sri Hargobindpur	3.39
	Total 'B'	38.89
	Grand Total	46.39
		Say Rs. 46 lacs

Note.—The expenditure will be restricted to Rs. 38 lacs including Estt. and *pro rata* charges.

ANNEXURE II (III) 1

Detailed list of works proposed to be carried out during 1981-82 in respect of GNDTP Project (Trans.)

Serial No.	Name of work	Outlay proposed (Rs in lacs)
A. 132 KV Sub Stations :		
1	Talwandi Bhai	15.62
2	Kharar	3.96
3	Mansa	14.01
4	Gobindgarh	16.05
	Total	49.64
B. 63 KV Sub Stations :		
1	Bhadson	1.34
2	Moonak	9.42
3	Lehragaga	4.28
4	Bassi Pathana	2.14
5	Sunam	8.67
6	Jarg	9.95
7	Sarhind	3.75
8	Banur	1.77
9	Lalru	4.28
10	Chaurwala	10.70
11	Devigarh	1.82
12	Khana	2.09
13	Bhawanigarh	9.31
14	Patran	0.79
15	Bhadaur	4.28
16	Rampura Phul	32.2
17	Rama Mandi	2.68
18	Talwandi Saboo	2.68
19	Laduka	3.21
20	Ahmedgarh	10.24
	Total 'B'	96.61
	Grand Total	146.25
		Say Rs 146.00 lacs

The expenditure will be restricted to Rs 118 lacs including Establishment and *pro rata* charges.

ANNEXURE II (iv)

Detailed list of works proposed to be carried out during 1981-82 in respect of Shanan Extension Project (Trans.)

(Rs. in lacs)

Name of work	Outlay proposed
A. 132 KV Sub Stations :	
1 Pathankot	4.26
2 Gurdaspur	20.22
Total	<u>24.48</u>
B. 66 KV Sub Stations :	
1 Sahnewal	2.14
2 Mohali	1.07
3 Morinda	1.18
4 Sidhwan Bet	1.75
5 Ajitwal	6.49
Total 'B'	<u>12.63</u>
Grand Total	<u>37.11</u>
	Say Rs 37.00 lacs.

The expenditure will be restricted to Rs. 30 lacs including establishment and prorata charges.

ANNEXURE—II(V)

Detailed list of works proposed to be carried out during 1981-82 in respect of GNDTP Ext. Project
(Trans.)

(Rs. in lakhs)

Serial No.	Name of work	Outlay proposed
1	2	3
A. 220 K V		
(a) Sub-stations :		
1	Muktsar	60.00
(b) Transmission Lines :		
1	Interlinking Bhatinda-Muktsar line at 220 KV Sub-station Mukatsar	10.00
Total (A)		70.00
B. 132 K V		
(a) Sub-stations :		
1	Nuraingarh	3.80
(b) Transmission Lines :		
1	Mukatsar-Ferozepur	53.50
Total (B)		57.30
C. 66 K V		
(a) Sub-stations :		
1	Ghanaur	1.34
2	Chawa	3.35
3	Katron	7.60
4	Longowal	6.53
5	Mehal Kalan	4.28
6	Aliwal	3.21
7	Udhanwal	9.27
8	Sujinpur	4.55
9	Kalanaur	3.21
10	Dera Baba Nanak	2.14
Total (C)		45.48
Grand Total		172.78

Say Rs. 173.00

The expenditure will be restricted to Rs. 140 lacs including establishment and *pro rata* Charges.

ANNEXURE—II(VI)

Detailed list of Works proposed to be carried out during 1981-82 in respect of Bhakra Right Bank Projects (Transmissions)

(Rs. in lacs)

Serial No.	Name of work	Outlay proposed
1	2	3
66 K V Substations :		
1	N. bha	6.96
2	Samana	1.07
3	Raikot	4.10
Total		12.13
Say Rs. 12 lacs.		

Note.—The expenditure will be restricted to Rs. 10 lacs including Establishment and *pro rata* charges.

ANNEXURE II (vii)

Detailed list of works proposed to be carried out during 1981-82 in respect of Fifth Plan Project
Transmission

Serial No.	Name of works	Outlay proposed (Rs. in lacs)
A. 220 KV		
(a) Substations :		
1	Verpal (Aug.)	17.00
2	Patiala	70.00
3	Malerkotla	100.00
4	Chandigarh	100.00
5	Lalton Kalan	107.00
6	Sarna	12.00
7	Batala	70.00
	Total	476.00
(b) LINES :		
1	Sarna -Batala	100.00
2	Batala Verpal	
3	Ganguwal Patiala	100.00
4	Tee-off line at 220 KV S/S Lalton Kalan from Jamalpur—Bhatinda line	2.00
5	Diversion of 220 KV Ganguwal—Abdulpur line at 220 KV S/S SAS Nagar	3.00
6	Tee-off line for 220 KV S/S Malerkotla from Jamalpur—Sangrur D/C line.	3.00
7	Prov. 220 KV Bay at Ganguwal for Ganguwal—Patiala Line	3.00
	Total	211.00
B. 132 KV		
(a) Substations :		
1	Kartarpur	11.00
2	Sultanpur	21.00
3	Sri Hargobindpur	17.00
4	Doraha	8.00
5	Banga	5.00
6	Bagha Purana	8.00
7	Jallalabad	12.00
8	Mehalpur	18.00
9	Kapurthala	2.00
10	Hoshirapur	5.00
11	Butari	6.00
	Total	118.00

ANNEXURE II (vii)—(concl'd)

Detailed list of works proposed to be carried out during 1981-82 in respect of Fifth Plan Project
(Transmission)

Serial No.	Name of Works	Outlay proposed Rs. in lakhs
(b) Lines :		
1	Link line at Verpal Batala and Sarna ends.	6.00
2	Kapurthala-Sultanpur	5.00
3	Tee-off line at Bagha Purana from Moḡa—Mukatsar line	1.61
4	Tee-off Kartarpur S/S	1.32
5	Batala Kotli Surat Mali	4.39
	Total	18.32
(C) 66 KV		
(a) Substations :		
1	Mohali Phase-VII	4.9
2	Pasiana (Bay for Balbera)	3.21
3	Dhandari Kalan	8.03
4	Badali (Sampla)	5.35
5	Jogaralla	3.56
6	Kohara	0.28
7	Giaspur	6.42
8	Rupana	5.21
9	Dhanaula	10.70
10	Chubal	13.39
11	Manochal	8.24
12	Majra	2.35
13	Gaunsgarh	5.35
14	Bhari	6.39
(b) Lines :		
1	220 KV S/S Patiala—Bahadurgarh	8.56
	Grand Total	915.26
	Say Rs 915 lacs	

Note.—The expenditure will be restricted to Rs 745 lacs including establishment and *pro rata* charges.

ANNEXURE II (viii)

Detailed list of works proposed to be carried out during 1981-82 in respect of Sixth Plan Works (Trans.)

(Rs in lacs)

Serial No.	Name of works	Outlay proposed
A. 220 KV		
(a) Substations.—		
1	Bhatinda	10.00
2	Dasuya	16.00
3	Gobindgarh	15.00
	Barnala	25.00
	Total	66.00
(b) Lines—		
1	Pong—Jullundur	25.00
2	Sarna—Batala	10.00
	Total	35.00
B. 132 KV		
(a) Sub-stations—		
1	Kotli Suratmali	25.00
2	Nurmahal	25.00
3	Patti	15.00
4	Tarn Taran	17.41
5	Bhogpur	29.43
6	Nawanshahr	21.94
7	Goraya	23.86
8	Fatehgarh Churian	20.86
	Total	178.50
(b) Lines—		
1	Nawanshahr—Goraya	5.67
2	Goraya—Nurmahal	18.00
3	Link line connecting 220 KV S/S Batala with 132 KV S/S Batala	10.00
4	D/C line from PH-I to PH-II at Anandpur Sahib	8.56
5	S/C line from PH-II to Ropar	25.63
6	S/C Jullundur—Bhogpur	0.11
7	Lines connected with Mukerian Power Houses	50.00
8	T-off for 132 KV S/S Gobindgarh-II	6.42
9	Muk.,tsar—Jallalabad	8.96
	Total	133.24

(Rs in lacs)

Serial No.	Name of works	Outlay proposed
C. 66 KV		
(a) Sub-stations—		
1	Maloud	4.32
2	Amargarh	6.42
3	Rommi	4.28
4	Tibber	14.98
5	Talwara	15.31
6	Tarn Taran F.P.	10.96
7	Ghuman	7.49
8	Kala Afgana	11.77
9	Begowal	16.97
10	Udhonangal	15.41
11	Dera Bassi	12.84
12	Gudhani Kalan	7.49
13	Tapa	2.14
14	Sahabpur	14.98
15	Chubal	14.98
16	Majitha	6.20
	Total	166.54
Transmission Lines		
1	Gurdaspur—Kahnuwan for Tibber	0.54
2	Kotli Suratmali—Kala Afgana	7.49
3	Malerkotla—Maloud	5.35
4	Interlinking line between 220 KV S/S Lalton Kalan & 66 KV R/M Gill Road & Sherpur line Ludhiana	10.70
5	Interlinking line between 220 KV R/M Lalton Kalan & Gill Road Ferozepur Road R/M S/S Ludhiana	
6	Doraha—Sahnewal (2nd ckt.)	5.35
7	T-off line at Amlah from Gobindgarh—Bhadson line	1.07
8	Tee-off line at Rommi	0.54
9	Tee-off Bagowal	1.93
10	Tarn Taran to F.P. Tarn Taran	2.14
11	Tee-off Rai Majra	2.14
12	Sangrur—Barnala	8.56
13	Mukatsar—Rupana	1.07
14	Jamalpur—Dhandari Kalan	0.54
15	Patiala—Passiana	1.07
16	Malerkotla—Interlinking	4.28
17	66 KV Diversion at Giaspur	3.21

(Rs. in lacs)

Serial No.	Name of works	Outlay proposed
18	Jogaralla—Tapa	8.56
19	Tapa—Barnala	9.63
20	Patiala—Nabha (Aug. of cond.)	8.56
21	Malerkotla—Amargarh	8.56
22	Jallalabad—Guru Har Sahai	10.70
23	Kharar—Badali	7.33
24	Tee—off Dhanaula	1.61
25	Banur—Dera Bassi	8.56
26	Doraha—Gudhani Kalan	4.28
27	Dhulkot—Rajpura (Aug.)	7.49
28	Malerkotla—Dhuri (2nd ckt.)	10.70
		139.82
	Total	719.10
	B.C.B. Works	44.00
	Grand Total	763.00

Note.—The expenditure will be restricted to Rs 629 lacs including establishment and *pro rata* charges.

Industry and Minerals

Punjab's performance in industry is in sharp contrast to its success in agriculture. The industrial sector accounts for about 13 per cent of the State Income (NSDP) as against around 26 per cent in case of Maharashtra. Continuous higher rate of growth in the economy, which is the prime goal of development, can only be achieved by diversifying the base of the State's economy. For this more emphasis is to be laid on industry by providing a package of incentives to the intending entrepreneurs. Punjab is handicapped by its remoteness from the country's mineral and metallurgical bases. The level of development of large and medium industries, small-scale industries and village industries, in the past has also been meagre, un-coordinated and haphazard.

9.2. Within the industry itself, the development cannot remain limited only to the small and tiny industry. The small industry flourishes best when there is a commensurate development of modern large scale industry also. The Plan, therefore, seeks to bring about a fundamental improvement in the situation and lays emphasis on the coordinated development of large and medium, small and tiny industries. Unlike the position at the Centre, the State Government's financial resources are too meagre to permit large-scale direct investment in industry. Its role is, therefore, largely limited to promoting private investments in this field. Any direct investments that are contemplated are mostly of the pioneering type. The Plan programmes of industrial development have been conceived in the light of the increasing necessity of giving a lead to industry in the development of the State's economy. It mainly visualises the attainment of the following objectives :—

- (i) Accelerated growth and realisation of economic benefits of the already created infra-structure of industries.
- (ii) Diversified rapid industrialisation of the State.*

- (iii) To promote rural industries for which separate incentives are envisaged to ameliorate the economic condition of the weaker section of the society.
- (iv) Special emphasis on small-scale industrial units to create maximum employment.
- (v) Incentives to industrialists for setting up industries in Punjab.
- (vi) Export of State industrial products and exploring new markets for exports.

9.3. There are, however, certain favourable factors for industry to take advantage of. The State has a long tradition to small industry. Punjab is not lacking in entrepreneurship. Development of rural and other roads, expansion of road transport and electrification of all villages have created favourable infra-structure for the development of industry. The State has also a plentiful supply of food and other important agro-based raw materials like cotton, sugarcane and agricultural wastes for agro-based industries. There are also fine prospects for the development of electronics and engineering industries. Besides, there are flourishing rural and urban markets for industrial products including consumer goods. Thus, the need for a massive push to the process of industrialisation, more particularly in sectors which will create generally large employment potential is obvious. Therefore, given the necessary efforts by the State and due support by the Centre, prospects for the industrial development of Punjab can indeed be bright.

9.4. During the year, 1979-80, a sum of Rs. 1,766.09 lakhs was spent on this Sub-head. The higher step up during this year was due to the fact that an amount of Rs.650.00 lakhs was given as loan to PSIDC for the completion of two Sugar Mills at Gurdaspur and Zira and Harvester Combine Project for which institutional finance was not forthcoming.

9.5. The actual expenditure in 1979-80, outlay for 1980-85 and 1981-82 for the different sectors are as follows :—

(Rs. in lakhs)

Sector	Actual Expenditure 1979-80	Approved Outlay 1980-81	Proposed Outlays	
			1980-85	1981-82
1	2	3	4	5
*(a) Large and Medium Industries ..	1533.04	900.00	6087.20	1058.50
(b) Village and Small-scale Industries ..	230.89	340.00	2061.30	410.50
(c) Mines and Minerals ..	2.16	3.00	20.00	8.00
(d) Weights and Measures ..	—	3.00	15.00	3.00
Total ..	1766.09	1246.00	8183.50	1480.00

*Details of the schemes under this sector are given in Annexure I to this chapter.

9.6. The Punjab Financial Corporation has proposed that disbursement of loans will be increased from Rs. 680.00 lakhs during 1980-81 to Rs. 960.00 lakhs by 1984-85. The other Corporations will also raise institutional finance as per requirement of their projects. The level of investment which was Rs. 766.75 crores during 1979-80 is likely to be

increased to Rs. 1274.08 crores by the end of the Sixth Plan period.

9.7. The main physical targets achieved during the past years and the targets to be achieved, are given as Annexure II to the Chapter. The level of achievement proposed for the Sixth Plan period is as under :—

Item	Targets	
	1979-80	1984-85 (Cumulative)
1. No. of Units—		
(i) Large and Medium Sector ..	203	373
(ii) Small-scale Sector ..	54,637	88,697
(iii) Village Industries ..	41,127	62,827
Total ..	95,967	1,51,837
2. Employment (Nos.)—		
(i) Large and Medium Sector ..	98,376	1,75,726
(ii) Small-scale Sector ..	3,33,090	5,54,090
(iii) Village Industries ..	68,720	1,21,520
Total ..	5,00,186	8,51,336
3. Production (Cr. Rs.)—		
(i) Large and Medium Sector ..	625.24	1,454.70
(ii) Small-scale Sector ..	653.13	1,097.68
(iii) Village Industries ..	16.11	32.87
Total ..	1,294.48	2,585.25

Item	Targets	
	1979-80	1984-85 (Commulative)
4. Investment (Cr. Rs.)—		
(i) Large and Medium Sector	523.33	870.73
(ii) Small Scale Sector	237.26	392.02
(iii) Village Industries	6.16	11.33
Total	766.75	1274.08
5. Export (Cr. Rs.)—		
(i) Large and Medium Sector	35.88	99.31
(ii) Small Scale Sector	58.74	95.28
(iii) Village Industries	..	..
Total	94.62	194.59

PLAN PROGRAMMES

Industrial Finance :

9.8. The Punjab Financial Corporation provides medium and long-term loans for setting up new industries in the State and for the expansion and modernisation of the existing industrial concerns. During the year 1979-80, the disbursements by the Corporation were of the order of Rs. 643.74 lakhs. The target of disbursement for 1980-81 has been placed at Rs 680.00 lakhs and is expected to reach the level of Rs. 960.00 lakhs by the end of 1984-85. This requires further strengthening of the paid up capital of the Corporation which stood at Rs. 395.00 lakhs as on 31-3-1979 against the authorised capital of Rs 500.00 lakhs. An amount of Rs. 38.00 lakhs was provided during the year 1979-80. No outlay was provided for the year 1980-81. An outlay of Rs. 100.00 lakhs is proposed for the Sixth Plan and an amount of Rs 14.50 lakhs is proposed for 1981-82. An equal amount will be provided by IDBI in accordance with the established pattern.

INVESTMENT IN PUBLIC UNDERTAKINGS

Punjab State Industrial Development Corporation

9.9. The Punjab State Industrial Development Corporation promotes suitable projects in large

and medium sector and also acts as the second State level agency of the IDBI for extending re-finance facilities. The Corporation has in hand Letters of Intent/Industrial Licences for about 55 projects. As today 25 projects at a capital cost of Rs 49.00 crores have already been commissioned, 7 projects with a capital cost of Rs 35.00 crores are under construction. 9 projects costing Rs 87.40 crores are under implementation. Another 21 projects are at various stages of investigation. Similarly the Corporation had sanctioned financial assistance amounting to Rs 269.91 lakhs to 14 applicants till 31st March, 1980. The paid-up capital of the Corporation as on 31-3-1980 is Rs 1715.00 lakhs against the authorised capital of Rs 30.00 crores. During the Sixth Plan 1980—85, it is proposed to invest a sum of Rs 2,950.00 lakhs. The outlay for the year 1980-81, is Rs 420.00 lakhs. For 1981-82 it is proposed to provide Rs 565.00 lakhs. The details of the requirements of various projects are indicated in the Annexure III to the Chapter. It is evident that the actual requirements are of the order of Rs. 3550.00 lakhs. The difference between the proposed outlay and the actual requirement will be met by the Corporation from its spill over and its own financial resources.

Punjab State Small Industries Corporation

9.10. The Punjab State Small Industries Corporation primarily promotes the interests of small

scale units in the State. The Corporation was established for the procurement and supply of essential raw materials. Gradually, many other promotional activities have been taken up which cover almost all areas of industrial activities in the small scale sector. The area of operation of the Corporation now covers the activities like supply of raw materials, infra-structural facilities, consultancy services, marketing assistance, hosiery work centre, emporia organisation, development of handicrafts, export and marketing etc. The authorised capital of the Corporation is Rs 500.00 lakhs and the paid up capital is Rs 441.16 lakhs as on 30-6-1980. During 1978-79, the turn over of the Corporation was Rs. 2387.09 lakhs and it is estimated that it will touch Rs 30.00 crores during 1979-80. It is likely to go upto Rs 40.00 crores during 1980-81. Thereafter annual increase of about 25 % is expected. It is proposed to strengthen the share capital base of the Corporation to enable it to raise further financial assistance from the financial institutions for the development of infra-structure facilities. The provision for the Sixth Plan is proposed at Rs 80.50 lakhs out of which a sum of Rs 20.00 lakhs will be given in 1981-82.

Punjab State Electronics Development and Production Corporation

9.11. The main objective of the Punjab State Electronics Development and Production Corporation which was incorporated in 1976 is to develop the Electronic Town at SAS Nagar (Mohali) and promote the electronics industry in the State. The paid up capital of this Corporation as on 30-6-1979 was Rs 80.00 lakhs and a sum of Rs 43.50 lakhs was provided to the Corporation during 1979-80. The Corporation has promoted 5 companies. These are expected to go into production during 1980-81. In the Electronic Township 81 plots have been allotted to prospective entrepreneurs. During the Sixth Plan period 1980—85 the Corporation proposes to take up 19 Projects inclusive of the 5 companies already established. The estimated cost of these projects is Rs 1858.93 lakhs. However, an amount of Rs 200.00 lakhs is proposed for equity investment in the Corporation for 1980-85. An outlay of Rs 30.00 lakhs is earmarked for 1980-81 and an amount of Rs 50.00 lakhs is proposed for the year 1981-82.

Punjab State Handloom and Textile Development Corporation

9.12. The Punjab State Handloom and Textile Development Corporation was incorporated on 23rd March, 1976. The main objective of the Corporation is to promote and develop handloom industry in particular and other textile industry in general. The paid up capital as on 31-3-1979 was Rs 60.00 lakhs. A provision of Rs 9.00 lakhs has been made for 1980-81. An outlay of Rs 100.00 lakhs is proposed for further investment in this Corporation during the Sixth Plan period. Out of this, a sum of Rs 25.00 lakhs is proposed to be provided for the year 1981-82. The Corporation till now has already implemented the first phase of the Cotton Waste Spinning Plant at Nakodar. The Shoddy Plant at Morinda will go on stream during 1980-81. The Corporation has commissioned 219 looms under its Export Production Project and has also taken up the setting up of two process houses—one for woollen fabrics at Amritsar and other for cotton/blended fabrics at SAS Nagar. The new projects proposed by the Corporation are for setting up of a unit for Woollen Yarn and Worsted Yarn, Cotton Spinning Mill, Dye Intermediates Unit and expansion of the Woollen Processing House and Cotton Processing House, Matching contribution will be forth coming from the Government of India as Central assistance.

Punjab State Hosiery and Knitwear Development Corporation

9.13. Punjab State Hosiery and Knitwear Development Corporation is establishing a woollen Dyeing and Finishing Plant in collaboration with UNDP. This Corporation assists the hosiery knitwear industry in technology, designing, marketing, raw material supplies and processing etc. The first phase of the project has been commissioned during the Sixth Five Year Plan. It is proposed to complete the second phase for which a sum of Rs 85.00 lakhs will be required. UNDP assistance amounting to \$ 21,78,440 will be available in the second phase. The Corporation also proposes to take up a number of other projects viz. finishing facilities for warp knitting industry, Amritsar Wool Fabric Finishing Plant at Amritsar. Finishing Plant for Cotton Knitwear at Ludhiana. An outlay of

Rs 125.00 lakhs has been proposed for the Sixth Plan period and a sum of Rs 30.00 lakhs is proposed for the year 1981-82 against an outlay of Rs. 16.00 lakhs for 1980-81.

Punjab State Leather Development Corporation.

9.14. It is proposed to set up Leather Development Corporation in the Punjab State during 1980-81 for taking up the development of leather industry. A sum of Rs. 1.00 lakhs has been provided as a token amount of share capital for this Corporation. Another sum of Rs. 30.00 lakhs provided for the decentralised leather workers is proposed to be transferred to this Corporation as share capital. During the Sixth Plan period, the outlay has been proposed at Rs. 200.00 lakhs. The provision of Rs. 50.00 lakhs has been made for 1981-82. The Corporation will take up the following activities:—

- (i) Setting up of modern tannery;
- (ii) Provide common facilities in respect of hide flaying & carcass utilisation, tanning and footwear;
- (iii) Supply of raw material through its depots and sale through it of finished products.
- (iv) Setting up of functional estate; and
- (v) Supply of improved machinery and equipment, grants of various incentives required for the growth of industry.

Small Scale Industries Programme.

9.15. This minor head covers a large number of promotional programmes. The provision of Rs. 40.00 lakhs has been made for the Credit Facilities Scheme under the State Aid to Industries Act for Sixth Plan. This credit is available mostly to tiny units who find it difficult to borrow from the financial institutions. The amount is sanctioned at the district level subject to a maximum of Rs. 10,000 to a single party. The State Policy, however, is to encourage even tiny units to tap the financial institutions. To enable such units to borrow at the low rates of interest as charged under the State Aid to Industries Act, a subsidy is provided under the scheme IN 4-21 'Interest Subsidy'. The rate of subsidy has been limited to a maximum of 4%. The provision for the subsidy scheme has been kept at Rs. 30.00 lakhs for Sixth Plan

and Rs. 5.00 lakhs for 1981-82. A Central subsidy of 15% on fixed capital investment is available in the 3 backward districts of Hoshiarpur, Sangrur and Bhatinda. In the Plan, a provision of Rs. 225.00 lakhs has been made for a similar subsidy on the central pattern and will be available in the border, bet and sub-montane areas and in any other areas which may be declared backward by the State Government.

9.16. The small-scale units in most cases are in need of upgrading their technology. Therefore, a number of schemes which were initiated earlier, will continue during this Plan. These would enable the small scale units to improve quality control and standardisation. The Plan provides for the running of 7 Industrial Development Centres and 5 Quality Marking Centres. The building for the Tool Room at Ludhiana which is being set up by the Government of India in collaboration with FRG shall also be completed. Similarly the building for the Handtool Design Institute at Jullundur will be completed.

9.17. The Sewing Machine Development Centre at Ludhiana and the Research Development Centre for Bicycle at Ludhiana have been tentatively included in the UNDP assistance programme and their project reports are under consideration of the Government of India. The outlays have been provided at Rs. 60.00 lakhs for the Sewing Machine for the Sixth Plan period and Rs. 15.00 lakhs for 1981-82. For the Research and Development Centre for Bicycle, an amount of Rs. 80.00 lakhs is proposed for 1980—85 and Rs. 20.00 lakhs for 1981-82.

9.18. The building for the Punjab Test House is under construction, though the Test House is already functioning in a limited manner. An outlay of Rs. 35.00 lakhs for the Sixth Plan and a provision of Rs. 5.00 lakhs is proposed for the year 1981-82.

9.19. A sum of Rs.40.00 lakhs has been provided for the modernisation of SSI units during the Sixth Plan. An outlay of Rs. 7.50 lakh has been proposed for 1981-82. Under this scheme, studies are conducted of selected units and reports are prepared by the Consultants for their modernisation. Incentives are also provided for the implementation.

9.20. The following new projects/schemes are proposed to be taken up during the Sixth Plan:—

(Rs. in lakhs)

Name of the Scheme	Outlays for	
	1980---85	1981-82
IN 3.3 Industrial Promotion Cell	10.00	3.00
IN 4.35 (v) Dis-semination of Marketing Intelligence	4.00	1.00
IN 4.36 Implementation of Quality Control	8.00	2.00
IN 4.37 Incentives for project report and installation of EFFLUENT Treatment Plant	25.00	3.00
IN 4.38 Chief Inspector of Boilers	6.50	1.25
IN 6.1 (i) Programme for the Handloom Industry	12.00	3.00
Total	65.50	13.25

9.21. The Marketing Assistance Programme of SSI Units includes the programmes for the dissemination of marketing intelligence; participation in fairs/exhibition within the country and abroad; honouring of the outstanding exporters from the State and sponsoring of delegates and study teams abroad. For these programmes, a sum of Rs. 40.00 lakhs has been proposed for the Sixth Plan period, out of which Rs. 8.00 lakhs are proposed for 1981-82.

Industrial Estates/Areas/Incentives to New Industry

9.22. This scheme aims at Integrated Development of large, medium and small scale industrial units by providing infrastructural and other facilities. Under this scheme, land is acquired by the Department and is transferred to PSSIC for development of plots of varying sizes. These are allotted to intending entrepreneurs on subsidized rates. By 1979-80, out of 3,790 acres of land acquired at 16 places, 3202.80 acres had been

developed. From 2134 plots developed, 1599 had been allotted. It is anticipated that by 1980-81, 4068.80 acres of land will be acquired and 3428.80 acres of land will be developed. By 1984-85, the land acquired will be 5871.80 acres, land developed would be 5140.80 acres, plots carved 5100 and plots allotted 4900. The areas proposed to be developed and already developed are given in Annexure IV and V respectively.

9.23. This scheme also has provision for the various incentives announced by the State Government. The incentives include land at subsidised rates, grant of interest free loan, concession of electricity tariff on power based industries, loans for feasibility reports, refund of octroi and terminal tax and investment loan etc. For all these programmes an amount of Rs. 2806.20 lakhs has been earmarked for the Sixth Plan and an outlay of Rs 424.00 lakhs is proposed for 1981-82

Handloom/Textile Industries

9.24 There are about 22000 looms employing about 34000 persons. The programmes for the development of this sector have been provided an outlay of Rs 50.00 lakhs for the Sixth Plan, out of which Rs 10.00 lakhs has been proposed for the year 1981-82. The outlay will be used for providing training to weavers, getting them machinery and equipment, running of a training-cum-development centre and providing rebate on sale of cotton cloth.

Village Industries

9.25. The Integrated Rural Development Programme is being implemented in collaboration with Punjab Khadi and Village Industries Board. During 1979-80, a sum of Rs 40.00 lakhs was provided for setting up 1815 Village Industries Units and 1900 Small Scale Industries Units in the rural areas. The provision for 1980-81 is provided at Rs 45.00 lakhs and targets for Village Industries Units to be setup is 1800 and for Small Scale Industries Units in rural areas is 2300. The provision for Sixth Plan has been proposed at Rs 175.00 lakhs, out of which an outlay for 1981-82 is proposed at Rs 35.00 lakhs. During the Plan period, a total number of 9400 Village Industries units will be set up providing

employment to 28,200 persons and 12,300 Small Scale Industries Units will be set-up providing employment to 24,600 persons in the rural areas.

Handicraft Industries.

9.26. This programme includes running of training centres in leather embroidery, toy making, wooden furniture and doll making, setting up of 8 rural marketing and service centres and the setting up of one solar based wood seasoning plant at Hoshiarpur and rebate on sale of handicrafts. This also includes the setting up of Training-cum-Production Centre in Carpet Weaving to achieve the objectives of producing additional employment. These training centres will be set up in collaboration with private entrepreneurs who after completion of the training period of one year will run the centre as production units employing therein the trained workers. The Sixth Plan provision for this group has been made at Rs 70.00 lakhs out of which a sum of Rs 10.00 lakhs is earmarked for 1981-82.

Sericulture

9.27. Sericulture programme includes the completion of the grainage building, running of the two sericulture farms and one extension centre set up during the previous plan years, providing subsidy to silk worm rearers, modernisation and expansion of rearing units at Gurdaspur, setting up of 100 block plantations providing training to farmers in rearing of silk worm, providing training to staff, introducing second crop of cocoons and setting up of intensive plantation of bush type mulberry in the existing farms having an area of 125 acres. The outlay for Sixth Plan

has been proposed at Rs 30.00 lakhs and Rs 6.00 lakhs for the year 1981-82.

Mines and Minerals

9.28. A sum of Rs 20.00 lakhs has been proposed for Mines and Minerals for the Sixth Plan period, out of which a sum of Rs 8.00 lakhs has been provided for the year 1981-82. The programme includes engineering geological, geohydrological surveys and geophysical surveys. These surveys include determination of soil bearing capacity, floods position, meteorological and seismic data, preparation of ground plans, and provision of good quality water. It is proposed to enhance the scope of geohydrological surveys by providing the industrial entrepreneurs in private, joint and public sectors with tubewell drilled and installed scientifically. It is also proposed to provide for pilot plant, studies and research work in case of the mine deposits like those of calc-tuffa, white quartzite round stones, salt petre, alkaline earth, clays, limestone, etc. resources of which have been established in the State

Weights and Measures

9.29. A sum of Rs. 15.00 lakhs has been proposed for the Sixth Plan period out of which a sum of Rs 3.00 lakhs, is proposed for 1981-82. The provision for 1980-81 is Rs. 3.00 lakhs. The amount will be utilised for the purchase of machinery and equipment, construction of laboratory building, staff for enforcing the provision of the Act with regard to taxi-fare meters, clinical meters, water meters, weights and measures used in Post Offices and other miscellaneous trades.

ANNEXURE I
LARGE AND MEDIUM SCALE SECTOR

(Rs. in lakhs)

Name of the Scheme				1980-85		1981-82	
		1979-80 Actuals	1980-81 Approved	Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1		2	3	4	5	6	7
IN 1-1	Punjab Financial Corporation ..	38.00	—	100.00	100.00	14.50	14.50
IN 1-2	Industrial Financial Corporation of India ..	1.00	1.00	1.00	1.00	—	—
IN 2-1	Punjab State Industrial Development Corporation..	1120.00	420.00	2950.00	2950.00	565.00	565.00
IN 2-3	Punjab State Electronics Development & Production Corporation ..	43.50	30.00	200.00	200.00	50.00	50.00
IN 4-16	Electronic Development and Testing Laboratory at SAS Nagar ..	5.25	8.00	30.00	12.00	5.00	3.00
IN 5-1	Industrial Estates ..	325.29	441.00	2806.20	2696.00	424.00	401.25
Total		1533.04	900.00	6087.20	5959.00	1058.50	1033.75

ANNEXURE II

DEVELOPMENT OF INDUSTRIAL SECTOR 1979-80 to 1984-85

Item	Provisinoal 1979-80	Targets				
		1980-81	1981-82	1982-83	1983-84	1984-85
	1	2	3	4	5	6
1. No. of Units :						
(i) Large & Medium Sector	.. 203	228	258	293	333	373
(ii) Small Scale Sector	.. 54,637	60,637	67,037	73,837	81,037	88,637
(iii) Village Industries	.. 41,127	45,227	49,527	53,827	58,327	62,827
Total	.. 95,967	1,06,092	1,16,822	1,27,957	1,39,697	1,51,837
2. Employment (No.)						
(i) Large & Medium Sector	.. 98,376	1,09,751	1,23,401	1,39,326	1,57,526	1,75,726
(ii) Small Scale Sector	.. 3,33,090	3,72,090	4,13,690	4,57,890	5,04,690	5,54,690
(iii) Village Industries	.. 68,720	78,720	89,120	99,520	1,10,520	1,21,520
Total	.. 5,00,186	5,60,561	6,26,211	6,96,736	7,72,736	8,51,336
3. Production (Cr. Rs.)						
(i) Large & Medium Sector	.. 625.24	736.44	873.33	1,040.15	1,238.76	1,454.70
(ii) Small Scale Sector	.. 653.13	730.07	812.89	901.70	996.60	1,097.68
(iii) Village Industries	.. 16.11	19.00	22.13	25.43	29.06	32.87
Total	.. 1,294.48	1,485.51	1,708.35	1,967.28	2,264.42	2,585.25
4. Investment (Cr. Rs)						
(i) Large & Medium Sector	.. 523.33	575.22	642.74	729.55	840.07	870.73
(ii) Small Scale Sector	.. 237.26	260.73	290.31	322.03	355.92	392.02
(iii) Village Industries	.. 6.16	7.03	7.99	9.02	10.14	11.33
Total	.. 766.75	842.98	941.04	1,060.60	1,206.13	1,274.08
5. Export (Cr. Rs.)						
(i) Large & Medium Sector	.. 35.88	43.76	53.73	66.25	81.68	99.31
(ii) Small Scale Sector	.. 58.74	65.18	72.06	79.37	87.11	95.28
(iii) Village Industries	.. —	—	—	—	—	—
Total	.. 94.62	108.94	1,25.79	145.62	168.79	194.59

Note:—Production Investment & Exports are at constant prices with base 1973-74=100

Sr. 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	Bagrian Shoes Ltd.	Shoes in 1 M pair P.A.	LI : ..Obtained FC : Finalised CG : Cleared FIC : Finalised	1979	End of 1980	332.00	131.00	201.00
2	Malwa Cotton Seed Products Limited. (in collaboration with Pb. Agro. Industries Corp.) Ltd.	Cotton seed processing 100T/Day of cotton seed	LI : N.A. FC : N.A. CG : N.A. FIC : Finalised	1980	Early 1981	154.00	59.00	95.00
3	Pb. Ceramics Ltd.	HT/LT Insulators 4400T P.A.	LI : Obtained FC : Finalised CG : Cleared FIC : Finalised	1979	End of 1980	545.00	202.00	343.00
4	Pb. Fibres Ltd	Cotton Yarn 15000 Spindles	R : Obtained FC : N.A. CG : N.A. FIC : Finalised	1979	End of 1980	481.00	178.00	303.00
5	Malwa Cotton Spinning Mills Ltd.	25,000 Spindles	R : Obtained FC : N.A. CG : N.A. FIC : Finalised	1980	Early 1981	847.00	282.00	565.00
6	Pb. Engineering Cutting Tools Ltd.	25,000 Nos. Broaches 5,000 Nos. Milling Cutters	R : Obtained FC : N.A. CG : N.A. FIC : Finalised	1980	Early 1981	98.00	37.00	61.00
7	Pb. Power Products Ltd.	Power Capacitors 1 lakh KVAR	LI : Obtained FC : Finalised CG : Cleared	1980	1981	102.00	38.32	63.68
8	Pb. Alkalies Ltd.	Caustic Soda 33,000 T.P.A.	LI : Obtained FC : N.A. CG : Cleared	1980	1983	2300.00	800.00	1500.00
9	ABP Circuit Breakers Ltd.	Mini Circuit Breakers 8 lakh Nos.	LI : N.A. FC : Finalised CG : To be cleared	1980	1981	30.00	15.00	15.00
10	Pb. National Fertilizers & Chemicals Limited	Soda Ash 6000 T P.A. Ammonium Chloride 60000 T.P.A.	LI : Obtained FC : N.A. CG : Obtained FCI : Finalised	1980	1983	4000.00	1150.00	2850.00
11	Furfural	3000 T.P.A.	LI : Obtained FC : Finalised CG : Application filed FIC : Finalised	1980	1982	300.00	120.00	180.00
12	Trinity Textiles Limited	50,000 Spindles (First Phase with 25,000 spindles)	R : Obtained FC : N.A. CG : N.A. FIC : Finalised	1980	1983	800.00	300.00	500.00

PUNJAB STATE INDUSTRIAL DEVELOPMENT CORPORATION LTD.

Annexure III

TO BE UNDERTAKEN

(Rs in lakhs)

Name of the Collaborator	If Joint Sector	Extent of participation	Equity to be provided by Govt.) (PSIDC)	Equity Capital Contribution by Govt.						Employment details		
				Upto 1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	Total Five Year Plan 1980-85	During Construction	During Operation
	10	11	12	13	14	15	16	17	18	19	20	21
Sh. Sikandar Singh Bhayee		25%	30.33	18.75	11.58	—	—	—	—	11.58	300	610
Public Sector	..	50%	22.00	18.00	4.00	—	—	—	—	4.00	40	80
M/s Continental Construction Pvt. Ltd.		25%	48.62	31.86	16.76	—	—	—	—	16.76	100	230
Shri Padam Kumar Jain		25%	42.91	38.00	4.91	—	—	—	—	4.91	300	620
M/s Oswal Woollen Mills Limited		25%	69.42	50.00	19.42	—	—	—	—	19.42	500	1036
S. Jasbir Singh Dhillon		50%	12.00	1.51	10.49	—	—	—	—	10.49	75	104
Public Sector		N.A.	24.50	6.01	18.49	—	—	—	—	18.49	50	98
Public Sector	..	N.A.	400.00	16.00	200.00	184.00	—	—	—	384.00	200	400
M/s Abrol Engg. Co.		50%	7.50	0.01	7.49	—	—	—	—	7.49	75	150
M/s PNB Finance Ltd.		25%	410.00	28.75	200.00	181.25	—	—	—	381.25	300	600
Mr. C. L. Anand	..	25%	30.00	—	5.00	15.00	10.00	—	—	30.00	1500	3000
M/s OCM Ltd.	..	41%	30.00	—	15.00	15.00	—	—	—	30.00	1000	2000

Sr. 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
13.	Polyester Fibres	12,000 T.P.A.	LI : Obtained FC : Being Finalised CG : Being App. for FIC : Finalised	1980	1984	4,000.00	1,150.00	2,850.00
14.	Portable Electric Tools	33500 Nos.	LI : Obtained FC : Being finalised CG : To be applied for FIC : Finalised	1980	1982	120.00	48.00	72.00
15.	Pb. Tyres Limited	Tyres & Tubes 5 lac. Nos. each P.A.	LI : Obtained CG : Cleared FC : Not finalised FIC : Not Finalised	1981	1984	6,000.00	1,700.00	4,300.00
16.	Industrial Chains	1 M. Mtrs.	LI : Obtained FC : Not yet CG : Not yet FIC : Finalised	1981	1982	150.00	55.00	95.00
17.	Spinning Mill Bhatinda	25,000 Spindles	R : Obtained FC : N.A. CG : N.A. FIC : Finalised	1982	1983	800.00	300.00	500.00
18.	Mini Computers		R : Obtained FC : Not yet CG : Not yet		1982	86.50	35.00	51.50
19.	Industrial Sewing Machines		LI : Obtained FC : Not yet CG : Not yet FIC : Not yet		1983	150.00	40.00	110.00
20.	Nylon-6 Filament Yarn	2,100 T.P.A.	LI : Obtained F.C. : N.A. CG : Applied for FIC : To be decided	1981	1984	2,200.00	735.00	1,465.00
21.	Cellular Concrete	500 Cubic Metres per day	LI : N.A FC : Not yet CG : Not yet FIC : Not yet	1981	1984	1,000.00	350.00	650.00
22.	Axle Shafts	5 Lakh Nos.	LI : Obtained FC : Not Finalised CG : To be applied for FIC : Being Finalised	1981	1982	175.00	70.00	105.00
23.	Relays & Watches	1 M. Pes	LI : Obtained FC : Not yet CG : Not yet FIC : Not yet	1981	1982	100.00	37.00	63.00
24.	Industrial Alcohol	20 KL/Day	LI : Obtained F.C. : N.A. CG : N.A. FIC : N.A.	1981	1982	100.00	30.00	70.00

PUNJAB STATE INDUSTRIAL DEVELOPMENT CORPORATION LTD.

TO BE UNDERTAKEN

If Joint Sector		Equity Capital Contributions by Govt.							Employment details		
Name of the Collaborator	Extent of participation	Equity to be provided by Govt PSIDC	Upto 1978-80	1980-81	1981-82	1982-83	1983-84	1984-85	Total Five Year Plan 1980-85	During construction	During Operation
10	11	12	13	14	15	16	17	18	19	20	21
M/s Gangeshwar Ltd.	25%	356.80	—	5.00	100.00	150.00	101.80	—	356.80	300	600
Sh. A. N. Goenka	25%	13.00	—	2.00	11.00	—	—	—	13.00	100	150
Not decided	25%	458.82	5.50	5.50	115.00	200.00	100.00	33.32	453.32	1000	2000
Sh. R. K. Saboo	90%	5.50	—	5.50	—	—	—	—	5.50	150	250
M/s Mehta Industries Limited	25%	70.00	—	10.00	30.00	30.00	—	—	70.00	1000	3000
Public Sector	—	35.00	—	5.00	15.00	10.00	—	—	35.00	50	100
Not decided	50%	20.00	—	5.00	15.00	—	—	—	20.00	75	100
Not decided	25%	191.00	—	—	—	—	—	—	—	250	500
Ditto	25%	91.00	—	—	—	—	—	—	—	250	500
Ditto	N.A.	17.50	—	—	—	—	—	—	—	100	150
Ditto	50%	18.50	—	—	—	—	—	—	—	100	150
Public Sector	N.A.	30.00	—	—	—	—	—	—	—	100	150

PROJECTS UNDERTAKEN/

Sr. 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	
25	Pb. Pure Glass Industries Limited	Glass Bottles 12,000 T.P.A.	LI : Obtained FC : N.A. CGs : Obtained FIC : Finalised	1981	1982	290.00	106.00	184.00	
26	Clutch Facings	32 lakhs No. PA	LI Obtained F.C To be Finalised CG : To be finalised FIC Not Finalised	1982	1983	192.00	70.00	122.00	
27	Electronic Wrist Watches	1 lakh Nos.	R : Obtained FC Not yet CG : Not yet FIC : Not yet	1981	1982	20.00	8.00	12.00	
28	Spinning Mill	50,000 Spindles	R : Obtained FC :N. A. CG : N.A. FIC : Not finalised			800.00	300.00	500.00	
29	Woollen Yarn, Amritsar		R : Obtained FC : Not Yet CG : Not Yet FIC : Not yet			100.00	37.00	63.00	
30	Pharmaceuticals Complex (Caffein etc.)		R : Obtained FC Not yet CG : Not yet FIC Not yet			100.00	37.00	63.00	
31	Sewing Machine Needles		LI : N.A. FC : Being Finalised CG : To be applied for FIC : Not yet			295.00	108.00	187.00	
32	Projects for which letters of Intent/Industrial Licences/Registration have been applied for								
33	Investment in assisted companies								
34	Improvement & Finance Division								

Note :

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

PUNJAB STATE INDUSTRIAL DEVELOPMENT CORPORATION LTD.

Annexure—III

TO BE UNDERTAKEN

(Rs. in lakhs)

If Joint Sector	Equity Capital Contributions by Govt.									Employment details		
	Name of the Collaborator	Extent of participation	Equity to be provided by Govt.	Upto 1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	Total Five Year Plan 1980-86	During cons-tions	During Operation
	10	11	12	13	14	15	16	17	18	19	20	21
M/s Pure Glass Drinks New Delhi	25%		28.00	5.26	49.36	68.75	150.00	298.20	516.68	1082.99	150	250
Not decided	50%		35.00								100	150
Public Sector			8.00								50	100
Not decided	25%		70.00								1000	2000
Not decided	50%		18.50									
Not decided	50%		18.50									
Not decided	25%		29.00									
Copper Foils, Commercial vehicles, Diamond Wheels & Tools Fuel Injection Equipments, HP Gas Cylinder Bearing Project, Phosphamidon, Phenyl Butazone, and Oxypheyl Butazone PVC Project, XLPE Power Cables and PVC Power Cables, Tele-communication Cables, Silver Guide Batters, worsted Spinning Unit)												
					50.00	50.00	50.00	50.00	50.00	250.00		
					50.00	50.00	50.00	100.00	100.00	350.00		
					*700.00	*850.00	650.00	650.00	700.00	3550.00*		

The requirement for the balance funds would be met with spill over funds from the allocation for the earlier years and funds expected to be available from other sources.

A—INDUSTRIAL AREAS UNDER DEVELOPMENT

		Total Programme				
Sr. No.	Location	Land to be developed Acres	No. of plots	Estimated cost	Date of Start	Expected date of completion
1	2	3	4	5	6	7
1	S.A.S. Nagar	1445	880		67-68	Continuing Process
2	Dhandri Kalan	1307	970		67-68	Ditto
3	Rajpura	178	127		67-68	Ditto
4	Hoshiarpur	102	78		73-74	Ditto
5	Khanna	106	115		—	Ditto
6	Moga	208	300		75-76	Ditto
7	Kotkapura	53·80	109		—	Ditto
8	Bhatinda	191	200		76-77	Ditto
9	Nawanshahr	51	100		—	Ditto
10	Sangrur	60	133		—	Ditto
11	Nabha	—	—		—	—
12	Tarn Taran	51	98		—	Continuing Process
13	Jullundur	564	750		76-77	Ditto
14	Batala	204	300		75-76	Ditto
15	Ahmedgarh	70	140		80-81	Ditto
16	Amritsar	100	200		79-80	Ditto
17	Malerkotla	200	200		80-81	Ditto
18	Phagwara	100	200		81-82	Ditto
19	Goraya/Phillaur	150	200		81-82	Ditto
		5140·80	5100			

DEVELOPMENT/PROPOSED TO BE TAKEN UP DURING 1981-82 AND SIXTH PLAN 1980-85

Anticipated programme up to the end of 1981-82			Programme for Annual Plan 1981-82 land to be acquired (Acres)			Programme for Sixth Plan 1980-85				
Land acquired	Land Developed	Exp. (Rs loan)	Land to be acquired	Land to developed	No. of plots to be allotted	Outlay proposed	Land to be acquired	Land to be developed	No. of plots to be allotted	Outlay proposed (Rs in lakhs)
8	9	10	11	12	13	14	15	16	17	18
1298	1245	N.A.	—	—	—	—	1498	1445	800	—
1383	1007	N.A.	150	150	100	—	1533	1307	900	—
178	178	N.A.	—	—	—	—	178	178	127	—
102	102	—	—	—	—	—	102	102	78	—
106	105	—	—	—	—	—	106	106	115	—
108	100	—	—	—	—	—	208	208	300	—
53·80	53·80	—	—	—	—	—	53·80	53·80	109	—
91	91	—	—	—	—	—	191	191	200	—
51	51	—	—	—	—	—	51	51	100	—
60	60	—	—	—	—	—	60	60	133	—
52	—	—	—	—	—	—	52	—	—	—
51	51	—	—	—	—	—	51	51	98	—
331	231	—	—	—	—	—	564	564	700	—
104	104	—	—	—	—	—	204	204	300	—
—	—	—	70	70	140	—	70	70	140	—
100	50	—	—	—	—	—	300	100	200	—
—	—	—	—	—	—	—	200	200	200	—
—	—	—	—	—	—	—	150	100	200	—
—	—	—	150	100	150	—	300	150	200	—
4068·80	3428·80	—	370	320	390	—	5871·80	5140·80	4900	—

ANNEXURE V

ANNUAL PLAN 1980-81 AND SIXTH PLAN 1980-85

B. Industrial Areas Already Developed

Sr. No.	Location	Area developed	Total cost (Rs lakhs)	No. of plots developed	Utilisation of plots (Nos.)				Remarks
					Allotted	Unoccupied	Industrial units in production	Employment of persons	
1	2	3	4	5	6	7	8	9	10
1	SAS Nagar	.. 1195	N.A.	438	438	—	95	3500	—
2	Dhandhari Kalan	.. 1007		369	369	—	90	3000	—
3	Rajpura	.. 178		127	127	—	35	1800	—
4	Hoshiarpur	.. 102		78	40	38	4	260	—
5	Khanna	.. 105		115	35	80	—	—	—
6	Moga	.. 100		214	214	—	—	—	—
7	Kotkapura	.. 53.80		109	50	59	—	—	—
8	Bhatinda	.. 91		104	38	66	—	—	—
9	Nawanshahr	.. 51		100	40	60	—	—	—
10	Sangrur	.. 60		133	40	93	—	—	—
11	Nabha	.. —		—	—	—	—	—	—
12	Tarn Taran	.. 51		98	53	45	—	—	—
13	Jullundur	.. 105		155	155	—	1	15	—
14	Batala	.. 104		94	—	94	—	—	—
		3202.80		2134	1599	535	225	8575	—

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. Plan programmes in respect of each of these items are discussed below separately.

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. During the Fourth Five-Year Plan an expenditure of Rs. 49.48 crores was incurred on roads. The total road length including National Highways in the State was increased from 7,278 Kms. as on 31st March, 1969 to 23222 Kms. as on 31st March, 1974. During 1974—79, a sum of Rs. 54.94 crores was incurred on this programme. Main achievements of road kilometerage of different kinds of roads at the end of Fourth Plan and at the end of 1978-79 are as under :

Serial No.	Item	(Kms.)	
		Position 1973-74	Position 1978-79
1	2	3	4
1	National Highways	964	964
2	State Highways	1,862	1,900
3	Major District Roads	2,076	2,100
4	Other District Roads	2,335	2,379
5	Village Roads	15,985	23,520
Total		23,222	30,863

10.3. In the Annual Plan 1979-80, an expenditure of Rs. 15.31 crores was incurred on this

programme and during this period 515 Kms. of link roads were constructed. The number of villages not connected by roads, which stood at 652 at the end of 1978-79 was reduced to 364 as on 31st March, 1980 by connecting 288 villages during 1979-80. Besides, 9 Kms. of plan roads were also constructed.

Sixth Five-year Plan

10.4. An outlay of Rs. 70.15 crores has been proposed for 1980—85 for this sub-head. The programme includes widening and strengthening of existing roads, construction of bridges, construction of rural roads, improvement of roads within Municipal Committee limits and construction of bye-passes to enable smooth and uninterrupted flow of through traffic.

Annual Plan 1981-82

10.5. An outlay of Rs. 13.00 crores has been proposed for 1981-82. The main programme/schemes under this sub-head proposed to be implemented are discussed below :

Main Roads and Missing links

10.6. Most of the main roads which were taken up during the Fourth Plan are nearing completion. Against spill over requirements of Rs 120.00 lakhs as on 1st April, 1980, a sum of Rs. 50.00 lakhs is proposed for this scheme for 1981-82, against a provision of Rs. 75.00 lakhs during the current year. It is anticipated that all the missing links under this scheme will be completed by the end of 1981-82.

Improvement, widening and providing additional crust on existing roads

10.7. There has been a sharp increase in the goods and passenger traffic on State Highways, District and other roads. High priority has, therefore, been accorded to the improvement of existing roads during the Sixth Plan. Under this scheme road side amenities viz. parking places for vehicles along important roads at suitable places

and covered space for drivers for rest will also be provided. An outlay of Rs.400.00 lakhs has been proposed for 1981-82.

Arboriculture and land scaping of roads

10.8. It is proposed to beautify roads by land scaping with ornamental trees and shrubs. A sum of Rs. 5.00 lakhs is proposed to be spent in 1981-82.

Village Roads

10.9. On 1st April, 1980, 364 villages were left unlinked with roads. The links require construction of 736 Kms. of road length. A sum of Rs. 375.00 lakhs has been provided during 1980-81. It is anticipated that 375 Kms. of road length will be added to the village road net work giving metalled links to 173 villages. For 1981-82, a sum of Rs. 410.00 lakhs has been proposed for carrying out this programme.

Zila Parishad Road

10.10. Zila Parishad roads had been taken over by the State Government. Under this programme, provision is made to bring these roads up to the P.W.D. standard. A sum of Rs. 20.00 lakhs is proposed for 1981-82.

Bridges

10.11. It is proposed to construct bridges on important roads so that these may be used in all types of weather. A provision of Rs. 200.00 lakhs has been proposed for 1981-82 to carry out the spill-over works.

Central Road Fund

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 programme approved by the Ministry of Transport, Government of India. A sum of Rs. 60.00 lakhs has been proposed for 1981-82 for carrying out the on-going works.

Improvement of Roads within Municipal Committee Limits

10.13. The stretches of main roads passing through the Municipal limits need widening and improvement. Under this scheme such stretches are being widened/improved in the important cities of Punjab. A sum of Rs. 50.00 lakhs is proposed for 1981-82 for carrying out the on-going programme.

Machinery and Equipment

10.14. In order to cope with the enlarged road building activities and consequent maintenance programme, a sum of Rs. 50.00 lakhs is proposed to be spent in 1981-82 for the purchase/replacement of machinery.

Bye-passes

10.15. The growth of internal traffic in a number of towns has created traffic hazard. In order that traffic flows smoothly and un-interruptedly and in order that the growing incidence of accidents is curbed, bye passes are being provided. A sum of Rs. 50.00 lakhs has been proposed for 1981-82 for implementation of this programme.

Research and Development

10.16. Under this scheme a laboratory is being set up to evolve new and cheaper techniques of road construction. It will also help in introducing quality control in road construction. A sum of Rs. 5.00 lakhs is being provided in 1981-82 for this programme.

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 in the ratio of 60:40. In the Plan, the provision has been made only for the two public sector undertakings. Their urgent requirements during the Sixth Plan include construction of additional depots so as to maintain the norm of 100 buses per depot, replacement of old buses, addition to the fleet, and provision of workshop facilities. The outlays proposed for 1981-82 and 1980-85 for the two undertakings are given below :—

(Rs. in lakhs)

	1981-82	1980-85
1. Punjab Roadways ..	495.00	2975.00
2. P.R.T.C. ..	305.00	1025.00
Total ..	800.00	4000.00

The Punjab Roadways, being a departmental undertaking, has no access to institutional source of finance. Its financial requirements have to be met entirely from the State Plan.

Punjab Roadways

10.18. During 1974—79, an expenditure of Rs 2037.04 lakhs was incurred by the Punjab Roadways and 575 buses were added to the fleet. Besides, 846 buses were purchased for replacement of old buses. In the Annual Plan 1979-80, the expenditure incurred was Rs 551.67 lakhs. The Punjab Roadways had added 90 buses to its fleet besides replacement of 200 buses.

10.19. A provision of Rs 2975.00 lakhs and Rs 495.00 lakhs has been proposed for 1980—85 and 1981-82, respectively.

10.20. The proposed outlays for the implementation of the development programme are given below :—

(Rs in lakhs)

Serial No.	Item	(Rs in lakhs)	
		1981-82	1980—85
1	Land and Building ..	30.00	178.00
2	Acquisition of fleet—		
	(i) Addition ..	200.00	1154.00
	(ii) Replacement ..	260.00	1609.00
3	Workshop facilities	3.50	25.50
4	Other Expenditure ..	1.50	8.50
	Total ..	495.00	2975.00

10.21. As a result of this investment programme the Punjab Roadways will purchase 511 buses for addition to its fleet during 1980—85 besides replacement of 796 buses. During 1981-82, it proposes to add 100 buses to its fleet. Thus the total number of buses will increase from 2005 at the end of 1980-81 to 2105 at the end of 1981-82. Route Kilometrage operated daily will increase from 4,12,649 Kms. during 1980-81 to 4,31,551 Kms. during 1981-82.

Pepsu Road Transport Corporation (PRTC)

10.22. During 1974—79 the Corporation had spent an amount of Rs 803.49 lakhs out of which the State Government contributed a share capital of Rs. 392.00 lakhs. The total number of buss added to its fleet was 137 besides replacement of 408 buses. During 1979-80, the Corporation had incurred an expenditure of Rs. 372.67 lakhs out of which share capital contribution of the State Government was Rs 157.00 lakhs. The Corporation had purchased 203 buses for expansion programme and for replacement of old buses.

10.23. The P.R.T.C. has proposed an outlay of Rs 3934.42 lakhs for 1980-85 and an outlay of Rs 1029.90 lakh for 1981-82 for implementing its programmes. The share of State Government and Central Government is in the ratio of 2 : 1. The sources of finance for 1981-82 and 1980-85 are given as under :

(Rs. in lakhs)

Sr. No.	Source	1981-82	1980-85
1	State Govt's contribution	305.00	1025.00
2	N. Railway's contribution	152.50	512.50
3	Bank loans ..	572.40	2396.92
	Total ..	1029.90	3934.42

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

(Rs. in lakhs)

Sr. No.	Item	Outlay	
		1981-82	1980—85
1	Acquisition of fleet—		
	(i) Expansion ..	187.70	1478.55
	(ii) Replacement ..	577.20	1530.30
2	Workshop facilities ..	10.00	45.00
3	Others ..	5.00	25.49
4	Land and Building ..	50.00	255.00
5	Payment of interest to State Government..	200.00	600.00
	Total ..	1029.90	3934.42

10.25. As a result of this development programme, the Corporation will add 698 buses to its fleet during 1980—85 besides replacement of 707 buses. During 1981-82, the Corporation will add 89 buses to its fleet. Route kilometreage operated daily will increase from 2,68,521 Kms. during 1980-81 to 3,18,507 Kms. during 1981-82.

CIVIL AVIATION

10.26. 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 Government, though 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 aircrafts (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. Gliding centres are working at all the Aviation Clubs. During 1974—79 a sum of Rs 61.49 lakhs was incurred on this programme.

10.27. In 1979-80, an expenditure of Rs. 13.07 lakhs was incurred. The outlays proposed for the Sixth Five Year Plan and Annual Plan 1981-82 are Rs 70.00 lakhs and Rs 14.00 lakhs' respectively.

The provision has been made for the following on-going programmes :—

(i) *Establishment of Aircraft Maintenance Engineering School.*—The school is being set up at Patiala. It will admit the school leavers for 3 year diploma course in aircraft [maintenance. A sum of Rs. 7.00 lakhs has been proposed for 1981-82 against a provision of Rs 8.00 lakhs during the current year.

(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. A sum of Rs 1.00 lakhs has been proposed for 1981-82 against a provision of Rs. 2.50 lakhs during 1980-81.

(iii) *Purchase of Machinery.*—It includes provision for the replacement of Pushpak aircrafts/spares. A sum of Rs 6.00 lakhs has been proposed for 1981-82.

TOURISM

10.28. The Punjab State Tourism Development Corporation was set up on 26th March, 1979 with an authorised capital of Rs. 5.00 crores. A sum of Rs. 95.00 lakhs has already been released to the Corporation by way of share capital contribution, besides the transfer of existing assets tentatively valued at Rs. 150.00 lakhs. A provision of Rs. 255.00 lakhs is being proposed for the Sixth Five-Year Plan. For 1981-82, a provision of Rs. 45.00 lakhs is proposed to be made. 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

The General Education Plan covers :

- (i) School Education.
- (ii) College & University Education.
- (iii) Other Programmes.

11.2. Of the total provision of Rs. 53.00 crores for General Education in the Sixth Plan 1980—85, a sum of Rs. 37.92 crores i.e. about three fourth of the total is for the School Education. In the annual plan 1981-82, a sum of Rs. 7.95 crores has been provided for School Education out of the provision of Rs. 10.45 crores for the sub-head as a whole. The distribution of the outlay for Sixth Five-Year Plan (1980—85) and Annual Plan 1981-82 among the various Departments covered under this sub-head is as under :

(Rs. in lakhs)

Sr. No.	Item	Proposed outlay 1981-82	Proposed outlay 1980—85
1	School Education ..	794.50	3792.00
2	College & University Education ..	162.00	900.00
3	Languages (including Promotion of Regional Languages) ..	18.35	103.00
4	Sports ..	35.00	230.00
5	Youth Services (including N.S.S.) ..	14.65	76.75
6	Archaeology and Museum ..	13.00	63.00
7	Promotion of Art & Culture ..	5.00	90.25
8	Archives ..	0.50	5.00
9	Setting up of International Children Home at Chhatbir Complex	2.00	40.00
Total	..	1045.00	5300.00

11.3. During the Sixth Five-Year Plan (1980—85) and the Annual Plan 1981-82 main stress will be on (i) maintenance and improvement of existing educational facilities at the elementary, high/hr. sec./& university levels, (ii) non-formal education, (iii) adult education, (iv) strengthening of administration and supervision.

Primary School Education :

Expansion of Educational facilities in the age-group 6—11 :

11.4. There is a primary school in every inhabited village of the State. Thus the target of universalisation of primary education has already been achieved. In order to cater to the educational needs of new townships/colonies/habitations, 50 single Teacher Primary Schools are proposed to be set up, at an estimated cost of Rs 15.39 lakhs during the Sixth Plan (1980—85). A sum of Rs. 1.45 lakhs has been provided in the Annual Plan 1981-82 for 10 such schools.

11.5. Though every village has been provided with a primary school, many of them are still without school buildings. The number of such schools is reported to be 2,451. Quite a sizeable number of these are housed in dharamshalas/gurdwaras and temples. It is, therefore, considered absolutely essential to tackle this problem on a priority basis. A sum of Rs. 510.00 lakhs has been provided in the Sixth Five-Year Plan (1980—85) to meet this problem in a phased manner. In the Annual Plan 1981-82 a sum of Rs. 110.00 lakhs has been provided for this purpose. In 1980-81, the outlay for school buildings has been enhanced from Rs. 10.00 lakhs to Rs. 1.10 crore.

11.6. A separate Directorate of Primary Education has been functioning in this State since 1978. The primary Departments have been detached from the middle, and high/higher Secondary schools and put under the charge of this

Directorate. For proper administration and supervision of these schools, it is essential to provide additional staff. In terms of the norms of 50 schools per BPEO, the Department is short of 66 BPEO's. A sum of Rs. 70.15 lakhs has been provided in the Sixth Five-Year Plan and a sum of Rs. 15.25 lakhs in the Annual Plan 1981-82 for this purpose.

Middle School Education :

11.7. Enrolment in the primary schools has been pushed up to 112.64% in the age-group 6—11. During the Sixth Plan more emphasis will be laid on increasing enrolment in the age-group 11—14. The target is to increase the enrolment from 661 thousands to 910 thousands, thus raising the coverage from 58.56% to 82.43% in this age-group.

11.8. Adequate provision has been made for the posts of P.T.Is. and the additional posts of masters/mistresses needed on account of the upgradation of schools. There is a high percentage of drop-outs in the age-group 11—14. There are also others, who cannot join regular classes for economic reasons. Efforts are being made to induce the maximum number of children to join non-formal education, after school hours. A provision of Rs. 15.00 lakhs has been made in the Sixth Five-Year Plan (1980—85) and Rs. 3.00 lakhs in the Annual Plan 1981-82 for this purpose.

11.9. At the instance of Government of India, the State Government has decided to start institutions for the physically handicapped children. Expenditure on these institutions will be on a sharing basis. For this purpose a provision of Rs. 12.72 lakhs (State share) has been made in the Sixth Five-Year Plan (1980—85) and Rs. 2.17 lakhs in the Annual Plan (1981-82).

11.10. A sum of Rs. 18.00 lakhs has been provided in the Annual Plan 1981-82 for the spill over requirements in respect of the school buildings under construction. Remaining funds if any will be provided during the course of the Sixth Plan.

Secondary Education :

11.11. The most important programme is the upgradation of middle schools to high standard.

On account of the persistent demand from the rural community, 150 middle schools have been upgraded to high schools during 1980-81. For the continuation of the programmes of upgradation already implemented upto 1980-81 a provision of Rs. 750.18 lakhs has been made during the Sixth Five-Year Plan. In 1981-82, a sum of Rs. 173.67 lakhs has been provided for this purpose. A sum of Rs. 159.36 lakhs in the Sixth Plan and Rs. 4.72 lakhs in the Annual Plan 1981-82 has been provided for expansion of existing buildings, etc.

Vocationalisation of Education at Secondary Stage :

11.12. The programme for qualitative improvements includes vocationalisation of education. Under this programme children are provided opportunities to work with their own hands and thus develop in the greater awareness of their environment. This programme has already been introduced in 50 higher secondary schools and has been found useful. Another 100 additional schools have been covered during the year 1980-81. To continue this programme, a sum of Rs. 254.21 lakhs has been proposed during the Sixth Five-Year Plan (1980—85) and a sum of Rs. 41.37 lakhs for the Annual Plan 1981-82.

Teachers Education :

11.13. In service training centres for teachers have been established at Jullundur, Patiala and Ferozepur. A provision of Rs. 50.00 lakhs has been made for Sixth Five-Year Plan (1980—85) and Rs. 10.00 lakhs for the Annual Plan 1981-82 for paying the TA/DA to the teachers who are called for training.

Setting up of SCERT :

11.14. It is proposed to set up a State Council of Educational Research & Training, for proper development of educational research and training and coordinating the activities of various research and training institutions. A provision of Rs. 20.50 lakhs has been made for the Sixth Five-Year Plan (1980—85) and Rs. 3.50 lakhs for the Annual Plan 1981-82 for this institution.

Adult Education :

11.15. It is proposed to set up 10 projects of 100 centres each for eradicating illiteracy among

the 15—35 age-group population. Total provision for the programme is Rs. 100.00 lakhs for 1980—85 and Rs. 20.60 lakhs for the Annual Plan 1981-82.

Physical Education, Games and Sports :

11.16. Physical education and sports have been made compulsory in schools. For the development of budding sports-men and sports-women, sports wings have been attached to several high/higher secondary schools. In order to provide sports-men with opportunities of training for competitions and the development of their skills, a sum of Rs. 131.34 lakhs has been provided for 1980—85 and Rs. 24.72 lakhs for 1981-82.

Administration and Supervision :

11.17. The Department disburses grant-in-aid to private institutions. But there has been no effective supervision of the accounts maintained by them. It is proposed to provide one post of Assistant Accounts Officer with necessary supporting staff in each district and at the headquarters so that necessary supervision of accounts may be ensured. For this purpose a sum of Rs. 20.14 lakhs for Sixth Five Year Plan (1980—85) and Rs. 3.67 lakhs for the Annual Plan 1981-82 has been proposed.

College and University Education :

11.18. As the maintenance of the service records of the gazetted officers, has been transferred to the respective Departments. Directorate of colleges is required to handle additional work in respect of as many as 1885 gazetted officers under its control. An outlay of Rs. 18.50 lakhs for the Sixth Plan and Rs. 2.25 lakhs for Annual Plan 1981-82 has been proposed for this purpose. Planning Machinery of the Directorate will be strengthened at a cost of Rs. 3.50 lakhs in the Sixth Plan.

Grant-in-aid to Universities :

11.19. A sum of Rs. 275.00 lakhs has been proposed for grant-in-aid to Guru Nanak Dev University, Amritsar, the Punjabi University, Patiala and the Punjab Agriculture University, Ludhiana on account of the chairs established by these Universities and for running the vocational courses, which have been started at the instance

of the Government. This provision also includes grant to the universities at Amritsar and Patiala for the construction of buildings.

Expansion of facilities :

11.20. Under this programme it is proposed to establish two new colleges. Sports Wings will also be added to two colleges every year during the sixth Plan period. While one college will be opened at S. A. S. Nagar, the other college is expected to be located in the backward area of the state. A provision of Rs. 191.50 lakh for 1980—85 and Rs. 41.85 lakhs for 1981-82 has been proposed.

Improvement of Existing Colleges :

11.21. An outlay of Rs. 263.00 lakhs has been proposed for the improvement of existing Government Colleges during the Sixth Plan period. A sum of Rs. 47.00 lakhs has been suggested for the Annual Plan 1981-82 against the approved outlay of Rs. 43.45 lakhs for 1980-81.

Development of College Education under U.G.C. sharing scheme :

11.22. A sum of Rs. 37.00 lakhs has been proposed for the Sixth Five Year Plan and a sum of Rs. 8.00 lakhs has been earmarked for 1981-82 against the outlay of Rs. 5.00 lakhs for 1980-81.

Opening of Careers Wings in Government Colleges:

11.23. This is a new scheme, which is being introduced from 1981-82. to provide proper coaching to the talented students for different competitions. A token provision of Rs. 2.00 lakhs has been suggested for Annual Plan 1981-82.

Students Welfare :

11.24. Keeping the students amenities in view, a sum of Rs. 25.50 lakhs with a capital component of Rs. 14.00 lakhs has been proposed for Hostels for Government Colleges in Sixth Five Year Plan. A sum of Rs. 3.75 lakhs has been proposed for Annual Plan 1981-82 against the approved outlay of Rs. 5.50 lakhs for 1980-81. For State Merit Scholarships, there is a provision of Rs. 25.00 lakhs in the Sixth Five Year Plan (1980—85) which includes a sum of Rs. 5.00 lakhs for 1981-82.

Establishment and strengthening of District Libraries :

11.25. A sum of Rs. 37.00 lakhs with a capital component of Rs. 5.00 lakhs has been proposed for Sixth Five Year Plan. It is proposed to establish one new District Library during 1981-82. A sum of Rs. 3.50 lakhs has been provided in 1981-82.

Other Programme :

11.26. The other programmes pertain to a variety of subjects such as promotion of Arts and Culture, Development of Indian Languages, Youth Services and the National Services Scheme (NSS) Sports and Games, Archives, Archaeology and Museum.

Development of Languages :

11.27. (i) A sum of Rs. 68.38 lakhs has been proposed for the development of languages in the Sixth Five Year Plan (1980—85). A provision of Rs. 12.31 lakhs has been proposed for the Annual Plan 1981-82 against the outlay of Rs. 10.00 lakhs for 1980-81. The programme includes (i) Development of Punjabi, Hindi and Urdu languages, (ii) Literary Centre at Delhi, (iii) Mobile-Van-cum-Sale Exhibition, (vi) Rapport with Punjabi Writers/Literary Associations outside Punjab.

(ii) The entire expenditure on administration of the Punjab University Text Book Board is met by the State. For this purpose a sum of Rs. 44.62 lakhs has been provided in the Sixth Plan and Rs. 6.04 lakhs for the Annual Plan 1981-82.

N.S.S. and Youth Services :

11.28. The National Services Scheme (NSS) is a Centrally Sponsored Scheme. It aims at education through community service. Grant-in-aid is given to the universities in the State at the rate of Rs. 60/- per student activist/camper. The expenditure is shared between the centre and the State in the ratio of 7 : 5. A sum of Rs. 45.85 lakhs in the Sixth Five Year Plan and a sum of Rs. 8.75 lakhs for the Annual Plan 1981-82 has been provided as the State share.

11.29. Director Youth Services has several other programmes which are detailed below :—

- (i) Punjab Inter-University Youth Festival.
- (ii) Teachers Training Camp.
- (iii) Youth Leadership Training Camp.
- (iv) Hiking and Trekking.
- (v) Grant-in-aid to village Youth Clubs.
- (vi) Inter State Tours.
- (vii) Grant-in-aid to College Youth Club.

For these programmes a sum of Rs. 30.90 lakhs for the Sixth Five Year Plan and Rs. 5.90 lakhs for 1981-82 has been provided.

Sports :

11.30. Punjab is a leading State in the matter of sports. A sum of Rs. 230.00 lakhs has been proposed for the Sixth Five Year Plan. A sum of Rs. 35.00 lakhs is being set aside for 1981-82, which is at the level of the outlay of 1980-81. Provision has been made for (i) Coaching schemes, (ii) competition scheme, (iii) scholarships, (iv) purchase of sports equipment, (v) State Sports Academy, (vi) sports hostels, (vii) construction of complexes.

Archives :

11.31. A sum of Rs. 5.00 lakhs has been provided for the Sixth Five Year Plan 1980—85. This sum also includes provision for the establishment of a repository at the State Capital to manage and preserve the old record on archival lines. A sum of Rs. 0.50 lakh has been provided for 1981-82.

Archaeology and Museum :

11.32. A sum of Rs. 63.00 lakhs has been proposed in the Sixth Plan for archaeology and museum. An outlay of Rs. 13.00 lakhs has been proposed for 1981-82 against the approved outlay of Rs. 6.80 lakhs for 1980-81. The programmes include : (i) Conservation of Ancient and Historical Monuments, (ii) Archaeological Operations—excavations and explorations, (iii) Display Equipment for Museums/Galleries-including purchase of Art objects, (iv) Opening of New Museums, (v) Development of State Archaeological Library, (vi) Publication of Archaeological Reports, (vii) Land scaping/Beautification around monuments, (viii) Strengthening of Archaeology & Museums

Department, Administrative & Technical Staff. (ix) Equipment and Machinery, (x) Cannon Park shed, (xi) Transplantation of Paintings, (xii) Setting up of an Archaeological Laboratory.

Promotion of Art and Culture :

11-33. A sum of Rs. 90.25 lakhs has been provided in the Sixth Five Year Plan for the promotion of arts and culture in the State. Outlay for 1981-82 is proposed at Rs. 5.00 lakhs. A token provision of Rs. 0.05 lakh has also been made for setting up of Punjabi Culture Centre, Delhi in the Annual Plan 1981-82.

Chhatbir Complex :

11-34. During the Sixth Five Year Plan, a sum of Rs. 40.00 lakhs has been provided for setting up of International Children Home at Chhatbir. A sum of Rs. 2.00 lakhs has been provided in the Annual Plan 1981-82.

TECHNICAL EDUCATION

11-35. The field of technical education, in common parlance, covers education in various engineering trades upto graduate and post-graduate levels as well as middle level supervisors as Diploma holders so as to create technical personnel duly trained to meet the demand of industry. All India Council for Technical Education has laid down that the supply of Technical manpower should be increased by diversification of the existing courses within the approved annual intake and the new courses should be based on the well established and well defined manpower needs.

11-36. Technical Education in the State has to keep pace with the requirements of technical manpower of both existing and emerging industries and other sections of the economy. Keeping these factors in view, programmes 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-graduate 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 and upgrading of special trades institutions;
- (v) establishment of a new Government Polytechnic at Bhatinda;
- (vi) Opening of one new Government Engineering College.

11-37. Though stress has been laid on the introduction of a number of new courses by diversification within the approved intake capacity, some new courses based on the emerging manpower requirement have also been included. The draft Sixth Five Year Plan envisages an outlay of Rs 450.00 lakhs which includes provision of Rs. 100.00 lakhs for the year 1981-82. The programme-wise details are given below:—

Serial No.	Item	Approved outlay 1980—85	Approved Outlay 1981-82
1	2	3	4
1.	Direction & Administration	5.00	0.50
2.	Non-Government Engineering Colleges	101.20	23.91
3.	Government Engineering Colleges	100.00	20.00
4.	Government Polytechnics	87.00	23.76
5.	Private Polytechnics	75.80	16.48
6.	Industrial Training Schemes	56.00	10.15
7.	Scholarships	1.00	0.30
8.	Faculty Development	3.00	0.70
9.	Other Programmes	21.00	4.20
	Total	450.00	100.00

11-38. The intake capacity at the degree level is proposed to be increased from 360 at the end of 5th Plan (1974--78) to 645 (inclusive 105 for part time degree course) during the Sixth Plan period. Similarly intake capacity of polytechnics is proposed

to be increased from 1255 to 1785 (inclusive of intake of 370 for part-time diploma courses) at the end of 6th Five Year Plan. In order to meet the growing demand it is proposed to start evening classes in (i) Diploma course in Pharmacy at Government Poly. for Women, Jullundur, (ii) Diploma course in Garment Technology at Amritsar. With the introduction of the new courses and starting of evening classes, the intake capacity will increase from 225 to 405 at the end of the Sixth Plan.

11.39. During the Sixth Plan, main stress will be laid on the introduction of new courses by diversification within the approved intake and new courses on the basis of well established and well defined man-power needs. The programme-wise details are as follows :—

Direction and Administration :

11.40. Keeping in view the recommendation of the Govt. of India, for re-organisation of the Directorate of Technical Education, a sum of Rs. 5.00 lakhs has been provided for the sixth Five year plan (1980—85) and a sum of Rs. 0.50 lakhs for the Annual Plan 1981-82.

Engineering Colleges :

11.41. The following new courses will be introduced with a proposed outlay of Rs. 44.00 lakhs during the Sixth Five Year Plan (1980—85):—

- TE 2.1 (a) Diversified Degree Course in Construction Science (Civil Engg.) at Thapar Instt. of Engg. and Tech., Patiala.
 - (b) Diversified Degree Course in Environmental Science (Civil Engg.) at Thapar Instt. of Engg. and Tech. Patiala.
 - (c) Diversified Degree Course in Instrumentation Process Control (Elect. Engg.) at Thapar Instt. of Engg. and Technology, Patiala.
 - (d) Diversified Degree Course in Industrial Design (Mech. Engg.) at Thapar Instt. of Engg. and Tech., Patiala.
 - (e) Diversified Degree Course in Metallurgy (Mech. Engg.) at Thapar Instt. of Engg. and Tech., 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 of Engg. (Sandwich type course) at Guru Nanak Engg. College, Ludhiana.

TE 2.6. Part-time Degree Course in Engg. Colleges.

TE 2.18. Starting of a degree course in Knitting Technology at Guru Nanak Engineering College, Ludhiana.

TE 2.19. Introduction of Research activity and development of Faculty in the Field of Production and Maintenance Engg. at Guru Nanak Engg. College, Ludhiana.

TE 2.20 Specialised Courses and research programmes in collaboration with Industrial Tribology, Machine and Maintenance Engg. Centre (ITMMCC) of Indian Institute of Technology, New Delhi under the modified Q.I.P. at Guru Nanak College, Ludhiana.

11.42. In addition to the above, the following new schemes will also be introduced :—

TE 2.5. Production/Service-cum-Training Centres.

TE 2.7. Revision of Staff Structure.

TE 2.9. Consultancy Service Centres.

TE 2.15. Establishment of Computer Terminal facilities Centre.

10.41. At present, two Non-Govt. Engineering Colleges are functioning, one at Patiala and the other at Ludhiana. To meet the outstanding demand of other districts of the State it is proposed to set up one New Govt. Engineering College, during the Sixth Five Year Plan. For this purpose, a sum of Rs. 100.00 lakhs has been tentatively provided during 1980—85 which includes a sum of Rs. 20.00 lakhs for the Annual Plan 1981-82.

Government Polytechnics :

11.44. The following new courses will be introduced with a proposed outlay of Rs. 64.00 lakhs during the Sixth Five Year Plan :—

TE 3.1 One Year Post Diploma Course in Dairy Engineering at Govt. Polytechnic,

Amritsar (to be converted into 3-years diversified diploma).

TE 3-2. One Year Post Diploma Course in Television Technology at Govt. Polytechnic, Hoshiarpur (to be converted into 3-years diversified diploma).

TE 3-3. One Year Post Diploma Course in Heat Treatment at Government Polytechnic, Batala (to be converted into 3-years diversified diploma).

TE 3-9. Setting up of Government Polytechnic at Bhatinda.

TE 3-15. Sandwich type four year Diploma course in new discipline i.e. not covered so far (Timber Technology at Hoshiarpur).

11-45. In addition to above, the following new schemes will be introduced :—

TE 3-7. Production-cum-Training Centre at Government Polytechnic, Amritsar.

TE 3-8. Service-cum-Training at Government Polytechnic, Batala.

TE 3-11 Revision of Staff structure.

11-46. It is also proposed to set up a Government Polytechnic at Bhatinda. A sum of Rs. 60.00 lakh tentatively has been provided during the sixth five year plan which includes a sum of Rs. 20.00 lakhs for the Annual Plan 1981-82.

Private Polytechnics :

11-47. The following new courses will be introduced during the Sixth Five Year Plan with a proposed outlay of Rs. 53.80 lakhs :—

TE 4-1 Advance level Diploma Course in Printing Science Tech. at Thapar Poly. Patiala.

TE 4-3. Diversified Three Year Diploma Course in Plastic and Rubber Tech. at Guru Nanak Poly. Ludhiana.

TE 4-4 Diversified Three Year Diploma Course in Tool and Die making Technology at Guru Nanak Polytechnic, Ludhiana.

TE 4-5 One Year Post Diploma Course in

Electronics at Mehrchand Poly. Jullundur (to be converted into Three Year Diversified Diploma).

TE 4-6. One Year Post Diploma Course in Hospital Engg. at Thapar Poly. Patiala.

TE 4-7. AMIE course at Guru Nanak Poly. Ludhiana.

TE 4-14. Three Year Diploma Course in Agricultural Engg. at Guru Nanak Polytechnic, Ludhiana.

TE 4-15. Sandwich Type Four Year Diploma Course in Maintenance Engg. at Guru Nanak Polytechnic, Ludhiana.

TE 4-16. Part time Diploma Course in Electrical Engg. at Guru Nanak Poly. Ludhiana.

11-48. In addition, the following new schemes will be introduced :—

TE 4-9. Revision of Staff Structure.

TE 4-13. Audio-Visual Centre at Thapar Polytechnic, Patiala.

Special Trade Diploma level Institutes :

11-49. The following new courses are proposed to be started during the Sixth Five Year Plan (1980—85) and Annual Plan 1981-82 :—

(i) Diploma Course in Electronics at Government Polytechnic for Women at Jullundur.

(ii) Diploma Course in Interior Decoration at Government Polytechnic for Women, at Jullundur.

(iii) 2nd shift for Diploma course in Pharmacy at Government Polytechnic for Women at Jullundur.

(iv) Part-time Diploma course in Pharmacy at Government Polytechnic for Women at Jullundur

(v) 2nd shift Diploma Course in Garment Technology at Government Instt. of Garment Technology, Amritsar.

(vi) 2nd shift Diploma course in Textile Technology at Punjab Institute of Textile Technology, Amritsar.

Other Programmes :

11.50. To continue the programmes of the scholarships, a sum of Rs. 1.00 lakh has been proposed for Sixth Five Year Plan and Rs. 0.30 lakh for Annual Plan 1981-82. For faculty development, a sum of Rs. 3.00 lakhs has been proposed for the

Sixth Plan which includes Rs. 0.70 lakh for Annual Plan 1981-82. Another sum of Rs. 21.00 lakhs has been proposed for students amenities libraries, book banks and development of campus for the sixth five year plan (1980—85) which includes Rs. 4.20 lakhs for 1981-82,

CHAPTER XII

Public Health and Sanitation

During the last few years considerable progress has been made in the field of medical education, setting up of new dispensaries/hospitals and upgrada-

tion of the existing medical institutions. The salient features of the achievements made in the field of Public Health and Sanitation are given below :—

Category	Unit	Upto 1979-80
1. Annual Intake of Medical Graduates	No.	460
2. Annual intake of Dental Graduates	"	50
3. Sub-Centres	"	2,593
4. Subsidiary Health Centres	"	1,096
5. 25 bedded Block level Rural Hospitals	"	111
6. Dental Clinics at Block level	"	78
7. Dispensaries in Urban and Slum Areas	"	144
8. I.S.M. and Homeopathic Dispensaries	"	489

12.2. The out-turn of medical graduates/dental surgeons is sufficient to meet the requirement of the public as well as the private sector. All the district level hospitals have been upgraded to 100 bed hospitals. While some of the sub-divisional headquarters have 100 bedded or 50 bedded hospitals, others have 25 bed hospitals.

12.3. The existing number of medical institutions in the State is sufficient to meet the needs of the people. However, it has been found that in the process of expansion of these institutions have not been brought to a reasonable norm of efficient functioning. The result is that the entire public health system suffers from a number of shortcomings. These deficiencies are in the areas of (i) para-medical staff shortages, (ii) building for institutions, (iii) modern machinery, equipment and medicines. It is therefore, considered appropriate to go slow with further expansion and concentrate on meeting the existing deficiencies and improving the operational efficiencies of medical institutions in

the State. The proposals for the Sixth Plan have been formulated with following objectives in view :—

- (i) expeditious completion of on-going works ;
- (ii) increase the out-turn of para-medical staff ;
- (iii) to provide teaching staff and physical facilities in Guru Gobind Singh Medical College, Faridkot, as prescribed by the Medical Council of India and completion of College Campus building.
- (iv) to provide medicines and modern equipment in all the existing institutions ; and
- (v) speed up the construction of buildings of existing hospitals and dispensaries.

12.4. Outlay of Rs. 950.00 lakhs and Rs. 5000.00 lakhs has been proposed for the Annual Plan 1981-82 and the Sixth Plan 1980-85, respectively. Sector-wise breakup of the outlays is given below :—

(Rs. in lakhs)

Sector	1979-80 Actual Exp.	1980-81 outlay app- ved.	1981-82 outlay proposed	1980-85 outlay proposed
1	2	3	4	5
1. Medical Education and Research	169.93	250.00	295.00	17,00.00
2. Public Health	414.02	560.00	619.00	3,095.00
3. I.S.M.	14.05	30.00	29.00	165.00
4. Homeopathy	—	—	7.00	40.00
Total	598.00	840.00	950.00	5,000.00

Medical Education and Research :

12.5. An outlay of Rs.295.00 lakhs has been provided for the year 1981-82 as compared to the outlay of Rs. 250.00 lakhs during 1980-81. This outlay would be barely sufficient to maintain the existing programmes. The outlay for the Sixth Five Year Plan has been proposed at Rs. 17.00 crores. However, it has been assessed that an additional outlay of Rs. 20.00 crores would be needed during the Sixth Five Year Plan, if the Faridkot Medical College is to be completed and the Medical Colleges at Patiala and Amritsar are to be brought up to the standards prescribed by the Medical Council of India. This fact is being kept in view and efforts will be made to provide additional funds during the course of the Sixth Five Year Plan.

12.6. There are five Medical Colleges in the State, three State owned Medical Colleges, one each at Amritsar, Patiala and Faridkot and two private Medical Colleges which are located at Ludhiana. The annual intake of the State Medical Colleges is 150 each, except Medical College, Faridkot where the intake is 60. The intake of the two private Medical Colleges at Ludhiana is 50 each. Total annual out-turn comes to about 450. This out-turn is considered sufficient for the requirements of public services as well as of the private sector.

12.7. Besides, the under-graduates courses, these colleges run degree and diploma Post-graduate courses, refresher courses for inservice doctors and also para-medical training courses for pharmacists, laboratory technicians, radiographers and nurses.

12.8. There is a State Dental College at Amritsar for graduate and post-graduate training of Dental Surgeons. A dental wing is attached to Medical College, Patiala.

MEDICAL COLLEGES

(i) Medical College, Faridkot :

12.9. An outlay of Rs.9.00 crores has been proposed for the Sixth Plan for the construction of new college campus and for the provision of teaching staff as per norms fixed by the Medical Council of India. An outlay of Rs. 150.00 lakhs for the year 1981-82 has been proposed against the approved outlay of Rs. 99.00 lakhs for 1980-81. This outlay is for the continuance of the staff posted during 1979-80 and to meet the spill over requirements of construction works of college campus, animal house, mortuary blocks, etc.

(ii) Medical College, Amritsar :

12.10. A provision of Rs 85.00 lakhs has been made for the Sixth Plan. An outlay of Rs. 15.00 lakhs has been proposed for the year 1981-82 against the approved outlay of Rs. 6.70 lakhs for the year 1980-81. The outlays have been earmarked for meeting the requirements.

(i) for the completion of multipurpose Hall and Library ; and

(ii) 24 Registrar flats;

(iii) for the continuance of the posts sanctioned during 1979-80 and also ;

(iv) to undertake construction of houses for Class III and IV employees.

This allocation includes the provision for some more posts of para-medical staff, clerical staff and purchase of equipment and drugs.

(iii) Medical College, Patiala :

12.11. For the Improvement of this college an outlay of Rs. 71.00 lakhs has been provided in the Sixth Plan. An outlay of Rs. 15.00 lakhs has been earmarked for the year 1981-82 against the approved outlay of Rs. 3.20 lakhs for the 1980-81. The provision is for the completion of the spill over work of swimming pool and sanitary installation in the quarters of Class IV employees, construction of Cafeteria, cycle stand and garrage, appointment of staff for the office of the principal and additional para-medical staff, purchase of essential equipment and library of the college.

Expansion and Improvement of Dental College/ Wing:

12.12. An outlay of Rs 25.00 lakhs has been proposed in the Sixth Plan for the improvement of Dental College, Amritsar. An outlay of Rs. 5.00 lakhs has been made for 1981-82 against the provision of Rs. 1.45 lakhs in 1980-81. The funds provided are mainly for (i) construction of hostel for post-graduate students, garrage, scooter shed and staff quarters, installation of a new tubewell, (ii) purchase of essential equipment and medicines, and (iii) for additional para-medical staff. Proposed outlay for 1981-82 is Rs. 3.00 lakhs against the provision of Rs. 3.00 lakhs for 1980-81. for the Dental Wing of Medical

College, Patiala. An outlay of Rs. 20.00 lakhs has been proposed in the Sixth Plan. The proposed outlays are for (i) additional staff and equipment for increased number of seats from 12 to 20 and (ii) the purchase/acquisition of a building for the Dental Wing to relieve over crowding in the Medical College.

Training facilities for para-medical Staff :

12.13. The out-turn of para-medical staff such as nurses, pharmacists and radiographers, etc. is for short of its requirements. It is, therefore, proposed to increase the annual intake capacities of these categories and to introduce some new courses. For this purpose a provision of Rs. 25.00 lakhs has been made in the Sixth Plan and Rs. 5.00 lakhs in the Annual Plan 1981-82 against the approved outlay of Rs. 2.50 lakhs for 1980-81.

12.14. The intake of Pharmacists will be increased from 80 to 110 at the Medical College, Amritsar and from 70 to 100 at the Medical College, Patiala. The course will be started at the Medical College, Faridkot with an intake of 30. Thus the total intake will be raised from 150 to 260. The intake of radiographers will be increased from 10 to 15 at Medical College, Amritsar and from 6 to 12 at Medical College, Patiala and 4-5 seats at C.M.C. Ludhiana. It is proposed to add 10 seats of laboratory Technicians each at Amritsar and Patiala and to start a training centre at Medical College, Faridkot with an annual intake of 20.

12.15. At present nurses are trained at the S.G.T.B. Hospital Amritsar, Rajindra Hospital, Patiala and Civil Hospital, Jullundur. The annual out-turn is about 100. It is proposed to increase the intake by 30 each in the above training centres and start a new training centre at Civil Hospital, Faridkot. It is also proposed to introduce the following new courses :—

	<i>Seats</i>
(i) Operation Theatre assistant (at S.G.T.B. Hospital, Amritsar and Rajindra Hospital, Patiala)	10
(ii) Anaesthesia assistant (at Rajindra Hospital, Patiala)	5
(iii) Ophthalmic assistant (at Ram Lal Eye Hospital, Amritsar)	10

(iv) Phasiatherapists (at Rajindra Hospital, Patiala) 10

12.16. In order to bring up the scheduled castes M.B., B.S. students to the level of the open merit students, provision of Rs. 2.00 lakhs and Rs. 0.40 lakh has been proposed for the Sixth Plan and the Annual Plan 1981-82, respectively.

Improvement and Expansion of the Teaching Hospitals :

12.17. Sufficient Provision has been proposed for improvement and expansion of the hospitals attached to the Medical Colleges. For S.G.T.B. Hospital, Amritsar the provisions of Rs. 220.00 lakhs in the Sixth Plan and Rs. 42.00 lakhs in 1981-82 has been proposed against the outlay of Rs. 47.10 lakhs for 1980-81. The provision is for (i) spill-over liability of the on-going works, (ii) new OPD block, orthopaedics workshop, cancer treatment block and completion of operation theatre, (iii) additional nursing and Class IV staff for the additional beds, (iv) staff for hospital workshop, orthopaedics workshop, Glucose saline unit, additional ministerial and para-medical staff and purchase of equipment for the newly completed wards.

12.18. A provision of Rs. 210.00 lakhs has been made in the Sixth Plan for the Rajindra Hospital, Patiala. An outlay of Rs. 40.10 lakhs has been proposed for 1981-82 against the outlay of Rs. 54.30 lakhs for 1980-81. The provision is for spill over liability of the on-going works, new casualty block and operation theatre block of the casualty block, cobalt therapy unit, paraplogic pool, connected passage and lift-well in orthopaedics workshop. Provision also exists for the purchase of additional equipment for Radiography and Nephrology and Neurology etc., additional ministerial and para-medical staff for the new-wards to be completed within the Plan period, and the strengthening of the medical record unit.

T.B. Sanitorium :

12.19. Outlays of Rs. 26.00 lakhs and Rs. 20.00 lakhs are proposed for T.B. Sanitorium, Amritsar and T.B. Centre, Patiala respectively for the Sixth Plan for (a) meeting the liability of spill over construction works, (ii) continuance of the staff sanctioned during 1979-80 and (iii) the

purchase of modern equipment and modern drugs. An outlay of Rs. 3.00 lakhs each has been proposed for T.B. Sanitorium, Amritsar, T.B. Centre, Patiala for 1981-82 against the outlays of Rs. 4.70 lakhs and Rs. 2.50 lakhs, respectively in 1980-81.

Re-orientation of Medical Education :

12.20 It is a centrally sponsored scheme. This scheme was first taken up in 1979-80. The Government of India provides assistance, on one-time basis, to the three medical colleges for attaching a development blocks 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 are required to be financed by the State. The provision now being made is for the staff provided during 1979-80, under the scheme in the three medical colleges. For this purpose an outlay of Rs. 60.00 lakhs has been proposed in the Sixth Plan. An outlay of Rs. 7.00 lakhs is proposed for 1981-82 against the the approved outlay of Rs. 16.87 lakhs in 1980-81.

Visual Impairment and Prevention of Blindness :

12.21 It is a Centrally Sponsored Scheme, Some of the component of the scheme have already been implemented by the Director Health Services. The other components are yet to be implemented by the Director Research and Medical Education. An outlay of Rs. Rs. 20.00 lakhs has been proposed for the Sixth Plan as State share. An outlay of Rs. 3.00 lakhs has been proposed for 1981-82 against the provision of Rs. 5.28 lakhs in 1980-81. The amount is required to continue the Mobile Eye Unit attached to Medical College, Amritsar and also make available staff and equipment for the second Mobile Unit to be attached to the Medical College, Patiala for which Government of India will release vehicles. This outlay is also meant for the upgradation of Eye Department of the 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

12.22 In the field of public health, main emphasis is being laid during the Sixth Plan on improving the quality of health services to the community. The major thrust of the public health programme

is towards creating comprehensive and well structured health services. An outlay of Rs. 619.00 lakhs proposed for the year 1981-82 is just sufficient to continue the existing programmes. An outlay of Rs. 30.95 crores has been proposed for the Sixth Five Year Plan. The Department has indicated that an additional outlay of Rs. 32.55 crores for the Sixth Five Year Plan 1980--85 would be necessary to provide buildings, medicines, modern machinery and equipment for the recently opened dispensaries/hospitals in the State. This additional demand of the department would be considered during the Sixth Plan after necessary assessment.

Rural Health Services

12.23 The base of the structure is the Subsidiary Health Centre (Rural dispensary). It has one doctor, one dispenser, 3 class IV employees and one male and one female multipurpose worker. It provides both preventive and curative services and also takes care of family welfare programme. The target is to provide one such dispensary per 10,000 rural population. So far, 10,96 subsidiary health centres have been established. Another 200 such centres will be established during 1980-81 and with this the target of providing one Subsidiary Health Centre for 10,000 rural population will be achieved. For the remaining years of the Sixth Plan no such centre will be established. Provision of Rs. 11,42.00 lakhs has been proposed in the Sixth Plan 1980—85 for this purpose. An outlay of Rs. 247.90 lakhs has been proposed for the year 1981-82 against the provision of Rs. 194.50 lakhs for the year 1980-81. Within the proposed outlays of the Sixth & Annual Plan, funds have been provided for construction of buildings in areas where the local community is too poor to provide buildings. For this purpose a sum of Rs. 250.00 lakhs in the Sixth Plan and Rs. 50.00 lakhs in the Annual Plan 1981-82 has been ear-marked.

12.24 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. So far 111 block level 25 bed rural hospitals have been established and no more such hospitals, are proposed to be set up during the Sixth Plan. Provision of Rs. 300.00 lakhs proposed for the Sixth Plan period is just sufficient for the maintenance of the existing organisational structure at this level. An outlay of Rs. 55.00 lakhs is

earmarked for the year 1981-82.

12.25 Well-equipped tehsil and district hospitals form the apex of the structure.

12.26. By the end of 1979-80, 78 dental clinics were established at the block level in the State. Ten dental clinics will be established each during 1980-81 and 1981-82. The remaining 20 will be opened after 1981-82. Thus by the end of the Sixth Plan, there shall be one Dental Clinic available at every block. An outlay of Rs. 50.00 lakhs has been earmarked for the Sixth Plan. An outlay of Rs. 8.50 lakhs is proposed for the year 1981-82 against the provision of Rs. 6.00 lakhs in 1980-81.

12.27 Five teams of specialists at block level were provided during 1979-80. Each team consists of six specialists in medicine, surgery, mid-wifery, gynae, eye and ENT, paediatrics and anaesthesia. Each team has been provided with a mini bus for enabling it to provide service to the entire block population at regular intervals. An outlay of Rs. 22.00 lakhs has been proposed for the Sixth Plan, for the continued component only and no new specialists team will be set up during 1980-85 as the functioning of these specialists teams is yet to be evaluated. An outlay of Rs. 4.00 lakhs is earmarked for the year 1981-82 against the provision of Rs. 7.25 lakhs in 1980-81.

12.28 Out of the existing 129 PHCs, the buildings of 106 PHCs were completed by 31-3-1979. The construction work at 10 Primary Health Centres is in progress. The entire spill over liability of these centres is 48.00 lakhs which has been fully provided in the Sixth Plan. An outlay of Rs. 3.95 lakhs has been proposed for 1981-82.

Health facilities in Urban Areas :

12.29 Teaching hospitals at district headquarters of Amritsar, Patiala, Ludhiana have more than 1,000 beds each. District headquarters town of Jullundur, Faridkot have 400 and 200 beds, respectively. The remaining 7 district headquarters have 100 bed hospitals. All the sub-divisional tehsil headquarters have been provided with 50 bed/25 bed hospitals and in the remaining towns medical facilities vary from a dispensary to a small hospitals. The Sixth Plan target is to upgrade only one hospital during 1980-81. It is proposed to provide Rs. 214.00 lakhs for the maintenance of health facilities in urban areas in the Sixth

Plan. An outlay of Rs. 48.00 lakhs is proposed for the year 1981-82 against the provision of Rs. 33.85 lakhs in 1980-81. Outlays of Rs. 7.00 lakhs and Rs. 1.30 lakhs are being proposed for the Sixth Plan and Annual Plan 1981-82, respectively for the maintenance of the Intensive care unit opened in 1979-80. It is not proposed to establish any new intensive care unit in the State during the Sixth Plan.

12.30 Another important programme is the opening of new dispensaries in the urban slum areas or other suitable localities to relieve the pressure on the out-door patients departments in the existing hospitals. With a proposed outlay of Rs. 50.00 lakhs 25 such dispensaries will be opened during the Sixth Plan. Five such dispensaries will be opened during 1981-82 at a cost of Rs. 9.50 lakhs. It is also proposed to provincialise 10 local bodies hospitals/dispensaries during the Sixth Plan. An outlay of Rs. 40.00 lakhs has been proposed in the Sixth Plan for this purpose. An outlay of Rs. 7.00 lakhs has been proposed for the year 1981-82 against the outlay of Rs. 4.00 lakhs for 1980-81.

Control/Eradication of Communicable Diseases :

12.31 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. These schemes are to be continued on 50 : 50 sharing basis between the State Government and the Government of India. Accordingly a provision of Rs. 954.00 lakhs has been proposed for the Sixth Plan as States share in the implementation of these schemes. An outlay of Rs. 177.35 lakhs is being proposed for 1981-82 against the provision of Rs. 183.51 lakhs in 1980-81.

Other Programmes :

12.32 The Community Health Volunteers scheme was initiated in Punjab in 20 blocks. It was decided to discontinue the scheme from 1-4-79. Instead stress has been laid on the Multipurpose Workers Scheme. Under this scheme one sub-centre manned by one male and one female multipurpose worker is provided for every 5,000 rural population. The entire State of Punjab had been covered under the Multipurpose Workers Scheme by the end of March, 1980.

12.33. One Central Medical Store was set up during 1979-80. The Store ensures proper supply of medicines to hospitals and dispensaries in the State. An outlay of Rs. 16.50 lakhs has been proposed in the Sixth Plan for purchase of medicines etc. The proposed outlay for 1981-82 is Rs. 4.40 lakhs against the provision of Rs. 2.70 lakhs in 1980-81.

12.34. The State Health Transport Organisation has a fleet of 501 vehicles. About 30% of these need replacement and are off the road. It is proposed to replace them at the rate of 10 vehicles a year. For this purpose an outlay of Rs 20.00 lakhs has been proposed for the Sixth Plan 1980—85.

12.35. The State hospitals have equipment worth more than Rs. 25.00 crores. In the absence of a satisfactory arrangement for preventive maintenance and repairs, most of the equipment remains out of order for long period till it is got repaired at a heavy cost from the open market. In view of this a repair and maintenance unit in the State was set up in 1979-80 at a cost of Rs. 5.77 lakhs. Provision of Rs. 10.00 lakhs has been proposed for the Sixth Plan for the continuance of the scheme. A sum of Rs. 5.00 lakhs is considered sufficient for the maintenance of the scheme during 1981-82.

12.36. With a view to strengthen the State Health and District level laboratories, a provision of Rs. 4.00 lakhs has been proposed for the Sixth Plan 1980—85. Proposed provision for 1981-82 is Rs. 0.70 lakh against the outlay of Rs. 0.65 lakh for the year 1980-81. It is also proposed to strengthen the Drug and Food Standard Control Organisation by providing additional staff both in the Directorate as well as in the State Food and Drug Laboratory. For this purpose an outlay of Rs. 14.50 lakhs has been proposed for the Sixth Plan. A sum of Rs. 2.50 lakhs is proposed for 1981-82 against the outlay of Rs. 2.50 lakhs for the year 1980-81.

12.37. It is proposed to provide additional staff at the Directorate level and District Offices during the Sixth Plan with a proposed outlay of Rs. 9.00 lakhs. During 1981-82, a sum of Rs. 2.00 lakhs has been set aside for this purpose. In order to strengthening the Health Statistical Organisation in the Directorate, an outlay of

Rs. 10.50 lakhs has been proposed for the Sixth Plan. An outlay of Rs. 2.00 lakhs has been proposed for the year 1981-82 against the provision of Rs. 1.29 lakhs for the year 1980-81.

12.38. The schemes of the Employment State Insurance Corporation have been neglected in the past, even though for every rupee provided by the State Government, the Corporation provides seven rupees. In Sixth Plan it is proposed to earmark a sum of Rs. 62.10 lakhs as State share. Against an outlay of Rs. 19.55 lakhs for 1980-81 a sum of Rs. 11.00 lakhs is proposed for 1981-82. Under this scheme, 4 new E.S.I. dispensaries will be opened, E.S.I. hospital at Ludhiana will be upgraded by raising its bed strength from 100 beds to 200 beds. One 50-bedded hospital each at Phagwara, Gobindgarh, S.A.S. Nagar and 150-bedded T.B. Hospital at Chandigarh will be set up.

Indian System of Medicines :

12.39. In the past, a policy of drift has been followed with regard to Ayurvedic and other systems of Medicines. Indian Systems of Medicines could not have a fair chance to prove their worth because the provision for these systems was inadequate. In the Sixth Plan provision for the I.S.M. has been raised to more than 5 times the expenditure under the Fifth Plan, that is, Rs. 1.65 crores as against Rs. 0.30 crore. The main aim is to consolidate the existing services and make up the persisting deficiencies. A limited expansion is also envisaged.

12.40. An outlay of Rs. 165.00 lakhs has been proposed for the Sixth Plan. A sum of Rs. 29.00 lakhs has been earmarked for the Annual Plan 1981-82 against the provision of Rs. 30.00 lakhs in 1980-81 for the maintenance of the existing programmes. It is proposed to establish 68 new I.S.M. dispensaries during the Sixth Plan.

12.41. Brief details of the programmes included in the Sixth Plan and Annual Plan are as under :—

Strengthening of existing I.S.M. Dispensaries :

12.42. The existing I. S. M. dispensaries which continue to be ill-equipped because of paucity of funds, will be developed by providing additional medicines worth Rs. 2,000 per year

and furniture/equipment worth Rs. 1,500 per dispensary. The number of such dispensaries is 436. For this purpose an outlay of Rs. 32.89 lakhs has been proposed for the Sixth Plan. A provision of Rs. 5.30 lakhs has been proposed for 1981-82, against the approved outlay of Rs. 5.50 lakhs for 1980-81.

Opening of I.S.M. Dispensaries :

12.43. To provide maximum medicare to the rural population and some employment opportunity to the I.S.M. graduates passing out from the Ayurvedic Colleges, 68 dispensaries are proposed to be opened and 28 dispensaries established in 1979-80 would be maintained in the Sixth Plan. By the end of the Sixth Plan the number of dispensaries will rise to 532 most of which will be in the rural areas. An outlay of Rs. 107.40 lakhs has been proposed for the Sixth Plan. A sum of Rs. 20 lakhs has been provided in 1981-82 against the outlay of Rs. 13.83 lakhs in 1980-81.

Improvement and Expansion of Govt. Ayurvedic College, Patiala :

12.44. Two departments of the college have already been strengthened. A unit each in Yoga and Nature cure opened in 1979-80 will be continued. An outlay of Rs. 4.07 lakhs has been proposed in the sixth Plan for this purpose. An outlay of Rs. 0.70 lakhs is for 1981-82 against the provision of Rs. 1.10 lakhs in 1980-81.

Improvement and Expansion of Govt. Ayurvedic Hospital, Patiala :

12.45. To meet the basic requirements of the students in the matter of the bed ratio for their clinical training, an addition of 50 beds to the existing strength of 100 beds was planned. An outlay of Rs. 1.20 lakhs has been proposed for the Sixth Plan to meet the spill-over liability of the scheme.

Improvement and Expansion of Govt. Ayurvedic Pharmacy, Patiala :

12.46. An outlay of Rs. 3.14 lakhs is being proposed for the Sixth Plan. An outlay of Rs. 0.40 lakh has been earmarked for 1981-82 for the continued component only.

Strengthening of the Directorate :

12.47. Outlays of Rs. 3.70 lakhs and Rs. 0.70 lakh have been proposed for the Sixth Plan and Annual Plan 1981-82 respectively for additional staff in the Directorate.

Strengthening of District Head-quarters Staff :

12.48. In order to ensure the proper working of the District Offices and effective inspection of the dispensaries and proper implementation of the Plan programme, it is planned to provide some minimum staff, viz. one superintendent, two assistants, two clerks and a vehicle at each district office. The component of the scheme already sanctioned in 1979-80 would be continued in the Sixth Plan with a provision of Rs. 12.60 lakhs. A provision of Rs. 1.90 lakhs has been made for 1981-82.

Homoeopathy :

12.49. The State Government on the Pattern of the Union Government, like some other States have established a separate Directorate of Homoeopathy. In the past Homoeopathy was a part of the Directorate of Ayurveda and Indian System of Medicines, but it was not receiving adequate attention and funds, so much so, that out of 484 dispensaries in the State for I.S.M. and Homoeopathy, there were only 20 Homoeopathic dispensaries. It is proposed to make an allocation of Rs. 40.00 lakhs for the Sixth Plan and earmark Rs. 7.00 lakhs for the Annual Plan 1981-82. It is proposed to open 37 new additional homoeopathy dispensaries during the Sixth Five-Year Plan. Outlays of Rs. 5.05 lakhs and Rs. 32.45 lakhs have been provided in the Annual Plan 1981-82 and the Sixth Plan 1980-85 respectively for the proposed new dispensaries.

Strengthening of State Headquarters Staff :

12.50. It is proposed to strengthen the Headquarters staff and provide vehicle for inspecting the dispensaries in remote areas of the State. Outlays of Rs. 1.95 lakhs and Rs. 7.55 lakhs have been proposed for the Annual Plan 1981-82 and Sixth Five-Year Plan, respectively.

Urban Development, Housing and Water Supply

Urban Development

13.1. The 1971 census revealed that a quarter of the State's population lives in urban areas. The urbanisation process has, however, quickened during recent years, as a result of migration of rural population to urban areas. In order to check disequilibrium between the pace of urbanisation and urban facilities/civic amenities, a provision of Rs. 100 crores has been made in Sixth Five Year Plan 1980—85, which together with funds from institutional, municipal and other resources should achieve substantial results.

Urban Estates

13.2. The development of urban estates involved the acquisition and development of land by providing infrastructural facilities and public amenities. To speedup the development in this field by availing institutional finance and for making the scheme self financing, it has been decided to constitute an Urban Development Authority for the co-ordinated acquisition and development of land activity in the urban areas of the State. Accordingly, the provision for this scheme will be made as seed money to the Urban Development Authority. During Sixth Five Year Plan 1980—85, a provision of Rs. 16 crores has been made for this purpose. The actual expenditure on this scheme during 1979-80 was Rs. 429.08 lakhs and a provision of Rs. 250 lakhs has been made during 1980-81. As against this provision for 1979-80 and 1980-81, a provision of Rs. 150 lakhs has been proposed for 1981-82 as seed money to the Urban Development Authority, which will be able to implement schemes worth about Rs. 6 crores after availing institutional finance.

Urban Water Supply and Sewerage

13.3. There are 129 towns in the State having population of 45.39 lakhs. Out of these water supply in part of 79 towns covering a population

of 27.47 lakhs and sewerage in part of 55 towns covering a population of about 16.38 lakhs has been introduced by March, 1980. Government of India has indicated that piped water supply and under ground sewerage may be provided to the entire population of State during International Water Supply and Sanitation Decade i.e., 1981—90. The Punjab Water Supply and Sewerage Board, which is implementing these schemes in urban areas would require 313 crores (Rs. 135 crores for Water Supply and Rs. 178 crores for Sewerage) for this purpose. Keeping in view the constraint on resources, a provision of Rs. 73.40 crores has been made in Sixth Five Year Plan as loans to Municipal Committees. This outlay includes the following schemes/projects :—

(Rs. in lakhs)		
Sr. No.	Name of the Scheme/ Project	Provision
1	2	3
1	I.D.A. Project—	
	I.D.A. Loan ..	16,85.60
	State Govt. Contribution ..	722.40
	L.I.C. Loan ..	10,86.00
	Total ..	34,94.00
2	L.I.C. Project (2nd Package)—	
	Government of Punjab ..	340.00
	L.I.C. ..	10,00.00
	Total ..	13,40.00
3	Other Water Supply Schemes ..	10,00.00
4	Other Sewerage Schemes ..	945.00
5	Sewage Sullage Utilisation Schemes	100.00

6	Setting up of Compost Plants at Amritsar, Jullundur and Ludhiana	42.66
7	Urban Solid Waste Disposal ..	13.34
	Total ..	<u>6,935.00</u>

13.4. The Water Supply Sewerage Board which is implementing these schemes has been provided an equity of Rs. 405 lakhs for the implementation of IDA project and other Water Supply and Sewerage Schemes.

World Bank Project

13.5. This project is being implemented in 8 towns of the State namely Amritsar, Ludhiana, Jullundur, Patiala, Bhatinda, Rajpura, Pathankot and Moga at a cost of Rs. 66.70 crores. This project according to the agreements with IDA was scheduled to be completed by March, 1982, but due to delay in signing of various agreements and the shortage of inputs the completion of project is likely to be extended by one year i.e. by March, 1983. The financing pattern of the project is given below :—

	(Rs. in crores)
I.D.A.	22.61
State Government Share	10.07
L.I.C.	13.00
Municipal Corporation/Committees ..	21.02
Total ..	<u>66.70</u>

13.6. Out of Rs. 32.68 crores (Rs. 22.61 crores + Rs. 10.07 crores IDA and Govt. of Punjab share) an amount of Rs. 8.60 crores (Rs. 0.60 crores + Rs. 8.00 crores) was provided during 1978-79 and 1979-80. The balance amount of Rs. 24.08 crores (Rs. 32.68 crores—Rs. 8.60 crores) has been provided during Sixth Five Year Plan. During 1980-81, an amount of Rs. 11.60 crores was provided and Rs. 13 crores is proposed to be provided during 1981-82. The L.I.C. has released a loan of Rs. 2.137 crores upto March, 1980 against the total share of Rs. 13 crores, the balance amount of Rs. 10.86 crores has been provided in addition for this purpose during the Sixth Five Year Plan. Besides balance amount of the equity of Rs. 4.05 crores out of an equity of Rs. 8.00 crores has been

provided to the Water Supply Sewerage Board during Sixth Five Year Plan for the implementation of this project. During 1980-81, a sum of Rs. 1.00 crores was provided for this purpose and during 1981-82, an amount of Rs. 50 lakhs has been proposed.

L.I.C. Project

13.7. Besides the I.D.A. Project, L.I.C. has sanctioned 9 water supply schemes at an estimated cost of Rs. 4.81 crores with a loan of Rs. 3.25 crores. These schemes are in the advanced stage of construction and are likely to be completed by the end of March, 1981. Water Supply and Sewerage schemes of 31 towns (Annexure-I) costing Rs. 15.51 crores have been sent to L.I.C. for approval. Two thirds of the cost is proposed to be met out of L.I.C. loan and 1/3rd will be met by the concerned M.C's. A provision of Rs. 13.40 crores—Rs. 10.00 crores as L.I.C. loan and Rs. 3.40 crores as loan to M.C's for meeting the 1/3rd share of the cost, will be provided. During 1980-81, a provision of Rs. 3.10 crores (Rs. 2.50 crores as L.I.C. loan—Rs. 0.60 crores as Punjab Government loan to M.C's) has already been provided. For 1981-82 the provision for this purpose has been retained at 1980-81 level.

Other Water Supply and Sewerage Schemes

13.8. A provision of Rs. 19.45 lakhs (Rs. 10.00 lakhs for Water Supply and Rs. 9.45 lakhs for sewerage schemes) has been made for covering the other towns of the State. During 1980-81, an outlay of Rs. 80 lakhs (Rs. 60 lakhs for water supply and Rs. 20 lakhs for sewerage schemes) was provided. During 1981-82, an outlay of Rs. 100 lakhs (Rs. 60 lakhs for water supply and Rs. 40 lakhs for sewerage schemes) has been proposed. Water Supply Sewerage Board will also try to get institutional finance for this purpose.

Sewage Sullage Utilisation

13.9. The Government of India sanctioned 65 (61+4) schemes costing Rs. 6.00 crores (Rs. 3.45 crores + Rs. 2.55 crores) with a central subsidy of Rs. 239.39 lakhs (Rs. 155 lakhs + Rs. 84.39 lakhs) under a centrally sponsored scheme, which was subsequently transferred to the State. The balance subsidy of Rs. 100 lakhs is proposed to be provided during Sixth Five Year Plan to meet the liability

regarding payment of subsidy for the above noted schemes. During 1980-81, Rs. 30 lakhs were provided for this purpose and during 1981-82, the outlay is retained at the same level.

13.10. In addition, amounts of Rs. 42.66 lakhs and Rs. 13.34 lakhs for the implementation of centrally sponsored schemes i.e., Setting up of Compost Plants at Amritsar, Jullundur and Ludhiana and Urban Solid Waste Disposal have been provided during Sixth Five Year Plan period, for meeting the balance liability regarding the payment of subsidy for these schemes, after their transfer to the state sector. During 1981-82, no provision is being proposed for this purpose, as the progress regarding the implementation of these schemes was not satisfactory. The balance subsidy will be provided, as and when the funds are needed for this purpose.

Improvement Trusts

13.11. 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. A provision of Rs. 50 lakhs has been proposed for this purpose during the Sixth Five-Year Plan. A sum of Rs. 15 lakhs was provided during 1979-80 for this purpose. During 1980-81, an outlay of Rs. 10 lakhs has been provided and during 1981-82, the same outlay of Rs. 10 lakhs is being retained.

13.12. During 1979-80, a sum of Rs. 15 lakhs was provided to the Improvement Trusts for giving free house sites to urban homeless scheduled castes. This scheme is proposed to be continued during the 1980---85, with an outlay of Rs. 50 lakhs. During 1980-81, an outlay of Rs. 10 lakhs has been provided and the same outlay is being retained for 1981-82. During the Sixth Five-Year Plan, the scope of this scheme has been extended further to cover other categories of economically weaker sections and backward classes who are homeless. An additional outlay of Rs. 200 lakhs has been proposed for

Sixth Five-Year Plan for this purpose, out of which Rs. 25 lakhs was provided during 1980-81 and the same amount is being proposed for 1981-82.

Integrated Development Programme for Small and Medium Towns

13.13. This is a Centrally Sponsored Scheme under which 50% share is to be provided by the State. For the implementation of this programme in various towns of the State an outlay of Rs. 500 lakhs has been provided in Sixth Five-Year Plan 1980—85. In addition, the requirements of bigger towns like Amritsar, Jullundur and Patiala, which were covered under the old centrally sponsored scheme, will also be met and assistance in the form of loan will be provided for the implementation of their approved programmes. During 1980-81, an outlay of Rs. 100 lakhs has been provided and the same outlay is being proposed for 1981-82.

Town and Regional Planning

13.14. This is a staff scheme for which Rs. 10 lakhs have been provided during 1980-81. The staff is proposed to be continued during Sixth Five-Year Plan and an amount of Rs. 60.00 lakhs has been provided for this purpose. For 1981-82, the scheme is proposed to be continued with an outlay of Rs. 10 lakhs. The staff under this scheme is to be engaged in rural sector planning at block level, preparation of plans of hitherto neglected small towns and preparation of master plans for the towns mushrooming in haphazard fashion along highways and other important roads. They will also be engaged in the preparation of plans for setting up new towns, in the first instance at Phillaur and later to be extended to cover other towns.

Slum Clearance

13.15. A sum of Rs. 100 lakhs is being provided during 1980—85 for environmental improvement of slums such as drinking water, pavement of streets, pucca drains, street lights, public urinals and latrines, etc. Rs. 20 lakhs have been provided for this purpose during 1980-81 and the same outlay is being proposed for 1981-82.

ANNEXURE—I

List of Water Supply and Sewerage Schemes sent to L.I.C. under 2nd Package

Serial No.	Name of Town	Estimated cost of Water Supply Schemes	Estimated cost of Sewerage Schemes	Total
1	2	3	4	5
1	Sunam	32.90	20.35	53.25
2	Barnala	28.06	19.44	47.50
3	Sangrur	22.43	28.30	50.73
4	Malerkotla	20.27	28.98	49.25
5	Patran	16.15	18.60	34.75
6	Dhuri	27.00	..	27.00
7	Rampura Phul	10.95	20.87	31.82
8	Ahmedgarh	26.43	..	26.43
9	Budhlada	31.51	29.38	60.89
10	Raman Mandi	36.26	10.90	47.16
11	Fazilka	32.91	47.36	80.27
12	Zira	7.59	..	7.59
13	Talwandi Bhai	5.95	..	5.95
14	Jaitu	25.40	..	25.40
15	Gurdaspur	22.62	37.50	60.12
16	Batala	63.61	62.60	126.21
17	Quadian	34.40	..	34.40
18	Jandiala	29.82	..	29.82
19	Jagraon	10.93	20.48	31.41
20	Khanna	22.47	31.50	53.97
21	Doraha	6.68	..	6.68
22	Kapurthala	79.44	..	79.44
23	Nakodar	35.98	..	35.98
24	Nurmahal	23.50	..	23.50
25	Morinda	33.34	..	33.34
26	Dasuya	46.48	..	46.48
27	Kurali	23.96	..	23.96
28	Malout	82.73	43.00	125.73
29	Ferozepur	51.74	71.06	122.80
30	Nabha	..	30.00	30.00
31	Phagwara	..	139.82	139.82
	Total	891.51	660.14	1,551.65

HOUSING

12.16. The housing problem is becoming more and more acute in the State due to the increasing pace of urbanisation and rising population. This has led to unprecedented increase in rents, which is being felt more by the salaried class of workers. In order to ease this situation, an outlay of Rs. 57 crores is being provided for this sub-head of development during 1980-85. This provision includes the repayment liability of HUDCO loan to the extent of Rs. 26.08 crores, which is to be met during Sixth Plan period. During 1979-80, an expenditure of Rs. 1014.75 lakhs was incurred under this sub-head. During 1980-81, an outlay of Rs. 989 lakhs has been provided and during 1981-82, an outlay of Rs. 1040 lakhs is being proposed. The increase in outlay during 1981-82 is proposed for meeting the repayment liability of HUDCO loan to the extent of Rs. 334 lakhs. The details of the important schemes covered under this sub-head are given below :—

Houses for Government Servants

13.17. The number of employees in the State has risen from 1.73 lakhs at the end of March, 1971 to 2.53 lakhs at the end of March, 1979. 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 the general shortage of residential accommodation all over the State, 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.

13.18. In order to solve this problem, it was decided during 1979-80 to avail of the HUDCO loan assistance for this scheme and the job of constructing these houses was transferred to the Punjab Housing Development Board. An outlay of Rs. 355 lakhs was provided during 1979-80 for construction of about 2060 residential houses and 997 flats for Government employees at District/Tehsil Headquarters and places other than district/tehsil headquarters, focal points and at Chandigarh.

13.19. Due to the delay in getting HUDCO loan assistance, shortage of building material etc. the Housing Board could only start work on this project but could not complete the construction of these houses in 1979-80. During the Sixth Five-Year Plan, an outlay of Rs. 1560 lakhs is being provided for the construction of 1796 houses. The component-wise details of this provision are given below :—

Serial No.	Places where the houses are proposed to be constructed	1980-85	
		Outlay (Rs. in lakhs)	Target (No. of houses)
1	2	3	4
1.	At district/tehsil headquarters and at other places	971.35	1168+754 (spill over)
2.	At focal points	225.00	218+478 (spill over)
3.	At Chandigarh	363.65	410+718 (spill over)
	Total	1560.00	1796+1950 (spill over)

13.20. During 1980-81 an outlay of Rs. 300 lakhs has been provided for the construction of 1368 houses, out of which 1077 houses are proposed to be constructed by the Housing Development Board with HUDCO assistance. The rest of the houses, which are under construction will be completed by the P.W.D. . During 1981-82 an

outlay of Rs. 199.12 lakhs is being provided. With this outlay only 80 additional houses will be constructed at district/tehsil headquarters and at other places. The balance amount is being provided to meet the repayment liability of HUDCO loan and for the completion of houses under construction.

13.21. There is a growing demand for house building advances to be given to Government servants on account of the upward entitlement of the loan amounts for house building in the light of the revision of their pay scales and the increased cost of construction of houses. During 1979-80, a sum of Rs. 240 lakhs was advanced as loan for this purpose. In 1980-81, an amount of only Rs. 150 lakhs could be earmarked against a demand of Rs. 500 lakhs. For 1980-85, an outlay of Rs. 975 lakhs has been provided and for 1981-82, an outlay of Rs. 200 lakhs is proposed.

Police Housing

13.22. This scheme is also being implemented with HUDCO loan assistance. During 1979-80, an expenditure of Rs. 156.62 lakhs was incurred and by the end of the year 443 houses were under construction. During 1980-81 an outlay of Rs. 150 lakhs has been provided for the construction of 870 new houses. For 1980-85 an outlay of Rs. 985 lakhs has been set aside for the construction of 1645 houses and barrack accommodation for 550 persons. Out of this amount a sum of Rs. 582 lakhs has been provided for meeting the repayment liability of HUDCO loan and the balance amount is to be used as seed money for undertaking new construction.

Housing Development Board

13.23. 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. An amount of Rs. 70 lakhs (Rs. 47.50 lakhs as seed money for various schemes of the Board, Rs. 5 lakhs as liability towards continuing schemes, Rs. 10 lakhs for commercial activities and Rs. 7.50 lakhs for land acquisition and development purposes) was given during 1979-80. During 1980-81, an outlay of Rs. 70 lakhs has been provided for the construction of various categories of houses by the Board after availing HUDCO loan assistance. The Board will meet the liabilities of principle and interest for payment to HUDCO out of advance deposits/recoveries from the applicants/allottees. During 1980-85, an outlay of Rs. 250 lakhs has been provided for this purpose and for 1981-82, an outlay of Rs. 20 lakhs is being proposed.

Subsidised Industrial Houses

13.24. Under this programme a sum of Rs. 9 lakhs was provided in 1979-80 for meeting the spill-over requirements in respect of construction of residential houses for industrial workers in the State, Co-operative and private sectors. For the construction of about 60 houses in the State sector, an amount of Rs. 5 lakhs was provided. The balance of Rs. 4 lakhs was utilised for giving loan and subsidy to the co-operative and private sectors. For 1980-81 another sum of Rs. 9 lakhs has been earmarked for clearing the spill-over commitments and for maintaining at least the existing level of achievement. For 1980-85, an outlay of Rs. 50.00 lakhs has been provided for the construction of 612 houses (228 in State sector and 384 in private sector). An outlay of Rs. 10 lakhs is being proposed for 1981-82 for the construction of 104 houses (40 in the State sector and 64 in the private sector).

Houses for the Rural Home-less

13.25. About 3 lakhs families of land-less workers mostly belonging to scheduled castes were allotted free house sites, each site measuring 100 Sq. Yds. in the rural areas of the State. The work regarding the construction of houses on these sites at a cost of Rs. 4,000 per house was entrusted to the Housing Development Board. Though sufficient funds were provided to the Housing Development Board during the previous years, progress of construction work was slow. During 1978-79, Rs. 100 lakhs were provided to the Housing Development Board for the construction of 5,000 houses. The Board received matching loan assistance of Rs. 100 lakhs from HUDCO for this scheme. Since the Board could not complete the construction of 3946 houses during 1977-78, it was expected that by the end of 1978-79, construction of 8946 houses would be completed. Against this target, the Board completed the construction of only 508 houses, while another 1600 houses were under construction. During 1979-80, a sum of Rs. 70 lakhs was provided for the construction of 3500 houses but even this target could not be achieved and only 778 houses were completed at the end of year. The Board also received matching loan assistance of Rs. 70 lakhs from HUDCO during 1979-80 for this purpose.

13.26 A review of the programme of housing for the homeless revealed the need to push up its execution at a faster rate. Accordingly, a sum of Rs. 170 lakhs has been earmarked for this scheme in 1980-81, as against a provision of Rs. 70 lakhs in 1979-80. This means $2\frac{1}{2}$ times step-up in the outlay. Matching assistance from HUDCO will supplement this amount. With this additional provision and the spillover funds available with Housing Development Board, it will be possible to construct 10,000 houses, costing Rs. 6500 each, by the end of 1980-81. To maintain the tempo of development under this scheme, an outlay of Rs. 1200 lakhs has been provided for 1980—85. With this provision, it will be possible to provide houses to 31,778 persons during the Plan period. For 1981-82, an outlay of Rs 285 lakhs is proposed for the construction of 4000 houses. However, progress in physical terms is largely dependent on the availability of cement and coal for bricks.

Loans for L.I.G. Houses

13.27 Under the L.I.G.H. Scheme, loans are sanctioned to individuals, whose income do not exceed Rs. 7200 per annum. The maximum limit of loan is Rs. 12,500 or 80 percent of the cost of the house, whichever is less. The funds under this scheme are arranged from the L.I.C through the Government of India. During 1979-80, a sum of Rs. 55 lakhs was spent for advancing loans to 1100 beneficiaries for constructing houses. For 1980—85, an outlay of Rs. 300 lakhs has been provided for the construction of 6000 houses. A provision of Rs. 60 lakhs is being made in the Annual Plan 1981-82 for the construction of 1200 houses.

Middle Income Group Houses

13.28. Under the M.I.G.H. Scheme loans are sanctioned to individuals, whose income exceed Rs. 7200, but is less than Rs. 18,000 per annum. The maximum limit of loan is Rs. 25,000 or 80 percent of the cost of the house, whichever is less. The funds under this scheme are arranged from the L.I.C. through Government of India. An outlay of Rs. 60 lakhs has been provided in the Sixth Plan 1980—85 for giving loans to 300 persons. During 1981-82, an amount of Rs. 20 lakhs is being proposed for the benefit of 100 persons.

Village Housing Project Scheme

13.29. 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 of Rs. 5000 per house.

13.30. An outlay of Rs. 50 lakhs has been provided in 1980-81 for advancing loans to 1000 persons. A provision of Rs. 170 lakhs has been made in the Sixth Plan for the benefit of 3400 persons. For 1981-82, an outlay of Rs. 30 lakhs is proposed as loan for 600 beneficiaries.

RURAL WATER SUPPLY

13.31. The cost of providing piped drinking water to all the 12,188 inhabited villages of the State has been estimated at Rs. 419.00 crores. For the present, the coverage is limited to scarcity villages in terms of the following criteria laid down by the Govt. of India :—

- (i) the villages which do not have assured sources of drinking water within a reasonable distance (1.6 KM.) or within a depth of 15 metres or ;
- (ii) the villages where the sources of water supply are endemic to water borne diseases like Cholera and Guinea worms, or ;
- (iii) the villages which suffer from excess salinity, iron or flouride.

13.32. There are 3,712 scarcity villages in the State. Out of these villages 1,945 villages had been provided piped water supply by the end of 1979-80. The total cost of providing water to the remaining 1,767 villages has been estimated at Rs. 88.00 crores.

13.33. Over the years, the design criteria for the rural water supply 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 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 of Rs. 128.00 crores is required to complete the work of providing water supply to all the remaining 1767 scarcity villages including augmentation of existing schemes.

13.34 Year-wise expenditure incurred since 1974-75 is given below :—

Year	Expenditure (Rs. in crores.)
One the eve of Fifth Plan	12.59
1974-75	3.98
1975-76	3.68

Year	Expenditure (Rs. in crores.)
1976-77	4.14
1977-78	5.34
1978-79	4.03
1979-80	4.81
Expenditure under Accelerated Rural Water Supply Scheme (Govt. of India Scheme) During 1977-78 and 1978-79	2.45
1979-80	0.75
Total	41.77

13.35 Physical Progress of the Rural Water Supply Programme is given in the following table:—

Year	No. of Villages		
	Sanctioned	Commissioned	In progress 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
During 1979-80	—	135	430
Total	2,473	1,945	

13.36 By March, 1980, water supply schemes had been commissioned in 1945 villages. A total of Rs. 41.77 crores had been spent. During 1980-81 an outlay of Rs. 500.00 lakhs has been made to cover 80 additional villages. For the time being provision of Rs. 28.00 crores and Rs. 8.00 crores has been made for the Sixth Five Year Plan (1980-85) and the Annual Plan 1981-82 respectively. Water Supply Schemes will be commissioned in 100 additional villages during 1981-82. It is proposed to provide water supply in all the remaining 1,767

scarcity villages by the end of the year 1989-90. The proposed target for the Sixth Plan is to cover 830 villages at an estimated cost of Rs. 68.00 crores. The provision of Rs. 28.00 crores being made now is tentative and will be stepped up to the required level of cost of Rs. 68.00 crores in subsequent years of the Sixth Plan. The organisational capability of the Department would also be strengthened to enable it to achieve the enhanced target in time.

*It included certain Tikas, hemlets which were part of revenue, villages, but were counted as separate villages earlier.

CHAPTER XIV

Development of Scheduled Castes and Backward Classes

Scheduled Castes and Backward Classes together constitute more than 30 per cent of the State population. The Scheduled Castes alone constitute about 25 per cent of the State population. This is a highest percentage for a State in the country. They are spread all over the State in varying proportion. 85 per cent of their total population live in rural areas as compared to 73 per cent of the non-Scheduled Castes. In rural areas they are mostly engaged as agricultural labour and a few of them are also small and marginal farmers. Others are engaged in traditional occupations, linked to their castes. The literacy level among them is only 16 per cent as compared to 39 per cent among the non-Scheduled Castes. It is much more unsatisfactory (only 4%) among the Scheduled Caste women.

14.2. Continuous efforts have been made since the First Five-Year Plan to improve the socio-economic conditions of Scheduled Castes. During the Sixth Plan, considerable step-up has been made in the outlay for the development of Scheduled Castes. An outlay of Rs. 3200.00 lakh has been proposed under the sub-head for 1980—85. For 1981-82 an outlay of Rs. 489.00 lakh has been earmarked, against the provision of Rs. 389.00 lakh in 1980-81 for programmes relating to (i) spread of education ; (ii) economic development and ; (iii) housing, environmental improvement and other social assistance.

Programme of Education

14.3. It has been recognised universally that education is the basic input for the socio-economic development. In the case of the Scheduled Castes who are psychologically, socially, and economically handicapped it is something much more. Education creates the inner strength among the people to face oppression, humiliation and inequality. Under this programme an outlay of

Rs. 680.51 lakh is proposed for the Sixth Five-Year Plan, 1980—85. For 1981-82 an outlay of Rs. 104.00 lakh is being proposed against the current year's outlay of Rs. 78.35 lakh.

14.4 Under the scheme 'Pre-matric coaching to Scheduled Castes students' extra coaching in the subjects of English, Mathematics and Science is provided to the students of 9th to 11th classes by engaging teachers in each high/higher secondary school. An honorarium of Rs. 100 per month per teacher is paid for a period of six months during the year. For 1981-82 an outlay of Rs. 17.00 lakh has been set aside to cover 31,000 students and during 1980-85, 2.13 lakh students will be covered at a cost of Rs. 103.75 lakh. Stationery and books are provided to students of 6th to 8th classes under the scheme 'Grant for the purchase of books and stationery'. From 1981-82 the scope of this scheme has been extended to cover the students of 9th and 10th classes also. An outlay of Rs. 44.00 lakh is proposed to cover 1.46 lakh students. During the Sixth Plan, the target is to benefit 9.08 lakh students with an outlay of Rs. 238.28 lakh. For providing books to medical and engineering students an outlay of Rs. 2.00 lakh has been provided as the State share under the Centrally Sponsored scheme 'Grant for the purchase of medical and engineering books'. It is expected that matching contribution will be provided by the Government of India. For providing books to law students an outlay of Rs. 0.75 lakh has been proposed in the Annual Plan 1981-82. For imparting the training in stenography, an outlay of Rs. 3.00 lakh has been earmarked to benefit 110 students in 1981-82. With an outlay of Rs. 8.00 lakh 200 Scheduled Castes graduates will be trained as B.Ed. teachers and 400 matriculates as J.B.T. teachers in 1981-82. A sum of Rs. 61.05 lakh has been provided to train 3,050 J.B.T. teachers and 1,525 B.Ed. teachers during the Sixth Plan. An outlay of Rs. 15.00 lakh has also been set aside to

provide the grants to Scheduled Castes girl students studying in post-matric and post-graduate classes. The grants at the rate of Rs. 40 and Rs. 50 per month is given to the girls studying in post-matric and post-graduate classes respectively. The main objective of this scheme is to attract maximum number of girls of these communities to receive higher education. For Centrally-sponsored Schemes 'I.A.S. Coaching Centre' and 'Girls Hostels' an outlay of Rs. 2.25 lakh is proposed as a State share and a matching provision is expected from the Central Government. For 1981-82, a new scheme is to be initiated for imparting industrial training to Scheduled Castes women. For the time being a token provision of Rs. 1.00 lakh is being made for this purpose.

Economic Uplift

14.5. Economic backwardness among Scheduled Castes is the major factor for their deplorable socio-economic conditions. Under this programme, efforts are made to lift them above the poverty line. About 70 per cent of the Scheduled Castes are engaged in agriculture. Most of them are agricultural labourers, small and marginal farmers and share croppers. In order to enable labourers and share croppers 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. 12.40 lakh is proposed to benefit 200 families during 1981-82. An outlay of Rs. 75.70 lakh has been proposed under this scheme to cover 1,220 families during 1980-85.

14.6. Two Corporations—Punjab Backward Classes Land Development and Finance Corporation and Punjab Scheduled Castes Land Development and Finance Corporation are functioning in the State. These Corporations promote and finance income-generating activities of Scheduled Castes and Backward Classes by providing loans interest free or at nominal rate of interest. To enable these Corporations to expand their activities it is proposed to strengthen their capital base. For 1981-82 a sum of Rs. 51.00 lakh is proposed to be given to Punjab Scheduled Castes Land Development and Finance Corporation. Backfinco will be given Rs. 20.00 lakh in the same year. A sum of Rs. 49.00 lakh is to be contributed by the Government of India as a matching grant towards the

share capital of the Punjab Scheduled Castes Land Development and Finance Corporation. These Corporations also raise institutional finance from commercial banks. To subsidise the higher rate of interest of the banks, an outlay of Rs. 78.90 lakh is proposed as 'Interest Subsidy' for 1981-82 and an amount of Rs. 765.25 lakhs has been set aside for the Sixth Plan.

Programme for Health, Housing and other Social Assistance :

14.7. 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, 11,000 villages have been identified where environmental improvement will be done. Only 1,083 villages were covered up to the end of 1979-80 and it is expected that 132 more villages will be covered by the end of 1980-81. For 1981-82 an outlay of Rs. 105.00 lakh is proposed to cover 200 basties and for providing 1,050 units of drinking water. During 1980-85, the environmental improvement will be done in 1225 villages and 5,563 drinking water units will be provided. Under the scheme 'Construction of Dharamshalas/Chupals', grants have been provided to construct 13,522 dharamshalas in 10,495 villages and 108 towns of the State for the use of Scheduled Castes up to the end of 1979-80 and 300 more dharamshalas will be completed at the end of 1980-81. In 1981-82 a provision of Rs. 50.00 lakh is being made for the construction of 500 more dharamshalas. With the proposed outlay of Rs. 258.30 lakh for 1980-85, 2725 dharamshalas will be completed. Sweepers, scavengers, flayers and tanners generally live in dirty and 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 and tanners. A sum of Rs. 28.00 lakh is proposed for providing subsidy for the construction of 1,400 houses. It is proposed to construct 8,550 houses with an outlay of Rs. 170.90 lakh during 1980-85.

14.8. A sum of Rs. 0.20 lakh has been earmarked for the scheme 'Legal Aid'. Aid is provided in the form of lawyers' fee to enable the Scheduled

Castes to protect themselves against forcible eviction from land and to pursue other allied cases. A sum of Rs. 1.50 lakh is being proposed for the Sixth Plan period. It has been found that 20 per cent of the total 5.00 lakh Scheduled Castes families residing in rural areas have no land for dumping domestic waste. For providing free manurial pits an outlay of Rs. 25.00 lakh is proposed under the scheme 'Grant of free manurial pits to Scheduled Castes'. To benefit one lakh families in the State, land measuring 625 acres is to be purchased at a cost of Rs. 1.50 crore during 1980—85.

14.9. The Balwadi classes are run in 120 Community Centres in the State for the children of Scheduled Castes in the age-group of 3-6 years. To provide nutritional diet, a scheme 'Supply of nutri-

tive food to children belonging to Scheduled Castes balwadies' is to be introduced from 1981-82 for which a token provision of Rs. 0.50 lakh is being made. During 1980—85, an outlay of Rs. 70.00 lakh has been provided for giving nutritive food to 12,000 children.

Programme for the welfare of Vimukat Jaties

14.10. 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 houses. A sum of Rs. 14.00 lakh is proposed to be given as subsidy for the construction of 700 houses during 1981-82. The target for the Sixth Plan is to construct 4,262 houses at a cost of Rs. 85.45 lakh.

Social Welfare & Nutrition

Social Welfare includes programmes for the welfare of children, women, the destitutes, the old and the infirm, the mentally retarded, orthopaedically handicapped, the blind, the deaf and dumb and other under-privileged and maladjusted groups. The programme for the welfare of Ex-Servicemen is also included under this sub-head. Nutrition programme seeks to remedy malnutrition among the pre-school children and pregnant and lactating mothers.

SOCIAL WELFARE

15.2. For the various programmes of Social Welfare an outlay of Rs. 582.00 lakh is being proposed in the Draft Sixth Plan, 1980—85. For 1981-82 an outlay of Rs. 161.00 lakh has been provided against the outlay of Rs. 85.00 lakh in the Annual Plan 1980-81. Details of the various programmes are as under :—

Child Welfare

15.3. 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 disease or permanent disability, are provided financial assistance at the rate of Rs. 50.00 per month per child. For 1981-82, an outlay of Rs. 19.30 lakh is proposed and 3,300 children will be benefitted. During the Sixth Plan period 4,800 children will be given financial aid at a cost of Rs. 123.00 lakh.

15.4. For the construction of the building of the Certified School at Hoshiarpur, a sum of Rs 5.00 lakh has been set aside to meet the spill-over requirement during 1981-82. For I.Y.C programme an outlay of Rs. 6.00 lakh is being proposed in the year 1981-82 for undertaking various welfare activities for children.

15.5. An outlay of Rs. 1.50 lakh is also proposed as the State share under the Centrally Sponsored Scheme 'Services for Children in need of Care and Protection'. Matching contribution is to be

made available by the Government of India for providing the grants-in-aid to the Voluntary Welfare Organisations engaged in the service of children.

Women Welfare

15.6. Under the scheme 'Assistance to widows and destitute women', financial assistance is provided 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 the husbands, or who have been deserted by their husbands or whose husbands are physically or mentally incapable of earning a livelihood. In the Sixth Plan, an outlay of Rs. 195.00 lakh is proposed to cover 7,600 beneficiaries. For 1981-82 an outlay of Rs. 34.00 lakh has been provided. Number of such beneficiaries will be 5,200 at the end of the year 1980-81. 600 additional beneficiaries will be covered every year during the Sixth Plan.

15.7. Institutional care is also provided to widows and destitute women who are in need of normal protection, psychological adjustment, education, technical training and rehabilitation. Such care is provided in the Ashram at Jullundur and monthly assistance of Rs. 50 per month per inmate is made available. With the proposed outlay of Rs. 4.00 lakh for 1980—85, 99 beneficiaries will be covered. The number of beneficiaries in 1981-82 are expected to be 63 and a sum of Rs. 0.70 lakh has been earmarked for this purpose.

Welfare of Handicapped

15.8. 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. For this scheme an outlay of Rs. 1.10 lakh is being made during the Sixth Plan and for 1981-82, an outlay of Rs. 0.20 lakh is proposed. Under another scheme 'Supply of pros-

thetic aid to the handicapped', artificial limbs are given to the orthopaedically handicapped persons with a view to enabling them to lead a normal life. Under this scheme an outlay of Rs. 0.45 lakh is being proposed for the benefit of 105 handicapped persons during 1981-82. An outlay of Rs. 3.00 lakh has been earmarked in the Sixth Plan 1980—85 to benefit 525 such persons. Under the existing social security measures there is no provision to cover the disabled persons falling in the age group of 16—55 years. With a view to providing financial assistance to such persons also, a new scheme 'Assistance to disabled persons' has been inducted. A token provision of Rs. 0.30 lakh is proposed for the year 1981-82.

Other Programmes

15.9. An outlay of Rs. 1.00 lakh is proposed for 1981-82 to provide grant-in-aid to Voluntary Welfare Organisations/Institutions engaged in welfare activities concerning children, women, the aged and the handicapped, etc. The P.G.I., Chandigarh is imparting training to the blind in simple skills with a view to rehabilitating them in society. The State Government provides grant-in-aid to this Institute for this purpose. During 1981-82 an outlay of Rs. 1.75 lakh is proposed. For the Sixth Plan period a sum of Rs. 9.00 lakh is being set aside.

Punjab Women & Children Development & Welfare Corporation

15.10. The Punjab Women and Children Development and Welfare Corporation has been set up with authorised capital of Rs. 5.00 crore. The Corporation is providing gainful employment opportunities to needy women and prepare programmes for the welfare and development of the needy children in the State. Against the provision of Rs. 20.00 lakh in 1980-81, an outlay of Rs. 50.00 lakh is proposed as a share capital contribution to this Corporation during 1981-82.

Welfare of Ex-Servicemen

15.11. The Ex-Servicemen form a sizeable number of the population in the State. These sons of the soil, after spending the best part of their lives in the defence of the mother land deserve all

help and sympathy for resettling themselves in life. For this purpose the Punjab Ex-Servicemen Corporation has been set up with an authorised capital of Rs. 5.00 crore. The Corporation provides the soft loans to finance the income generating schemes. For 1981-82 an outlay of Rs. 40.00 lakh is proposed as share capital contribution to the Corporation.

NUTRITION

15.12. Malnutrition among the children of the under-developed countries like ours is one of the major problems affecting the social and psychological development of the children. It has been established that the physical and intelligence base is developed in early childhood. Nutrition programme is being undertaken with a view to tackling the problem of malnutrition at its very roots by taking care of expectant and nursing mothers and the pre-school children of the lowest socio-economic groups. This Programme includes Special Nutrition Programme and Integrated Child Development Services (ICDS).

Special Nutrition Programme—Under the Special Nutrition Programme the children below 6 years and mothers both expectant and nursing are covered. The nutritional diet at the rate of 30 paise per head, per day, is provided for 300 days in a year. This programme covers 5 districts of Kapurthala, Hoshiarpur, Gurdaspur, Ferozepur and Faridkot.

ICDS Projects—The ICDS projects provide a package of health nutrition and pre-schools educational services to children below six years and also to the expectant and nursing mothers. These projects are being run in five blocks, Nurpur Bedi in Ropar district, Nathana in Bhatinda district, Lambi in Faridkot district, Blachaur in Hoshiarpur district and Narot Jaimal Singh in Gurdaspur district where the traditional food 'Dalia' etc. is given. Expenditure on diet is met from the State Plan Budget and the administrative charges are paid by the Government of India. For the Nutrition Programme, an outlay of Rs. 16.00 lakh is proposed for 1981-82 to cover 15,000 beneficiaries. For the Sixth Five-Year Plan 1980—85, an outlay of Rs. 80.00 lakh is proposed to cover 75,000 beneficiaries.

CHAPTER XVI

Other Programmes

The other Plan Programmes pertain to Public Works, Punjab State Civil Supplies Corporation, Stationery and Printing, Statistics, Planning Machinery, Administrative Training Institute, Labour and Labour Welfare, Information and Publicity and Punjab Films and News Corporation. The programmes are briefly described below.

PUBLIC WORKS

16.2 Many Government administrative and office buildings, particularly at the district, tehsil and local levels, are in a bad shape. There is also an urgent need for the construction of new Courts, Police Stations and Jail Buildings and major improvements in the existing buildings. More Circuit Houses/Guest Houses are needed. Keeping in view the need to improve the administrative efficiency, the construction of office buildings has been given adequate importance. An outlay of Rs. 1400.00 lakhs has been proposed for Sixth Five-Year Plan for this purpose. An expenditure of Rs. 179.06 lakhs was incurred during 1979-80 on such public works. During 1980-81, an outlay of Rs. 246.00 lakhs has been provided. An outlay of Rs. 250.00 lakhs is proposed for 1981-82. Various works to be taken up in 1981-82 and 1980—85 are as under :—

1. Administrative Complexes:

16.3 The State has 3 divisions 12, districts, 45 sub-divisions/tehsils and 49 sub-tehsils. For convenience to the public it has been decided that all Government offices and Courts in a town will be constructed at one place.

16.4 During 1979-80 the construction works were in progress at 15 places and an expenditure of Rs. 46.20 lakhs was incurred. An outlay of Rs. 85.00 lakhs has been provided for 1980-81 for the on-going works only. During 1981-82 an outlay of Rs. 89.00 lakhs has been proposed for the completion of some of the on-going projects.

Main stress during Sixth Five-Year Plan 1980—85 will be on the completion of the works already in hand. For this purpose an amount of Rs. 610.00 lakhs has been proposed for Sixth Five-Year Plan. The details of these works are given in Annexure-I.

2. Courts:

16.5 At present construction of court buildings at 6 places is in progress. These works are proposed to be completed on a priority basis during the Sixth Five-Year Plan. For this purpose an outlay of Rs. 57.00 lakhs has been proposed. An expenditure of Rs. 6.63 lakhs was incurred during 1979-80. An outlay of Rs. 9.00 lakhs have been provided for 1980-81. During 1981-82 Rs. 9.00 lakhs have been proposed for the on-going works. The details of these works are given in Annexure I.

3. Patwar-Khanas

16.6 It is proposed to construct 585 Patwar-Khanas, during Sixth Five-year Plan, one at each focal point. A provision of Rs. 70.00 lakhs has been made to cover 30 percent of the cost as seed money during the plan period. The balance of 70 per cent is to be raised from H.U.D.C.O., Accordingly 100 Patwar-Khanas are proposed to be constructed during 1980-81, for which a provision of Rs. 15.00 lakhs exists in Budget and during remaining four years of the 6th Plan, 480 Patwar-Khanas will be constructed i.e. 120 Patwar-Khanas every year.

For the year 1981-82 an outlay of Rs. 15.00 lakhs has been proposed for construction of 120 Patwar Khanas.

4. Police Stations:

16.7 Police Stations in the State are in 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. 203.00

lakhs has been proposed in the Sixth Five-Year Plan. An expenditure of Rs. 18.24 lakhs was incurred during 1979-80. For 1980-81 a provision of Rs. 42.00 lakhs has been made. Similar amount has been proposed for 1981-82. However, priority will be given first to the completion of 10 Police-Stations already under construction. New works will be taken-up thereafter.

5. Jails

16.8 In order to create a better psychological atmosphere, which may enable the prisoners on their release to smoothly re-enter the normal stream of life, it is proposed to provide certain basic amenities of living in jails. For this purpose an outlay of Rs. 360.00 lakhs has been proposed during the Sixth Five-Year Plan for the construction of jail buildings and the provisions of facilities, like flush latrines etc. An expenditure of Rs. 82.42 lakhs was incurred during 1979-80.

A sum of Rs. 75.00 lakhs has been provided in 1980-81 for this purpose. In 1981-82 an outlay of Rs. 75.00 lakhs has been provided for completions of some of these on-going projects. The details of project-wise provisions are given in Annexure-I.

6. Circuit Houses and Rest Houses :

16.9 An outlay of Rs. 100.00 lakhs has been proposed in Sixth Five-Year Plan for the construction of Circuit Houses, Guest Houses and Rest Houses. During 1979-80 an amount of Rs. 25.57 lakhs was spent under this scheme. The major expenditure during 1980-81 will be incurred on the construction of State Guest House at Chandigarh. During 1981-82 provision of Rs. 20.00 lakhs is being proposed for the scheme Circuit Houses/Rest Houses out of which a sum of Rs 13.00 lakhs will be for the construction of State Guest House at Chandigarh and Rs. 7.00 lakhs for the construction of other Guest/Rest Houses in the State.

ANNEXURE I

(Rs. in lakhs)

Administrative complexes		Approved outlay		
		1980-81	1981-82	1980-85
1. Tehsil Complex, Gurdaspur	..	2.05	4.05	6.05
2. Tehsil Complex, Pattī	..	4.10	4.40	8.45
3. Tehsil Complex, Fatehgarh Shih	..	6.50	6.50	12.10
4. Tehsil Complex, Balachaur	..	5.00	5.00	14.00
5. Tehsil Complex, Samrala	..	1.00	5.00	5.00
6. Tehsil Complex, Pathankot	..	1.00	5.00	20.00
7. Tehsil Complex, Talwandi Sabo	..	1.00	3.00	20.00
8. Tehsil Complex, Barnala	..	10.00	6.00	20.00
9. Tehsil Complex, Khanna	..	—	5.00	20.00
10. Tehsil Complex, Mukerian	..	5.00	5.00	10.00
11. Tehsil Complex, Kharar	..	10.00	—	10.00
12. District Administrative Complex, Jullundur	..	10.00	6.00	29.00
13. District Administrative Complex, Amritsar	..	6.00	6.00	126.00
14. District Administrative Complex, Faridkot	..	7.00	5.00	87.00
15. District Administrative Complex, Rupnagar	..	—	5.00	19.00
16. Administrative Complex at Baba-Bakala	..	7.35	4.05	34.00
17. Administrative Complex at Giddarbaha	..	3.00	3.00	12.40
18. Administrative Complex at Moga	..	1.00	1.00	37.00
19. Commissioner's Office at Ferozepur	..	—	3.00	3.00
20. Office of residence building for Deputy Excise and Taxation Commissioner, Ferozepur Division, Ferozepur	..	—	4.00	27.00
21. Sub-Divisional Administrative Complex at Nawanshehar	..	—	3.00	40.00
22. Tehsil Complex at Rajpura	..	—	—	18.00
23. Tehsil Complex at Batala	..	—	—	17.00
24. Sub-Divisional Complex at Bholath	..	—	—	10.00
25. Administrative Complex at Kharar	..	5.00	—	5.00
		<hr/>		
	Total	85.00	89.00	610.00

(Rs. in lakhs)

	Approved outlay	Outlay proposed	
	1980-81	1981-82	1980-85
COURTS			
1. Court complex at Ajnala	—	1.00	1.00
2. Court complex at Phagwara	3.00	2.00	4.00
3. Court complex at Samrala	2.00	2.00	14.00
4. Court complex at Barnala	2.00	2.00	18.00
5. Court complex at Kharar	1.00	1.00	10.00
6. Court complex at Sultanpur Lodhi	1.00	1.00	10.00
Total	9.00	9.00	57.00
Spillover-works			
JAILS			
1. Construction of open Air Jail, Nabha	2.00	3.00	10.00
2. Construction of new Jail at Ludhiana	55.00	52.00	200.00
3. Provision of Flush latrines in Punjab Jails	2.00	2.00	15.00
4. Construction of Open Air Jail, Kapurthala	2.00	2.00	20.00
5. Construction of Sub-Jail Ropar (Purchase of land)	8.28	8.28	20.00
6. Construction of undertrials wings at Amritsar/Patiala	5.72	5.72	15.00
Total	75.00	73.00	280.00
NEW WORKS			
1. Construction of Warders Staff quarters	—	2.00	30.00
2. Construction of sub-jail, Phagwara	—	—	20.00
3. Construction of sub-Jail, Barnala	—	—	10.00
4. Construction of sub-Jail, Dasuya	—	—	10.00
5. Additional alternation of B.J. Jail, Faridkot	—	—	10.00
Total	—	2.00	80.00
Grand Total	75.00	75.00	360.00

LABOUR AND LABOUR WELFARE

16.10 Labour Welfare, Employment Services and Industrial Training are included under this subhead.

Labour Welfare

16.11 Outlays of Rs. 2.80 lakh for 1981-82 and Rs. 12.50 lakh for Draft Sixth Plan, 1980-85 are proposed for the continuation of the two old schemes and the introduction of two new schemes.

Adequate provision has been made for the continuing schemes of :—

	(Rs. in lakhs)
(i) Strengthening of enforcement machinery for Minimum Wages Act, 1948 ..	1.70
(ii) Setting up of Industrial Hygiene Laboratory ..	0.40

One of the two new schemes which are proposed to be implemented during the Sixth Plan relates to the setting up of 'Enforcement machinery for the welfare of agricultural labourers'. The scheme is meant to implement effectively the labour laws for the regulation of the working hours, working conditions and wages of agricultural labourers. Stricter enforcement of labour laws will also be undertaken. Under the other scheme it is proposed to set up a Mobile Court for speedy disposal of labour disputes. Only token provision has been made for the two new schemes. Full allocation of funds will be made after the details have been worked out.

Employment Services

16.12 Employment Exchanges and a new programme for the Removal of Poverty are included under the programme 'Employment Services'.

(a) *Employment Exchanges*.—Employment Exchanges are an important instrument for providing suitable placement services to the jobseekers. For Annual Plan 1981-82 and for the Sixth Five-Year Plan 1980-85, the outlays of Rs. 1.70 lakh and Rs. 6.00 lakh are proposed respectively for the continuation of an on-going scheme and also for a new scheme 'Setting up of (a) career unit, (b) self-employment unit for which a token provision of Rs. 0.70 lakh has been made.

(b) *Removal of Poverty*.—A new programme 'Removal of Poverty' is to be initiated from 1981-82 with a view to providing gainful employment to the families below the poverty line. To identify these families, a census survey has already been launched throughout the State. A comprehensive programme of providing employment to the unemployed will be formulated on the basis of that available information. For this purpose an amount of Rs. 500.00 lakh has been earmarked for 1981-82. A provision of Rs. 2000.00 lakh has been made for the Sixth Plan.

Industrial Training

16.13 In a developing economy, basic level skilled man-power in different engineering and non-engineering trades plays an important role in the process of industrialisation and self-employment oriented programmes. The Industrial Training Programme ensures a steady flow of basic level skilled man-power, trained systematically and scientifically to the industrial and commercial sectors. For this programme outlays of Rs. 41.50 lakh for the Annual Plan 1981-82 and Rs. 211.00 lakh for the Sixth Plan 1980-85 are proposed. Details of the various programmes are as under :—

(a) Craftsmen Training

16.14 There are 39 Industrial Training Institutes in the State with 12316 seats in different industrial trades. This programme is run on the All-India pattern and is controlled and regulated according to the policies of the Directorate-General of Employment and Training. For the Annual Plan 1981-82 and the Sixth Plan 1980-85, outlays of Rs. 29.50 lakh and Rs. 152.50 lakh respectively are proposed. These funds are provided mainly for the strengthening of the existing institutes by providing buildings, material and machinery, tools and equipment and training to the existing staff and also for the introduction of new trades and addition of more seats in these institutes. The proposed provision will be utilised for the on-going schemes, as given below :—

- (i) conversion of unpopular trades into popular trades ;

- | | |
|--|---|
| <ul style="list-style-type: none"> (ii) addition to and replacement of worn-out tools and equipment in existing institutes ; (iii) training, seminars and study tours of the staff ; (iv) completion of the I.T.I. buildings ; (v) strengthening of the training-cum-placement cell to maintain link between the industry and the passed out trainees to help them to locate employment opportunities ; (vi) strengthening the Apprenticeship Training Wing to cope with the additional work load ; (vii) instructional centre at Chandigarh ; (viii) modernisation of I.T.I. Patiala under U.N.D.P./I.L.O. aid programme to provide highly specialised courses in Indian standard and blue-print reading, tools and the die making and electrical and mechanical maintenance ; (ix) the conversion of Rural Artisan Training Centres/Junior Training Centres/Government Industrial Schools into Industrial Training Institutes. | <p style="text-align: center;">Industrial Teachers Training
Institute, Jullundur ;</p> <ul style="list-style-type: none"> (ii) construction of new buildings for schools ; (iii) opening of new schools and introduction of additional seats in 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. |
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PUNJAB STATE CIVIL SUPPLIES CORPORATION

16.16 The Punjab State Civil Supplies Corporation Ltd., was incorporated on 14th February, 1974 with an authorised capital of Rs. 5.00 crores. At present the paid up share capital of the Corporation is Rs. 3.53 crores. The main objective for setting up the Corporation was to hold the price line and to ensure regular supply of essential commodities at reasonable rates to the people in general and to the weaker sections of the society in particular. The main objectives before the Corporation, therefore, were to undertake purchase, storage, movement, distribution and sale of food-grains, other stocks and essential commodities in the State.

An outlay of Rs. 10.00 lakhs has been provided for 1981-82 and Rs. 50.00 lakhs for the Sixth Five-Year Plan, as share capital contribution to PUNSUP.

10. STATIONERY AND PRINTING

16.17 An outlay of Rs. 60.00 lakhs has been proposed for the Sixth Plan period and Rs. 11.00 lakhs for 1981-82. An expenditure of Rs. 11.84 lakhs was incurred during 1979-80. An outlay of Rs. 11.00 lakhs has been provided for 1980-81. Major emphasis has been laid on the purchase of

(b) Industrial Schools for Girls

16.15 As some trades are more suited to girls, training facilities are provided for them in 44 industrial schools with 3678 seats. Training in these schools is imparted according to 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. For the Annual Plan 1981-82 and Sixth Plan 1980-85 outlays of Rs 12.00 lakh and Rs. 57.50 lakh are proposed respectively under this programme to strengthen the existing industrial schools by providing buildings, material and machinery, tools and equipment, training to staff and also for introducing new trades and for additional seats in these schools. The proposed provision is for the on-going schemes :—

- (i) completion of building of Government

machinery/construction of Press Building at Patiala and S.A.S. Nagar. It has also been proposed to open typewriters workshop at, Faridkot, Ropar, Kapurthala and strengthen the Central Workshop at Chandigarh.

INFORMATION AND PUBLICITY

16.18 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. It is, therefore, proposed to shift gradually from man based to media-based publicity. For this purpose outlays of Rs. 37.50 lakhs for 1981-82 and Rs. 180.00 lakhs for the Sixth Plan are proposed mainly for the existing programmes.

Direction and Administration :

16.19 It is proposed to strengthen the Department of Public Relations at the headquarter by providing some essential additional staff. An outlay of Rs. 2.70 lakhs in the Annual Plan 1981-82 and Rs. 12.00 lakhs in the Sixth Plan is being proposed for this purpose. A sum of Rs. 2.00 lakhs in the Sixth Plan and Rs. 0.50 lakh in the Annual Plan 1981-82 has been earmarked for the scheme 'Purchase of books for 'library at headquarters'. A small outlay of Rs. 0.20 lakh for the Annual Plan 1981-82 and Rs. 0.80 lakh for the Sixth Plan is being proposed under the scheme 'Feed Back Studies' in order to ascertain the response of the audience to the various programmes.

Films

16.20 An outlay of Rs. 14.00 lakh has been proposed for the Sixth Plan and Rs. 3.00 lakhs for the Annual Plan 1981-82 for the production of documentary films, newsreels and for the purchase of feature films for the entertainment and education of the people.

Punjab Films and News Corporation

16.21 The Punjab Films and News Corporation limited is wholly owned by the State Government. It was incorporated on 26th June, 1973, under the Companies Act, 1956. The State Government has so far provided Rs. 100.00 lakhs share capital contribution. The corporation has been set up with a view to promoting and developing Punjabi Culture through the media of films in the State.

A token provision of Rs. 1.00 lakh and Rs. 5.00 lakhs has been proposed for the Annual Plan 1981-82 and Sixth Plan 1980-85, respectively.

Field Publicity

16.22 Sub-Centres of publicity are established at the tehsil level with a view to strengthening publicity in villages. An outlay of Rs. 50.20 lakhs has been proposed for the Sixth Plan. An outlay of Rs. 10.00 lakhs is earmarked for the year 1981-82 against the approved outlay of Rs. 9.00 lakhs for the year 1980-81. An outlay of Rs. 10.00 lakhs has been proposed for the Sixth Plan for providing TV sets to the village panchayats and in Harijan Basties on subsidised basis. Under this scheme, village panchayats contribute 2/3rds of the cost of the TV sets. A sum of Rs. 2.00 lakhs has been set-aside for 1981-82 against the outlay of Rs. 2.00 lakhs for 1980-81. A sum of Rs. 10.00 lakhs is proposed under the scheme 'Purchase and Production of Literature' for the Sixth Plan period. The proposed outlay for 1981-82 is Rs. 2.00 lakhs.

Song and Drama Services

16.23 The Light and Sound Unit was set up in the State to stage shows in cities and villages. To continue this unit, an outlay of Rs. 14.00 lakhs has been provided for the Sixth Plan. A sum of Rs. 3.00 lakhs has been proposed for the year 1981-82 against the outlay of Rs. 3.00 lakhs for 1980-81. A provision of Rs. 20.00 lakhs has been proposed for the Sixth Plan to strengthen the Song and Drama Services by adding folk music, dhadhi/Kavisheri Jathas, Bhajan Mandlies and drama parties. A sum of Rs. 4.00 lakhs has been set aside for 1981-82.

Advertising Visual Publicity

16.24 To hold exhibitions in the State, a sum of Rs. 14.00 lakhs has been provided in the Sixth Plan under the scheme 'Exhibitions'. An outlay of Rs. 3.00 lakhs is being proposed for 1981-82 against the outlay of Rs. 2.40 lakhs for 1980-81. A small outlay of Rs. 0.50 lakh has been set-aside in the Sixth Plan for the Scheme 'Community Listening' mainly for the maintenance of Community sets. The provision for 1981-82 is at the level of the outlay of Rs. 0.10 lakh for 1980-81.

Information Centres

16.25 Under this programme there is only one scheme namely 'Teleprinter lines' to inter-link district headquarters with State headquarters through teleprinter lines. Teleprinter lines have already been provided to link Chandigarh, with District headquarters at Ludhiana, Bhatinda, Jullundur, Amritsar, Patiala, Faridkot and Delhi also. It is proposed to link the remaining district headquarters with Chandigarh through teleprinter lines during the Sixth Plan. An outlay of Rs. 10.00 lakhs is being set-aside in the Sixth Plan and Rs. 2.00 lakhs in the Annual Plan 1981-82 for this purpose.

PLANNING MACHINERY

16.26 The Planning Machinery in the State has been re-organised. There is a high level State Planning Board with the Chief Minister as its ex-officio Chairman. The Planning and Finance Minister as its Ex-officio Deputy Chairman. Specialists in various subjects are its members. The Secretary Planning is its member Secretary.

16.27 Besides the House-Keeping Divisions, the Staff working in the Planning Board has been re-organised into the following 12 Divisions for dealing with different subjects :—

- (1) Plan Co-ordination Division.
- (2) Economic Division.
- (3) Local Plans Division.
- (4) Agriculture and Rural development Division.
- (5) Irrigation and Drainage and Flood Control Division.
- (6) Employment and Man-Power Division.
- (7) Energy Division.
- (8) Trade and Transport Division.
- (9) Industry and Mineral Division.
- (10) Housing and Urban Development Division.
- (11) Special (Backward) Areas Division.
- (12) Social Services Division.

16.28 The Plan Co-ordination Division consists of largely the Secretariat staff and undertakes the co-ordination works relating to Planning. The other 11 Divisions consist of technical staff and each of these division is to be headed by a subject Specialist or a Director. Such an arrangement will create a unified and professionally competent Planning organisation which would measure upto the growing complexity and sophistication of the Planning Department 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. For this purpose the State Planning organisation needs the following :—

- (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.
- (7) Seminars and workshop on State Planning and participation in conferences of Planning.

16.29 An outlay of Rs. 10.00 lakhs has been provided for 1981-82 for strengthening the Planning Machinery in the State, in the above mentioned fields. During Sixth Five Year Plan an outlay of Rs. 50.00 lakhs has been proposed for this purpose. Steps will be taken to have the Subject Matter Specialists, Directors and their supporting staff in position as early as possible.

16.30 It is hoped that assistance from the Planning Commission will be available for the schemes proposed to be implemented during 1981-82, and Sixth Five Year Plan on the same pattern as heretofore, i.e. 2/3rd of the total approved items of expenditure with a view to build up the organisation to the required level of competence and efficiency

Statistics

16.31 The Economic and Statistical Organisation (ESO) has made good progress in the collection and presentation of data on the State economy. However, the Organisation has to enlarge its activities in several new directions to meet the growing data requirements of the Planning and the implementing departments. The Sixth Plan programmes with regard to statistics have been drawn up keeping in view these gaps and requirements and a provision of Rs. 85.00 lakhs has been proposed. For 1981-82, an outlay of Rs. 17.00 lakhs is proposed.

16.32 Capital formation unit was set up during 1979-80, it is proposed to collect detailed data separately for the household and the non-household sectors. For this purpose an outlay of Rs. 3.08 lakhs is required in 1981-82.

16.33 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 the preparation of District Plans. It is proposed to strengthen these offices with the appointment of a Senior Officer and other supporting staff. With the enhanced strength it will be possible for the office to review and monitoring district plans and supervise conduct of statistical studies at district/block level. An amount of Rs. 7.00 lakhs is being proposed in 1981-82 for this scheme.

16.34 An adhoc provision of Rs. 0.20 lakh is proposed for the purchase of computer timings during 1981-82 for getting the data tabulated quickly.

16.35 For conducting adhoc studies on subjects suggested by Central and State Governments a provision of Rs. 2.04 lakhs is being made in 1981-82. Sample survey of wholesale and retail trade statistics, social statistics and of consumer expenditure and employment in selected blocks, will be undertaken in 1981-82.

16.36 The evaluation section, strengthened during the current year, will be maintained at a cost

of Rs. 1.98 lakhs during 1981-82 for taking additional evaluation work of All-India co-ordinated evaluation studies on different subjects and evaluation studies proposed by the State.

16.37 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 1981-82.

16.38 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. 1.00 lakhs is proposed for the year 1981-82.

16.39 In brief, all the schemes which are included in the Annual Plan 1980-81, will continue during the Sixth Five-Year Plan at an estimated cost of Rs. 85.00 lakhs.

11. Administrative Training Institute

16.40 The Institute came into being in March, 1978. 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 I.A.S. allotted to the State of Punjab, the P.C.S. probationers and entrants to allied general services.

16.41 An outlay of Rs. 50.00 lakhs has been proposed during Sixth Five-Year Plan. An expenditure of Rs 10.00 lakhs was incurred during 1979-80. During 1980-81 an outlay of Rs. 9.00 lakhs has been provided. 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.

16.42 An outlay of Rs. 9.00 lakhs has been proposed during 1981-82. This would be used to cover the recurring and non-recurring expenses including payment of instalment towards the cost of land.

CHAPTER XVII

Employment

The employment situation in the State is characterized by shortage of farm labour in busy agricultural season, under-employment, some unemployment in slack agricultural season, a fairly low female labour force participation, drift of educated youth from rural to urban areas in search of white collar employment and significant incidence of unemployment among the educated including those having the technical and professional qualifications.

17.2. The parameters provided by the 32nd round (July, 1977-June, 1978) of National Sample Survey have been utilised to build up the estimates of labour force, work force and unemployment in the State. Some of the key results pertaining to State Sample have been tabulated by the Economic and Statistical Organisation, Punjab for the population (in age-group 15-59) according to current weekly activity status and daily activity status. The sex-residence rates as provided by the State Sample results have been applied to the population projections to work out the estimates on the assumption that present trends will continue. Percentage distribution of population (age-group 15-59) by current activity status, residence and sex in 1977-78 is given at annexure -I.

17.3. According to the current weekly status, 87.50 per cent of the rural males (in 15—59 age-group) in Punjab were in the labour force. The participation of females in the labour force in this State was very low. Rural female labour force constituted merely 4.24 per cent of their total population. However, in the urban areas the female labour force participation was comparatively higher (8.46 per cent). More and more women were joining the regular paid employment in the urban areas. The proportion of unemployed females was insignificant (0.25 per cent) in the rural areas. In urban areas the unemployed females formed 1.38 per cent of their total population.

17.4. The labour force participation rates based on daily activity status were lower than those

based on weekly activity status. This was true both in the case of males and females and also in urban as well as rural areas.

Labour Force

17.5. According to current weekly activity status the size of the labour force (in 15-59 age-group) on the eve of the Sixth Five-Year Plan was 40.11 lakh. It consisted of 38.07 lakh males and 2.04 lakh females. The size of the female labour force was very small (5.1 per cent of the total labour force) in comparison to the male labour force. Rural labour force constituted 74.0 per cent of the total labour force. During the Sixth Plan period (1980—85) 4.10 lakh more persons (3.88 lakh males and 0.22 lakh females) are expected to enter the labour market in the State. Addition in labour force during the year 1981-82 is estimated at 81 thousand persons.

17.6. According to the current daily activity status the size of the labour force as on 31st March, 1980 was 39.79 lakh. It is expected to increase to 41.37 lakh as on 31st March, 1982 and 43.86 lakh as on 31st March, 1985 (See annexure-II).

Working Force

17.7. Estimates of working force for the Sixth Plan period are given at annexure-III. The number of workers (on weekly activity status basis) in the State is expected to increase from 38.90 lakh on the eve of the Sixth Plan to 42.87 lakh at its end. If the present trends continue, there would thus be an increase of 3.97 lakh workers in the State during the Sixth Plan period. However, on daily activity status basis the number of workers is expected to increase from 37.81 lakh as on 31st March, 1980 to 41.68 lakh as on 31st March, 1985 (i.e. by 3.87 lakh in a span of five years). Addition in working force during the year 1981-82 is estimated at 79 thousand and 76 thousand on weekly status basis and daily status basis respectively. As gainful work is not normally available uniformly over all the seven days of the week, the number of

persons categorised as "working" according to daily activity is expected to be less than the number of persons "working" according to 'weekly activity'. The difference between these two types of estimates, therefore, broadly gives a measure of a kind of underutilisation or under-employment on an average every week arising out of non-availability of gainful work throughout the week.

Unemployment Estimates

17.8. Estimates of unemployed persons in age-group 15-59 for the Sixth Plan period on the assumption of continuation of the present trends, are given at annexure-IV. On the eve of the Sixth Plan the number of unemployed is estimated at 1.22 lakh on weekly status basis and 1.98 lakh on daily status basis. At the end of the Annual Plan, 1981-82 their number is expected to rise to 1.27 lakh and 2.06 lakh respectively while at the end of the Sixth Plan their number is estimated to increase to 1.34 lakh and 2.18 lakh respectively. The magnitude of unemployment determined on the basis of daily status of the people is the most inclusive (as the weekly and usually unemployed are obviously covered in this group) and indicative of the extent of wastage of manpower.

17.9. On daily activity status basis, the number of female unemployed was only 22.44 thousand as on 31st March, 1980 and it is expected to increase to 23.33 thousand as on 31st March, 1982 and 24.74 thousand as on 31st March, 1985. Though women constituted only 5.1 per cent of the total labour force, their proportion among unemployed was much higher (11.3 per cent). The number of female unemployed was more in the urban areas than in the rural areas. More and more of educated women in the urban areas are entering the labour market. In villages, women belonging to cultivating families generally confine themselves to their household duties.

Educated unemployment

17.10. The employment situation has been discussed in the preceding paragraphs in its overall context. However, the problem of educated manpower requires separate attention. Unfortunately it has not been possible to classify the labour force into educational categories due to limitations of data. The unemployment situation among them has, therefore, been discussed on the basis of their

number registered with the employment exchanges in the State. Despite their known limitations, the Live Register statistics (as given at annexure-V) indicate the seriousness and the broad magnitude of the problem of unemployment among educated persons in the State.

17.11. As on 30th June, 1980 there were 82,794 technical personnel and 1,41,685 generally educated (freshers) persons registered with the employment exchanges in the State. Unemployment had increased by 2.37 per cent and 8.65 per cent among them respectively during the last one year. On the whole the growth of unemployment was not as serious among technical personnel as in the case of generally educated persons. Rather there was decline in unemployment among engineering graduates, diploma holders, skilled craftsmen, allopathic doctors, para-medical personnel and agricultural graduates/post-graduates. In other words the State economy has been in a position to absorb not only their institutional out-turn but also make some dent into their back-log during the last one year. On the other hand there was significant increase in unemployment among non-allopathic doctors (68.15 per cent), veterinary graduates (83.64 per cent) and B.Ed. and M.Ed. teachers (18.39 per cent) in one year. Among generally educated persons only matriculates and under-graduates had witnessed a big rise (14.18 per cent) in their number on the Live Register whereas there was a fall of 24.97 per cent in unemployment among post-graduates (freshers). There was only marginal increase (0.77 per cent) in unemployment among graduates (freshers).

Direct employment estimates for 1979-80 and 1980-81

17.12. In April, 1980 the State Planning Department had asked the State Government departments/Organisations concerned with the Plan to supply information regarding the additional employment (direct) actually generated under the Annual Plan, 1979-80 and likely to be generated under Annual Plan, 1980-81. The information was called for in broadly classified categories. There are, however, some gaps in the information supplied by the State Government departments/Organisations. As such only tentative estimates of construction and continuing employment generated/to be generated under Annual Plans 1979-80 and 1980-81 have been worked out and are given at annexures VI and VII respectively. These estimates indicate that construction employment

equivalent to 49.86 lakh person-days and continuing employment equivalent to 10.29 thousand person-years was generated during the Annual Plan, 1979-80. The respective employment figures for the Annual Plan, 1980-81 are anticipated at 70.25 lakh person-days and 10.58 thousand person-years. The educational break-up of the continuing employment depicts that 74.3 per cent of the regular employment in 1979-80 and about 76.0 per cent during 1980-81 was meant for the educated persons.

Employment Strategy

17.13. The State Government has set itself the task of removal of unemployment and poverty and concerted efforts will be made during the Sixth Five Year Plan, 1980—85 in this direction. The objective before the Government is to help people living in the poverty zone to stand on their own feet, earn their livelihood with financial and technical assistance from Government and participate fully in the economic development of the State. Marginal farmers, landless labour, rural artisans of various kinds and scheduled castes constitute the bulk of such a population. The special needs and potential of each of these major occupational groups is proposed to be met through appropriate programmes. A massive State-wide survey is being conducted to identify the individual families living in the poverty zone. After the availability of the results of this survey concrete programmes would be formulated and taken up to benefit the poorest sections of the society. Institutional finance is being mobilised to the extent of Rs. 30 crores during the year 1980-81 itself by the Punjab Scheduled Castes Land Development and Finance Corporation and the Punjab Backward Classes Land Development and Finance Corporation for extending interest free financial assistance to Scheduled Castes, Backward Classes and other economically weaker sections of the society under various income generating schemes. For removal of poverty and unemployment an outlay of Rs. 5 crores has been

tentatively earmarked under the Annual Plan, 1981-82 and Rs. 20 crores under the revised Sixth Five Year Plan (1980—85). Greater stress is being laid on the development of self-employment occupations. In addition to the development programmes proposed to be implemented by the State Government during the Sixth Plan period, national programmes like Operation Flood-II and Training Rural Youth for Self Employment (TRYSEM) are expected to promote self-employment opportunities on a wide scale in the rural areas of the State. These programmes are expected to benefit particularly the economically weaker sections of the society. The State has a large reservoir of educated unemployed persons. It is hoped that with the implementation of the Sixth Plan programmes there would be gradual reduction in unemployment through the creation of direct and indirect employment opportunities for these people. Industrial growth both in public and private sectors will also help to generate additional job opportunities. As there is limited scope for paid employment, the educated youth will be exhorted to take up self-employment. Efforts would be made to develop an interacting beneficial relationship among education, employment and development.

Direct Employment Estimates for 1981-82 and 1980—85

17.14. Information regarding employment content (direct) of the Plan programmes was called for in the 'Employment Statement' devised by the Planning Commission from all the State Government departments/organisations concerned with the Plan alongwith their proposals for the Annual plan 1981-82 and revised Sixth Five-Year Plan, 1980—85. On the basis of the response from the concerned departments/organisations purely tentative and rough estimates of direct employment (construction and continuing employment) have been worked out and are given at annexures VIII and IX.

ANNEXURE II(a)

Estimates of Labour Force (15—59 age-group) in Punjab classified by Sex and Residence (on current weekly activity status basis)

(Persons in lakhs)

Residence/Sex	As on 31st March				Increase during 1981-82	Increase during 1980—85	
	1980	1981	1982	1985			
	1	2	3	4	5	6	7
Rural							
Males	..	28.45	29.01	29.58	31.35	0.57	2.90
Females	..	1.23	1.25	1.29	1.36	0.04	0.13
Persons	..	29.68	30.26	30.87	32.71	0.61	3.03
Urban							
Males	..	9.62	9.81	10.00	10.60	0.19	0.98
Females	..	0.81	0.84	0.85	0.90	0.01	0.09
Persons	..	10.43	10.65	10.85	11.50	0.20	1.07
Total							
Males	..	38.07	38.82	39.58	41.95	0.76	3.88
Females	..	2.04	2.09	2.14	2.26	0.05	0.22
Persons	..	40.11	40.91	41.72	44.21	0.81	4.10

ANNEXURE II (b)

Estimates of Labour Force (15—59 age-group) in Punjab classified by Sex and Residence (on current daily activity status basis)

(Persons in lakhs)

Residence/Sex	As on 31st March				Increase during 1981-82	Increase during 1980-85	
	1980	1981	1982	1985			
	1	2	3	4	5	6	*7
Rural							
Males	..	28.25	28.81	29.38	31.14	0.57	2.89
Females	..	1.20	1.22	1.24	1.32	0.02	0.12
Persons	..	29.45	30.03	30.62	32.46	0.59	3.01
Urban							
Males	..	9.53	9.72	9.92	10.51	0.20	0.98
Females	..	0.81	0.82	0.83	0.89	0.01	0.08
Persons	..	10.34	10.54	10.75	11.40	0.21	1.06
Total							
Males	..	37.78	38.53	39.30	41.65	0.77	3.87
Females	..	2.01	2.04	2.07	2.21	0.03	0.20
Persons	..	39.79	40.57	41.37	43.86	0.80	4.07

ANNEXURE III(a)

Estimates of Working-Force (15—59 age-group) in Punjab classified by Sex and Residence (on current weekly activity status basis)

(Persons in lakhs)

Residence/Sex	As on 31st March				Increase during 1981-82	Increase during 1980-85
	1980	1981	1982	1985		
1	2	3	4	5	6	7
Rural						
Males	27.77	28.31	28.87	30.60	0.56	2.83
Females	1.16	1.18	1.21	1.28	0.03	0.12
Persons	28.93	29.49	30.08	31.88	0.59	2.95
Urban						
Males	9.29	9.47	9.66	10.24	0.19	0.95
Females	0.68	0.70	0.71	0.75	0.01	0.07
Persons	9.97	10.17	10.37	10.99	0.20	1.02
Total						
Males	37.06	37.78	38.53	40.84	0.75	3.78
Females	1.84	1.88	1.92	2.03	0.04	0.19
Persons	38.90	39.66	40.45	42.87	0.79	3.97

ANNEXURE III(b)

Estimates of Working-Force (15—59 age-group) in Punjab classified by Sex and Residence (on current daily activity status basis)

(Persons in lakhs)

Residence/Sex	As on 31st March				Increase during 1981-82	Increase during 1980—85	
	1980	1981	1982	1985			
	1	2	3	4	5	6	7
Rural							
Males	..	26.90	27.43	27.97	29.65	0.54	2.75
Females	..	1.11	1.13	1.15	1.22	0.02	0.11
Persons	..	28.01	28.56	29.12	30.87	0.56	2.86
Urban							
Males	..	9.13	9.31	9.50	10.07	0.19	0.94
Females	..	0.67	0.68	0.69	0.74	0.01	0.07
Persons	..	9.80	9.99	10.19	10.81	0.20	1.01
Total							
Males	..	36.03	36.74	37.47	39.72	0.73	3.69
Females	..	1.78	1.81	1.84	1.96	0.03	0.18
Persons	..	37.81	38.55	39.31	41.68	0.76	3.87

ANNEXURE IV (a)

Estimates of unemployed (15-59 age-group) in Punjab classified by Sex and Residence (on current weekly activity status basis)

(Persons in thousands)

Residence/Sex	As on 31st March				Increase during 1981-82	Increase during 1980-85
	1980	1981	1982	1985		
1	2	3	4	5	6	7
Rural						
Males	68.28	69.62	70.99	75.26	1.37	6.98
Females	7.27	7.41	7.55	8.01	0.14	0.74
Persons	75.55	77.03	78.54	83.27	1.51	7.72
Urban						
Males	33.05	33.71	34.37	36.44	0.66	3.39
Females	13.33	13.59	13.86	14.69	0.27	1.36
Persons	46.38	47.30	48.23	51.13	0.93	4.75
Total						
Males	101.33	103.33	105.36	111.70	2.03	10.37
Females	20.60	21.00	21.41	22.70	0.41	2.10
Persons	121.93	124.33	126.77	134.40	2.44	12.47

ANNEXURE IV (b)

Estimates of unemployes (15—59 age-group) in Punjab Classified by Sex and Residence (on current daily activity status basis)

(Persons in thousands)

Residence/Sex	As on 31st March				Increase during 1981-82	Increase during 1980—85
	1980	1981	1982	1985		
1	2	3	4	5	6	7
Rural						
Males	135.25	137.91	140.62	149.08	2.71	13.83
Females	8.73	8.90	9.07	9.62	0.17	0.89
Persons	143.98	146.81	149.69	158.70	2.88	14.72
Urban						
Males	40.38	41.17	41.98	44.50	0.81	4.12
Females	13.71	13.98	14.26	15.12	0.28	1.41
Persons	54.09	55.15	56.24	59.62	1.09	5.53
Total						
Males	175.63	179.08	182.60	193.58	3.52	17.95
Females	22.44	22.88	23.33	24.74	0.45	2.30
Persons	198.07	201.96	205.93	218.32	3.97	20.25

ANNEXURE—V

Statement showing the number of work-seekers (Category-wise) on the Live Register of Employment Exchanges in Punjab

Category	Number of Work-seekers as on		Percentage increase/ decrease during the year
	30th June, 1979	30th June, 1980	
1	2	3	4
1. Graduate Engineers	308	303	(—) 1.62
2. Diploma Engineers	2893	2353	(—) 18.67
3. I.T.I. Trained Craftsmen	20596	19009	(—) 8.15
4. Other Craftsmen	7109	6748	(—) 5.08
5. Allopathic Doctors	54	53	(—) 1.85
6. Doctors Others	157	264	68.15
7. Para-medical Personnel	1779	1690	(—) 5.00
8. Agricultural Specialists	424	302	(—) 28.77
9. Veterinary Graduates	55	101*	83.64
10. Dairy Graduates	2	—	—
11. Teachers (B.Ed. & M.Ed.)	16328	19330	18.39
12. Teachers (J.B.T.)	9572	9921	3.65
13. Teachers (Others)	21497	22720	5.69
14. Total (Technical Personnel unemployed)	80874	82794	2.37
15. Graduate Freshers	29534	29762	0.77
16. Post-graduate Freshers	8318	6241	(—) 24.97
17. Matriculates and below graduates (Freshers)	92558	105682	14.18
18. Total (Unemployed Freshers (Matric and above))	130410	141685	8.65
19. Live Register other than covered under items 1 to 17 above	194164	208637	7.45
20. Total Live Register	405448	433116	6.82

*Includes one M.V.Sc.

ANNEXURE—VI

Estimates of construction employment (lakh person-days)
Additional employment (direct) generated/to be generated under
Annual Plans 1979-80 and 1980-81

Sub-Head of Development	1979-80 (Actual)	1980-81 (Anticipated)
1	2	3
1. Agriculture	0.15	0.16
2. Minor Irrigation	4.66	27.66
3. Soil Conservation	0.39	1.64
4. Animal Husbandry	0.04	0.10
5. Dairying and Milk Supply	0.46	1.39
6. Forests	1.90	1.20
7. Community Development and Panchayats	3.89	6.98
8. Co-operation	0.46	2.05
9. Irrigation and Flood Control	9.69	3.50
10. Power	5.29	16.02
11. Roads and Bridges	0.30	—
12. Rural Water Supply	—	0.18
13. Urban Development	21.00	9.00
14. Public Works	1.63	0.37
Total	49.86	70.25

Note.—Estimates are tentative due to gaps in information.

ANNEXURE VII

Estimates of Continuing Employment (Person-years).

Additional Employment (Direct) generated/to be generated under Annual Plans, 1979-80 and 1980-81

Head/Sub-Head of Development	1979-80 (Actual)					1980-81 (Anticipated)				
	Un- educated or Un- skilled	Educated		Category not specified	Total	Un- educated or Un- skilled	Educated		Category not specified	Total
		Techni- cal	Non- Tech- nical				Techni- cal	Non- Tech- nical		
1	2	3	4	5	6	7	8	9	10	11
1. Agriculture & Allied Sectors										
(i) Agriculture	—	—	—	86	86	—	—	—	414	414
(ii) Minor Irrigation	—	38	—	—	38	—	50	—	—	50
(iii) Soil Conservation	—	—	—	41	41	—	—	—	169	169
(iv) Animal Husbandry	145	323	62	—	530	137	543	39	—	719
(v) Dairying and Milk Supply	—	—	—	14	14	—	—	—	175	175
(vi) Fisheries	11	26	50	—	87	5	5	10	—	20
(vii) Forests	—	—	—	56	56	—	—	—	161	161
(viii) C.D. and Panchayats	—	—	—	21	21	—	—	—	33	33
Total	156	387	112	218	873	142	598	49	952	1,741
2. Co-operation										
(i) Co-operation	—	10	492	—	502	54	51	759	—	864
Total	—	10	492	—	502	54	51	759	—	864
3. Irrigation & Power										
(i) Irrigation	—	—	—	45	45	—	—	—	45	45
(ii) Flood Control	—	—	—	—	—	—	—	—	—	—
(iii) Power	60	30	—	—	90	—	—	—	—	—
Total	60	30	—	45	135	—	—	—	45	45
4. Industry & Minerals										
(i) Industry and Minerals	99	205	98	—	402	84	433	164	—	681
Total	99	205	98	—	402	84	433	164	—	681
5. Transport and Communications										
(i) Civil Aviation	3	5	13	—	21	1	1	4	—	6
(ii) Roads and Bridges	—	—	—	—	—	—	—	—	—	—
(iii) Road Transport	147	254	26	—	427	257	1,528	317	—	2,102
(iv) Tourism	290	36	121	—	447	12	10	18	—	40
Total	440	295	160	—	895	270	1,539	339	—	2,148

ANNEXURE VII—*concd*

Estimates of Continuing Employment (Person-years).

Additional Employment (Direct) generated/to be generated under Annual Plans, 1979-80 and 1980-81

Head/Sub-Head of Development	1979-80 (Actual)					1980-81 (Anticipated)				
	Un- educated or Un- skilled	Educated		Category not specified	Total	Un- educated or Un- skilled	Educated		Category not specified	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 ...	293	260	2,867	—	3,420	786	76	1,796	—	2,658
(ii) Technical Education ..	—	—	—	—	—	—	—	—	—	—
(iii) Medical and Public Health ...	1,514	1,439	164	—	3,117	906	821	115	—	1,842
(iv) Rural Water Supply ..	—	—	—	—	—	—	—	—	—	—
(v) Housing ...	—	—	—	—	—	—	—	—	—	—
(vi) Urban Development ..	—	306	364	—	670	—	131	154	—	285
(vii) Information and Publicity ...	—	—	—	—	—	—	—	—	—	—
(viii) Labour and Labour Welfare ...	14	20	12	—	46	29	26	34	—	89
(ix) Welfare of S.C. and B.C. ...	—	—	—	—	—	—	—	—	—	—
(x) Social Welfare ...	—	—	—	—	—	—	—	—	—	—
Total ..	1,821	2,025	3,407	—	7,253	1,721	1,054	2,099	—	4,874
7. Economic Services										
(i) Other General Economic Services	—	11	15	—	26	25	—	207	—	232
Total ..	—	11	15	—	26	25	—	207	—	232
8. General Services										
(i) Stationery and Printing ...	—	—	—	—	—	—	—	—	—	—
(ii) Punjab State Civil Supplies Corpn.	—	13	188	—	201	—	—	—	—	—
(iii) Public Works ..	—	—	—	—	—	—	—	—	—	—
Total ..	—	13	188	—	201	—	—	—	—	—
Grand Total ...	2,576	2,976	4,472	263	10,287	2,296	3,675	3,617	997	10,585

Note.—Estimates are tentative due to gaps in information.

ANNEXURE—VIII

Estimates of construction employment (Lakh person-days)

Additional employment (Direct) to be generated under Annual Plan, 1981-82 and Sixth Five-Year Plan, 1980—85

Sub-Head of Development	1981-82, (Proposed)	1980—85 (Proposed)
1	2	3
1. Agriculture	0.30	1.53
2. Minor Irrigation	—	27.66
3. Soil Conservation	0.43	5.60
4. Animal Husbandry	0.16	0.38
5. Dairying & Milk Supply	1.09	2.48
6. Forests	5.25	34.25
7. Community Development and Panchayats	0.31	28.63
8. Co-operation	2.35	10.87
9. Irrigation and Flood Control	6.23	179.01
10. Power	5.81	50.72
11. Roads and Bridges	—	5.15
12. Tourism	0.84	1.10
13. Rural Water Supply	2.82	3.00
14. Urban Development	3.41	24.62
15. Public Works	0.11	6.40
Total	29.11	381.40

Note.—Estimates are purely tentative due to gaps in information.

ANNEXURE—IX

Estimates of continuing employment (Person-years)

Additional employment (Direct) to be generated under Annual Plan, 1981-82 and Sixth Five-Year Plan, 1980—85

Head/Sub-Head of Development	1	2	3
		1981-82 (Proposed)	1980—85 (Proposed)
1. Agriculture and Allied Sectors			
(i) Agriculture	..	96	542
(ii) Minor Irrigation	..	20	130
(iii) Soil Conservation	..	44	578
(iv) Animal Husbandry	..	344	3,335
(v) Dairying & Milk Supply	..	162	405
(vi) Fisheries	..	93	239
(vii) Forests	..	79	310
(viii) C. D. & Panchayats	..	1	33
Total	..	839	5,572
2. Co-operation			
(i) Co-operation	..	480	2,873
Total	..	480	2,873
3. Irrigation and Power			
(i) Irrigation and Flood Control	..	—	45
(ii) Power	..	189	5,699
Total	..	189	5,744
4. Industry and Minerals			
(i) Industry & Minerals	..	185	1,087
Total	..	185	1,087
5. Transport and Communications			
(i) Civil Aviation	..	22	28
(ii) Roads and Bridges	..	—	—
(iii) Road Transport	..	1,020	6,087
(iv) Tourism	..	30	120
Total	..	1,072	6,235

ANNEXURE—IX—(Concl'd)

Head/Sub-Head of Development	1981-82 (Proposed)	1980—85 (Proposed)
1	2	3
6. Social and Community Services		
(i) General Education	2,891	20,153
(ii) Technical Education	201	1,024
(iii) Medical and Public Health	498	2,611
(iv) Rural Water-Supply	93	99
(v) Housing	—	—
(vi) Urban Development	107	768
(vii) Information and Publicity	151	223
(viii) Labour and Labour Welfare	9	98
(ix) Welfare of S.C. and B. C.	—	—
(x) Social Welfare	—	—
Total	3,950	24,976
7. Economic Services		
(i) Other General Economic Services	—	232
Total	—	232
8. General Services		
(i) Stationery and Printing	27	27
(ii) Public Works	—	—
Total	27	27
Grand Total	6,742	46,746

Note.—Estimates are purely tentative due to gaps in information.

CHAPTER XVIII

Revised Minimum Needs Programme

The main aim of the Revised Minimum Needs Programme is eradication of poverty and attainment of economic-self reliance by establishing a net work of certain essential services on a co-ordinated and integrated basis upto a certain minimum standards of social consumption and investment. The programme includes the following 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 householders
8. Environmental Improvement of Urban Slums
9. Rural Roads.

18.2. 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 for other programmes are given in the following paragraphs.

Elementary Education :

18.3. Previously Elementary Education (Primary & Middle) were covered under Minimum Needs Programme. Since this programme has been termed as Revised Minimum Needs Programme (R.M.N.P.). Adult Education has also been included since 1979-80. An outlay of Rs. 2212.05 lakhs has been proposed for the Sixth Five-Year Plan (1980—85), which includes a sum of Rs. 442.44 lakhs for the Annual Plan 1981-82.

The programme-wise details are given below :—

(i) Primary Education (Classes I—V) age-group 6—11 :

18.4. Total provision for the Sixth Five-Year Plan (1980—85) has been proposed at Rs. 726.00 lakhs out of which a sum of Rs. 138.00 lakhs has been set-aside for the Annual Plan 1981-82. Every inhabited village in the State has already been provided with a primary school. The target of universalisation of education has thus been attained. During the Sixth Five-Year Plan more stress has been laid on the qualitative improvement. A large number of primary schools are without buildings. A provision of Rs. 510.00 lakhs for the Sixth Five-Year Plan (1980—85) which includes a sum of Rs. 110.00 lakhs for 1981-82 has been made for the construction of the buildings. There is a 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 this age-group who cannot attend the schools due to social and economic reasons, the scheme of non-formal education is being continued. For this purpose a sum of Rs. 17.00 lakhs has been proposed for the Sixth Five-Year Plan which also includes a sum of Rs. 3.60 lakhs for the Annual Plan 1981-82.

Middle Education (Classes VI—VIII) age-group 11—14

18.5. For this programme a sum of Rs. 1386.05 lakhs has been proposed for the Sixth Five-Year Plan (1980—85) which also includes a sum of Rs. 283.84 lakhs for the Annual Plan 1981-82. Keeping in view the persistent demand of the rural community, 100 primary schools have been upgraded to Middle Schools during 1980-81. For continuation of upgraded schools, a sum of Rs. 505.53 lakhs has been provided for the Sixth Five-Year Plan (1980—85) which also includes a sum of Rs. 92.50 lakhs for 1981-82. During the Sixth Five year Plan more emphasis will be laid on increasing the enrolment from 661 thousands to 910 thousands, thus raising the coverage from 58.56% to 82.43% in this age-group. There is a high

percentage of drop-outs in the age-group 11—14. There are also others who can not join regular classes for economic reasons. Efforts are being made to induce the maximum number of children to join non-formal education after school hours. A provision of Rs. 15.00 lakhs has been made in the Sixth Five-Year Plan (1980—85) and Rs. 3.00 lakhs in the Annual Plan 1981-82 for this purpose.

Adult Education :

18.6. It is proposed to set up 10 projects of 100 centres, each for eradicating illiteracy among the 15—35 age-group population. Total provision for this programme is Rs. 100.00 lakhs for Sixth Five-Year Plan (1980—85) which also includes a sum of Rs. 20.60 lakhs for the Annual Plan 1981-82.

Rural Health Services :

18.7. The entire expenditure on rural health care services (Allopathic) falls under the 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. 1563.00 lakhs has been provided under R.M.N.P. for the Sixth Five-Year Plan. For 1981-82 an outlay of Rs. 319.35 lakhs has been provided against the outlay of Rs. 279.75 lakhs in 1980-81.

Different schemes under R.M.N.P. are discussed below :—

(i) Completion and Improvement of Primary Health Centres :

Out of the existing 129 P.H.Cs., the buildings of 106 P.H.Cs. were completed by 31st March, 1979. The construction work at 10 Primary Health Centres is in progress. The entire spill over liability of these centres is 48.00 lakhs which has been fully provided in the Sixth Plan. An outlay of Rs. 3.95 lakhs has been proposed for 1981-82.

(ii) Establishment of 25 bedded block-level rural Hospitals :

A 25 bed rural hospital at the block level will serve as the first referral institution for the rural dispensaries. So far 111 block level hospitals have been established. A provision of Rs. 300.00 lakhs proposed for the Sixth Plan period is just sufficient for the maintenance of the existing organisational structure at this level. An outlay of Rs. 55.00 lakhs is earmarked for the year 1981-82.

(iii) Opening of Subsidiary Health Centres in rural areas :

The base of the structure is the Subsidiary Health Centre (Rural Dispensary). It has one Doctor, one dispenser, 3 Class IV Employees and one male and one female multipurpose worker. It provides both preventive and curative services and also takes care of family welfare programme. The target is to provide one such dispensary per 10,000 rural population. So far, 1096 subsidiary health centres have been established. Another 200 such centres will be established during 1980-81 and with this the target of providing one subsidiary Health Centre for 10,000 rural population will be achieved. Provision of Rs. 1142.00 lakhs has been proposed in the Sixth Plan 1980—85 for this purpose. An outlay of Rs. 247.90 lakhs has been proposed for the year 1981-82 against the provision of Rs. 194.50 lakhs for the year 1980-81. Within the proposed outlays of the Sixth and Annual Plan funds have been provided for the construction of buildings in areas where the local community is too poor to provide buildings. For this purpose a sum of Rs. 250.00 lakhs in the Sixth Plan and Rs. 50.00 lakhs in the Annual Plan 1981-82 has been earmarked.

(iv) Improvement of Subsidiary Health Centres :

An outlay of Rs. 1.00 lakh is earmarked for the spill-over works in 1980-81.

(v) Establishment of Dental Clinics in each block :

By the end of 1979-80, 78 Dental Clinics were established at the block level in the State. Ten dental clinics will be established each during 1980-81 and 1981-82. The remaining 20 will be opened after 1981-82. Thus by the end of the Sixth Plan, there shall be one Dental Clinic available at every block,

An outlay of Rs. 50.00 lakhs has been earmarked for the Sixth Plan. An outlay of Rs. 8.50 lakhs is proposed for the year 1981-82 against the provision of Rs. 6.00 lakhs in 1980-81.

(vi) **Providing specialists teams in rural areas :—**

Five teams of specialists at block level were provided during 1979-80. Each team consists of six specialists in medicine, surgery, mid-wifery, gynae, eye and ENT, paediatrics and anaesthesia. Each team has been provided with a mini bus for enabling it to provide service to the entire block population at regular intervals. An outlay of Rs. 22.00 lakhs has been proposed for the Sixth Plan, for the continued component and no new specialists team will be set up during 1980-85 as the functioning of these specialists teams is yet to be evaluated. An outlay of Rs. 4.00 lakhs is earmarked for the year 1981-82 against the provision of Rs. 7.25 lakhs in 1980-81.

RURAL WATER SUPPLY

18.8 The cost of providing piped drinking water to all the 12,188 inhabited villages of the State has been estimated at Rs. 419.00 crores. For the present, the coverage is limited to scarcity villages in terms of the following criteria laid down by the Government of India :—

- (i) the villages which do not have assured sources of drinking water within a reasonable distance (1.6 Km.) or within a depth of 15 metres or ;
- (ii) the villages where the sources of water supply are endemic to water borne diseases like Cholera and Guinea worms, ; or
- (iii) the villages which suffer from excess salinity, iron or flouride.

There are 3,712 scarcity villages in the State. Out of these villages 1,945 villages had been provided piped water supply by the end of 1979-80. The total cost of providing water to the remaining 1,767 villages has been estimated at Rs. 88.00 crores.

18.9 Over the year, the design criteria for the

rural water supply 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 skelton 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 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 of Rs. 128.00 crores is required to complete the work of providing water supply to all remaining 1,767 scarcity villages including augmentation of existing schemes.

Year-wise expenditure incurred since 1974-75 is given below :—

Year	(Rs. in crores)
Year	Expenditure
One 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
1979-80	4.81
Expenditure under Accelerated Rural Water Supply Scheme (Govt. of India Scheme) During 1977-78 and 1978-79	2.45
1979-80	0.75
Total	41.77

Physical Progress of the Rural Water Supply Programme is given in the following table :—

Year	No. of villages		
	Sanctioned	Commissioned	In progress at the end of the year.
Upto 1973-74	1,557	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
During 1979-80	—	135	430
Total	2473	1945	

*It included certain Tikis, hemlets which were part of the revenue villages, but were counted as separate villages earlier.

18.10 By March, 1980, water supply schemes had been commissioned in 1945 villages. A total of Rs. 41.77 crores had been spent. During 1980-81 an outlay of Rs. 500.00 lakhs has been made to cover 80 additional villages. For the time being provision of Rs. 28.00 crores and Rs. 8.00 crores has been made for the Sixth Five Year Plan (1980-85) and the Annual Plan 1981-82, respectively. Water Supply Schemes will be commissioned in 100 additional villages during 1981-82. It is proposed to provide piped water supply in all the remaining 1,767 scarcity villages by the end of the year, 1989-90. The proposed target for the Sixth Plan is to cover 830 villages at a estimated cost of Rs. 68.00 crores. The provision of Rs. 28.00 crores being made now is tentative & will be stepped up to the required level of cost of Rs. 68.00 crores in subsequent years of the Sixth Plan. The organisational capability of the Department would also be strengthened to enable it to achieve the enhanced target in time.

NUTRITION

18.11 Nutrition programme is being undertaken with a view to tackling the problem of malnutrition at its very roots by taking care of expectant and nursing mothers and the pre-school children of the lowest socio-economic groups. This Programme includes Special Nutrition programme and Integrated child Development Services (ICDS).

Special Nutrition Programme. — Expectant and nursing mothers and the children below 6 years are provided nutritional diet at the rate of 30 paise per head per day for 300 days in a year. Under this programme 5 districts of Kapurthala, Hoshiarpur, Gurdaspur, Ferozepur and Faridkot are covered.

I.C.D.S. Projects :—A package of health nutrition is provided to expectant and nursing mothers and pre-school children below six year under these projects, running in blocks of Nurpur Bedi of Ropar District, Nathana of Bhatinda District, Lambi of Faridkot District, Blachaur of Hoshiarpur District and Narot Jaima Singh of Gurdaspur District. The traditional food 'Dalia' is given and the expenditure of this is met from the State Plan Budget. The administrative charges of these projects are given by the Govt. of India.

Rural Roads

18.12 A 'Crash Programme' for village roads was launched in the Fourth Five Year Plan and an expenditure of Rs. 39.30 crores was incurred for the construction of village roads during the period. During 1974-79 the expenditure was Rs. 38.78 crores and during this period 6,652 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 22,637 kms. at the close of 1978-79. The number of villages not

connected by roads which stood at 3,800 at the end of 1973-74 was reduced to 652 as on 31st March, 1979 by the connection of 3,148 villages during 1974—79. In the Annual Plan 1979-80 an expenditure of Rs. 5.50 crores was incurred and during this period, 515 kms. of road length was constructed and metalled links were provided to 288 villages. As on April, 1980, 364 villages were left unlinked with roads which required construction of 736 kms. of road length. An outlay of Rs. 20.00 crores has been proposed for 1980—85. The programme includes completion of on going works pertaining to first links and to carry out the programme for interlinks. In the Annual Plan 1980-81 an outlay of Rs. 3.75 crores has been provided for this purpose. It has been anticipated that 375 kms. of road length will be added to the village roads net work giving metalled links to 173 villages. In the Annual Plan 1981-82 an outlay of Rs. 4.10 crores has been provided for this scheme for carrying out this programme.

Houses for the Rural Home-less

18.13 About 3 lakhs families of land-less workers mostly belonging to scheduled castes were allotted free house sites, each site measuring 100 Sq. Yds. in the rural areas of the State. The work regarding the construction of houses on these sites at a cost of Rs. 4,000 per house was entrusted to the Housing Development Board. Though sufficient funds were provided to the Housing Development Board during the previous years, progress of construction work was slow. During 1978-79, Rs. 100 lakhs were provided to the Housing Development Board for the construction of 5,000 houses. The Board received matching loan assistance of Rs. 100 lakhs from HUDCO for this scheme. Since the Board could not complete the construction of 3,946 houses during 1977-78, it was expected that by the end of

1978-79, construction of 8,946 houses would be completed. Against this target, the Board completed the construction of only 508 houses, while another 1,600 houses were under construction. During 1979-80, a sum of Rs. 70 lakhs was provided for the construction of 3,500 houses but even this target could not be achieved and only 778 houses were completed by the end of year. The Board also received matching loan assistance of Rs. 70 lakhs from HUDCO during 1979-80 for this purpose.

18.14 A review of the programme of housing for the homeless revealed the need to push up its execution at a faster rate. Accordingly, a sum of Rs. 170 lakhs has been earmarked for this scheme in 1980-81, as against a provision of Rs. 70 lakhs in 1979-80. This means 2½ times step-up in the outlay. Matching assistance from HUDCO will supplement this amount. With this additional provision and the spill-over funds available with Housing Development Board, it will be possible to construct 10,000 houses, costing Rs. 6,500 each, by the end of 1980-81. To maintain the tempo of development under this scheme, an outlay of Rs. 1,200 lakhs has been provided for 1980—85. With this provision, it will be possible to provide houses to 31,778 persons during the plan period. For 1981-82, an outlay of Rs. 285 lakhs is proposed for the construction of 4,000 houses. However, progress in physical terms is largely dependant on the availability of cement and coal for bricks.

Slum Clearance

18.15 A sum of Rs. 100 lakhs is being provided during 1980—85 for environmental improvement of slums such as drinking water, pavement of streets, pucca drains, street lights, public urinals and laterines etc. Rs. 20 lakhs have been provided for this purpose during 1980-81 and the same outlay is being proposed for 1981-82.

CHAPTER XIX

Special Component Plan for Scheduled Castes

The Special Component Plan for Scheduled Castes envisages that schemes & programmes of the general sectors of development are identified and funds are quantified in favour of scheduled castes alongwith the resultant employment, training and other benefits from such programmes. The strategy is to identify all the scheduled castes families in the poverty zone and assist at least 50 per cent of them to cross over the poverty line during the Sixth Plan, 1980-85.

Population size

19.2. In the Punjab, scheduled castes constitute about 25 per cent of the total population of the State. This is the highest percentage for a State in the country. According to 1971 census their population was 33.48 lakhs. Projected population of scheduled castes in March, 1980 is estimated at 39.97 lakhs. 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, whereas the district of Ferozepur has only 18 per cent of these classes. Spatial distribution indicates that more than 85 per cent of the scheduled castes live in rural areas as compared to 73 per cent of the non-scheduled castes. Only less than 15 per cent live in towns generally in the sub-urban and semi-urban areas. In rural as well as urban areas there is a segregation of their population in separate basties.

Occupational Distribution

19.3. Occupational classification reveals that 58 per cent of them are agricultural labourers as compared to 8 per cent of the non-scheduled castes. Only 10.7 per cent are cultivators, mostly small and marginal farmers and also share croppers. The bulk of their population is engaged in the traditional occupations such as leather work, weaving, handicrafts and also in disagreeable professions of sweeping, scavenging, flaying and tanning. Their engagement in unclean occupations is because of their low social and economic status. Hardly

2 per cent of them are engaged in trade and commerce.

Literacy

19.4. 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 castes 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.

Special Component Plan-1979-80

19.5. The Special Component Plan for Scheduled Castes was first formulated in 1979-80 with an outlay of Rs. 6.89 crore. This was 32.88 per cent of the total outlay of the identified programmes/ schemes of the various sectors of development. The actual expenditure was about 77 per cent of the budgetted outlay. The main reason for the short-fall in the expenditure was the late formulation of the Special Component Plan. Sector-wise and scheme-wise actual expenditure incurred is given in Annexure I & II, respectively.

Special Component Plan -1980-81

19.6. Originally the Special Component Plan for Scheduled Castes was formulated with an outlay of Rs. 7.81 crore, which was later on revised to Rs. 11.06 crore. However, keeping in view the guidelines of the Government of India and a series of discussions with the representatives of the Planning Commission and Ministry of Home Affairs, Government of India, a significant further improvement was effected in the size of the Special Component Plan. The revised size stands at Rs. 28.17 crore which is 9.39 per cent of the total Plan outlay. However, this amount is only a part of the total effort the State Government is going to make for the economic development of scheduled castes.

A special feature of the programme of State Government to improve the economic conditions of the scheduled castes relates to the mobilization and distribution of institutional finance on a massive scale each year to the scheduled castes families below the poverty line during the Plan period. During 1980-81 itself, Punjab Scheduled Castes Land Development and Finance Corporation and Backfinco would raise loans more than Rs. 30 crore for this purpose. Housing Development Board is also receiving funds to the tune of Rs. 6.50 crore. The total amount which the State proposes to spend on the economic development of scheduled castes comes to Rs. 67.17 crore. Details are given below:

(Rs. in crore)

1. Special Component Plan ..	28.17
2. Institutional finance to be raised and distributed by Punjab Scheduled Castes Land Development and Finance Corporation and Backfinco ..	32.50
3. Loans from HUDCO ..	6.50
Total ..	67.17

In addition to this, an amount of Rs. 2.97 crore under the Centrally Sponsored Schemes and a sum of Rs. 3.89 crore under the Special Central Assistance will also be spent during 1980-81.

Special Component Plan 1981-82 and 1980-85

19.7. Following the procedure of identification and quantification adopted for 1980-81, the size of the Sixth Plan has been worked out at Rs. 160.15 crore which is 8.01 per cent of the total Sixth Plan outlay. For 1981-82 the outlay of the Special Component Plan is prepared at 31.49 crore. This is 29.22 per cent of the outlay of identified schemes & 8.82 per cent of the total Annual Plan outlay 1981-82. Subhead-wise & scheme-wise outlays are given in Annexure I & II.

19.8. Even though the size of the Special Component Plan is not in proportion to the population of scheduled castes to the total population of the State, yet the main objective of helping 50 per cent of the scheduled castes families to cross over the poverty line during the Sixth Plan will be fully achieved. The total amount proposed to be spent during the Sixth Plan is as given below:

	1981-82	1980-85
1. Special Component Plan	31.49	160.15
2. Institutional finance to be raised and distributed by Punjab Scheduled Castes Land Development & Finance Corporation & BACKFINCO	22.50	112.50
3. Loans from HUDCO ..	2.85	16.50
Total ..	56.84	289.15

Besides this, the funds under the Special Central Assistance and Centrally Sponsored Schemes will also be utilised, for the economic development of scheduled castes. It may be pointed out that major allocations of funds during the remaining years of the Sixth Plan are for power and irrigation projects. This has reduced the scope of quantification in favour of scheduled castes.

Physical Targets

19.9. With these funds the following targets are expected to be achieved.

	Total No. families in the State (estimated)		
	1980-81	1981-82	1980-85
1. Number of families to be covered	80,000	80,000	4,00,000
2. Number of houses to be built	10,000	4,000	31,000
3. Environmental improvement of harijan basties ..	672	820	4,825

The State departments have been asked to work out details of physical targets for the Annual plan and the Sixth Five Year Plan. Since this involves the collection of detailed information from the field, this will be furnished later on.

19.10. A State wide survey is being conducted to collect detailed information about the scheduled castes and other backward classes. The results of the survey are likely to be available by the end of Nov., 1980. On the basis of the data collected through this survey, detailed programmes and schemes for the economic development

of scheduled castes will be formulated.

19.11. Two high level committees-one under the chairmanship of Chief Minister & the other headed by Chief Secretary have been constituted to regularly review & monitor the progress of Special Component Plan.

ANNEXURE-I

Special Component Plan 1980-85

Summary Statement by Heads of Development

(Rs. in lakhs)

Sub-head of Development	1979-80 (Actuals)	1980-81		1980-85		1981-82	
		Plan Outlay	Outlay earmarked for Sch. Castes	Proposed Plan outlay*	Outlay earmarked for Sch. Caste s	Proposed Plan outlay*	Outlay earmarked for Sch. Castes
1	2	3	4	5	6	7	8
1. Agriculture	17.04	1,481.49	478.58	6,289.24	1,251.93	1,146.95	188.64
2. Horticulture	1.50	43.47	5.20	255.00	31.67	50.00	6.27
3. Minor Irrigation	—	713.00	35.90	4,619.00	231.00	741.00	37.00
4. Soil Conservation	9.36	251.00	25.10	2,028.00	202.80	325.00	32.50
5. Animal Husbandry	10.01	157.31	62.41	1,254.19	406.77	237.02	77.15
6. Dairying & Milk Supply	2.59	33.00	20.50	112.00	67.25	25.50	14.75
7. Fisheries	—	9.00	4.50	32.50	13.25	6.50	2.75
8. Forests	—	18.00	1.00	300.00	16.00	55.00	3.00
9. Community Development & Panchayats	15.00	735.65	282.79	4,527.70	1,491.30	835.75	286.81
10. Co-operation	0.57	80.05	20.67	513.50	133.27	102.25	26.75
11. Irrigation including Flood Control	—	525.00	151.25	4,978.00	773.90	535.00	126.5
12. Power	1.00	1,267.00	178.60	8,335.00	755.00	1,254.50	144.50
13. Industries	11.78	411.40	144.45	2,503.40	605.50	428.75	114.49
14. Roads & Bridges	—	375.00	100.00	2,000.00	500.00	410.00	109.00
15. General Education	0.02	23.25	6.68	130.39	44.14	25.05	7.35
16. Technical Education	0.13	0.50	0.25	5.00	2.50	1.00	0.50
17. Medical Education & Research	—	0.35	0.35	2.00	2.00	0.40	0.40
18. Health & Family Welfare	—	214.40	104.15	1,252.00	611.50	269.50	131.70
19. I.S.M. & Homoeopathy	—	13.83	6.92	139.85	69.95	25.05	12.50
20. Rural Water Supply	—	500.00	125.00	2800.00	700.00	800.00	200.00
21. Housing	106.02	380.00	250.00	2,130.00	1,548.00	445.00	345.70
22. Urban Development	15.00	1,930.00	415.00	9,029.00	1,929.80	1,990.00	433.00
23. Information & Publicity	—	2.00	1.00	10.00	5.00	2.00	1.00
24. Labour and Labour Welfare	0.87	2.00	0.50	2010.00	1,402.50	502.00	350.50
25. Welfare of Scheduled Castes & Backward Classes	327.25	389.00	362.75	3,200.00	2,997.05	489.00	458.25
26. Social Welfare	2.26	50.50	25.25	365.00	182.50	60.30	30.15
27. Nutrition	6.45	16.00	8.00	80.00	40.00	16.00	8.00
28. Printing & Stationery	0.02	0.12	0.03	0.60	0.15	0.12	0.03
Total	526.87	9,627.32	2,816.83	58,901.37	16,014.73	10,778.64	3,149.44

*Plan provision of the identified schemes.

ANNEXURE II

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES 1980-85

(Rs in lakhs)

Name of the Scheme/Project	1979-80 (Actuals)	1980-81		1980-85		1981-82		
		Plan Outlay	Outlay earmarked for Scheduled Castes	Proposed Plan outlay	Outlay earmarked for Scheduled Castes	Proposed Plan outlay	Outlay earmarked for Scheduled Castes	
1	2	3	4	5	6	7	8	
HEAD : AGRICULTURE								
Extension and Farmers Training								
A(P)3.1	Higher training of selected village level workers	—	2.00	0.50	2.00	0.50	—	—
A(P) 3.2	Deputation of village level workers							
A(P) 3.3	Foreign/in-service training							
A(P) 3.4	Training of farmers	0.12	1.80	0.25	1.80	0.25	—	—
A(P) 3.5	Higher training and condensed courses in-service A.S.I's /C.I.'s.	0.02	1.51	0.15	1.81	0.18	0.30	0.03
A(P) 3.6	(a) Farmers training and education in HYVP-running of farmers Training Centres in the State	—	10.07	1.10	80.03	0.80	16.60	1.66
	Total	0.14	17.08	2.43	87.31	2.16	16.90	1.69
Land reclamation, seed, fertilizer and Plant Protection etc.								
A(P) 5.2	Amendment of Alkali Soils	16.90	442.00	110.50	2484.00	621.00	450.00	112.50
A(P) 6.2	Seed production and distribution	—	5.00	3.00	5.00	3.00	—	—
A(P) 7.2	Fertilizers demonstrations and training on cultivators field	—	1.50	0.38	1.50	0.38	—	—
A(P) 7.4	Scheme for providing incentives to farmers	—	510.00	255.00	510.00	255.00	—	—
A(P) 9.4	Ground spraving of crops	—	60.00	3.00	1025.00	51.25	210.00	10.50
A(P) 9.5	Control of Weeds and Loose Smut (Sharing basis)	—	28.00	1.40	150.00	7.50	30.00	1.50
A(P) 9.10	Scheme regarding Bee-keeping	—	2.31	2.31	20.00	20.00	2.70	2.70
	Total (Land reclamation, seed, fertilizers and Plant Protection)	16.90	1048.81	375.59	4195.50	958.13	692.70	127.20
Commercial Crops/S.F.D.A. etc.								
A(P) 10.1	Development of sugarcane in the State and Public Sector Sugar mills	—	15.60	1.56	98.43	9.84	19.35	1.95
A(P) 11.1	Scheme for Small Farmers and Agricultural Labourers—							
	(i) State S.F.D.A.'s.	—	5.00	3.50	5.00	3.50	*—	*—
	(ii) Central S.F.D.A.'s.	—	80.00	56.00	80.00	56.00	*—	*—
	Total : (Commercial Crops/S.F.D.A.)	—	100.60	61.06	183.43	69.34	19.35	1.95

*Transferred to scheme CD-4,1 under Sub-head 'Community Development and Panchayats'

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES 1980-85

Rs in lakhs

Name of the Scheme/Project	1979-80 (Actuals)	1980-81		1980-85		1981-82		
		Plan outlay	Outlay earmarked for Scheduled Castes	Proposed plan outlay	Outlay earmarked for Scheduled Castes	Proposed plan outlay	Outlay earmarked for Scheduled Castes	
1	2	3	4	5	6	7	8	
Agricultural Credit								
A(P) 16.1	Support to ordinary and special debentures—							
	(i) Agriculture Department ..	—	85.00	8.50	556.00	55.60	117.50	11.75
	(ii) Soil Conservation Department ..	—	20.00	2.00	92.00	9.20	10.00	1.00
A(P) 16.2	Purchase of debentures of S.C.L.M.B. for the purchase of tractors and agricultural implements ..	—	150.00	15.00	800.00	80.00	162.50	16.25
A(P) 16.3	A.R.C. scheme for the reclamation of alkaline/saline soils ..	—	15.00	1.50	135.00	13.50	30.00	3.00
A(P) 16.4	Grant of loans for grape cultivation and construction of bowers under A.R.C. scheme debenture support for Horticulture ..	—	5.00	0.50	13.00	1.30	8.00	0.80
A(P) 16.5	Gobar Gas Plant-debenture support ..	—	2.00	0.20	2.00	0.20	—	—
A(P) 16.6	Dairy Development ..	—	10.00	1.00	50.00	5.00	25.00	2.50
A(P) 16.7	Poultry, piggery, sheep breeding, cattle feed processing unit and camel carts, etc. ..	—	8.00	0.80	75.00	7.50	25.00	2.50
	Total (Agricultural Credit) ..	—	295.00	29.50	1723.00	172.30	378.00	37.80
Employment Promotion Programme								
A(P) 18.1	Setting up of 300 Agro-Service Centres— payment of interest subsidy ..	}	20.00	10.00	100.00	50.00	40.00	20.00
A(P) 18.2	Seed margin money assistance to entrepreneurs for setting up of Agro-Service Centres ..							
	Total ..	—	20.00	10.00	100.00	50.00	40.00	20.00
	Grand Total ..	17.04	1,481.49	478.58	6,289.24	1,251.93	1,146.95	188.64
Horticulture								
A(P) 20.2	Development of Horticulture in the Punjab State ..	}	15.00	2.00	185.00	24.67	38.00	5.07
	Development of Horticulture in Shivalak Hills ..							
A(P) 20.5	Development of Horticulture in the Kandi area water shed (World Bank) ..	—	22.07	2.20	70.00	7.00	12.00	1.20
	Total ..	1.50	43.47	5.20	255.00	31.67	50.00	6.27

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES 1980-85

Rs. in lakhs

Name of the Scheme/Project	1979-80 (Actuals)	1980-81		1980-85		1981-82		
		Plan outlay	Outlay ear- marked for Sched- uled Castes	Proposed Plan outlay	Outlay ear- marked for Sched- uled Castes	Proposed Plan outlay	Outlay ear- marked for Sched- uled Castes	
1	2	3	4	5	6	7	8	
HEAD : MINOR IRRIGATION								
3. Punjab State Tubewell corporation—								
MI(I) 3.1 Punjab State Tubewell Corporation—								
(i) Tubewells	..	—	136.00	6.80	738.00	36.90	136.00	6.80
(ii) C.A.D.	..	—	582.00	29.10	3881.00	194.10	605.00	30.20
Total	..	—	718.00	35.90	4619.00	231.00	741.00	37.00
HEAD : SOIL CONSERVATION								
SC(A) 3.1 Soil and Water conservation on water- shed basis	..	8.03	145.00	14.50	675.00	67.50	125.00	12.50
SC(A) 3.2 Pilot Projects for development of Kandi areas with World Bank assistance	..	—	42.00	4.20	296.00	29.60	48.00	4.80
SC(A) 3.3 { Soil Conservation works in border { areas { Development of bet areas	..	1.33	24.00	2.40	354.00	35.40	61.00	6.10
{ Scheme for ravine reclamation	..	—	5.00	0.50				
SC(S) 3.4 Centrally Sponsored scheme for integrated watershed management in catchment of flood prone rivers (Indo- gangetic basin) Ghaggar River Punjab	..	—	11.00	1.10	60.00	6.00	11.00	1.10
SC(F) 1. Soil and Water Conservation on watershed basis	..	—	20.00	2.00	643.00	64.30	80.00	8.00
Total	..	9.36	251.00	25.10	2028.00	202.80	325.00	32.50
HEAD : ANIMAL HUSBANDRY								
AH 2.2 Opening of new Veterinary Dispensaries	—	—	23.30	11.65	80.00	40.00	16.30	8.15
AH 5.8 Training of farmers in the technique of rearing, feeding, breeding and mana- gement of exotic/cross bred cattle	0.29	—	1.25	0.75	1.25	0.75	—	—
AH 5.10 Assistance to Small/Marginal Farmers and Agricultural Labourers for rearing of cross bred heifers (State's Share)	6.25	—	13.62	10.22	72.00	54.03	14.00	10.50
AH 5.21 Implementation of Poultry, Piggery and Sheep Production Programme through Small/Marginal Farmers & Agricul- tural Labourers (State Share)	..	2.67	10.29	7.72	70.00	52.52	13.00	9.75

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES—1980-85

Rs. in lakhs

Name of the Scheme/Project	1979-80 (Actuals)	1980-81		1980-85		1981-82	
		Plan Outlay	Outlay earmark- ed for Scheduled Castes	Proposed Plan Outlay	Outlay earmark- ed for Scheduled Castes	Proposed Plan Outlay	Outlay earmark- ed for Scheduled Castes
1	2	3	4	5	6	7	8
AH 6.4 Establishment of Poultry Estates in selected localities for providing employment to educated-unemployed	—	0.10	0.07	0.10	0.07	—	—
AH 8.2 Establishment of new Pig Breeding Farms	—	3.75	3.75	25.00	25.00	5.00	5.00
AH 9.5 Kandi Water Shed & Area Development project	—	5.00	0.75	405.30	69.45	63.18	9.50
AH 9.7 Integrated Rural Development Programme	0.54	90.00	22.50	539.34	134.85	114.00	28.50
AH 10.7 Production & popularisation of newly evolved fodder varieties	0.26	10.00	5.00	60.20	30.10	11.54	5.75
Total	10.01	157.31	62.41	1254.19	406.77	237.02	77.15
HEAD : DAIRYING AND MILK SUPPLY							
DM 2.2 Dairy Extension Units for intensification of milk production	—	12.50	9.00	20.00	15.00	3.00	2.25
DM 2.5 Special employment programme scheme for introduction of scientific and commercial milk production	0.09	10.00	5.00	50.00	25.00	12.00	6.00
DM 3.1 Training of technical personnel	—	0.50	0.25	2.00	1.00	0.50	0.25
DM 5.3 Supply of subsidised milk to weaker sections	2.50	5.00	3.75	25.00	18.75	5.00	3.75
DM 5.3 Integrated Rural Development Programme	—	5.00	2.50	15.00	7.50	5.00	2.50
Total	2.59	33.00	20.50	112.00	67.25	25.50	14.75
HEAD : FISHERIES							
FH 4.2 Promotion of intensive fish culture by providing assistance to Private/Co-operative sectors	—	4.00	3.00	10.00	7.00	2.00	1.50
FH 4.8 Demonstration of fish culture	—	1.00	0.50	2.50	1.25	0.50	0.25
FH 4.9 Assistance to Fish Farmers Development Agency Gurdaspur, Jullundur, Ludhiana & Amritsar (State's Share)	—	4.00	1.00	20.00	5.00	4.00	1.00
Total	—	9.00	4.50	32.50	13.25	6.50	2.75
HEAD : FORESTS							
FT 3.1 Raising of industrial plantations on private lands	—	18.00	1.00	300.00	16.00	55.00	3.00
Total	—	18.00	1.00	300.00	16.00	55.00	3.00

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES—1980—85

Rs. in lakhs

Name of the Scheme/Project	1979-80 (Actuals)	1980-81		1980—85		1981-82		
		Plan Outlay	Outlay earmark- ed for Scheduled Castes	Proposed Plan Outlay	Outlay earmark- ed for Scheduled Castes	Proposed Plan Outlay	Outlay earmark- ed for Scheduled Castes	
1	2	3	4	5	6	7	8	
HEAD : COMMUNITY DEVELOPMENT AND PANCHAYATS								
CD 2.2	Study tours of non-official ..	—	0.20	0.05	1.20	0.30	0.25	0.06
CD 2.3	Promotion and strengthening of Mahila Mandals ..	—	8.00	2.00	40.00	10.00	8.00	2.00
CD 3.2	Composite programme for women and pre-school children-strengthening of Craft Centres ..	—	5.50	5.50	27.50	20.00	5.50	5.50
CD 3.3	Pavement of streets and construction of drains ..	15.00	450.00	115.00	2754.00	688.50	475.00	118.75
CD 3.5	Development of Model Villages ..	—	10.00	2.50	20.00	5.00	5.00	1.25
CD 3.6	Under-ground Water Sewerage ..	—	6.95	1.74	60.00	15.00	7.00	1.75
CD 3.7	Matching grants to Panchayats and Local Bodies for development works ..	—	50.00	12.50	240.00	60.00	40.00	10.00
CD 4.1	Grant-in-aid to Small Farmers Development Agencies under I.R.D.P. (State Share) ..	—	205.00	143.50	1385.00	692.50	295.00	147.50
	Total ..	15.00	735.65	282.79	4527.70	1491.30	835.75	286.81
HEAD : CO-OPERATION								
CN 2.3	Share capital contribution to— (vi) Primary Agricultural Service Societies ..	—	75.00	19.00	500.00	125.00	100.00	25.00
CN 9.3	Assistance to Handloom Weavers Co-operatives-interest concession ..	0.08	0.55	0.40	5.00	4.00	1.25	1.00
CN 9.5	Development of Handloom Industry— Supply of improved appliances ..	0.49	1.00	0.75	5.00	3.75	1.00	0.75
CN 11.1	Member education and leadership training of non-official through Punjab Co-operative Union ..	—	3.50	0.52	3.50	0.52	—	—
	Total ..	0.57	80.05	20.67	513.50	133.27	102.25	26.75
HEAD : IRRIGATION AND FLOOD CONTROL								
IR 2.9	Lift and flow irrigation schemes :—							
	(i) Garhshanker Lift Irrigation Scheme ..	—	20.00	1.00	262.00	13.10	50.00	2.50
	(ii) Lohat and Garhi Lift Irrigation Scheme ..	—	5.00	0.25	816.00	40.80	80.00	4.00
	(iii) Lift irrigation scheme for Ghat areas of Ropar District ..	—	—	—	1800.00	90.00	5.00	0.25
	Anti-water logging drainage and Flood Control ..	—	500.00	150.00	2100.00	630.00	400.00	120.00
	Total ..	—	525.00	151.25	4978.00	773.90	535.00	126.75

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES 1980-85

Rs. in lakhs

Name of the Scheme/Project	1979-80 (Actuals)	1980-81		1980-85		1981-82			
		Plan outlay	Outlay earmarked for Scheduled Castes	Proposed Plan outlay	Outlay earmarked for Scheduled Castes	Proposed Plan outlay	Outlay earmarked for Scheduled Castes		
1	2	3	4	5	6	7	8		
HEAD : POWER									
3.1 | Normal Development & Distribution—									
(i) Provision of general connections	—	} 750.00	70.00	4350.00	330.00	650.00	65.00		
(ii) Electrification of Harijan Basties	1.00		3.60	25.00	25.00	4.50	4.50		
4 Rural Electrification—									
(i) Electrification of Harijan Tubewells —Plan	—	} 517.00	100.00	3960.00	400.00	600.00	75.00		
(ii) Electrification of Harijan Basties —R.E.C.	—		5.00	N.A.	N.A.	N.A.	N.A.		
Total	..	1.00	1267.00	178.60	8335.00	755.00	1254.50		
HEAD : INDUSTRIES AND MINERALS									
IN 2.6	Punjab State Leather Development Corporation	..	—	1.00	1.00	200.00	200.00	50.00	50.00
IN 4.1	Credit facilities for the development of Small Scale Industries	..	3.79	10.00	5.00	40.00	20.00	10.00	5.00
IN 4.2	Subsidy	..	0.39	1.00	0.50	1.00	0.50	—	—
IN 4.5	Out-right Subsidy	..	—	15.00	3.00	225.00	45.00	25.00	5.00
IN 4.14	Modernisation of small scale industries	..	0.23	8.00	1.00	40.00	5.00	7.50	1.00
IN 4.20	Shoe and Leather Goods Training Centre, Longowal	..	0.40	0.40	0.40	0.40	0.40	—	—
IN 4.21	Interest Subsidy	..	0.01	5.00	1.25	30.00	7.50	5.00	1.25
IN 4.24	Training for Self-employment	..	0.02	1.00	0.25	5.00	1.25	1.00	0.25
IN 4.25	Promotion of self-employment through seed/capital/margin money assistance	..	—	12.00	6.00	12.00	6.00	—	—
IN 4.34	Decentralised leather workers	..	—	30.00	30.00	30.00	30.00	—	—
IN 5.1	Industrial Estates/Incentives to new Industries—								
	(iii) Interest free loan	..	—	130.00	13.00	1015.00	101.50	175.00	17.50
	(vi) Investment loans	..	—	6.00	1.25	7.00	1.75	0.25	0.03
	(vii) Land subsidy	..	—	35.00	3.50	621.00	62.10	100.00	10.00
IN 6.1	(i) Programme for the handloom industry	..	—	—	—	12.00	12.00	3.00	3.00
	(ii) Installation of Jacquard machines	..	1.65	2.50	2.50	2.50	2.50	—	—
	(iii) Interest free loans for margin money	..	0.21	0.50	0.50	0.50	0.50	—	—
	(iv) Training of weavers	..	0.30	0.50	0.50	2.50	2.50	0.50	0.50

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES 1980-85

Rs. in lakhs

Name of the Scheme/Project	1979 80 (Actuals)	1980-81		1980-85		1981-82	
		Plan outlay	Outlay earmarked for Sch. Castes	Proposed plan Outlay	Outlay earmarked for Schedules castes	Proposed Plan Outlay	Outlay earmarked for Schedules Castes
1	2	3	4	5	6	7	8
(vi) Training-cum-Production Centre in submontane areas ..	0.01	2.50	2.50	12.50	12.50	2.50	2.50
(vii) Construction of workshed for weavers ..	1.70	2.00	2.00	2.00	2.00	—	—
IN 7.1 Integrated Rural Development Programme ..	2.52	45.00	20.00	175.00	78.00	35.00	15.56
IN 7.2 Incentives for the development of rural industries ..	—	100.00	50.00	—	—	—	—
IN 8.1 Development of Handicrafts Industries ..	0.15	4.00	0.30	20.00	2.00	4.00	0.40
IN 8.2 Carpet weaving training centre to be set-up by Punjab Small Industries Corporation ..	—	—	—	50.00	12.50	10.00	2.50
IN 9.1 Development of Sericulture Industries ..	0.40	—	—	—	—	—	—
Total ..	11.78	411.40	144.45	2503.40	605.50	428.75	114.49
HEAD : ROADS AND BRIDGES							
RD 3.1 Village Roads ..	—	375.00	100.00	2000.00	500.00	410.00	109.00
(i) Link Roads ..	—	375.00	100.00	2000.00	500.00	410.00	109.00
Total ..	—	375.00	100.00	2000.00	500.00	410.00	109.00
HEAD : GENERAL EDUCATION							
Primary Education							
1—Elementary Education (Classes I—V)							
ED 1.1 Expansion of facilities for full time schools—							
(a) Opening of single teacher Primary schools ..	—	1.15	1.15	15.39	15.39	1.45	1.45
Total : Primary Education ..	—	1.15	1.15	15.39	15.39	1.45	1.45
School Education—							
ED 2.2 Non-Formal Education ..	0.02	3.00	0.75	15.00	3.75	3.00	0.75
ED 5.1 Introduction of Social Education Programme ..	—	19.10	4.78	100.00	25.00	20.60	5.15
Total : (School Education) ..	0.02	22.10	5.53	115.00	28.75	23.60	5.90
Grand Total ..	0.02	23.25	6.68	130.39	44.14	25.05	7.35
HEAD : TECHNICAL EDUCATION							
TE 8.3 Book Bank for Poor Students ..	0.13	0.50	0.25	5.00	2.50	1.00	0.50
Total ..	0.13	0.50	0.25	5.00	2.50	1.00	0.50
HEAD : PUBLIC HEALTH AND SANITATION							
I. Medical Education and Research							
MD 3.5 Extra coaching to Scheduled Castes M.B.B.S. students in Medical Colleges ..	—	0.35	0.35	2.00	2.00	0.40	0.40
Total (Medical Education & Research) ..	—	0.35	0.35	2.00	2.00	0.40	0.40

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES 1980-85

Rs. in lakhs

Name of the Scheme/Project	1979-80 Actuals	1980-81		1980-85		1981-82		
		Plan outlay	Outlay earmarked for Sch. Castes	Proposed plan Outlay	Outlay earmarked for Sch. casts	Proposed Plan Outlay	Outlay earmarked for Sched- uled Cases	
1	2	3	4	5	6	7	8	
II. Health and Family Welfare								
PH 1.4	Opening of subsidiary Health Centres in rural areas ..	—	194.50	97.25	1142.00	571.50	247.90	123.95
PH 2.1	Opening of new dispensaries in Urban Slum areas /suitable Urban places ..	—	7.50	3.75	50.00	25.00	9.50	4.75
PH 3.7	Training & employment of Multipurpose Workers (State Share) ..	—	12.40	3.15	60.00	15.00	12.10	3.00
	Total : (Health and Family Welfare)	—	214.40	104.15	1252.00	611.50	269.50	131.70
III. I.S.M. / Homoeopathy								
AY 1.2	Opening of I.S.M. dispensaries ..	—	13.83	6.92	107.40	53.70	20.00	10.00
HM 1.2	Opening of Homoeopathic dispensaries ..	—	—	—	32.45	16.25	5.05	2.50
	Total (I.S.M. & Homoeopathy)	—	13.83	6.92	139.85	69.95	25.05	12.50
HEAD : RURAL WATER SUPPLY								
	Rural Water-Supply ..	—	500.00	125.00	2800.00	700.00	800.00	200.00
	Total ..	—	500.00	125.00	2800.00	700.00	800.00	200.00
HEAD : HOUSING								
HG 2.2	Houses for rural homeless ..	70.00	170.00	170.00	1200.00	1200.00	285.00	285.00
HG 2.3	Loans for low Income group houses ..	—	60.00	30.00	300.00	150.00	60.00	30.00
HG 2.4	Loans to Government Servants ..	21.02	—	—	—	—	—	—
HG 2.5	Loans for building houses in urban estates ..	15.00	30.00	10.00	150.00	50.00	30.00	10.00
HG 2.6	Middle income group housing ..	—	—	—	60.00	9.00	20.00	3.00
HG 2.7	Village housing projects scheme ..	—	50.00	20.00	170.00	68.00	30.00	12.00
HG 3.1	Contribution to Housing Board ..	—	70.00	20.00	250.00	71.00	20.00	5.70
	Total ..	106.02	380.00	250.00	2130.00	1548.00	445.00	345.70
HEAD : URBAN DEVELOPMENT								
Urban Water Supply and Sewerage								
WS 1	Financial assistance to Municipalities .. Remunerative water supply & sewerage scheme	—	1550.00	310.00	6779.00	1355.80	1710.00	342.00
	Total ..	—	1550.00	310.00	6779.00	1355.80	1710.00	342.00
Urban Development								
UD 1.	Urban Estates ..	—	250.00	35.00	1600.00	224.00	150.00	21.00
UD 3	Assistance to Improvement Trusts:— (b) Free house-sites to Urban homeless Scheduled Castes ..	15.00	10.00	10.00	50.00	50.00	10.00	10.00
UD 5	Integrated Urban Development Programme ..	—	100.00	40.00	500.00	200.00	100.00	40.00
UD 6	Slum clearance /improvements ..	—	20.00	20.00	100.00	100.00	20.00	20.00
	Total ..	15.00	380.00	105.00	2250.00	574.00	280.00	91.00
	Grand Total ..	15.00	1930.00	415.00	9029.00	1929.00	1990.00	433.00

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES 1980-85

Rs. in Lakhs

Name of the Scheme/Project	1979-80 Actuals	1980-81		1980-85		1981-82			
		Plan outlay	Outlay earmarked for Scheduled Castes	Proposed Plan outlay	Outlay earmark ed for Scheduled Castes	Proposed Plan outlay	Outlay earmark ed for Scheduled Castes		
		2	3	4	5	6	7	8	
HEAD : INFORMATION AND PUBLICITY									
Field Publicity									
IP 3.3	Television Scheme	..	—	2.00	1.00	10.00	5.00	2.00	1.00
	Total	..	—	2.00	1.00	10.00	5.00	2.00	1.00
HEAD : LABOUR AND LABOUR WELFARE									
Employment Services									
EE 1.2	Unemployment allowance to educated unemployed	..	0.87	—	—	—	—	—	—
EE 1.3	Programme of Removal of Poverty	..	—	—	2,000.00	1,400.00	500.00	350.00	—
	Total Employment Services	..	0.87	—	2,000.00	1,400.00	500.00	350.00	—
Industrial Training									
IT(S) 2.3	Opening of new Industrial Schools and introduction of additional seats in existing schools	..	—	2.00	0.50	10.00	2.50	2.00	0.50
	Total : Industrial Training	..	—	2.00	0.50	10.00	2.50	2.00	0.50
	Grand Total	..	0.87	2.00	0.50	2,010.00	1,402.50	502.00	350.50
HEAD : WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES									
SC 1.1	Pre-matric coaching to students	..	16.46	17.00	17.00	103.75	103.75	17.00	17.00
SC 1.2	Grant for the purchase of stationery and books	..	22.40	22.00	22.00	238.28	238.28	44.00	44.00
SC 1.3	Grant for the purchase of								
	(a) medical, and engineering books (State Share)	..	2.25	2.10	2.10	10.00	10.00	2.00	2.00
	(b) law books	..	—	—	—	2.90	2.90	0.75	0.75
SC 1.4	Training in Stenography	..	0.40	2.00	2.00	12.20	12.20	3.00	3.00
SC 1.5	Technical training in Industrial trades	..	8.00	11.00	11.00	94.53	94.53	11.00	11.00

SPECIAL COMPONT PLAN FOR SCHEDULED CASTES 1980-85

Rs. in lakhs

Name of the Scheme/Project	1979-80 Actuals	1980-81		1980-85		1981-82		
		Plan Outlay	Outlay earmarked for Sched- uled Castes	Purposed Plan outlay	Outlay ear- marked for Sched- uled Castes	Proposed Plan outlay	Outlay ear- marked for Sched- uled Castes	
1	2	3	4	5	6	7	8	
SC 1.6	B. E.I. and J.B.T. training to Scheduled Caste Graduates and Matriculates	—	10.00	10.00	61.05	61.05	8.00	8.00
SC 1.7	Grants to Scheduled Caste girl students studying in post-matric and post-graduate classes	—	12.00	12.00	72.00	72.00	15.00	15.00
SC 1.8	L.A.S. Coaching Centre, Patiala	1.50	1.50	1.50	9.10	9.10	1.50	1.50
SC 1.9	Girls Hostels	0.75	0.75	0.75	4.55	4.55	0.75	0.75
SC 1.10	Imparting of Industrial training to Scheduled Caste women	—	—	—	72.15	72.15	1.00	1.00
SC 2.1	Subsidy for the purchase of—						(Token)	
	(a) agricultural land	5.00	10.00	10.00	61.00	61.00	10.00	10.00
	(b) houses/wells on land	1.00	2.00	2.00	12.20	12.20	2.00	2.00
	(c) stamp duty	0.18	0.40	0.40	2.50	2.50	0.40	0.40
SC 2.2	Punjab Backward Classes Land Development and Finance Corporation-Share capital	—	20.00	5.00	80.00	20.00	20.00	5.00
SC 2.3	Punjab Scheduled Castes Land Development and Finance Corporation-Share capital (State share)	51.00	51.00	51.00	204.00	204.00	51.00	51.00
SC 2.4	Interest Subsidy —							
	(a) Scheduled Castes	60.00	45.00	45.00	574.65	574.65	57.90	57.90
	(b) Backward Classes	—	15.00	3.75	190.60	47.65	21.00	5.25
SC 2.5	Contribution to Bad Debts Funds of Punjab Scheduled Castes Land Development and Finance Corporation	2.24	—	—	—	—	—	—
SC 3.1	Legal Aid	0.07	0.25	0.25	1.50	1.50	0.20	0.20
SC 3.2	Construction of dharamshalas/chupals	40.00	30.00	30.00	258.30	258.30	50.00	50.00
SC 3.3	Environmental improvement of Harijan Basties including drinking water wells	74.00	70.00	70.00	658.39	658.39	105.00	105.00
SC 3.4	Construction of houses for sweepers scavengers, flayers and tanners	28.00	28.00	28.00	170.90	170.90	28.00	28.00
SC 3.5	Assistance to Scheduled Castes for development of manurial pits	—	25.00	25.00	150.00	150.00	25.00	25.00

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES 1980-85

Rs. in lakhs

Name of the Scheme/Project	1979-80 (Actuals)	1980-81		1980-85		1981-82		
		Plan Outlay	Outlay earmarked for Scheduled Castes	Proposed Plan Outlay	Outlay earmarked for Scheduled Castes	Proposed Plan Outlay	Outlay earmar- ked for Scheduled Castes.	
		1	2	3	4	5	6	7	8
SC 3.6	Supply of nutritive food to children belonging to Scheduled Castes Balwadies	—	—	—	70.00	70.00	0.50	0.50
SC 4.1	Construction of houses for Vimukta Jatles	14.00	14.00	14.00	85.45	85.45	14.00	(Token) 14.00
Grand Total		327.25	389.00	362.75	3200.00	2997.05	489.00	458.25
HEAD : SOCIAL WELFARE								
SW 2.1	Assistance to dependent children	1.53	17.00	8.50	123.00	61.50	19.30	9.65
SW 2.4	I.Y.C.	—	13.00	6.50	33.00	16.50	6.00	3.00
SW 3.1.	Assistance to widows and destitute women	0.60	20.00	10.00	195.00	97.50	34.00	17.00
SW 3.2	Home for widows and destitute women	—	0.50	0.25	4.00	2.00	0.70	0.35
SW 4.2.	Supply of prosthetic aid to the handicapped	0.13	—	—	—	—	—	—
SW 4.3	Assistance to disabled persons	—	—	—	10.00	5.00	0.30 (Token)	0.15
Total Social Welfare		2.26	50.50	25.25	365.00	182.50	60.30	30.15
HEAD : NUTRITION								
N 1.1	Programme for pre-school children	6.45	5.00	2.50	25.00	12.50	5.00	2.50
N 1.2	Programme for pregnant and lactating mothers		1.70	0.85	8.50	4.25	1.70	0.85
N 2.1	Nutritional diet under I-C.D.S. projects		9.30	4.65	46.50	23.25	9.30	4.65
Total		6.45	16.00	8.00	80.00	40.00	16.00	8.00
HEAD : STATIONERY AND PRINTING								
PT 1.6	Apprenticeship scheme for 10 type-writer mechanics	0.02	0.12	0.03	0.60	0.15	0.12	0.03
Total		0.02	0.12	0.03	0.60	0.15	0.12	0.03

CHAPTER XX

World Bank Aided Projects

The Punjab State has taken up the following projects with financial assistance from the World Bank :—

- (a) Water-supply and Sewerage -IDA Project in eight selected towns.
- (b) Kandi Watershed and Area Development Project.
- (c) Punjab State Seed Corporation.
- (d) Integrated Cotton Development Project.
- (e) Irrigation Project of Punjab.

20.1. Against the total provision of Rs. 3,831.70 lakhs for all these projects in the year 1980-81, an outlay of Rs. 4,214.48 lakhs has been proposed in the Annual Plan 1981-82 for all these projects. Similarly an outlay of Rs 25,428.86 lakhs has been proposed for the Sixth Five-Year Plan 1980—85. Against the proposed outlay of Rs. 4,214.48 lakhs in the Annual Plan 1981-82 a sum of Rs 1475.07 lakhs would be available to the State Government as World Bank Assistance. Likewise out of the total outlay of Rs. 25428.86 lakhs as proposed in the Sixth Five-Year Plan 1980—85, an amount of Rs 8,900.10 lacs would accrue to the State as World Bank Assistance. Salient features of these projects are given as below :—

(I) WATER SUPPLY AND SEWERAGE-I.D.A. PROJECT

20.2. Due to rapid haphazard urban development, there has been a marked deterioration in the living environments in the urban towns of the State. The situation has been further accentuated due to the inability of the local bodies to provide basic public utility services owing to lack of finances at their disposal. Taking cognizance of the insanitary conditions prevailing in the urban areas, the State Government has given high priority to the safe drinking water and underground sewerage system which would eliminate the age-old inhuman practice of carrying the night soil as

head loads by the sweepers and scavengers. For the implementation of this programme the Punjab Water Supply and Sewerage Board came into existence in September, 1976. This ambitious programme could not be possibly implemented by the local bodies due to lack of adequate funds at their disposal and also due to meagre allocation available for this purpose in the Annual Plan of the State Government. It is with this background that the Punjab Water Supply and Sewerage Board has formulated a scheme 'Water Supply and Sewerage Project in eight major towns of the State, namely, Amritsar, Jullundur, Ludhiana, Patiala, Bhatinda, Moga, Pathankot and Rajpura at an estimated cost of Rs 66.70 crores. The cost of the project amounting to Rs. 66.70 crores is to be borne by the following agencies as under :—

	(Rupees in crores)
1. IDA through G.O.I.	22.61
2. State Government	10.07
3. LIC	13.00
4. Municipal Corporations/ Municipal Committees concerned	21.02
Total	66.70

20.3. The funds from the World Bank will flow on the basis of actual expenditure incurred from year to year. The State Government has proposed a provision of Rs 1,300 lakhs for this project in the Annual Plan 1981-82 and a provision of Rs 3,494.00 lakhs has been proposed for this project in the Sixth Five-Year Plan 1980—85. The reimburseable amount by the World Bank against the provision of Rs 1,300 lakhs for this project in the Annual Plan 1981-82 would be Rs. 455.00 lakhs and similarly the reimbursable amount against the provisions of Rs 3,494.00 in the

Sixth Five-Year Plan 1980—85 for this project by the World Bank would come to Rs 1,222.90 lakhs which is at the rate of 35 per cent of the total provision for the respective plans. This will facilitate the State Government to provide —

- (i) Flush toilets in the dwelling units for which an amount of Rs 18.00 crores would be disbursed to the poorer section of society in the form of loans on soft rates recoverable over a long period and partly as an outright grant.
- (ii) The existing water connections are proposed to be metered.

(iii) To make the project viable, it is proposed to introduce Sewerage Charges from the beneficiaries for this project.

(iv) The project provides for consultancy services to prepare feasibility reports in respect of sewage treatment plants in all the 8 towns for which the World Bank has agreed to provide loan. The statement below gives information regarding the provision of funds during 1980-81 viz -a- viz requirement of funds :—

(Rupees in lakhs)

Name of the Project	Provision for 1980-81	Requirement for 1980-81 according to the project report	Amount reimbursable during 1980-81
1	2	3	4
Punjab W/S & Sewerage Project (IDA Project)	(*) 1,160.00	(**) 1,411.05	€30.00

(*) It includes LIC loan of Rs. 331.00 lakhs.

(**) It includes LIC Loan of Rs. 402.91 lakhs.

II. Kandi Watershed and Area Development Project

20.4. The largest underdeveloped area of Punjab State lies in the Himalayans sub-mountainous Zone known as Kandi area tract. This tract includes all land within the Punjab to Shivalik hills together with a narrow band of largely underdeveloped farm land. This band of underdeveloped farm land lies immediately below the hills and to the north of main highway which runs from Chandigarh in the south-east through the towns of Ropar and Hoshiarpur to Dasuya (Hoshiarpur District) in the north-west. Thus on the north of the road lies the Kandi tract, and to the south the mainly irrigated and rich agricultural land of the plains of Punjab.

20.5. The Project area comprises 5 water-sheds in the Kandi Area tract and includes agricultural lands south of Chandigarh. Hoshiarpur road which is affected by floods generated by heavy rains in Shivalik hills. The main focus of the project, however, is on the Kandi tract, identified as most backward area in the State and which lies within the administrative district of Hoshiarpur and Ropar. It covers area of about 4,500 Sq Kms (9% of the total area of the State) and contains some 6% of the Punjab's population.

20.6. The State resources are inadequate to take up this work for development of the Shivalik Hills. It is with this object in view that the "Kandi Watershed and Area Development Project" was prepared for assistance from the World Bank. It covers five choe catchments. The project will take a period of five years (1979-80 to 1983-84) for completion. Since the project could not start during the year 1979-80, as such, the project would start from 1980-81 and end in 1984-85. The total cost of the Project is estimated at Rs 41.45 crores, out of which the World Bank will finance about 21.00 crores. The proposed project is an integrated development project involving various disciplines and it would be a first comprehensive attempt to take the problem of the Himalayan Sub-mountainous Zone.

20.7. The World Bank has so far cleared only choe viz., Dolbaha out of the five choes included in the Projects. The work even on Dolbaha Choe could not be taken up in its entirety because of the condition of engagement of the consultants to be appointed for this project. Retroactive credit of 4 million USS had been provided in the Project. Out of this credit some work of reforestation, land developments, Irrigation etc. had been carried

out during the year 1979-80. The funding pattern of the project is given as under :—

(Rs in lakhs)

	Outlay 1980-81	Amount reimbursable by the World Bank	Proposed outlay 1981-82	Amount reimbursable by the World Bank 1981-82	Sixth FYP outlay 1980-85	Reimbrs- able by the World Bank 1980-85
KANDI WATERSHED & AREA DEVELOPMENT						
Pb. Agr. University	5.00	1.75	5.30	1.86	25.55	8.94
Horticulture	22.07	7.72	12.00	4.20	70.00	24.50
Soil Conservation	42.00	14.70	48.00	16.80	296.00	103.60
Animal Husbandry	5.00	1.75	63.12	22.11	406.30	124.21
Forests	20.00	7.00	74.00	25.90	611.00	213.85
Fisheries	2.00	0.70	8.00	2.80	64.00	22.40
Total Agr. Portion	96.07	33.62	210.48	73.67	1472.85	515.50
Irrigation Portion						
Dalbaha Irrigation	140.00	49.00	150.00	52.50	584.00	204.40
Dalbaha (flood control)	189.47	66.31	50.00	17.50	996.00	348.60
Low Dam (watershed)	2.70	0.70	50.00	17.50	996.00	348.60
Technical Assistance (Training)	35.00	12.25	85.00	29.75	265.00	92.75
Project Administration	—	—	8.00	2.80	32.00	11.20
Total Irrigation Portion	366.47	128.36	693.00	120.05	2873.00	1005.55
Total II	462.54	161.88	903.48	193.72	4345.85	1521.05

(3) Punjab State Seed Corporation

20.8. The Punjab State was selected for participation in the first phase of the National Seed Programme along with three other States; viz. Andhra Pradesh, Haryana and Maharashtra. The National Seed Programme has been instituted by the Government of India with financial assistance of the World Bank to restructure the Seed Industry and improve the quality and quantity of Seed produced for increasing agricultural production in the country. The total estimated cost of the National Seed Programme is Rs 52.7 Million dollars (Rs 46.11 crores) and the World Bank

will make loan available to the extent of 25 million dollars (Rs 21.87 crores).

20.9. The Punjab State Seed Project envisages that the total area to be brought under seed production will be around 16,000 hect. out of a total cultivated area of about 80,000 hect. in Ludhiana District (Parts of Ludhiana and Mangat Blocks), Jullundur District (Jullundur East Jullundur West and parts of Adampur and Nawanshahr Blocks) and Faridkot District (parts of Muktsar, Malout and Kotkapura Blocks).

20.10. By the end of the year 1980-81 by which time the programme is expected to achieve

its targets, the Punjab State will produce saleable certified seeds as below :—

	(In tonnes)
Wheat	.. 30,000
Paddy	.. 5,000
Potatoes	.. 8,000
Maize	.. 1,100
Groundnut	.. 600
Cotton	.. 400

20.11. The total value of this saleable certified seed will be Rs. 11.15 crores. The production and sale of seed will bring an additional return of 30 to 35 per cent on the value of commercial gains. The National Seed Programme *inter alia* provides setting up of the State Seed Corporations in the selected States for arranging production, processing and marketing of certified seed. It is in this background that the Punjab State Seeds Corporation came into existence on 27th March, 1976 and was registered as a Public Limited Company under the Companies Act, 1956 to implement the State Seed Projects forming part of the National Seed Programme and for the purpose undertaking production of certified seeds in sufficient quantities and providing the same at reasonable prices to support the National Seed Programme.

20.12. The authorised share capital of the Corporation is Rs 5 crores divided into 3,75,000 equity shares of Rs 100 each and Rs 1,25,000 preference shares of Rs 100 each. The issued capital of the corporation is allotted in the following proportion :—

Punjab Government	..	35%
Growers in the project area	..	35%
National Seeds Corporation	..	30%

20.13. The project signed in April-May, 1976 envisaged a total expenditure of Rs 391.90 lakhs. The Public Investment Board reduced the estimates to Rs 248.95 lakhs, but the Punjab State Seed Corporation further reduced it to Rs. 131.37 lacs for reasons such as more flat storage and less steel silo storage, elimination of dust-extrac-

tion equipment use of indigenous plants and machinery instead of imported ones and lesser architecture fee etc. The State Government is committed to contribute Rs. 70.00 lakhs towards the share capital of the Corporation. Out of this Rs 39.00 lakhs has already been contributed.

20.14. The componentwise phasing of expenditure during 1980-81 is as under :—

	(Rupees in lakhs)
	1980-81
(i) Civil Works	.. 25.95
(ii) Machinery	.. 33.77
Total	.. 59.72

20.15. The Corporation took over three processing plants of the National Seed Corporation located at Jullundur, Mandi Gobindgarh and Bhatinda. The plants at Mandi Gobindgarh and Bhatinda have been shifted to Ludhiana and Kotkapura, respectively.

4. Integrated Cotton Development Project

20.16. The agreement regarding Integrated Cotton Development Project was signed with the World Bank authorities, on 26th February, 1976. The project is being implemented in Muktsar block from 1st April, 1976. Its total estimated cost is Rs 2.5 crores. The objectives of the project are :—

- (i) to increase productivity of cotton from the shortage of 12½ quintals to 20 quintals per hectare;
- (ii) to produce more staple lengths of cotton needed by the Textile industry ;
- (iii) to improve the quality of ginning by advancing credit to Cotton ginning sectors for purchase of spares, etc.
- (iv) to provide high quality cotton seed products; and
- (v) to provide other facilities to the growers including credit for successful cultivation of cotton crop.

20.17. Fifty per cent of the cost on Civil Works, machinery and equipment is reimburseable by IDA to Government of India who passes on to the State Government 35 per cent of the actual expenditure.

20.18. Ninety per cent of incremental credit is advanced by ARDC to the participating Banks and 75 per cent of this amount is reimbursed by I.D.A. to the Agriculture Refinance Development Corporation.

20.19. No expenditure has been incurred under the component 'Modernisation of Cotton Ginning and Pressing Factories'. The Government of India has already been informed that as adequate credit facilities on lesser rate of interest are available to the cotton factory owners from other sources like Punjab Financial Corporation and also the adoption of open general licensing policy by Government of India, they are not coming forward to avail of the credit facility under the project. Markfed was previously considering the possibility of taking loans for the installation of two cotton ginning factories at Killianwali and Jaitu and for the expansion of seed crushing plant at Gidderbaha but has refused to avail of the credit facilities under the project.

20.20. The progress made under the project is indicated below :—

(Qty. in Tonnes)

	Consumption 1976	Target 1979	Achievement 1979
1. Fertilizer Consumption	N 6500 P 912	9400 3540	10715 2269
2. Seed distribution	1450 Qtls.	Seed of new variety F. 414 was distributed in the Project area during 1979 out of total quantity of 2100 quintals distributed in the State.	

20.21. **Plant Protection** :—During Kharif 1979 need based/spraying was undertaken with the help of 50 scouts engaged in the project for first time.

Farmers who were previously using cheap systemic pesticides have been persuaded to use contact pesticides (although comparatively much costlier as only contact pesticides can control the pink bollworm which is the main pest problem of the area. An area of 44484 hectares gross were covered under ground spraying in addition to 34696 hec. (gross) covered under aerial spraying.

Demonstrations

20.22. One hundred demonstration plots (paired rows) were laid in the project area during 1979, where increased plant population (double trebble) was compared with the present recommended practice. These demonstrations have given an increased yield of about 15 to 20 per cent.

20.23. As a result of the work done in the project the average yield of cotton in the project area is about 20% more as compared to the neighbouring blocks.

20.24. The provision in the Annual Plan 1980-81 is of the order of Rs. 15.16 lakhs out of an amount of Rs. 5.30 lakhs would be imbrused by the World Bank through the Government of India. Under the project, the World Bank reimburses 50 per cent of the actual expenditure to Government of India who passes 35 per cent of the expenditure to the State Government. The proposed plan provision, in the Annual Plan 1981-82 and in the Sixth Five-Year Plan 1980-85 for this project are to the tune of Rs. 2.00 lakhs and Rs. 17.16 lakhs respectively and the re-imbursement of Rs 0.70 lakhs and Rs. 6.01 lakhs would accrue to the State respectively.

(5) Irrigation Project of Punjab

20.25. With the complete harnessing of available water resources in the State the main emphasis has been laid on the efficient use of existing water resources. This requires the conjunctive use of surface and ground water resources through the lining of channels and water courses in the State to save the loss of precious water from seepage/absorption. The lining would also help in controlling the weed growth and waterlogging. It is estimated that nearly 25 per cent to 45 per cent of water can be saved from wastage by lining the earthen channels. The water thus saved can be utilised for providing new irrigation facilities as well as improving operational efficiency of channels.

20.26. At the normal pace of work it would take a much longer time to line all the earthen channels and 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 the World Bank. The agreement with the World Bank was signed on 30th March, 1979. The main components of the project along with their cost are given below :—

(Rs. in crores)

Component	Phased requirement of funds				
	1980-81	1981-82	1982-83	1983-84	Total
1	2	3	4	5	6
1. Modernisation of canals	18.40	21.70	23.20	24.76	88.06
2. Pilot demonstration	1.21	0.58	0.28	—	2.07
3. Modernisation of water courses	22.90	24.50	26.25	28.05	101.70
4. Project Preparation facilities (I.D.A.)	0.12	0.12	0.12	0.12	0.48
Total	42.63	46.90	49.85	52.93	192.31

The various components of irrigation project of Punjab are discussed below :—

(i) Modernisation of Canals

20.27. This component is being implemented by the Irrigation Department of State. It is by far the most important programme of the Department. The project estimates for lining 4060 Kms. of channels at an estimated cost of Rs. 100.09 crores have been approved by the World Bank. The project would be completed in five years period beginning from 1979-80. For the year 1979-80 Rs. 11.00 crores were provided with which 640 Kms. of channels were proposed to be lined. For the year 1980-81 a provision of Rs. 16.72 crores has been made and it is targetted to line another 7.50 Kms. of channels. The State Government would receive a reimbursement of 35 per cent of the cost of works completed during the course of the year. Government of India would, however, get 50 per cent of the cost of works completed from the World Bank.

(ii) Pilot Demonstration

20.28. Over and above the on-going modernisation programme for canal and water courses 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 project with an estimated cost of Rs. 280 lakhs is scheduled to be completed in a period of four years.

20.29. 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. The Project would include such works as Sprinkler Irrigation, Saline augmentation tubewells, buried conveyance system and Special studies. Against Rs. 30.00 lakhs provided in the Annual Plan 1980-81, Rs. 58.00 lakhs has been proposed to be provided in the Annual Plan 1981-82 and likewise an amount of Rs. 279.00 lakhs has been proposed for the Sixth Five Year Plan 1980—85 for the Project.

(ii) Lining of Water Courses

20.30. This programme assisted by the World Bank is being implemented by the Punjab State

Tubewell Corporation in the State. The programme envisaged lining of water courses of 2820 outlets having total length of 16735 kms. at a total cost of Rs. 117.95 crores. This project would

be completed in five years beginning from the year 1979-80. The year-wise break up of the physical targets and financial outlay involved is given in the following table :—

Particulars	1980-81	1981-82	1982-83	1983-84	Total
1. No. of outlet W/Cs which are to be lined	.. 590	590	590	590	2360
2. Length of W/Cs to be lined (in kms.)	.. 3525	3500	3500	3500	14025
3. Total Cost (In crores of Rupees)	.. 2290	2450	2625	2805	10170
4. State share at 20% of item (3) above in crores of Rupees	.. 4.58	4.90	5.25	5.61	20.34
5. Bank's share at 80% of item (3) above (In crores of Rupees)	.. 18.32	19.60	21.00	22.44	81.36

20.31 During the year 1980-81 3525 kms. of water courses were proposed to be lined up at an estimated cost of Rs. 22.90 crores for which, the requisite provision of 20 per cent from the State side has been made. The rest of 80 per cent of the total cost would be provided by the Commercial Banks who would be refinanced by the A.R.D.C. and A.R.D.C. in turn will be assisted by the World Bank to the extent of 50 per cent of the project cost. There would, thus, be no direct reimbursement to the State from the World Bank/Government of India.

(iv) Project Preparation facilities

20.32 The work is to be undertaken and financed wholly by the I.D.A.

20.33 The provision of funds for the various World Bank Aided Projects undertaken by the Punjab State in the Annual Plan 1980-81 and the proposed provision in the Annual Plan 1981-82 and the proposed provision for the Sixth Five-Year Plan 1980—85 is given in annexure I which explains the financing pattern of these projects.

DRAFT SIXTH FIVE-YEAR PLAN 1980-85 AND ANNUAL PLAN 1981-82—ANNEXURE I

Projects assisted by the World Bank

Name of Project	(Rs. in lakhs)					
	Outlay 1980-81	Amount Reimbursable by World Bank against provision for 1980-81	Proposed outlay 1981-82	Amount reimbursable by the World Bank against provision of 1981-82	Proposed outlay for the Sixth Five-Year Plan 1980-85	Amount reimburs- able by the World Bank against the provision 1980-85
1	2	3	4	5	6	7
J. Water Supply and Sewerage—IDA Project in 8 selected towns :						
(i) I.D.A. Loans	1160.00	630.00	900.00	315.00	1685.60	589.96
(ii) State Govt. share	—	—	—	—	722.40	252.84
(iii) L.I.C. Loan	—	—	400.00	140.00	1086.00	380.10
Total—I	1160.00	630.00	1300.00	455.00	3494.00	1222.90
II. Kandi Watershed and Area Development—						
Agriculture Portion—						
(i) Punjab Agriculture University	5.00	1.75	5.30	1.86	25.55	8.94
(ii) Horticulture	22.07	7.72	12.00	4.20	70.00	24.50
(iii) Soil Conservation	42.00	14.70	48.00	16.80	296.00	103.60
(iv) Animal Husbandry	5.00	1.75	63.18	22.11	406.30	124.21
(v) Forests	20.00	7.00	74.00	25.90	611.00	213.85
(vi) Fisheries	2.00	0.70	8.00	2.80	64.00	22.40
Total Agriculture Portion	96.07	33.62	210.48	73.67	1472.85	515.50
Irrigation Portion—						
(i) Dholbaha Irrigation	140.00	49.00	150.00	52.50	584.00	204.40
(ii) Dholbaha Flood Control	189.47	66.31	50.00	17.50	996.00	348.60
(iii) Low Dam (Watershed)	2.70	0.70	50.00	17.50	996.00	348.60
(iv) Technical assistance (Training)	35.00	12.25	85.00	29.75	265.00	92.75
(v) Project Administration	—	—	8.00	2.80	32.00	11.20
Total Irrigation Portion	366.47	128.36	693.00	120.05	2873.00	1005.55
Total—II	462.54	161.88	903.48	193.72	4345.85	1521.05
III. Punjab Irrigation Project :						
(i) Modernisation of canals	1672.00	585.20	1672.00	585.20	11885.00	4159.75
(ii) Pilot Demonstration	30.00	10.50	58.00	20.30	279.00	97.65
(iii) Lining of Water Courses	482.00	No direct reimbursement is being received by the State Govt.	605.00	211.75	*3881.00	1358.35
Total—III	2184.00	665.70	2335.00	817.25	16045.00	5615.75
IV. State Seed Corporation						
Total—IV	10.00	8.34	24.00	8.40	54.00	18.90
V. Integrated Cotton Development Project, Muktsar						
Total—V	15.16	5.30	2.00	0.70	17.16	6.01
Grand Total I—V	3831.70	1471.22	4214.48	1475.07	25428.86	8900.10



S C H E M E S

SIXTH FIVE YEAR PLAN 1980-85

STATEMENT I

HEADS OF DEVELOPMENT

OUTLAYS AND EXPENDITURE

(Rs. in lakhs)

Head of Development	1979-80 Actuals	1980-81 Approved Outlay	1980-85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
I. AGRICULTURE AND ALLIED SECTORS						
Agriculture	1541.75	2375.00	10160.00	3430.40	1943.00	745.75
Minor Irrigation	1051.81	768.00	4878.00	4823.00	811.00	801.00
Soil Conservation	253.59	340.00	2120.00	1042.00	340.00	198.50
Food	5.00	5.00	17.00	17.00	12.00	12.00
Animal Husbandry	221.17	282.30	2030.00	144.18	375.00	23.87
Dairying and Milk Supply	45.63	82.00	236.00	127.00	51.00	26.50
Fisheries	18.80	30.00	175.00	84.46	30.00	15.75
Forests	171.00	195.00	1540.00	127.00	300.00	30.00
Community Development and Panchayats	524.41	855.00	5200.00	3445.00	955.00	602.00
Total I	3833.16	4932.30	26356.00	13245.04	4817.00	2455.37
II. CO-OPERATION						
Total II	716.26	586.20	4150.00	3314.65	820.00	598.48
III. IRRIGATION AND POWER						
Irrigation	3188.49	4100.00	37051.00	37051.00	4823.00	4823.00
Anti-Water Logging, Drainage and Flood Control	1062.28	500.00	2100.00	2100.00	400.00	400.00
Power	8960.93	10431.00	73603.00	73603.00	13635.00	13635.00
Total III	13211.70	15031.00	112754.00	112754.00	18858.00	18858.00
IV. INDUSTRY AND MINERALS						
Large and Medium Industries	1533.04	900.00	6087.20	5959.00	1058.50	1033.75
Village and Small Scale Industries	230.89	340.00	2061.30	1498.00	410.50	310.10
Mines and Minerals	2.16	3.00	20.00	10.60	8.00	6.00
Weights and Measures	—	3.00	15.00	6.75	3.00	2.25
Total IV	1766.09	1246.00	8183.50	7474.35	1480.00	1352.10
V. TRANSPORT AND COMMUNICATION						
Civil Aviation	13.07	29.50	70.00	42.00	14.00	7.00
Roads and Bridges	1531.09	1300.00	7015.00	7015.00	1300.00	1300.00
Road Transport	708.67	700.00	4000.00	4000.00	800.00	800.00
Tourism	45.00	45.00	255.00	255.00	45.00	45.00
Total V	2297.83	2074.50	11340.00	11312.00	2159.00	2152.00

SIXTH FIVE YEAR PLAN 1980-85

STATEMENT I

HEADS OF DEVELOPMENT

OUTLAYS AND EXPENDITURE

(Rs. in lakhs)

Head of Development	1979-80 (Actuals)	1980-81 (Approved Outlay)	1980-85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
VI. SOCIAL AND COMMUNITY SERVICES						
General Education	316.29	743.00	5300.00	936.56	1045.00	227.52
Technical Education	24.04	55.00	450.00	90.10	100.00	36.00
Public Health and Sanitation	598.00	840.00	5000.00	1267.60	950.00	232.00
Rural Water Supply	481.16	500.00	2800.00	2800.00	800.00	800.00
Housing	1014.75	989.00	5700.00	5700.00	1040.00	1040.00
Urban Development	1862.78	2125.00	10,000.00	9940.00	2115.00	2105.00
Information and Publicity	64.22	36.00	180.00	5.00	37.50	1.00
Labour & Labour Welfare	52.77	47.00	2229.50	74.00	546.00	15.00
Welfare of Scheduled Castes and Backward Classes	397.25	389.00	3200.00	284.00	489.00	71.00
Social Welfare	63.67	85.00	582.00	186.20	161.00	95.00
Nutrition	14.62	16.00	80.00	—	16.00	—
Total VI	4889.55	5825.00	35521.50	21283.46	7299.50	4622.52
VII. ECONOMIC SERVICES						
Statistics	0.32	19.00	85.00	—	17.00	—
Planning Machinery	1.02	10.00	50.00	—	10.00	—
Total VII	1.34	29.00	135.00	—	27.00	—
VIII. GENERAL SERVICES						
Stationery and Printing	11.84	11.00	60.00	37.40	11.00	7.48
PUNSUP	10.00	10.00	50.00	—	10.00	—
Public Works	179.06	246.00	1400.00	1400.00	250.00	250.00
Administrative Training Institute	10.00	9.00	50.00	50.00	9.00	9.00
Total VIII	210.90	276.00	1560.00	1487.40	280.00	266.48
Grand Total	26926.83	30000.00	20000.00	170870.90	35740.50	30304.95

*includes Rs. 2 lakhs for weights and Measures.

SIXTH FIVE-YEAR PLAN : 1980-85 SCHEMES

STATEMENT II

HEAD : AGRICULTURE

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
PUNJAB AGRICULTURAL UNIVERSITY						
1. Research	197.17	180.00	1,000.00	200.00	190.00	35.00
2. Agricultural Education, Extension and Farmers Training						
Total	197.17	180.00	1,000.00	200.00	190.00	35.00
AGRICULTURE DEPARTMENT						
3. Extension and Farmers Training						
A(P) 3.1 Higher Training of Selected village level workers	1.01	2.00	2.00	—	—	—
A(P) 3.2 Deputation of village level workers						
A(P) 3.3 Foreign/In-service Training	0.32	1.70	1.70	—	—	—
A(P) 3.4 Training of Farmers	1.05	1.80	1.80	—	—	—
A(P) 3.5 Higher Training and Condensed Course of In-service A.S.I's and C.I's.	2.02	1.51	1.81	—	0.30	—
A(P) 3.6 (a) Farmers Training and education in H.Y.V.P. running of Farmers Training Centres in the State	9.21	10.43	80.00	—	16.60	—
(b) Training Schemes-Grant to Institutions for organising Training Camps	3.26	3.27	17.80	—	3.60	—
Total	16.87	20.71	105.11	—	20.50	—
4. Direction and Administration						
A(P) 4.1 Re-organisation of Agricultural Extension/ Administration/Re-organisation of Agriculture Department	11.63	15.00	77.50	—	16.00	—
A(P) 4.2 Strengthening of Planning Machinery at Head-Quarter-level	—	0.80	4.00	—	0.80	—
Total	11.63	15.80	81.50	—	16.80	—
5. Land Reclamation						
A(P) 5.1 Reclamation of Alkaline/Saline lands including Culturable waste land	17.29	12.34	82.00	—	17.51	—
A(P) 5.2 Amendment of Alkali soils	393.43	442.00	2484.00	—	450.00	—
A(P) 5.3 Setting up of Land Reclamation Cell	5.98	8.00	55.00	—	10.56	—
Total	416.70	462.34	2621.00	—	478.07	—

SIXTH FIVE-YEAR PLAN 1980-85 SCHEMES

STATEMENT II

HEAD: AGRICULTURE

(Re in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82		
			Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	5	6	7	
6. Multiplication and Distribution of Seeds							
A(P) 6.1	Seed Certification authority	2.50	2.05	10.00	—	2.00	—
A(P) 6.2	Seed Production and distribution	—	5.00	5.00	—	—	—
A(P) 6.3	Contribution to Land Development and Reclamation Corporation	15.00	15.00	90.00	90.00	15.00	15.00
A(P) 6.4	World Bank Seed Project/Establishment of Punjab State Seeds Corporation	10.00	10.00	54.00	54.00	24.00	24.00
A(P) 6.5	Expansion of Seed Testing Laboratory	1.09	2.65	22.00	6.40	8.70	3.75
	Total	28.59	34.70	181.00	150.40	49.70	42.75
7. Manures and Fertilizers							
A(P) 7.1	Establishment of Soil Testing Laboratories including Mobile Testing laboratories	5.42	14.70	135.00	—	21.30	—
A(P) 7.2	Fertilizer Demonstration and Training in Cultivators field	1.29	1.50	1.50	—	—	—
A(P) 7.3	Subsidy for the off-time Storage of fertilizers (Imported Zinc Sulphate)	14.22	40.00	65.00	—	25.00	—
A(P) 7.4	Scheme for providing Incentives to farmers	—	510.00	510.00	—	—	—
	Total	20.93	566.20	711.50	—	46.30	—
8. High Yielding Varieties Programme							
A(P) 8.1	Intensive High Yielding Varieties Programme	39.40	50.00	220.00	—	45.00	—
A(P) 8.2	Scheme for Intensive village Development Project in village Gaggar	0.79	—	—	—	—	—
	Total	40.19	50.00	220.00	—	45.00	—
9. Plant Protection							
A(P) 9.1	Ground Spraying of Crops	44.60	60.00	380.00	—	80.00	—
A(P) 9.2	Loans for Aerial/Ground spraying of Crops	157.41	175.00	1025.00	1025.00	210.00	210.00
A(P) 9.3	Intensification of Plant Protection work	7.75	10.00	50.00	—	10.00	—
A(P) 9.4	Fertilizers quality Control Laboratory	2.10	4.40	54.00	3.00	10.00	1.00
A(P) 9.5	Control of Weeds and Loose smut (Sharing basis)	18.70	28.00	150.00	—	30.00	—

SIXTH FIVE-YEAR PLAN 1980-85 SCHEMES

STATEMENT II

HEAD : AGRICULTURE

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
A(P) 9.6 Quality Control of Inputs Insecticides Testing Laboratory	7.67	9.00	52.00	2.00	9.00	1.00
A(P) 9.7 Mobile Ground Spray Units	—	20.00	80.00	—	20.00	—
A(P) 9.8 Construction of helipads for aerial spray of Cotton	—	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 Aero-Chemical operations (Sharing basis)	—	1.00	5.00	—	1.00	—
A(P) 9.10 Scheme regarding bee-keeping	—	2.31	20.00	—	2.70	—
Total	238.23	329.71	1836.00	1050.00	372.70	212.00
10. Commercial Crops						
A(P) 10.1 Development of Sugarcane in the State and Public Sector Sugar Mills	12.51	19.65	98.43	—	19.35	—
A(P) 10.2 Integrated Cotton Development Project Muktsar	6.54	15.16	17.16	—	2.00	—
A(P) 10.3 Intensive Cotton District Programme including scheme for production of Nucleous Seed of Cotton (Sharing basis)	32.20	40.61	250.00	—	46.64	—
A(P) 10.4 Intensive Oil-seed Development Programme (Sharing basis)	4.22	10.50	25.00	—	3.22	—
A(P) 10.5 Intensive Pulses Development Programme (Sharing basis)	2.56	5.00	20.00	—	3.27	—
Total	58.03	90.92	410.59	—	74.48	—
11. Small Farmers and Agricultural Labourers						
A(P) 11.1 Scheme for Small Farmers and Agricultural Labourers—						
(i) State SFDA's	75.00	5.00	5.00	Provision made under the sub-head "Community Development and Panchayats."		
(ii) Central SFDA's	65.89	80.00	80.00			
Total	140.89	85.00	85.00			
12. Agricultural Engineering						
A(P) 12.1 Establishment of Testing Maintenance and standard certification of Agricultural Machinery	—	6.00	6.00	—	—	—
A(P) 12.2 Agro-Industries Corporation	6.00	6.00	160.00	160.00	60.00	60.00
A(P) 12.3 Intensification of Farm-Mechanisation and Popularisation of Improved Agricultural Implements	3.40	9.00	54.00	—	10.00	—
A(P) 12.4 Provision of supply of Improved Farm Storage to the Farmers	—	5.00	5.00	—	—	—
Total	9.40	26.00	225.00	160.00	70.00	60.00

SIXTH FIVE-YEAR PLAN 1980-85 SCHEMES

STATEMENT II

HEAD : AGRICULTURE

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
13. Agricultural Economics and Statistics						
A(P) 13.1 Field Staff of Statistical Wing of Agriculture Department ..	—	1.21	5.35	—	0.60	—
A(P) 13.2 Timely reporting revised Calendar Operation of Improved Crop Statistics (Sharing basis) ..	1.60	1.66	10.20	—	2.35	—
Total ..	1.60	2.87	15.55	—	2.95	—
14. Warehousing						
A(P) 14.1 Construction and Operation of Warehouses ..	25.00	25.00	85.00	85.00	15.00	15.00
Total ..	25.00	25.00	85.00	85.00	15.00	15.00
15. Agricultural Marketing and Quality Control						
A(P) 15.1 Grading of foodgrains and Oilseeds in regulated Markets ..	2.84	4.75	4.75	—	Shifted to Non-Plan	
A(P) 15.2 Development of Mandis ..	148.66	25.00	25.00	25.00	Shifted to Mkg. Board	
Total ..	151.50	29.75	29.75	25.00		
16. Agricultural Credit						
A(P) 16.1 Support to Ordinary and Special Debentures—						
(i) Agriculture Department ..	71.31	85.00	556.00	556.00	117.50	117.50
(ii) Soil Conservation Department ..	9.23	20.00	92.00	92.00	10.00	10.00
A(P) 16.2 Purchase of debenture of SCLMB for the purchase of Tractors and Agricultural Implements ..	86.77	150.00	800.00	800.00	162.50	162.50
A(P) 16.3 ARC Scheme for the reclamation of Alkaline/Saline Soils ..	—	15.00	135.00	135.00	30.00	30.00
A(P) 16.4 Grant of loans for Grape cultivation and Construction of Bowers under ARC scheme debenture support for Horticulture ..	—	5.00	13.00	13.00	8.00	8.00
A(P) 16.5 Gobar Gas Plants debenture support ..	—	2.00	2.00	2.00	—	—
A(P) 16.6 Dairy Development ..	—	10.00	50.00	50.00	25.00	25.00
A(P) 16.7 Poultry, Piggery, Sheep Breeding, Cattle, Feed Processing Unit and Camel Carts etc. ..	—	8.00	75.00	75.00	25.00	25.00
Total ..	167.31	295.00	1723.00	1723.00	378.00	378.00
17. Vegetables						
A(P) 17.1 Production and Multiplication of Seed Potato, development of Vegetables and grant of Cold Storage ..	—	21.00	60.00	—	11.50	—
Total ..	—	21.00	60.00	—	11.50	—

SIXTH FIVE-YEAR PLAN 1980-85 SCHEMES

STATEMENT II

HEAD : AGRICULTURE

(Rs. in lakhs)

Head of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
18. Employment Promotion Programme						
A(P) 18.1 Setting up of 300 Agro-Service Centres Payment of Interest Subsidy						
A(P) 18.2 Seed Margin Money assistance to Enterprenures for setting up of Agro-Service Centres						
Total	—	20.00	100.00	2.00	40.00	—
19. Others						
A(P) 19.1 Gobar Gas Plants	—	10.00	30.00	—	7.00	—
A(P) 19.2 Scheme for the award of Prizes to the best farmers	—	10.00	50.00	—	10.00	—
Total	—	20.00	80.00	—	17.00	—
Total—Agriculture Department	1326.87	2095.00	8570.00	3195.40	1638.00	707.75
20. Horticulture Department						
A(P) 20.1 Creation of separate Directorate of Horticulture	—	6.00	25.00	—	5.00	—
A(P) 20.2 Development of Horticulture in Punjab	10.90	37.30	185.00	16.00	38.00	—
A(P) 20.3 Package Programme on Citrus	0.65	1.25	10.00	—	3.00	—
A(P) 20.4 Demonstration-cum-Fruit Preservation Unit at Hoshiarpur and Faridkot and strengthening of existing Unit at Patiala	0.54	6.62	40.00	—	8.00	—
A(P) 20.5 Development of Horticulture in Kandi area Water Shed (World Bank)	5.62	22.07	70.00	19.00	12.00	3.00
A(P) 20.6 Subsidizing the rate of interest on Horticulture loan from Commercial Banks	—	6.00	65.00	—	15.00	—
A(P) 20.7 Popularisation of Mushroom Cultivation	—	1.45	15.00	—	3.00	—
A(P) 20.8 Cultivation of aromatic & medicinal Plants	—	3.84	25.00	—	5.00	—
A(P) 20.9 Beautification of Public Places & Kanjli Tourist Spot	—	4.47	35.00	—	7.00	—
A(P) 20.10 Establishment of Five Community Canning Centres	—	5.00	40.00	—	8.00	—
A(P) 20.11 Development of Pear Cultivation in Jullundur district and Ber Cultivation in Sangrur District	—	6.00	30.00	—	6.00	—
A(P) 20.12 Marketing of Horticulture Produce	—	—	50.00	—	5.00	—
Total—Horticulture Department	17.71	100.00	590.00	35.00	115.00	3.00
Grand—Total Agriculture	1541.75	2375.00	10160.00	3430.40	1943.00	745.75

SIXTH FIVE YEAR PLAN 1980 - 85 : SCHEMES

STATEMENT II

HEAD : MINOR IRRIGATION

(Rs. in lakhs)

Name of the scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980-85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
1. Agriculture Department						
MI(A) 1.1 Ground water cell (Strengthening of Groundwater and surface water organisation) ..	—	10.00	50.00	—	10.00	—
MI(A) 1.2 Grant of subsidy for sinking/repair of wells ..	0.13	0.20	—	—	—	—
MI(A) 1.3 Grant of subsidy for sinking/repair of tubewells/pumping sets ..	0.20	0.36	—	—	—	—
Total ..	0.33	10.50	50.00	—	10.00	—
2. Irrigation Department						
MI(I) 2.1 Integrated utilisation of water resources ..	17.04	20.00	100.00	100.00	20.00	20.00
MI(I) 2.2 Sinking of tubewells in different blocks ..	10.62	5.00	20.00	20.00	15.00	15.00
MI(I) 2.1 Lift and flow Irrigation schemes ..	14.06	3.00	—	—	—	—
MI(I) 2.4 Construction of ghats on canals ..	1.76	2.00	—	—	—	—
MI(I) 2.5 Sprinkler Irrigation schemes ..	1.00	2.00	89.00	89.00	25.00	25.00
MI(I) 2.6 Strengthening of surface/ground water (Minor Irrigation) Organisation ..	—	7.50	—	—	—	—
Total ..	44.48	39.50	209.00	209.00	60.00	60.00
3. Punjab State Tubewell Corporation						
MI(I) 3.1 Punjab State Tubewell Corporation	1007.00	718.00	4619.00	4619.00	741.00	741.00
(i) Minor Irrigation (tubewell)	130.00	136.00	738.00	738.00	176.00	136.00
(ii) C.A.D. ..	877.00	582.00	3881.00	3881.00	605.00	605.00
Total Minor Irrigation (Agriculture Department + Irrigation Department + PSTC (Tubewell)) ..	174.81	186.00	997.00	947.00	206.00	196.00
Grand Total (Minor Irrigation + C.A.D.) ..	1051.81	758.00	4878.00	4828.00	811.00	801.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : SOIL CONSERVATION

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
1. Soil Survey and testing						
SC(A) 1.1 Soil Survey in the State	7.82	12.00	62.00	—	11.00	—
Total	7.82	12.00	62.00	—	11.00	—
2. Education, Research and Training						
SC(A) 2.1 Training, Research and Demonstration	1.20	14.00	30.00	—	4.00	—
Total	1.20	14.00	30.00	—	4.00	—
3. Soil Conservation Schemes						
SC(A) 3.1 Soil & Water Conservation on Watershed Basis	107.53	145.00	675.00	550.00	125.00	110.00
SC(A) 3.2 Pilot Project on Development of Kandi Area with World Bank Assistance	20.94	42.00	296.00	227.00	48.00	36.50
SC(A) 3.3 Soil and Water Conservation Programme in other areas of the State	105.22	96.00	354.00	225.00	61.00	44.00
SC(A) 3.4 Centrally Sponsored Scheme for Integrated Watershed Management in catchment of flood Prone Rivers (Indo-Gangetic Basin) Ghaggar, River Punjab (State Share)	—	11.00	60.00	40.00	11.00	8.00
Total	233.69	294.00	1385.00	1042.00	245.00	198.50
Total Soil Conservation & Eng. Deptt.	242.71	320.00	1477.00	1042.00	260.00	198.50
Forest Department Soil Conservation Scheme						
SC(F) 1 Soil & Water Conservation on watershed basis in Kandi areas	10.88	20.00	643.00	—	80.00	—
Total	10.88	20.00	643.00	—	80.00	—
Grand Total	253.59	340.00	2120.00	1042.00	340.00	198.50

SIXTH FIVE YEAR PLAN 1980-85 SCHEMES

STATEMENT II

HEAD : FOOD

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
FD-1 Acquisition of Land for open Plinths	2.00	—	11.00	11.00	11.00	11.00
FD-2 Construction of storage godown (Dhuri)	3.00	5.00	6.00	6.00	1.00	1.00
Total	5.00	5.00	17.00	17.00	12.00	12.00

SIXTH FIVE-YEAR PLAN 1980-85: SCHEMES

STATEMENT II

HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 (Actuals)	1980-85			1981-82		
		1980-81 Approved Outlay)	Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
I. Direction and Administration							
AH 1.1	Strengthening and Expansion of Directorate of Animal Husbandry, Punjab	0.70	0.80	14.40	—	1.00	—
AH 1.2	Directorate of Animal Husbandry—Creation of Information and Publicity Cell	—	0.50	—	—	—	—
AH 1.3	Strengthening of Offices of District Animal Husbandry Officers and Project Officers—Int. Cattle Dev. Projects, Punjab	0.21	1.70	20.00	—	2.00	—
	Total	0.91	3.00	34.40	—	3.00	—
2. Veterinary Services and Animal Health							
AH 2.1	Opening of new Veterinary Dispensaries and strengthening and improvement of existing ones	—	23.30	80.00	10.00	16.30	—
AH 2.2	Upgrading of Veterinary Dispensaries/Units into Hospitals	—	—	33.93	15.00	4.15	3.00
AH 2.3	Expansion of Punjab Veterinary Vaccine Institute, Ludhiana	—	1.50	30.00	5.00	5.25	1.00
AH 2.4	Prophylactic Vaccination against Foot and Mouth	—	9.00	25.00	—	5.00	—
AH 2.5	Expansion of State Veterinary Medical Store	0.67	1.20	7.85	2.00	3.09	0.75
AH 2.6	All-India Co-ordinated Res. Project for Epidemiological Studies on Foot and Mouth	0.07	0.15	0.79	—	0.15	—
AH 2.7	Foot and Mouth Disease Control Programme—Project for Vaccination of Cattle and Buff in selected areas	1.45	1.50	28.00	—	5.59	—
A.H. 2.8	Estt. of Vety. Polyclinics at District Headquarters	—	—	10.00	3.00	2.40	1.00
AH 2.9	Setting up of State Vety. Council	—	0.15	1.00	—	0.20	—
AH 2.10	Estt. of Check Posts under R.E. Programme	0.20	—	0.20	0.20	0.20	0.20
AH 2.11	Providing Vety. aid at the door of the farmers	—	—	10.00	—	—	—
	Total	2.39	36.80	226.77	35.20	42.33	5.95
3. Veterinary Education and Research							
AH 3.1	Grant-in-aid to P.A.U., Ludhiana for Vety. Education and Research Schemes	50.03	50.00	275.00	—	60.00	—
	Total	50.03	50.00	275.00	—	60.00	—
4. Investigation and Statistics							
AH 4.1	Integrated Survey in Livestock—Number and Livestock Products	1.55	1.98	11.00	—	2.00	—
AH 4.2	Estimation of production, assessment of livestock and development programme of cultivated fodder	—	1.00	7.00	—	1.50	—
	Total	1.55	2.98	18.00	—	3.50	—

SIXTH FIVE YEAR PLAN 1980-85: SCHEMES

STATEMENT II

HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980-85		1981-82		
	Actuals	Approved Outlay	Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
5. Cattle Development							
AH 5.1	Indo-Swiss Project, Patiala—Expansion and strengthening	—	4.00	20.00	2.50	0.50	0.20
AH 5.2	Training of farmers in the technique of rearing, breeding, management of exotic/cross-bred cattle	1.14	1.25	1.25	—	—	—
AH 5.3	Assistance to Small/Marginal Farmers and Agrl. Labourers for rearing of cross-bred heifers	12.89	13.62	72.00	—	14.00	—
AH 5.4	Rounding up of Wild and Stray Cattle in Punjab	0.33	1.65	9.00	—	2.90	—
AH 5.5	Expansion of Government Holstein Friesian Cattle Breeding Farm, Matthewara	0.46	2.35	7.65	2.50	1.60	0.75
AH 5.6	Setting up of Bull Stations-cum-Semen Banks and L.N. Plants	0.65	4.00	50.00	15.50	3.00	2.50
AH 5.7	Kule Majra Co-op. Farm	0.22	8.00	25.00	25.00	0.10	0.10
AH 5.8	Implementation of Poultry, Piggery and Sheep Production Programme through Small/Marginal Farmers and Agricultural Labourers	13.28	10.29	70.00	—	13.00	—
	Total	28.97	45.16	254.90	45.50	35.10	3.55
6. Poultry Development							
AH 6.1	Addl. production of day old pullets at State Poultry Farms	1.05	6.30	30.00	5.00	5.00	1.50
AH 6.2	Estt. of Poultry Estates in selected localities for providing employment to educated unemployed	—	0.10	0.10	—	—	—
AH 6.3	Investment in the share capital of the Punjab Poultry Corporation for marketing of eggs, Egg Tray Project, expansion of Feed Compounding activities—storage of eggs, etc.	9.00	10.00	20.00	20.00	—	—
AH 6.4	Establishment of a Broiler Project for production of day old high-bred broiler chicks	—	—	15.00	3.00	5.00	1.50
	Total	10.05	16.40	65.10	28.00	10.00	3.00
7. Sheep and Wool Development							
AH 7.1	Supplying of shearing and spraying equipment at the sheep and Wool Extension Centres	1.20	—	—	—	—	—
AH 7.2	Supply of exotic/cross-bred rams for cross-breeding at Sheep and Wool Extension Centres and to bona fide sheep breeders	—	0.50	6.80	—	1.50	—
AH 7.3	Provision of Intensive Health-cover through Sheep and Wool Extension Centres	—	1.75	6.00	—	1.00	—
AH 7.4	Setting up of a Sheep Farm for Fat Lamb production	—	—	5.08	—	3.00	—
AH 7.5	Expansion of Government Sheep Breeding Farm, Matthewara	—	—	5.63	—	0.74	—
	Total	1.20	2.25	23.51	—	6.24	—

SIXTH FIVE-YEAR PLAN 1980—85 : SCHEMES

STATEMENT II

HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81		1980—85		1981-82	
		Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	5	6	7	
8. Piggery Development							
AH 8.1	Expansion of Pig Breeding Farms/Units	1.58	2.27	16.00	3.50	3.67	1.00
AH 8.2	Establishment of new Pig Breeding Farms	5.25	3.75	25.00	3.50	5.00	1.50
AH 8.3	Establishment of Fattening Unit at the Pig Breeding Farm, Kharar	—	1.25	8.40	1.20	1.57	0.45
	Total	6.83	7.27	49.40	8.20	10.24	2.95
9. Other Livestock Development							
AH 9.1	Evaluation of performance of Buff Bulls in field conditions	—	4.17	15.00	—	3.00	—
AH 9.2	Kandi Watershed and Area Development Project—Livestock Development Programme	—	5.00	406.30	5.28	63.18	1.92
AH 9.3	Setting up of Poly-technics for Animal Husbandry and Agricultural Training	—	5.00	20.00	13.00	5.38	4.00
AH 9.4	Integrated Rural Development Programme	110.18	90.00	539.34	—	114.00	—
AH 9.5	Expansion of Buffalo Breeding Farm, Bir Dosanj, Nabha	—	—	10.00	4.00	2.00	1.00
AH 9.6	Establishment of Mule Breeding Centres	—	—	5.00	2.00	0.10	—
AH 9.7	Maintenance of Herd-Books of selected buffaloes	—	—	10.00	—	0.10	—
	Total	110.18	104.17	1,005.64	24.28	187.76	6.92
10. Feed and Fodder Development							
AH 10.1	Intensification of existing Forage Planting Material Production Farms	1.67	3.75	14.18	3.00	4.72	1.50
AH 10.2	Creation of Cell for Feed and Fodder at State level	0.29	0.52	2.90	—	0.57	—
AH 10.3	Production and Popularisation of newly evolved fodder varieties	7.10	10.00	60.20	—	11.54	—
	Total	9.06	14.27	77.28	3.00	16.83	1.50
	Grand Total	221.17	282.30	20,30.00	144.18	375.00	23.87

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES
STATEMENT II
HEAD : DAIRYING AND MILK SUPPLY

(Rs. in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980-85	1981-82			
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	5	6	7	
1. Direction and Administration							
D.M.1.1	Strengthening of Headquarters staff	—	1.00	5.00	—	1.00	—
	Total	—	1.00	5.00	—	1.00	—
2. Education and Training							
D.M.2.1	Training of Technical Personnel	0.19	0.50	2.00	—	0.50	—
D.M.2.2	Establishment of Dairy Extension Units for Intensification of milk production	—	12.50	20.00	—	3.00	—
	Total	0.19	13.00	22.00	—	3.50	—
3. Dairy Development							
D.M.3.1	Establishment of cattle feed factory	—	2.00	5.00	5.00	1.00	1.00
D.M.3.2	Strengthening of Punjab Dairy Development Corporation	10.00	2.00	3.00	3.00	1.00	1.00
D.M.3.3	Establishment of Milk Chilling-cum-Demonstration Centres in the border, sub-montane, bet and backward area of the State	21.97	34.00	92.00	92.00	20.00	20.00
D.M.3.4	Establishment of Milk Plant, Gurdaspur	—	10.00	16.00	16.00	1.00	1.00
D.M.3.5	Establishment of Cheese Plant	—	—	1.00	1.00	0.50	0.50
D.M.3.6	Establishment of Govt. Laboratory for testing milk products	—	—	2.00	—	1.00	—
D.M.3.7	Intensification of milk production—providing of subsidy for the construction of model cattle sheds to small and marginal farmers (IRDP)	—	5.00	15.00	—	5.00	—
D.M.3.8	Special Employment Drive—Introduction of scientific/commercialised milk production	3.19	10.00	50.00	10.00	12.00	3.00
	Total	35.16	63.00	184.00	127.00	41.50	26.50
4 Others							
D.M.4.1	Supply of subsidised milk to the weaker sections of the society	5.00	5.00	25.00	—	5.00	—
D.M.4.2	Grant of assistance to Dairy Co-operatives	5.28	—	—	—	—	—
	Total	10.28	5.00	25.00	—	5.00	—
	Grand Total	45.63	82.00	236.00	127.00	51.00	26.50

SIXTH FIVE YEAR PLAN 1980---85 : SCHEMES
STATEMENT II
HEAD : FISHERIES

(Rs. in lakhs)

Name of the Scheme/Project	1979-80		1980-81		1980-85		1981-82	
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content		
1	2	3	4	5	6	7		
1. Direction and Administration								
FH 1.1 Strengthening of staff at Headquarters and in sub-offices	0.02	1.00	5.00	—	1.00	—		
Total	0.02	1.00	5.00	—	1.00	—		
2. Extension								
FH 2.1 Creation of Information and Extension Division	—	3.00	5.00	—	1.00	—		
FH 2.2 Pilot Project for Cage Fish Culture	1.91	2.00	5.00	—	1.00	—		
Total	1.91	5.00	10.00	—	2.00	—		
3. Fish Farms								
FH 3.1 Completion of Fish Seed Nurseries/Farms and construction of Fish Seed Farms in the remaining Districts	9.66	11.50	40.00	40.00	8.00	8.00		
FH 3.2 Fish Culture in Shah Nehar Reservoir	—	1.00	6.00	5.00	1.00	0.75		
FH 3.3 Pilot Project for Bundh Breeding	—	—	5.00	—	1.00	—		
FH 3.4 Development of Fisheries in Kandi Watershed & Area Development project (World Bank Assisted)	—	2.00	64.00	39.46	8.00	7.00		
Total	9.66	14.50	115.00	84.46	18.00	15.75		
4. Research								
FH 4.1 Mobile Fisheries Field Laboratory	—	—	5.00	—	1.00	—		
Total	—	—	5.00	—	1.00	—		
5. Education and Training								
FH 5.1 Training of Fisheries Personnel	—	—	2.00	—	0.50	—		
FH 5.2 Training in fishing and in fishing Crafts & Gear.	—	—	2.50	—	0.50	—		
Total	—	—	4.50	—	1.00	—		
6. Inland Fisheries								
FH 6.1 Promotion of Intensive fish culture by providing assistance to private/Co-operative Sector	1.01	4.00	10.00	—	2.00	—		
FH 6.2 Demonstration of fish culture	0.18	1.00	2.50	—	0.50	—		
FH 6.3 Assistance to Fish Farmers Development Agency, Gurdaspur, Jullundur, Amritsar and Ludhiana	6.00	4.00	20.00	—	4.00	—		
Total	7.19	9.00	32.50	—	6.50	—		
7. Others								
FH 7.1 Creation of Economic & Statistical Wing in the Fisheries Department	0.02	0.50	3.00	—	0.50	—		
Total	0.02	0.50	3.00	—	0.50	—		
Grand Total	18.80	30.00	175.00	84.46	30.00	15.75		

SIXTH FIVE-YEAR PLAN, 1980-85 SCHEMES

STATEMENT II

HEAD : FORESTS

(Rs. in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980-85		1981-82		
	Actuals	Approved Outlay	Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
1. Forest Research							
FT 1.1 Forest Research	..	2.15	2.50	15.00	—	3.50	—
Total	..	2.15	2.50	15.00	—	3.50	—
2. Education and Training							
FT 2.1 Training of Staff	..	0.85	1.00	5.00	—	1.00	—
Total	..	0.85	1.00	5.00	—	1.00	—
3. Plantation Schemes							
FT 3.1 Raising of Industrial Plantations on private lands	..	15.98	18.00	300.00	—	55.00	—
FT 3.2 Raising of fuelwood plantations (Centrally sponsored)	..	—	—	100.00	—	20.00	—
FT 3.3 Plantation of Sissoo, Babul, Eucalyptus, Chhl Poplar etc.	..	69.33	80.00	490.00	—	90.00	—
FT 3.4 Soil Water & Tree Conservation in Himalayas (Centrally sponsored)	..	—	10.00	110.00	—	25.00	—
FT 3.5 Integrated Watershed management in the catchment of flood prone rivers (Centrally Sponsored)	..	—	10.00	25.00	—	—	—
FT 3.6 Environmental forestry	..	—	—	20.00	—	5.00	—
FT 3.7 Farm Forestry	..	20.37	22.00	160.00	—	30.00	—
FT 3.8 Development of grass lands & pastures	..	0.50	—	—	—	—	—
FT 3.9 Plantation along link roads on private lands	..	1.92	—	—	—	—	—
Total	..	108.10	140.00	1205.00	—	225.00	—
4. Communication & buildings							
FT 4.1 Construction of buildings	..	4.89	5.00	27.00	27.00	10.00	10.00
Total	..	4.89	5.00	27.00	27.00	10.00	10.00

SIXTH FIVE YEAR PLAN, 1980-85 SCHEMES

STATEMENT II
HEAD : FORESTS

(Rs. in lakhs)

Name of the Scheme/Project	1978-80	1980-81	1980-85		1981-82		
	Actuals	Approved Outlay	Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
5. Preservation of Wild Life							
FT 5.1	Preservation of Wild Life	3.37	6.00	45.00	—	10.00	—
FT 5.2	Establishment of Zoological Park at Chhat Bir	36.61	38.00	240.00	100.00	50.00	20.00
Total		39.98	44.00	285.00	100.00	60.00	20.00
6. Survey of Forest Resources							
FT 6.1	Establishment of Planning & Statistical Cell	—	0.50	3.00	—	0.50	—
Total		—	0.50	3.00	—	0.50	—
7. Other Expenditure							
FT 7.1	Demarcation of forests	0.57	2.00	—	—	—	—
FT 7.2	Kandi Water Shed and Area Development Project	14.46	—	—	—	—	—
Total		15.03	2.00	—	—	—	—
Grand Total		171.00	195.00	1540.00	127.00	300.00	30.00

SIXTH FIVE-YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : COMMUNITY DEVELOPMENT AND PANCHAYATS

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
COMMUNITY DEVELOPMENT AND PANCHAYATS						
Direction and Administration						
CD 1.1 Staff for integrated Rural Development Programme and publicity through Audio Visual Aids at Focal Points ..	1.95	4.25	20.00	—	4.25	—
CD 1.2 Additional staff at Headquarters ..	—	1.30	10.00	—	2.00	—
Total ..	1.95	5.55	30.00	—	6.25	—
Training						
CD 2.1 Study tours of non-officials ..	0.20	0.20	1.20	—	0.25	—
CD 2.2 Promotion and Strengthening of Mahila Mandals ..	—	8.00	40.00	—	8.00	—
Total ..	0.20	8.20	41.20	—	8.25	—
Assistance to Panchayati Raj Institutions :						
CD 3.1 Financial Assistance to Panchayats/Panchayat Samitis & Zila Parishads for expenditure on Revenue Earning Schemes ..	61.85	42.80	271.30	—	38.00	—
CD 3.2 Composite programme for Women & Pre-School Children—Strengthening of Craft Centres ..	1.80	5.50	27.50	—	5.50	—
CD 3.3 Pavement of streets and construction of drains ..	62.50	450.00	2754.00	2754.00	475.00	475.00
CD 3.4 Assistance to Panchayats for expenditure on Panchayat Works ..	15.00	50.00	250.00	250.00	50.00	50.00
CD 3.5 Development of Model Villages ..	7.35	10.00	20.00	20.00	5.00	5.00
CD 3.6 Underground water Sewerage ..	4.00	6.95	60.00	60.00	7.00	7.00
CD 3.7 Matching grants to Panchayats & Local Bodies for Development Works ..	200.00	50.00	240.00	240.00	40.00	40.00
CD 3.8 Grant-in-aid to Zila Parishads/Panchayat Samitis for Integrated Development of Villages of historical/religious importance ..	17.81	1.00	21.00	21.00	5.00	5.00
CD 3.9 Construction of Community Halls ..	—	20.00	100.00	100.00	20.00	20.00
CD 3.10 Incentive grants to Panchayats for stepping up their tax efforts ..	2.45	—	—	—	—	—
Total ..	372.76	636.25	3743.80	3445.00	645.50	602.00
Special Programme for Rural Development						
CD 4.1 Grant-in-aid to Small Farmers Development Agencies under Integrated Rural Development programme ..	149.50	205.00	1385.00	—	295.00	—
Total ..	149.50	205.00	1385.00	—	295.00	—
Grand Total ..	524.41	855.00	5200.00	3445.00	955.00	602.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : CO-OPERATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81		1980-85		1981-82	
		Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	5	6	7	
Direction and Administration							
CN 1.1	Additional departmental staff	41.15	60.00	300.00	—	50.00	—
	Total	41.15	60.00	300.00	—	50.00	—
2. Credit Cooperatives							
CN 2.1	Assistance to Central Cooperative Banks for opening new branches	11.78	16.66	16.66	—	—	—
CN 2.2	Assistance to Cooperative Primary Agricultural Service Societies for construction of godowns	76.22	72.63	515.28	360.60	171.94	72.12
CN 2.3	Share Capital contribution to	(90.00)	(90.00)	(590.00)	(590.00)	(117.00)	(117.00)
	(i) Punjab State Cooperative Land Mortgage Bank	—	1.00	5.00	5.00	1.00	1.00
	(ii) Central Cooperative Banks	—	5.00	25.00	25.00	5.00	5.00
	(iii) Urban Cooperative Banks	—	—	15.00	15.00	2.00	2.00
	(iv) Punjab State Cooperative Bank	—	1.00	5.00	5.00	1.00	1.00
	(v) Primary Cooperative Land Mortgage Banks	—	8.00	40.00	40.00	8.00	8.00
	(vi) Primary Agriculture Service Societies	90.00	75.00	500.00	500.00	100.00	100.00
CN 2.4	Reorganisation and revitalisation of Central Cooperative Banks	—	0.95	4.75	—	0.95	—
CN 2.5	Assistance to reorganised Primary Agricultural Service Societies as managerial subsidy	93.00	68.41	91.41	—	23.00	—
CN 2.6	Subsidy for building premises of new branches of Central Cooperative Banks at focal points under IRDP	7.60	6.00	6.00	—	—	—
CN 2.7	Assistance to Central Cooperative Banks for Agricultural stabilisation fund	7.50	10.00	50.00	—	10.00	—
CN 2.8	Assistance to Primary Agricultural Service Societies as bad debt reserves (risk fund)	2.50	5.00	50.00	—	10.00	—
	Total	288.60	269.65	1324.10	950.60	332.89	189.12
3. Housing Cooperatives							
CN 3.1	Share capital contribution to Housing Societies/ Housing Federation as margin money	1.00	5.00	25.00	25.00	5.00	5.00
CN 3.2	Assistance to Housing Societies/Federation as managerial subsidy	0.50	0.50	0.50	—	—	—
	Total	1.50	5.50	25.50	25.00	5.00	5.00

SIXTH FIVE-YEAR PLAN 1980—85 : SCHEMES

STATEMENT II

HEAD: CO-OPERATION

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980—85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
4. Labour Co-operatives						
CN 4.1 Assistance for technical cell in district Co-operative Labour Unions and State Level Federation ..	—	1.00	5.00	—	1.00	—
Total ..	—	1.00	5.00	—	1.00	—
5. Warehousing and Marketing						
CN 5.1 Share capital contribution to Cooperative Marketing Societies ..	—	4.00	20.00	20.00	4.00	4.00
CN 5.2 Assistance for development of export of vegetables, fruits and other products by Markfed ..	(2.00)	(9.50)	(9.50)	(9.00)	—	—
(i) Share capital as margin money. ..	1.50	9.00	9.00	9.00	—	—
(ii) Cold Storage						
(a) Loan ..	—	—	—	—	—	—
(b) Share Capital ..	—	—	—	—	—	—
(iii) Subsidy for Technical and Marketing Cell ..	0.50	0.50	0.50	—	—	—
CN 5.3 Share Capital to Markfed for purchase of Fertilizers and harvest combines. ..	—	35.20	85.20	85.20	50.00	50.00
CN 5.4 Construction of Markfed wheat storage godowns ..	—	—	442.42	442.42	49.81	49.81
Total ..	2.00	48.70	557.12	556.62	103.81	103.81
6. Processing Co-operatives						
CN 6.1 Assistance to Agriculture Processing Units (other than Sugar Mills) ..	(177.50)	(90.00)	(966.93)	(966.93)	(250.00)	(250.00)
(i) New Spinning Mills ..	177.50	90.00	861.33	861.33	250.00	250.00
(ii) Spinning Mills Expansion ..	—	—	90.00	90.00	—	—
(iii) Waste Cotton Spinning Mills ..	—	—	15.60	15.60	—	—
CN 5.2 Assistance to State level Federation of Agricultural Processing Societies ..	10.00	11.00	11.00	10.00	—	—
Total ..	1187.50	101.00	977.93	976.93	250.00	250.00
7. Dairy Co-operatives						
CN 7.1 Share Capital contribution to Primary Co-operative Milk Societies, Unions and Milk Federation ..	—	5.00	15.00	15.00	4.00	4.00
CN 7.2 Assistance to Federation of Milk Unions for technical cell ..	2.00	—	—	—	—	—
CN 7.3 Subsidy to Milk Unions for :	(53.40)	(—)	(—)	(—)	(—)	(—)
(i) Managerial cost ..	6.00	—	—	—	—	—

SIXTH FIVE-YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD: CO-OPERATION

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
(ii) Purchase of chemicals for testing milk	4.00	—	—	—	—	—
(iii) Transport charges	7.00	—	—	—	—	—
(iv) Purchase of diesel jeeps	4.80	—	—	—	—	—
(v) Farmers Induction Programme (study tours)	—	—	—	—	—	—
(vi) Extension Programme audio-visual aids	10.00	—	—	—	—	—
(vii) Procurement and inputs wing	12.00	—	—	—	—	—
(viii) Spearhead team expenses	9.60	—	—	—	—	—
CN 7.4 Assistance to Milk Producers Societies for :	(10.20)	(—)	(—)	(—)	(—)	(—)
(i) Managerial cost	4.20	—	—	—	—	—
(ii) Milk testing equipment	3.00	—	—	—	—	—
(iii) First aid artificial insemination boxes and cattle crates	3.00	—	—	—	—	—
CN 7.5 Subsidy to Milk Federation for training of audit/ inspection staff	1.00	—	—	—	—	—
CN 7.6 Assistance for payment of audit fee by Milk Producers Cooperative Societies/Unions and Milk Federation	1.00	1.00	1.00	—	—	—
CN 7.7 Assistance as revolving fund for the Milk Federation/Milk Unions and Milk Societies	6.00	2.85	2.85	—	—	—
Total	73.60	8.85	18.85	15.00	4.00	4.00
8. Cooperative Sugar Mills						
CN 8.1 Share capital contribution for installation of new Cooperative Sugar Mills	—	—	200.00	200.00	1.00	1.00
CN 8.2 Share capital contribution for expansion of existing Cooperative Sugar Mills	95.00	—	250.00	250.00	1.00	1.00
Total	95.00	—	450.00	450.00	2.00	2.00
9. Industrial Cooperatives						
CN 9.1 Participation in the share capital of Industrial Cooperatives including Federation/Unions and Projects in Cooperative Sector	4.00	5.00	25.00	25.00	5.00	5.00
CN 9.2 Subsidy to CCB's for advancing loans to Industrial Cooperatives at 2½ per cent rate of interest	1.00	0.50	5.00	—	1.00	—
CN 9.3 Assistance to Handloom Weavers Cooperatives interest concession	0.08	0.55	5.00	—	1.25	—
CN 9.4 Assistance to Handloom Weavers Cooperatives for rebate on Cloth sale	—	1.00	10.00	—	1.50	—

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : COOPERATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital Content
1	2	3	4	5	6	7
CN 9.5 Development of handloom industry supply of improved appliances ..	0.49	1.00	5.00	1.25	1.00	0.25
CN 9.6 Share capital contribution to Punjab Handloom Weavers Apex Cooperative Society ..	6.00	7.00	35.00	35.00	7.00	7.00
CN 9.7 Managerial subsidy to the Punjab Handloom Weavers Apex Cooperative Society ...	0.50	1.00	5.00	—	1.00	—
CN 9.8 Contribution to share capital of Primary Model Handloom Weavers Cooperative Societies ..	—	0.50	5.00	5.00	1.00	1.00
CN 9.9 Managerial subsidy to Industrial Cooperatives including Handloom Weavers' Cooperatives ..	—	1.35	7.00	—	1.50	—
CN 9.10 Subsidy to Industrial Cooperatives for employing craft teachers ..	0.40	0.50	4.25	—	0.75	—
CN 9.11 Assistance as loan and share capital for setting up processing units by Handloom Apex ..	—	7.60	50.00	50.00	10.00	10.00
Total ..	12.47	26.00	156.25	116.25	31.00	23.25
10. Consumers Cooperatives						
CN 10.1 Contribution to share capital of Central Consumer Stores ...	1.00	1.00	5.00	5.00	1.00	1.00
CN 10.2 Share capital contribution in State Cooperative Consumers Federation ..	2.00	5.00	15.00	15.00	3.00	3.00
CN 10.3 Subsidy to State Co-operative Consumer Federation for business and financial management Cell ..	—	0.50	0.50	—	—	— ^p
CN 10.4 Subsidy for rehabilitation of weak Central Stores/ Federation ..	6.40	5.00	5.00	—	—	—
Total ..	9.40	11.50	25.50	20.00	4.00	4.00
11. Cooperative Education						
CN 11.1 Member education and leadership training of non-officials through Punjab Cooperative Union ..	3.00	3.50	3.50	—	—	—
Total ..	3.00	3.50	3.50	—	—	—
12. Cooperative Research and Training						
CN 12.1 Training of Cooperative subordinate personnel ..	0.50	1.00	7.50	—	2.50	—
CN 12.2 Study tours ..	0.05	0.50	0.50	—	—	—
CN 12.3 Subsidy for research and case studies through Punjab Cooperative Union ..	—	0.50	0.50	—	—	—
Total ..	0.55	2.00	8.50	—	2.50	—

SIXTH FIVE YEAR PLAN 1980—85 : SCHEMES

STATEMENT II

HEAD -: COOPERATION

(Rs. in lakhs)

Name of the Scheme/Project t	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82		
			Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	5	6	7	
13. Cooperative Information and Publicity							
CN 13.1	Publicity through Punjab Co-operative Union ...	1.00	2.00	2.00	—	—	—
	Total ..	1.00	2.00	2.00	—	—	—
14. Other Cooperatives							
CN 14.1	Share capital contribution to Cooperative Cold Storages ...	—	25.00	191.25	191.25	15.30	15.30
CN 14.2	Assistance to Cooperative Cold Stores Federation ...	—	5.50	14.50	13.00	2.50	2.00
	Total ..	—	30.50	205.75	204.25	17.80	17.30
	Total Cooperative Department ...	715.77	570.20	4060.00	3314.65	804.00	598.48
15. Cooperative Audit							
CN 15.1	Staff for Audit of Credit Cooperatives ...	—	11.50	65.00	—	11.50	—
CN 15.2	Staff for audit of societies other than Credit Cooperatives ..	0.45	1.09	6.00	—	1.09	—
CN 15.3	Training and education of audit staff ...	0.04	0.05	0.25	—	0.05	—
CN 15.4	Direction and Administration of Cooperative Audit ...	—	3.36	18.75	—	3.36	—
	Total ..	0.49	16.00	90.00	—	16.00	—
	Grand Total ...	716.26	586.20	4150.00	3314.65	820.00	598.48

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : IRRIGATION

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980-85		1981-82		
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
1 Multipurpose Projects							
MP 1.1	Beas Project Unit-I ..	20.50	13.00	19.00	19.00	6.00	6.00
MP 1.2	Beas Project Unit-I (Extension) ..	18.21	34.00	98.00	98.00	32.00	32.00
MP 1.3	Beas Project Unit-II ..	64.05	52.00	82.00	82.00	30.00	30.00
MP 1.4	Beas Project Unit-II (Extension) ..	116.61	173.00	455.00	455.00	175.00	175.00
MP 1.5	Thein Dam ..	1246.57	1200.00	5300.00	5300.00	1200.00	1200.00
MP 1.6	Diversion Weir of Shahnehar Canal ..	347.41	450.00	1384.00	1384.00	450.00	450.00
MP 1.7	Dholbaha Dam ..	23.33	140.00	584.00	584.00	150.00	150.00
MP 1.8	Shahpur Kandi Project ..	0.04	5.00	6548.00	6548.00	200.00	200.00
MP 1.9	Low Dams in Kandi area ..	3.72	2.00	996.00	996.00	50.00	50.00
	Total ..	1840.44	2069.00	15466.00	15466.00	2293.00	2293.00
2 Major and Medium Irrigation Schemes							
IR 2.1	Extension of non-perennial irrigation to areas in UBDC tract ..	12.79	18.00	98.00	98.00	20.00	20.00
IR 2.2	Utilisation of surplus Ravi Beas waters ..	82.96	30.00	394.00	394.00	90.00	90.00
IR 2.3	Extension and Improvement of Shahnehar canal ..	84.24	165.00	2951.00	2951.00	350.00	350.00
IR 2.4	Lining of Channels ..	1112.40	1672.00	11888.00	11888.00	1672.00	1672.00
IR 2.5	Pilot Demonstration ..	—	30.00	279.00	279.00	58.00	58.00
IR 2.6	Construction of New Disty., Minors and bridges ..	16.80	20.00	270.00	270.00	30.00	30.00
IR 2.7	Sirhind Feeder Scheme ..	—	1.00	—	—	—	—
IR 2.8	Modernisation of existing canals ..	1.48	5.00	50.00	50.00	1.00	1.00
IR 2.9	Lift and flow Irrigation schemes—						
	(i) Garshanker Lift irrigation scheme ..	—	20.00	262.00	262.00	50.00	50.00
	(ii) Lohat Lift Irrigation Scheme ..		5.00	330.00	330.00	30.00	30.00
	(iii) Garhi Lift Irrigation Scheme ..			486.00	486.00	50.00	50.00
	(iv) Lift Irrigation Scheme for Ghat area of Ropar District ..	—	—	1800.00	1800.00	5.00	5.00
IR 2.10	Technical Assistance, Research and training ..	—	35.00	265.00	265.00	85.00	85.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : IRRIGATION

(Rs. in lakhs)

Name of the scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980-85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
IR 2.11 Project Administration, Monitoring and evaluation ..	—	—	32.00	32.00	8.00	8.00
IR 2.12 Raising lining of Bhakra Main Canal for providing free board ..	—	—	20.00	20.00	1.00	1.00
IR 2.13 Construction of newlined combined channel of Bikaner canal and main branch of eastern canal ..	—	—	480.00	480.00	20.00	20.00
IR 2.14 Irrigation scheme for areas on right side of river Sutlej ..	—	—	1400.00	1400.00	10.00	10.00
IR 2.15 Providing irrigation facilities to areas leftside of Narwana Branch ..	—	—	200.00	200.00	3.00	3.00
IR 2.16 Providing irrigation facilities to areas of Eastwale Milerkotla State ..	—	—	150.00	150.00	2.00	2.00
Total ..	1310.67	2001.00	21355.60	21355.00	2485.00	2485.00
3. Water Development						
WD 1.1 Investigation of schemes ..	32.60	20.00	180.00	180.00	35.00	35.00
WD 1.2 Research schemes ..	4.78	10.00	50.00	50.00	10.00	10.00
Total ..	37.38	30.00	230.00	230.00	45.00	45.00
Grand Total ..	3188.49	4100.00	37051.60	37051.00	4823.00	4823.00
Antiwater logging, drainage & Flood Control ..	1062.28	500.00	2100.00	2100.00	400.00	400.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : POWER

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980-85		1981-82		
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
1. Generation							
(a) Multipurpose Projects—							
MP 1.1	Beas Project Unit I	302.32	187.00	287.00	287.00	68.00	68.00
MP 1.2	Beas Project Unit I (Extension)	268.46	508.00	1437.00	1437.00	499.00	499.00
MP 1.3	Beas Project Unit II	18.14	16.00	25.00	25.00	12.00	12.00
MP 1.4	Beas Project Unit II (Extension)	35.78	53.00	140.00	140.00	50.00	50.00
MP 1.5	Thein Dam Project	0.01	—	25.00	25.00	5.00	5.00
	Total (a)	624.71	764.00	1914.00	1914.00	634.00	634.00
(b) Power Projects—							
PP 1.1	Shanan Renovation Project	92.79	71.00	163.00	163.00	58.00	58.00
PP 1.2	Shanan Extension Project	217.00	200.00	349.00	349.00	210.00	210.00
PP 1.3	GNDTP (Extension) Units III & IV	258.17	200.00	872.00	872.00	247.00	247.00
PP 1.4	Anandpur Sahib Hydel Project	2011.72	2000.00	4242.00	4242.00	1694.00	1694.00
PP 1.5	Mukerian Hydel Project	516.09	1200.00	10653.00	10653.00	2665.00	2665.00
PP 1.6	U.B.D.C. Project Stage I	16.74	3.00	73.00	73.00	19.00	19.00
PP 1.7	Participation in Hydel Schemes of H.P. & J.&K.	—	—	20.00	20.00	5.00	5.00
PP 1.8	Ropar Thermal Plant	80.24	1050.00	19625.00	19625.00	3128.00	3128.00
PP 1.9	Anandpur Sahib Hydel Project Stage III	—	—	1500.00	1500.00	—	—
PP 1.10	Ropar Thermal Project Stage-II	—	—	7309.00	7309.00	—	—
	Total (b)	3192.75	4724.00	44806.00	44806.00	8026.00	8026.00
	Total (a + b)	3817.46	5488.00	46720.00	46720.00	9660.00	8660.00
2. Transmission							
PP 2.1	Beas Transmission Project (i) B.C.B.	38.71	26.00	36.00	36.00	10.00	10.00
	(ii) P.S.E.B.	699.85	257.00	1050.00	1050.00	180.00	180.00
PP 2.2	U.B.D.C. Trans. Project	64.55	51.00	331.00	331.00	38.00	38.00
PP 2.3	Bhakra Right Bank Trans. Project : P.S.E.B.	20.02	9.00	51.00	51.00	10.00	10.00
PP 2.4	G.N.D.T.P. Trans. Project	39.48	71.00	273.00	273.00	118.00	118.00
PP 2.5	G.N.D.T.P. Project Trans. Extension	55.09	131.00	449.00	449.00	140.00	140.00
PP 2.6	Shanan Extension Trans. Project	97.22	33.00	77.00	77.00	30.00	30.00
PP 2.7	220 KV, 132 KV and 66 KV Transmission works of the 5th Plan connected with new schemes	703.06	698.00	2686.00	2686.00	745.00	745.00
PP 2.8	220 KV, 132 KV and 66 KV Transmission works of the 6th Plan connected with new schemes (PSEB)	48.16	500.00	5334.00	5334.00	585.00	585.00
PP 2.9	Transmission lines for Dehar Extension Project (B.C.B.)	—	52.00	96.00	96.00	44.00	44.00

SIXTH FIVE YEAR PLAN 1980—85: SCHEMES

STATEMENT II

HEAD : POWER

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980—85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
PP 2.10 Sub-Transmission works—	320.73	600.00	3300.00	3300.00	600.00	600.00
Total Transmission	2086.87	2428.00	13683.00	13683.00	2500.00	2500.00
3. Normal Development/Distribution						
PP 3.1 Normal Development & Distribution	854.55	750.00	4350.00	4350.00	650.00	650.00
PP 3.2 Improvement of Transmission system and reduction of Transmission losses	347.79	300.00	2370.00	2370.00	500.00	500.00
Total	1202.34	1050.00	6720.00	6720.00	1150.00	1150.00
Total Transmission & Distribution	3289.21	3478.00	20403.00	20403.00	3650.00	3650.00
4. Rural Electrification						
PP 4.1 Rural Electrification						
(i) R.E.C.	1138.88	517.00	1917.00	1917.00	400.00	400.00
(ii) Plan	689.31	790.00	3960.00	3960.00	600.00	600.00
Total	1828.19	1307.00	5877.00	5877.00	1000.00	1000.00
5. Power Development						
PP 5.1 Survey & Investigation	13.39	8.00	68.00	68.00	13.00	13.00
PP 5.2 Research Station	1.14	15.00	103.00	103.00	12.00	12.00
PP 5.3 Load Despatch Centre	11.54	135.00	432.00	432.00	300.00	300.00
Total	26.07	158.00	603.00	603.00	325.00	325.00
Grand Total	8960.93	10431.00	73603.00	73603.00	13635.00	13635.00

SIXTH FIVE-YEAR PLAN 1980—85 SCHEMES

STATEMENT II

HEAD ; INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980—85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
1. Industrial and Financial Institutions :						
IN 1.1. Punjab Financial Corporation	38.00	—	100.00	100.00	14.50	14.50
IN 1.2. Industrial Financial Corporation of India	1.00	1.00	1.00	1.00	—	—
Total	39.00	1.00	101.00	101.00	14.50	14.50
2. Investment in Public Undertakings :						
IN 2.1. Punjab State Industrial Development Corporation	1120.00	420.00	2950.00	2950.00	565.00	565.00
IN 2.2. Punjab State Small Industries Corporation	35.00	0.50	80.50	80.50	20.00	20.00
IN 2.3. Punjab State Electronics Development and Production Corporation	43.50	30.00	200.00	200.00	50.00	50.00
IN 2.4. Punjab State Handloom and Textile Development Corporation	8.00	9.00	100.00	100.00	25.00	25.00
IN 2.5. Punjab State Hosiery and Knitwear Development Corporation	32.65	16.00	125.00	125.00	30.00	30.00
IN 2.6. Punjab State Leather Development Corporation	—	1.00	200.00	200.00	50.00	50.00
Total	1239.15	476.50	3655.50	3655.50	740.00	740.00
3. Direction and Administration :						
IN 3.1. Cell for Non-resident Indians	—	1.00	1.00	—	—	—
IN 3.2. Development of Agro-based Industries and provision for specific studies, feasibility reports, survey research and development	0.55	1.00	1.00	—	—	—
IN 3.3. Industrial Promotion Cell	—	—	10.00	—	3.00	—
Total	0.55	2.00	12.00	—	3.00	—
4. Small Scale Industries :						
IN 4.1. Credit facilities for the development of small scale industries	14.94	10.00	40.00	40.00	10.00	10.00
IN 4.2. Subsidy	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	0.80	0.80	0.80	—	—	—
IN 4.4. Grant of 2 per cent subsidy in the rate of interest in loans by PFC for the purchase of generating sets.	0.18	0.30	0.50	—	0.10	0.10
IN 4.5. Out-right subsidy	10.01	30.00	225.00	225.00	25.00	25.00
IN 4.6. Seven New Industrial Development -cum-Service Centres.	14.82	9.00	100.00	40.00	30.00	20.00
IN 4.7. Five New Quality Marketing Centres	3.36	5.00	39.00	21.00	5.00	2.50
IN 4.8. Tool Room, Ludhiana	21.01	5.00	22.00	22.00	10.00	10.00
IN 4.9. Sewing Machine Development Centre, Ludhiana	0.50	1.00	60.00	47.00	15.00	10.00
IN 4.10. Handtool Designs Institute, Jullundur	1.80	8.00	22.00	22.00	8.00	8.00

SIXTH FIVE-YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Schemes/Project	1979-80	1980-81	1980-85		1981-82	
	Actuals	Approved Outlay	Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
IN 4.11. Punjab Test House, Ludhiana ..	4.50	8.00	35.00	12.00	5.00	2.00
IN 4.12. Machine Tool and Design Development Centre, Batala ..	2.00	0.50	1.50	1.50	1.00	1.00
IN 4.13. Training of Technical Staff and visit to industries in other States ..	0.15	0.30	2.30	—	0.50	—
IN 4.14. Modernisation of small-scale Industries ..	6.59	8.00	40.00	40.00	7.50	7.50
IN 4.15. Research and Development Centre for Bicycles, Ludhiana ..	0.50	1.00	80.00	60.00	20.00	15.00
IN 4.16. Electronic Development and Testing Laboratory, S.A.S. Nagar ..	5.25	8.00	30.00	12.00	5.00	3.00
IN 4.17. Development of Leather Industry ..	8.81	15.00	15.00	15.00	—	—
IN 4.18. Consultancy-technical services and testing facility centres for chemical industries ..	—	0.50	0.50	—	—	—
IN 4.19. District Industries Centres ..	12.24	36.00	250.00	98.00	50.00	22.00
IN 4.20. Shoe and Leather Goods Training Centre, Longowal ..	0.69	0.40	0.40	—	—	—
IN 4.21. Interest subsidy ..	0.41	5.00	30.00	30.00	5.00	5.00
IN 4.22. Loans to Punjab State Small Industries Corporation ..	2.50	—	—	—	—	—
IN 4.23. Extension of existing building of CFTRI at Ludhiana ..	3.96	5.00	12.00	12.00	5.00	5.00
IN 4.24. Training for Self-employment ..	0.57	1.00	5.00	—	1.00	—
IN 4.25. Promotion of self employment through seed/capital/margin money assistance ..	2.00	12.00	12.00	12.00	—	—
IN 4.26. Establishment of Industrial/Commercial Estates ..	—	5.00	5.00	5.00	—	—
IN 4.27. Supply of machinery on hire-purchase basis ..	1.00	—	—	—	—	—
IN 4.28. Training for Guaranteed Employment ..	0.33	—	—	—	—	—
IN 4.29. Sports Goods Complex ..	—	3.50	40.00	40.00	1.00	1.00
IN 4.30. Surgical Instruments Complex ..	—	3.50	45.00	30.00	1.00	1.00
IN 4.31. Regional Centre of I.S.I. at S.A.S. Nagar ..	3.87	—	—	—	—	—
IN 4.32. Subsidy for purchase of generating sets ..	2.68	2.50	2.50	2.50	—	—
IN 4.33. Publicity ..	1.66	2.00	15.00	—	3.00	—
IN 4.34. Decentralised leather workers ..	—	30.00	30.00	25.50	—	—
IN 4.35. Marketing Assistance Programme ..						
(i) Export awards ..	0.19	0.30	2.30	—	0.50	—
(ii) Participation in Industrial Fairs ..	1.50	3.00	18.00	—	3.00	—
(iii) Trade Centre ..	4.00	2.00	14.00	—	3.00	—

SIXTH FIVE-YEAR PLAN 1980-85 ; SCHEMES

STATEMENT II

HEAD : INDUSTRY AND MINERALS

(Rs in lakhs)

Name of the Scheme/Project	1979-80, Actuals	1980-81, Approved Outlay	1980-85		1981-82	
			Proposed Outlay	Capital Content	Propo.ed Outlay	Capital Content
1	2	3	4	5	6	7
(iv) Export assistance including aid for registration with Export Promotion Council ..	—	1.50	1.70	—	0.50	—
(v) Dis-semination of Marketing intelligence ..	—	—	4.00	—	1.00	—
IN 4.36 Implementation of Quality Control ..	—	—	8.00	—	2.00	—
IN 4.37 Incentives for project report and installation of EFFLUENT Treatment Plant ..	—	—	25.00	—	3.00	—
IN 4.38 Chief Inspector of Boilers ..	—	—	6.50	—	1.25	—
Total ..	133.81	224.10	1247.80	813.50	222.35	141.10
5. Industrial Estates						
IN 5.1 Industrial Estates/Incentives to New Industries						
(i) Acquisition of land ..	136.00	141.00	850.00	850.00	100.00	100.00
(ii) Loans to PSSIC ..	35.00	35.00	195.00	195.00	25.00	25.00
(iii) Interest-Free Loan ..	140.00	180.00	1015.00	1015.00	175.00	175.00
(iv) Maintenance charges ..	9.56	5.00	12.00	—	1.75	—
(v) Electricity charges of Street Light at focal points ..	1.44	2.00	13.70	—	2.00	—
(vi) Investment loans ..	—	6.00	7.00	7.00	0.25	0.25
(vii) Land Subsidy ..	2.79	35.00	621.00	621.00	100.00	100.00
(viii) Reimbursement of Octroi/Terminal Tax ..	0.25	0.50	35.00	—	5.00	—
(ix) Feasibility Report ..	0.25	1.00	8.00	—	1.00	—
(x) Subsidy on Electricity Tariff ..	—	35.50	49.50	—	14.00	1.00
Total ..	325.29	441.00	2806.20	2686.20	424.00	401.25
6. Handloom/Textile Industries						
IN 6.1. (i) Programme for the Handloom Industry ..	—	—	12.00	12.00	3.00	3.00
(ii) Installation of jacquard machines ..	3.00	2.50	2.50	2.50	—	—
(iii) Interest free loans for margin money ..	0.52	0.50	0.50	0.50	—	—
(iv) Training of Weavers ..	0.40	0.50	2.50	—	0.50	—
(v) Rebate on sale of cotton handloom cloth ..	4.00	2.00	18.00	—	4.00	—
(vi) Training-cum-Production Centre in Sub-montane area ..	0.40	2.50	12.50	—	2.50	—
(vii) Construction of Workshed for Weavers ..	2.00	2.00	2.00	2.00	—	—
Total ..	10.32	10.00	50.00	17.00	10.00	3.00

SIXTH FIVE-YEAR PLAN 1980—85 : SCHEMES

STATEMENT II

HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980—85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
7. Village Industries						
IN 7.1. Integrated Rural Development Programme ..	12.78	45.00	175.00	133.00	35.00	34.00
Total ..	12.78	45.00	175.00	133.00	35.00	34.00
8. Handicrafts :						
IN 8.1. Development of Handicrafts Industries ..	1.52	4.00	20.00	—	4.00	—
IN 8.2. Carpet Weaving Training Centres to be set-up by Punjab State Small Industries Corporation ..	—	30.00	50.00	—	10.00	—
Total ..	1.52	34.00	70.00	—	14.00	—
9. Sericulture						
IN 9.1. Development of Sericulture Industries ..	1.51	6.00	30.00	11.00	6.00	3.00
Total ..	1.51	6.00	30.00	11.00	6.00	3.00
10. Statistics						
IN 10.1. Statistical Cell ..	—	0.40	1.00	—	0.15	—
Total ..	—	0.40	1.00	—	0.15	—
11. Mines and Minerals						
IN 11.1. Development of Mines and Minerals ..	2.16	3.00	20.00	10.60	8.00	6.00
Total ..	2.16	3.00	20.00	10.60	8.00	6.00
12. Weights and Measures						
IN 12.1. Implementation of Weights and Measures Act ..	—	3.00	15.00	6.75	3.00	2.25
Total ..	—	3.00	15.00	6.75	3.00	2.25
Grand Total ..	1766.09	1246.00	8183.50	7474.35	1480.00	1352.10

SIXTH FIVE YEAR PLAN 1980—1985 : SCHEMES

STATEMENT II

HEAD : ROADS AND BRIDGES

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980—85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
1. State Highways, District and Other Roads						
RD 1.1 Main Roads and Missing links ..	34.63	75.00	120.00	120.00	50.00	50.00
RD 1.2 Improvement/Widening and providing additional crust on existing roads ..	461.41	400.00	1850.00	1850.00	400.00	400.00
RD 1.3 Arboriculture and landscaping of roads ..	—	0.01	15.00	15.00	5.00	5.00
2. Machinery and Equipment						
RD 2.1 Machinery ..	62.57	50.00	250.00	250.00	50.00	50.00
3. Minimum Needs Programme						
RD 3.1 (i) Village Roads ..	550.05	375.00	2000.00	2000.00	410.00	410.00
(ii) Zila Parishad Roads ..	23.35	—	80.00	80.00	20.00	20.00
4. Safety works including Bridges						
RD 4.1 Bridges ..	276.37	200.00	1745.00	1745.00	200.00	200.00
5. Other Expenditure						
RD 5.1 Central Road Fund ..	69.46	75.00	300.00	300.00	60.00	60.00
RD 5.2 Improvement of Roads within M.C. Limits ..	32.97	50.00	230.00	230.00	50.00	50.00
RD 5.3 Bye-passes ..	19.68	50.00	375.00	375.00	50.00	50.00
RD 5.4 Research and Development, field training, Labs and purchase of equipment ..	0.60	24.99	50.00	50.00	5.00	5.00
Total ..	1531.09	1300.00	7015.00	7015.00	1300.00	1300.00

SIXTH FIVE YEAR PLAN 1980—85 : SCHEMES

STATEMENT II

HEAD : ROAD TRANSPORT

(Rs. in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980—85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
RT 1.1 PEPSU Road Transport Corporation	.. 157.00*	205.00	1025.00	1025.00	305.00	305.00
RT 2, Punjab Roadways	.. 551.67	495.00	2975.00	2975.00	495.00	495.00
Total	.. 708.67	700.00	4000.00	4000.00	800.00	800.00

*Total expenditure incurred by the corporation was Rs. 372.67 lakhs which includes railway, share and loans raised from Bank.

SIXTH FIVE YEAR PLAN 1980—85 : SCHEMES

STATEMENT II

HEAD : CIVIL AVIATION

(Rs. in lakhs)

Name of the Scheme/Project	1979-80		1980-81		1981-82	
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital Content
1	2	3	4	5	6	7
CIVIL AVIATION						
1. Training and Education						
(i) Establishment of AME, school		8.00	23.00	8.00	5.00	—
(i) Provision for Simulator		—	—	8.00	—	2.00
2. Aerodromes and Air Routes Services						
AV 2.1 Extension/Construction of runways	1.69	2.50	5.00	5.00	4.00	1.00
3. Machinery and Equipment						
AV 3.1 Advanced training of pilots	11.38	19.00	29.00	29.00	6.00	6.00
Total	13.07	29.50	70.00	42.00	14.00	7.00
Tourism Corporation						
Share capital contribution to Punjab State Tourism Development Corporation	45.00	45.00	255.00	255.00	45.00	45.00

SIXTH FIVE YEAR PLAN 1980—85 :—SCHEMES

STATEMENT II

HEAD : GENERAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980—85		1981-82			
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content		
1	2	3	4	5	6	7		
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	0.26	1.15	15.39	—	1.45	—
	(b)	Furniture for Government Primary Schools	10.00	7.00	47.00	—	—	—
	(c)	Improvement of Primary Schools	3.75	1.00	18.00	—	1.80	—
	(d)	Lavatories and drinking water facilities	1.18	2.00	20.40	—	1.60	—
	(e)	Library Services	—	3.15	8.79	—	—	—
B. Non-Formal Education								
		Part time Classes I to V (6—11) Introduction of Non Formal Education Programme	1.39	2.50	17.00	—	3.60	—
ED 1.2		Construction of Class Rooms/School Buildings	13.17	110.00	510.00	510.00	110.00	110.00
ED 1.3		Replenishment/provision of Science Kits for Primary Schools	1.26	1.95	15.27	—	3.30	—
ED 1.4		Administration and Supervision additional staff	—	11.25	70.15	—	15.25	—
ED 1.5		Inservice Training of J.B.T. Teachers	0.23	—	4.00	—	1.00	—
		Total (Primary Education)	31.24	140.00	726.00	510.00	133.00	110.00
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 Departments of High and Higher Secondary Schools	14.33	—	—	—	—	—
	(b)	Upgradation of Primary Schools to Middle Standard	2.30	35.02	504.53	—	92.50	—
	(c)	Posts of P.T.I's for Government Middle Schools and Middle Departments of High/Higher Secondary Schools	0.49	13.20	60.40	—	17.28	—
	(d)	Additional posts of masters/mistresses on account of additional enrolment	2.56	51.48	342.90	—	62.79	—
ED 2.2		Non Formal Education	0.02	3.00	15.00	—	3.00	—
ED 2.3	Children Theatre Group—							
	(i)	Children Theatre Group	0.98	2.40	14.20	—	2.73	—
	(ii)	Integrated Education for physically handicapped children	—	—	8.52	—	0.77	—

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES
STATEMENT II
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme Project		1979-80	1980-81	1980-85		1981-82	
		Actuals	Approved Outlay	Proposed outlay	Capital content	Proposed outlay	Capital content
1		2	3	4	5	6	7
ED 2.4	Construction of Buildings :						
	(i) Class Rooms/School Buildings	—	1.00	11.00	11.00	4.00	4.00
	(ii) Science Rooms for Government Middle Schools	0.20	1.00	19.00	19.00	18.00	18.00
	(iii) Integrated Education for Physically handicapped children	—	—	4.20	4.20	1.40	1.40
ED 2.5	Qualitative Improvements :						
	(i) Works Experience (Vocationalisation of Education)	—	28.61	126.23	—	22.28	—
	(ii) Strengthening of Science Education—						
	(a) Additional post of Science Masters/Mistresses	9.65	19.01	126.60	—	23.18	—
	(b) Supply of Science Kits for Govt. Middle Schools	—	1.39	13.39	—	12.00	—
	(c) Replenishment of Science Kits for Govt. Middle Schools	1.18	—	—	—	—	—
	(iii) Introduction of Domestic Science in Govt. Middle Schools and Middle Deptts. of High/Higher Secondary Schools	0.29	0.54	4.00	—	0.77	—
ED 2.6	Additional staff for supervision	0.77	19.10	127.08	—	23.14	—
	Total	32.77	175.75	1386.05	34.20	283.84	23.40
	3 Secondary Education (High/Higher Secondary Schools)						
ED 3.1	Upgradation of Government Middle Schools to High Standard	14.51	91.18	750.18	—	173.67	—
ED 3.2	Scholarships for poor but brilliant students	5.48	7.00	33.24	—	6.56	—
ED 3.3	Construction of buildings—						
	(i) Laboratories	—	2.50	22.50	22.50	20.00	20.00
	(ii) Extension of existing buildings/construction of new buildings	31.68	14.00	159.36	159.36	43.72	43.72
ED 3.4	Improvement of Programmes—						
	(i) Strengthening of Science Education—						
	(a) Holding of Science Talent Search Examination	0.09	0.20	2.92	—	0.68	—
	(b) Creation of posts of Laboratory Attendants	0.64	12.78	82.01	—	14.94	—

SIXTH FIVE-YEAR PLAN 1980-85— SCHEMES
STATEMENT II
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980-85		1981-82	
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
(ii) Work Experience (Vocationalisation of Education at Secondary stage)	—	—	254.21	—	41.37	—
(iii) Other Improvement in Schools—						
(a) Introduction of Library Service in Government High/Higher Secondary Schools	3.25	6.24	38.81	—	7.02	—
(b) Improvement of High Schools	8.26	—	—	—	—	—
(iv) Diversification of Courses—						
(a) Introduction of Home Science in Govt. High/Higher Secondary Schools	0.82	0.82	5.46	—	1.00	—
(b) Introduction of the subject of Music	0.14	1.34	9.28	—	1.71	—
(v) Lavatory and Drinking water facilities for girl students	2.44	—	—	—	—	—
Total	67.31	136.06	1357.97	181.86	310.67	63.72
4 Teachers Education						
ED 4.1 Secondary Stage—						
(i) Inservice Training of Teachers	5.30	10.00	50.00	—	10.00	—
(ii) State Institute of Education/Science Education/SCERT	—	3.50	20.50	—	3.00	—
Total	5.30	13.50	70.50	—	13.00	—
5. Adult Education						
ED 5.1 Introduction of Social Education Programme	—	19.10	100.00	—	20.60	—
Total	—	19.10	100.00	—	20.60	—
6. Physical Education , Games and Sports and Youth Services						
ED 6.1 Holding of Coaching Camps and Competitions	1.22	1.50	1.50	—	—	—
ED 6.2 Creation of posts of D.P.Es.	1.14	15.84	102.20	—	19.32	—
ED 6.3 Starting of Sports Wings	1.94	5.34	27.64	—	5.40	—
Total	4.30	22.68	131.34	—	24.72	—
7. Additional Staff for Direction and Administration and Supervision						
ED 7.1 Additional Inspection Staff	1.28	3.28	20.14	—	3.67	—
Total	1.28	3.28	20.14	—	3.67	—
Total School Education (Middle and Secondary Education)	110.96	370.37	3263.03	216.06	656.50	87.12
II. College and University Education						
8. Direction, Administration and Supervision						
ED 8.1 Strengthening of Education Administration	—	3.00	18.50	—	2.25	—
ED 8.2 Strengthening of Planning Machinery in the Directorate	—	0.60	3.50	—	0.65	—
Total	—	3.60	22.00	—	2.90	—

SIXTH FIVE YEAR PLAN 1980—85 : SCHEMES

STATEMENT II

HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980—85		1981-82		
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	5	6	7	
9. Assistance to Universities							
ED 9.1	Grant in aid to Universities	56.14	45.00	275.00	—	45.00	—
	Total	56.14	45.00	275.00	—	45.00	—
10. Government Colleges							
ED 10.1	Expansion of facilities	30.21	23.45	191.50	74.00	41.85	20.85
ED 10.2	Improvement of existing colleges	7.14	43.45	263.00	27.50	47.00	5.00
ED 10.3	Development of College Education under Schemes	—	5.00	37.00	—	8.00	—
ED 10.4	Strengthening of College Administration	—	1.00	5.00	—	1.00	—
ED 10.5	Opening of Careers Wings in Govt. Colleges	—	—	2.00	—	—	—
	Total	37.35	72.90	498.50	101.50	99.85	25.85
11. Assistance to Non-Government Colleges							
ED 11.1	Grant-in-aid to Non-Government Colleges	3.05	4.00	12.00	—	2.00	—
	Total	3.05	4.00	12.00	—	2.00	—
12. Students Welfare							
ED 12.1	Hostels for Government Colleges	2.07	5.50	25.50	14.00	3.75	2.00
	Total	2.07	5.50	25.50	14.00	3.75	2.00
13. Scholarships							
ED 13.1	State Merit Scholarships	4.75	5.00	25.00	—	5.00	—
	Total	4.75	5.00	25.00	—	5.00	—
14. Seminars and Refresher Courses							
ED 14.1	Seminars and Refresher Courses	—	—	5.00	—	—	—
	Total	—	—	5.00	—	—	—
III. Other Programmes							
15. Arts and Culture							
ED 15.1	Establishment and Strengthening of District Libraries	4.53	4.00	37.00	5.00	3.50	0.50
	Total	4.53	4.00	37.00	5.00	3.50	0.50
	Total University and Higher Education	107.89	140.00	900.00	120.50	162.00	28.35

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : GENERAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980-85		1981-82		
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	5	6	7	
16. Languages							
ED 16.1	Development of Languages—Hindi, Punjabi and Urdu	4.95	10.00	63.38	—	12.31	—
ED 16.2	Promotion of Regional Languages (State share for Punjab University Text Book Board)	—	5.80	44.62	—	6.04	—
	Total-	4.95	15.80	103.00	—	18.35	—
17. Youth Services and N.S.S.							
ED 17.1	Punjab Inter University Youth Festival	—	0.48	2.50	—	0.50	—
ED 17.2	Teachers Training Camp for College/Higher Secondary/High Schools	0.09	0.33	1.73	—	0.35	—
ED 17.3	(a) Youth Leadership Training Camp	1.19	1.31	8.00	—	1.45	—
	(b) Hiking, Trekking, Mountaineering in High Altitude Areas	0.87	0.88	4.78	—	0.90	—
ED 17.4	Grant-in-aid to Village Youth Clubs	0.25	0.49	2.99	—	0.55	—
ED 17.5	Inter State Tours	0.62	1.41	7.40	—	1.50	—
ED 17.6	Grant-in-aid to College/Schools Youth Clubs	0.30	0.60	3.50	—	0.65	—
ED 17.7	N.S.S. (State Share)	6.45	8.33	45.85	—	8.75	—
	Total	9.77	13.83	76.75	—	14.65	—
18. Sports and Games							
ED 18.1	Coaching Schemes	5.50	5.75	42.75	—	5.75	—
ED 18.2	Competition Scheme	3.25	5.00	27.00	—	5.00	—
ED 18.3	Scholarships	2.12	2.60	14.25	—	2.60	—
ED 18.4	Purchase of Sports equipment	5.00	5.75	31.55	—	5.76	—
ED 18.5	State Sports Academy	—	1.00	27.10	—	1.00	—
ED 18.6	Sports Hostels	4.05	4.90	32.35	—	4.90	—
ED 18.7	Construction of Sports Complexes (grant-in-aid)	13.00	10.00	55.00	—	10.00	—
	Total	32.92	35.00	230.00	—	35.00	—

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : GENERAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980-85		1981-82	
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
19. Archivs						
ED 19-1 Archives	—	0.50	5.00	—	0.50	—
Total	—	0.50	5.00	—	0.50	—
20. Archaeology and Museum						
ED 20-1 Conservation of Ancient and Historical Monument (office expenses)	4.97	5.00	30.00	—	7.00	—
ED 20-2 Excavations & Exploration	0.30	0.30	2.00	—	0.50	—
ED 20-3 Display Equipment for Museum including Purchase of Art Objects and Antiques	0.97	0.60	5.00	—	1.50	—
ED 20-4 Deveopment of Arch. Lib.	0.05	0.10	1.00	—	0.10	—
ED 20-5 Equipment & Machinery	0.49	0.50	3.00	—	0.50	—
ED 20-6 Transplantation of Paintings	—	—	3.00	—	0.50	—
ED 20-7 Strengthening of Archaeology & Musuem Department, administrative and other staff	0.08	—	3.00	—	0.50	—
ED 20-8 Publication of Arch. Reports	—	0.10	3.00	—	0.10	—
ED 20-9 Setting up of Arch. Lab.	—	0.20	3.00	—	0.50	—
ED 20-10 Opening of New Museums	—	—	4.00	—	0.80	—
ED 20-11 Canon Park shed	—	—	3.00	—	0.50	—
ED 20-12 Land scaping/Beautiffication around monuments	—	—	3.00	—	0.50	—
Total	6.87	6.80	63.00	—	13.00	—
21. Promotion of Art and Culture						
ED 21.1 Revival of Folk Songs and dances	0.46	0.75	10.00	—	1.50	—
ED 21.2 Setting up of Panjabi culture Centre at Delhi	—	7.70	50.00	50.00	0.05	0.05
ED 21.3 Setting of Punjab Cultural Village at Chhat Bir	—	—	5.00	—	0.05	—
ED 21.4 Sponsoring of Cultural Troups to other States	0.43	1.25	7.00	—	1.50	—
ED 21.5 Grant-in-aid to the institutions engaged in the promotion of Art and Culture	10.80	1.00	10.00	—	1.00	—
ED 21.6 Holding of Musical & Cultural Conference/Seminar & Celebration of Festivals	—	—	3.00	—	0.40	—
ED 21.7 Strengthening of cultural affairs wing— Administrative and Technical Staff	—	—	5.25	—	1.00	—
Total	11.69	10.70	90.25	50.00	5.00	0.05
22. Chhatbir Complex						
ED 22-1 Setting up of International Children Home at Chhatbir	—	10.00	40.00	40.00	2.00	2.00
Total	—	10.00	40.00	40.00	2.00	2.00
Grand Total	316.29	743.00	5300.00	936.56	1045.00	227.52

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : TECHNICAL EDUCATION

(Rs in lakhs)

Name of the scheme/Project	1979-80	1980-81	1980-85		1981-82		
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	6	6	7	
1. Direction and Administration							
TE 1.1 Strengthening of Directorate	..	—	0.50	5.00	—	0.50	—
Total	0.50	5.00	—	0.50	—
2. Engineering Colleges (Private)							
TE 2.1 (a) Diversified courses at Thapar Institute of Engineering and Technology, Patiala	..	—	0.25	1.00	—	0.04	—
(b) Diversified Degree Courses in Environmental Science/Civil Engineering at Thapar Institute of Engineering and Technology, Patiala	..	—	—	1.00	—	0.10	—
(c) Diversified Degree Course in Instrumentation process control (Elec. Fngg at Thapar Institute of Engg. & Tech., Patiala)	..	—	—	6.00	—	1.30	—
(d) Diversified Degree Course in Industrial Design (Mech. Engg. at Thapar Instt. of Engg. & Tech., Patiala)	..	—	—	6.00	—	1.40	—
(e) Diversified Degree Course in Metallurgy (Mech. Engg. at Thapar Instt. of Engg. & Technology, Patiala)	..	—	—	1.00	—	0.10	—
TE 2.2 Sandwich type degree course in Textile Technology at Thapar Institute of Engineering and Technology, Patiala	..	—	—	—	—	—	—
TE 2.3 Diversified Degree course in Electronics and Electrical Communication at Guru Nanak Engineering College, Ludhiana	..	—	0.50	10.00	—	3.00	—
TE 2.4 Diversified Degree in Production Engineering (Sandwich type course) at Guru Nanak Engineering College, Ludhiana	..	—	0.20	5.00	—	1.00	—
TE 2.5 Production/service-cum-Training Centre at Engineering Colleges	..	—	0.20	1.00	—	0.01	—
TE 2.6 Part-time degree course in Engineering Colleges	..	—	0.50	5.00	—	1.00	—
TE 2.7 Revision of staff structure in Engineering Colleges.	..	—	0.20	1.00	—	0.01	—
TE 2.8 Faculty Exchange Programme and Visiting Professors in residence	..	—	0.20	2.00	—	0.01	—
TE 2.9 Consultancy service in Engineering Colleges (GNEC Ludhiana)	..	0.20	0.20	8.00	—	1.50	—
TE 2.9(a) Consultancy service in Engineering Colleges (TIET Patiala)	..	—	—	3.00	—	0.50	—
TE 2.10 Provision of Implementing Credit System in Engineering Colleges	..	—	0.50	1.00	—	0.01	—
TE 2.11 Modernisation of Equipment	..	1.60	1.00	5.00	—	1.00	—
TE 2.12 Replacement of Obsolete equipment	..	—	0.50	1.00	—	0.20	—
TE 2.13 Diversified degree course in Electronics and Electric Communication at Thapar Institute of Engineering and Technology, Patiala	..	—	0.10	—	—	—	—

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : TECHNICAL EDUCATION

(Rs in lakhs)

Name of the schemes/Projects	1979-80	1980-81	1980-85		1981-82	
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
TE 2.14 Creation of Post of Training-cum-Placement Officer in Engineering Colleges ..	—	0.25	—	—	—	—
TE 2.15 Establishment of Computer Terminal facilities Centre at Guru Nanak Engineering College, Ludhiana ..	2.25	1.00	10.00	—	2.00	—
TE 2.16 Establishment of Computer Terminal facilities at Thapar Institute of Engineering and Technology, Patiala ..	2.25	1.00	10.00	—	2.00	—
TE 2.17 Creation of Development fund for the Development of Guru Nanak Engineering College, Ludhiana ..	7.50	7.50	15.00	—	7.50	—
TE 2.18 Starting of a degree course in Knitting Technology at Guru Nanak Engineering College, Ludhiana ..	—	—	7.00	—	0.01	—
TE 2.19 Introduction of Research activity and development of Faculty in the Field of Production & Maintenance Engg. at Guru Nanak Engg. College, Ludhiana ..	—	—	1.00	—	0.00	—
TE 2.20 Specialised courses & research programmes in Collaboration with Industrial Tribology, Machine & Maintenance Engg. Centre (ITMMCC) of Indian Institute of Technology, New Delhi under the modified A.I.F. at Guru Nanak College, Ludhiana ..	—	—	1.00	—	0.01	—
TE 2.21 Development of Metrology & Heat Transfer at Guru Nanak Engg. College, Ludhiana ..	—	—	1.20	—	1.20	—
Total ..	13.80	14.10	101.20	—	23.91	—
Total ..	13.80	14.10	101.20	—	23.91	—
(B) Government Engineering College						
TE 2.31 Setting up of a Govt Engg. College ..	—	—	100.00	40.00	20.00	18.00
Total ..	—	—	100.00	40.00	20.00	18.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : TECHNICAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980-85		1981-82		
	Actuals	Approved outlay	Proposed outlay	Capital content	proposed outlay	Capital content	
1	2	3	4	5	6	7	
3. Government Polytechnics							
TE 3.1	I-Year Post Diploma Course in Dairy Engineering at Government Polytechnic, Amritsar	—	0.25	1.00	0.50	0.01	0.01
TE 3.2	I-Year Post Diploma Course in Television Technology at Government Polytechnic, Hoshiarpur	—	0.25	1.00	0.50	0.01	0.01
TE 3.3	I-Year Post Diploma Course in Heat Treatment at Government Polytechnic, Batala	—	0.25	1.00	0.50	0.01	0.01
TE 3.4	Diversified Diploma Course in Electronics and Electrical Communication at Government Polytechnic, Hoshiarpur	0.70	0.10	—	—	—	—
TE 3.5	Diploma Course in Commercial Practice at Government Polytechnic, Hoshiarpur	0.25	0.01	—	—	—	—
TE 3.6	Diversified Post Diploma Course in Refrigeration and Air-conditioning at Government Polytechnic, Amritsar	0.15	0.01	—	—	—	—
TE 3.7	Production-cum-Training Centre at Government Polytechnic, Amritsar	—	1.00	5.00	1.00	1.00	0.50
TE 3.8	Service-cum-Training Centre at Government Polytechnic, Batala	—	1.00	5.00	1.00	1.00	0.50
TE 3.9	Setting up of Government Polytechnic at, Bhatinda	—	10.00	60.00	20.00	19.00	15.00
TE 3.10	Part-time Civil/Electrical/Mechanical Engineering Diploma Course at Government Polytechnic, Hoshiarpur/Batala/Amritsar	0.39	1.50	5.00	—	1.50	—
TE 3.11	Revision of Staff Structure	—	0.25	1.00	—	0.01	—
TE 3.12	Modernisation of Equipment	1.31	0.80	5.00	—	1.00	—
TE 3.13	Replacement of Obsolete Equipment	—	0.40	1.00	—	0.20	—
TE 3.14	3-Year Diversified Diploma Course in Civil Engineering Design and Drafting at Government Polytechnic, Amritsar	—	0.10	—	—	—	—
TE 3.15	Sandwich type 4-year Diploma Course in new discipline not covered so far (Timber Technology, Hoshiarpur)	—	0.10	1.00	0.50	0.01	0.01
TE 3.16	Production-cum-Service-cum-Training Centre at Government Polytechnic, Hoshiarpur	—	0.05	1.00	0.50	0.01	0.01
	Total	2.80	16.07	87.00	24.50	23.76	16.05
4. Private Polytechnics							
TE 4.1	Advance level diploma course in Printing	—	2.00	18.80	—	3.00	—
TE 4.2	Three Year Architectural Assistantship course at Thapar Polytechnic, Patiala	—	0.50	—	—	—	—

SIXTH FIVE-YEAR PLAN : 1980-85 : SCHEMES

STATEMENT II
TECHNICAL EDUCATION

Name of the Scheme/Project	1979-80	1980-81	1980-85		1981-82	
	Actuals	Approved Outlay	Proposed outlay	Capital content	Proposed outlay	Capital content
	2	3	4		6	7
TE 4.3 Diversified 3-Year Diploma Course in Plastic & Rubber Technology at Guru Nanak Engineering College, Ludhiana ..	—	0.50	1.00	—	0.01	—
TE 4.4 Diversified 3-Year Diploma Course in Tool & Die Making Technology at Guru Nanak Engineering (Polytechnic) Ludhiana ..	—	0.50	15.00	—	5.00	—
TE 4.5 1-Year Post Diploma Course in Electronics at Mehar Chand Polytechnic, Jullundur ..	—	0.50	1.00	—	0.01	—
TE 4.6 1-Year Post Diploma Course in Hospital Engineering at Thapar Polytechnic, Patiala ..	—	0.35	5.00	—	1.00	—
TE 4.7 AMIE course at Guru Nanak Engineering, College, (Polytechnic), Ludhiana ..	—	0.25	1.00	—	0.25	—
TE 4.8 Part-time Diploma course in Civil Engineering at Mehar Chand Polytechnic, Jullundur ..	—	0.25	1.00	—	0.25	—
TE 4.9 Revision of Staff Structure ..	—	0.20	1.00	—	0.01	—
TE 4.10 Modernisation of Equipment ..	0.90	0.50	4.00	—	1.00	—
TE 4.11 Replacement of Obsolete equipment ..	—	0.45	1.00	—	0.20	—
TE 4.12 Audio-Visual Training Centre at Thapar Polytechnic, Patiala ..	—	0.50	2.00	..	0.50	..
TE 4.13 3-year Diploma Course in Agriculture Engg. at Guru Nank Engg. College (Poly), Ludhiana ..	—	0.25	5.00	..	0.50	..
TE 4.14 Sandwich type 4-Year Diploma course in Maintenance Engg. at Guru Nanak Engg. College (poly), Ludhiana ..	—	0.25	5.00	..	0.50	..
TE 4.15 Part-time Diploma course Electrical Engg. at Guru Nanak Engg. College (poly), Ludhiana ..	—	0.30	2.00	—	0.25	—
TE 4.16 Sandwich type 4-Year diploma course in New Discipline i.e. not covered so far ..	—	0.25	—	—	—	—
TE 4.17 3-Year Diversified Diploma course in Mech. Engg. Design & Drafting at Thapar Polytechnic, Patiala ..	—	0.08	—	—	—	—
TE 4.18 Auto Visual centre at Guru Nanak Poly. Ludhiana ..	—	—	3.00	—	2.00	—
TE 4.19 Scheme for the expansion of Guru Nanak Poly Ludhiana on bifurcation of the Institutions ..	—	—	5.00	—	10.0	—
TE 4.20 Scheme for the Expansion of Thapar Polytechnic, Patiala on bifurcation of the Institution ..	—	—	5.00	—	1.00	—
Total ..	0.90	7.53	75.80	—	16.48	—
5. INDUSTRIAL TRAINING SCHEMES						
TE 5.1 (a) Introduction of new courses at Government Polytechnic for Women, Jullundur ..	0.02	0.50	5.00	—	2.00	—
(b) Starting of Evening Classes at Government Polytechnic for Women, Jullundur ..	—	0.50	4.00	—	0.50	—
(c) Part-time Diploma course in pharmacy for Serving Persons at Government polytechnic for Women Jullundur ..	—	0.50	3.00	—	0.50	—

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : TECHNICAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80	1980-81	1980-85		1981-82	
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
TE 5.2 (a) Modernisation of Building Machinery Equipment & Library at Govt. Institute of Garment Technology, Amritsar ..	0.91	0.75	4.00	—	0.50	—
(b) Starting of 2nd Shift at Govt. Institute of Garment Tech. Amritsar ..	—	0.75	3.50	—	0.85	—
TE 5.3 (a) Modernisation of Building Machinery Equipment and Library at Punjab Institute of Textile Technology, Amritsar ..	0.75	2.50	5.00	—	1.00	—
(b) Starting of 2nd shift at Punjab Institute of Textile Technology Amritsar ..	0.10	1.00	4.50	—	0.75	—
TE 5.4 Modernisation of Building Machinery Equipment and Library at Government Institute of Textile Chemistry & Knitting Technology Ludhiana ..	1.00	2.50	8.00	—	2.00	—
TE 5.5 Modernisation of Building Machinery Equipment and Govt. Training Institute, Jullundur ..	—	2.50	10.00	—	1.00	—
TE 5.6 Revision of Staff Structure of Government Polytechnic for Women, Jullundur ..	—	—	1.00	—	0.01	—
TE 5.7 Revision of staff structures of Government Institute Garment Technology, Amritsar ..	—	—	1.00	—	0.01	—
TE 5.8 Revision of Staff Structure of Punjab Institute of Textile Technology, Amritsar ..	—	—	1.00	—	0.01	—
TE 5.9 Revision of Staff Structure at Govt., Institute of Textile Chemistry & Knitting Technology, Ludhiana ..	—	—	1.00	—	0.01	—
TE 5.10 Revision of Staff Structure of Govt. Tanning Institute, Jullundur ..	—	—	1.00	—	0.01	—
TE 5.11 Setting up of Training-cum-Production Centre at the Govt. Tanning Institute, Jullundur ..	—	—	2.00	1.20	0.20	—
TE 5.12 Setting up of a Training-cum-Production Centre at Govt. Institute of Garment Technology, Amritsar ..	—	—	2.00	—	0.50	0.50
Total ..	2.78	11.50	56.00	18.20	10.15	0.50
6. SCHOLARSHIPS						
TE 6.1 Scholarships ..	—	0.30	1.00	—	0.30	—
Total ..	—	0.30	1.00	—	0.30	—
7 Faculty Development						
TE 7.1 Training Reserve ..	—	0.30	1.00	—	0.30	—
TE 7.2 Purchase of Teaching aids ..	0.51	1.00	2.00	—	0.40	—
Total ..	0.51	1.30	3.00	—	0.70	—

SIXTH FIVE-YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

TECHNICAL EDUCATION

(Rs. in Lakhs)

Name of the Scheme/Project		1979-80	1980-81	1980-85		1981-82	
		Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content
1		2	3	4	5	6	7
8 Other Programme							
TE 8.1	Students Amenties ..	0.15	1.00	5.00	2.00	1.00	0.40
TE 8.2	Development of Libraries ..	0.64	0.50	5.00	—	1.00	—
TE 8.3	Book Bank for Poor students ..	0.64	0.50	5.00	—	1.00	—
TE 8.4	Development of Campus ..	—	0.70	1.00	0.40	0.20	0.05
TE 8.	Staff Quarters in Government Polytechnics ..	1.76	10.00	5.00	5.00	1.00	1.00
	Total ..	3.19	3.70	21.00	7.40	4.20	1.45
TE 9.	Employment Promotion Programme— Total	0.06	—	—	—	—	—
TE 9.1	Employment Promotion Programmes ..	0.06	—	—	—	—	—
	Grand Total ..	24.04	55.00	450.00	90.10	100.00	36.00

SIXTH FIVE-YEAR PLAN 1980-85 ; SCHEMES

STATEMENT II

HEAD : PUBLIC HEALTH AND SANITATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80 (Actuals)	1980-81 (Approved Outlay)	1980-85		1981-82		
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
MEDICAL EDUCATION AND RESEARCH							
1. Direction and Administration							
MD 1.1	Strengthening of office of D.R.M.E. Punjab	0.15	1.05	6.00	—	1.50	—
	Total	0.15	1.05	6.00	—	1.50	—
2. Medical Relief							
MD 2.1	Expansion & Improvement of S.G.T.B. Hospital, Amritsar	52.00	47.10	220.00	90.00	42.00	15.00
MD 2.2	Expansion & Improvement of Rajindra Hospital, Patiala	19.20	54.30	210.00	90.00	40.10	15.00
MD 2.3	Expansion and Improvement of T. B. Hospital, Amritsar	2.95	4.70	26.00	5.00	3.00	1.00
D 2.4	Expansion and Improvement of T. B. Hospital, Patiala	2.36	2.50	20.00	2.00	3.00	1.00
	Total	76.51	108.60	476.00	187.00	88.10	32.00
3. Education							
MD 3.1	Expansion and Improvement of Medical College, Amritsar	22.99	6.70	85.00	20.00	15.00	5.00
MD 3.2	Expansion and Improvement of Medical College, Patiala	0.92	3.20	71.00	6.00	15.00	5.00
MD 3.3	Expansion and Improvement of Dental College, Amritsar	0.63	1.45	25.00	5.00	5.00	1.00
MD 3.4	Expansion and Improvement of Dental Wing, Patiala	0.77	3.00	20.00	5.00	3.00	1.00
MD 3.5	Extra Coaching to Scheduled Castes M.B.B.S. Students in Medical Colleges	—	0.35	2.00	—	0.40	—
MD 3.6	Taking over Guru Gobind Singh Medical College, Faridkot	64.42	99.00	900.00	600.00	150.00	100.00
	Total	89.73	113.70	1103.00	636.00	188.40	112.00
Research							
MD 4.1	Grant for applied Research	1.00	2.00	10.00	—	2.00	—
	Total	1.00	2.00	10.00	—	2.00	—
5. Training							
MD 5.1	Augmentation of training facilities for Para-Medical Staff	—	2.50	25.00	5.00	5.00	1.00
	Total	—	2.50	25.00	5.00	5.00	1.00
6. Operational cost of Centrally Sponsored Schemes (State Share)							
MD 6.1	Reorientation of Medical Education	2.54	16.87	60.00	25.00	7.00	2.00
MD 6.2	Visual Impairment and prevention of Blindness	—	5.28	20.00	—	3.00	—
	Total	2.54	22.15	80.00	25.00	10.00	2.00
	Total Medical Education and Research	169.93	250.00	1700.00	853.00	295.00	147.00

SIXTH FIVE-YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : PUBLIC HEALTH AND SANITATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80 (Actuals)	1980-81 (Approved Outlay)	1980-85		1981-82		
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
II. PUBLIC HEALTH							
1. Minimum Needs Programme							
PH 1.1	Completion and Improvement of Primary Health Centres	23.60	1.00	48.00	45.00	3.95	3.75
PH 1.2	Establishment of 25-bedded block level Rural Hospitals	110.61	70.00	300.00	—	55.00	—
PH 1.3	Opening of subsidiary Health Centres in Rural Areas	38.98	194.50	1142.00	250.00	247.90	50.00
PH 1.4	Improvement of Subsidiary Health Centres	6.73	1.00	1.00	1.00	—	—
PH 1.5	Establishment of Dental Clinics in each Block	2.15	6.00	50.00	—	8.50	—
PH 1.6	Providing specialists teams in Rural Areas	0.73	7.25	22.00	—	4.00	—
	Total	*184.86	279.75	1563.00	296.00	319.35	53.75
2. Hospitals and Dispensaries							
PH 2.1	Opening of new Dispensaries in Urban Slum Areas/suitable Urban places	0.35	7.50	50.00	—	9.50	—
PH 2.2	Improvement of Punjab Mental Hospital, Amritsar	2.19	0.50	4.00	4.00	1.00	1.00
PH 2.3	Provincialisation of Local Bodies Hospitals/Dispensaries	1.82	4.00	40.00	—	7.00	—
PH 2.4	Upgradation of existing Hospitals (including establishment of Hospital at S.A.S. Nagar)	65.21	33.85	214.00	111.00	48.00	30.00
PH 2.5	Establishment of Intensive Care Unit in District Level Hospitals	1.47	1.25	7.00	—	1.30	—
	Total	71.04	47.10	315.00	115.00	66.80	31.00
CONTROL/ERADICATION OF COMMUNICABLE DISEASES							
Centrally-sponsored Schemes to be continued on 50 : 50 sharing basis (State Share)							
PH 3.1	National Malaria Eradication Programme (Rural)	87.37	142.71	750.00	—	138.00	—
PH 3.2	National Malaria Eradication Programme (Anti-Larval)	15.01	16.00	88.00	—	16.80	—
PH 3.3	National Malaria Eradication Programme (Urban Spray)	—	2.00	2.00	—	—	—
PH 3.4	National T.B. Control Programme	2.22	7.75	40.00	—	7.70	—
PH 3.5	National Leprosy Control Programme	1.63	0.70	4.00	1.00	0.75	0.25
PH 3.6	National Programme for Control of visual Impairment & Blindness including Trachoma	—	1.95	10.00	—	2.00	—
PH 3.7	Training & Employment of Multipurpose Workers Scheme	18.39	12.40	60.00	—	12.10	—
	Total	124.62	183.51	954.00	1.00	177.35	0.25

**Includes Rs 2.06 lakh incurred under the Scheme Improvement of Sub-Centres.

SIXTH FIVE-YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : PUBLIC HEALTH AND SANITATION

(Rs in lakhs)

Name of the Scheme/Project	1979-80, Actuals	1980-81, Approved Outlay	1980-85		1981-82		
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
4. Other Programmes							
PH 4.1	Administrative Re-organisation of the Punjab Health Department	—	—	9.00	—	2.00	—
PH 4.2	Strengthening of State Health & District Laboratories	0.72	0.65	4.00	—	0.70	—
PH 4.3	Strengthening of Drug & Food Standard Control Organisation	—	2.50	14.50	—	2.50	—
PH 4.4	Strengthening of Health Statistics Organisation	—	1.29	10.50	—	2.00	—
PH 4.5	Multipurpose Workers Scheme	27.93	20.00	100.00	—	20.00	—
PH 4.6	Establishment of Central Medical Store Deptt, Punjab	—	2.70	16.50	—	4.40	—
PH 4.7	Additional vehicles required for implementing integrated health services scheme	—	—	20.00	—	5.00	—
PH 4.8	Establishment of Health Equipment Maintenance and Repair Unit	0.02	1.50	10.00	—	5.00	—
PH 4.9	Expansion of Immunisation Programme	—	0.45	7.00	—	1.10	—
PH 4.10	Community Health Volunteers Scheme	—	1.00	1.00	—	—	—
PH 4.11	Comprehensive Health Care Service Project	—	—	1.50	—	0.30	—
PH 4.12	Treatment of Diarrhoeal diseases by oral Rehydration Therapy	—	—	7.00	—	1.50	—
Total		28.67	30.09	201.00	—	44.50	—
5. Employment State Insurance Corporation							
PH 5.1	E.S.I. Scheme	4.83	19.55	62.00	—	11.00	—
Total		4.83	19.55	62.00	—	11.00	—
Total Public Health		414.02	560.00	3095.00	412.00	619.00	85.00
III. I.S.M.							
AY 1.1	Strengthening of existing I.S.M. Dispensaries	3.99	5.50	32.89	—	5.30	—
AY 1.2	Opening of I.S.M. Dispensaries	2.61	13.83	107.40	—	20.00	—
AY 1.3	Improvement and expansion of Government Ayurvedic College, Patiala	0.25	1.10	4.07	0.40	0.70	—
AY 1.4	Improvement and expansion of Government Ayurvedic Hospital, Patiala	0.07	1.20	1.20	1.20	—	—
AY 1.5	Improvement and expansion of Government Ayurvedic Pharmacy, Patiala	0.06	1.37	3.14	1.00	0.40	—
AY 1.6	Strengthening of Ayurvedic Headquarters Staff	6.36	1.25	3.70	—	0.70	—
AY 1.7	Strengthening of District Headquarters Staff	0.71	5.75	12.60	—	1.90	—
Total I.S.M.		14.05	30.00	165.00	2.60	29.00	—
IV. HOMOEOPATHY							
HM 1.1	Strengthening of State Headquarters Staff	—	—	7.55	—	1.95	—
HM 1.2	Opening of Homoeopathic Dispensaries	—	—	32.45	—	5.05	—
Total Homoeopathy		—	—	40.00	—	7.00	—
Grand Total Public Health and Sanitation		598.00	840.00	5000.00	1267.60	950.00	232.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : RURAL WATER SUPPLY

(Rs in lakhs)

Name of the Scheme/Project	1979-80, Actuals	1980-81, Approved Outlay	1980-85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
Rural Water Supply	481.16	500.00	2,800.00	280.00	800.00	800.00
Total	481.16	500.00	2800.00	280.00	800.00	800.00

SIXTH FIVE-YEAR PLAN 1980—85 : SCHEMES
STATEMENT II
HEAD : URBAN DEVELOPMENT INCLUDING URBAN WATER-SUPPLY AND
SEWERAGE

(Rs in lakhs)

Name of Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980—85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
Urban Water-Supply and Sewerage						
WS 1. Financial Assistance to Municipal Committees (rumunerative water-supply and sewerage schemes)—						
(a) I.D.A. Project	.. 821.75	1160.00	3494.00	3494.00	1300.00	1300.00
(b) L.I.C. aided Water-supply and Sewerage Project	.. 140.91	310.00*	1340.00**	1340.00**	310.00*	310.00*
(c) Other Water-supply Schemes	.. } 319.68	60.00	1000.00	1000.00	60.00	60.00
(d) Other Sewerage Schemes	.. }	20.00	945.00	945.00	40.00	40.00
Total	.. 1282.34	1550.00	6779.00	6779.00	1710.00	1710.00
Other Schemes						
WS 2. Sewage Sullage Utilisation Scheme	.. 69.36	30.00	100.00	100.00	30.00	30.00
WS 3. Setting-up of Compost Plants at Amritsar, Jullundur and Ludhiana	.. —	20.00	42.66	42.66	—	—
WS 4. Urban Solid Waste Disposal	.. —	—	13.34	13.34	—	—
WS 5. Water supply and Sewerage Board	.. 50.00	100.00	405.00	405.00	50.00	50.00
Total	.. 119.36	150.00	561.00	561.00	80.00	80.00
Total Urban Water Supply	.. 1401.70	1700.00	7340.00	7340.00	1790.00	1790.00
Urban Development						
UD 1. Urban Estates	.. 429.08	250.00	1600.00	1600.00	150.00	150.00
UD 2. Financial Assistance to Improvement Trusts—						
(a) General activities	.. 15.00	10.00	50.00	50.00	10.00	10.00
(b) Free house-sites to urban homeless Scheduled Castes	.. 15.00	10.00	150.00	150.00	10.00	10.00
(c) Free house sites to urban home-less	.. —	25.00	200.00	200.00	25.00	25.00
UD 3 Town and Regional Planning—						
(a) Rural Sector area Planning	.. } —	10.00	60.00	—	10.00	—
(b) Urban Sector area Planning (New Towns)	.. }					
UD 4. Integrated Urban Development Programme	.. —	100.00	500.00	500.00	100.00	100.00
UD 5. Slum-Clearance/Improvement	.. 2.00	20.00	100.00	100.00	20.00	20.00
Total	.. 461.08	425.00	2660.00	2600.00	325.00	315.00
Total Urban Development including Urban Water-Supply and Sewerage	.. 1862.78	2125.00	10,000.00	9940.00	2115.00	2105.00

*Includes Rs 250 lakhs as L.I.C. loan.

**Includes Rs 1,000 lakhs as L.I.C. loan.

SIXTH FIVE-YEAR PLAN 1980—85 : SCHEMES

STATEMENT II
HEAD : HOUSING

(Rs in lakhs)

Name of Scheme/Project	1979-80 Actuals,	1980-81 Approved Outlay	1980—85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
HOUSING						
Government Residential Buildings						
HG 1.1 At District/Tehsil Headquarters and at other places	.. 215.00	175.00	971.35	971.35	140.80	140.80
HG 1.2 At focal points	.. 50.00	45.00	225.00	225.00	28.32	28.32
HG 1.3 For Government employees at Chandigarh	.. 90.00	80.00	363.65	363.65	30.00	30.00
Total	.. 355.00	300.00	1560.00	1560.00	199.12	199.12
2. Other Housing Schemes						
HG 2.1 Subsidised Industrial Housing	.. 9.00	9.00	50.00	50.00	10.00	10.00
HG 2.2 Houses for rural home-less	.. 70.00	170.00	1200.00	1200.00	285.00	285.00
HG 2.3 Loans for Low Income Group Houses	.. 55.00	60.00	300.00	300.00	60.00	60.00
HG 2.4 Loans to Government Servants	.. 239.86	150.00	975.00	975.00	200.00	200.00
HG 2.5 Loans for building houses in Urban Estates	.. 60.00	30.00	150.00	150.00	30.00	30.00
HG 2.6 Middle Income Group Housing	.. —	—	60.00	60.00	20.00	20.00
HG 2.7 Village Housing Projects Scheme	.. —	50.00	170.00	170.00	30.00	30.00
Total	.. 433.86	469.00	2905.00	2905.00	635.00	635.00
Other Programmes						
HG 3.1 Contribution to Housing Board	.. 69.27	70.00	250.00	250.00	20.00	20.00
Police Housing						
HG 4.1 Houses for Police	.. 156.62	150.00	985.00	985.00	185.88	185.88
Grand Total Housing	.. 1014.75	989.00	5700.00	5700.00	1040.00	1040.00

SIXTH FIVE YEAR PLAN 1980—85 : SCHEMES

STATEMENT II

HEAD : INFORMATION AND PUBLICITY

(Rs in lakhs)

Name of the Scheme/Project	1979-80, Actuals	1980-81, Approved Outlay	1980—85		1981-82		
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
1. Direction and Administration							
IP 1.1	Strengthening of the Department of Public Relations	2.05	2.00	12.00	—	2.70	—
IP 1.2	Purchase of books for library at headquarters	0.40	0.40	2.00	—	0.50	—
IP 1.3	Feed Back Studies	0.02	0.10	0.80	—	0.20	—
	Total	2.47	2.50	14.80	—	3.40	—
2. Films							
IP 2.1	Purchase and Production of Films	3.75	5.00	14.00	—	3.00	—
	Total	3.75	5.00	14.00	—	3.00	—
3. Field Publicity							
IP 3.1	Field Publicity	10.43	9.00	50.20	—	10.00	—
IP 3.2	Television Scheme	0.93	2.00	10.00	—	2.00	—
IP 3.3	Purchase and Production of literature	2.65	2.00	10.00	—	2.00	—
	Total	14.01	13.00	70.20	—	14.00	—
4. Song and Drama Services :							
IP 4.1	Song and Drama	3.08	4.00	20.00	—	4.00	—
IP 4.2	Light and Sound	5.00	3.00	14.00	—	3.00	—
	Total	8.08	7.00	34.00	—	7.00	—
5. Advertising and Visual Publicity :							
IP 5.1	Community Listening	0.10	0.10	0.50	—	0.10	—
IP 5.2	Exhibitions	31.82	2.40	14.00	—	3.00	—
IP 5.3	Display Advertisement	2.56	3.00	15.00	—	3.50	—
IP 5.4	Wall Paintings	0.23	0.50	2.50	—	0.50	—
	Total	34.71	6.00	32.00	—	7.10	—
6. Information Centres :							
IP 6.1	Teleprinter Lines	1.20	1.50	10.00	—	2.00	—
	Total	1.20	1.50	10.00	—	2.00	—
7. Film Corporation :							
IP 7.1	Share Capital Contribution to Punjab Films and News Corporation	—	1.00	5.00	5.00	1.00	1.00
	Total	—	1.00	5.00	5.00	1.00	1.00
	Grand Total	64.22	36.00	180.00	5.00	37.50	1.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES
STATEMENT II
HEAD : LABOUR AND LABOUR WELFARE

(Rs in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
I. LABOUR WELFARE						
1. Industrial Relations :						
LW 1.1 Strengthening of arbitration machinery	..	0.20	0.20	..	..	..
LW 1.2 Setting up of mobile labour court	..	..	..	..	0.20*	..
LW 1.3 Setting up of enforcement machinery for the welfare of agricultural labour	..	..	..	..	0.50*	..
Total	..	0.20	0.20	..	0.70	..
2. Working Conditions and Safety :						
LW 2.1 Strengthening of enforcement machinery for Minimum Wages Act, 1948	..	1.67	8.27	..	1.70	..
LW 2.2 Strengthening of Factory Inspectorate	..	0.30	0.30	..	..	..
LW 2.3 Setting up of Safety Cell	..	0.83	0.83	..	..	..
Total	..	2.80	9.40	..	1.70	..
3. General Labour Welfare :						
LW 3.1 Setting up of Industrial Hygiene Laboratory	..	0.90	2.80	..	0.40	..
Total	..	0.90	2.80	..	0.40	..
4. Research and Statistics :						
LW 4.1 Strengthening of statistical section	..	0.10	0.10	..	..	..
Total	..	0.10	0.10	..	..	..
Total—Labour Welfare	..	4.00	12.50	..	2.80	..
II. EMPLOYMENT SERVICES						
EE 1.1 Expansion of employment services	0.17	1.00	6.00	..	1.00	..
EE 1.2 Unemployment allowance to educated unemployed	12.50	..	..	..	..	..
EE 1.3 Programme for Removal of Poverty	..	..	2,000.00	..	500.00	..
EE 1.4 Setting up of —						
(a) Career Unit	..	..	..	..	0.50*	..
(b) Self-Employment Unit	..	..	..	..	0.20*	..
Total : Employment Services	12.67	1.00	2,006.00	..	501.70	..
III. INDUSTRIAL TRAINING						
1. Craftsmen Training :						
IT (C) 1.1 Conversion of unpopular trades into popular ones	3.44	4.00	20.00	..	4.00	..
IT (C) 1.2 Addition to and replacement of tools & equipment	5.00	4.00	20.00	..	4.00	..
IT (C) 1.3 Training, seminars and study tours of staff	1.00	1.00	5.00	..	1.00	..
IT (C) 1.4 Completion of I.T.I. buildings and construction of I.T.I. building at Nabha	10.52	6.00	30.00	30.00	5.00	5.00
IT (C) 1.5 Training-cum-placement cell	0.10	0.80	4.00	..	0.90	..
IT (C) 1.6 Apprenticeship Training Wing	0.24	0.50	3.00	..	0.60	..

*Token provision.

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

LABOUR AND LABOUR WELFARE

(Rs in lakh)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82	
			Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
F(C) 1.7 Mobile training centres in rural areas	..	0.50	0.50	..	..	..
T(C) 1.8 Instructional Centre at Chandigarh	0.18	0.70	5.00	..	1.00	..
F(C) 1.9 Modernisation of Industrial Training Institute, Patiala under U.N.D.P./I.L.O. Programme	4.12	5.00	25.00	3.00	5.00	1.00
F(C) 1.10 Conversion of R.A.T.Cs/J.T.Ss/G.I.Ss. into I.T.Is	4.29	8.00	40.00	15.00	8.00	3.00
Total	28.89	30.50	152.50	48.00	29.50	9.00
2. Industrial Schools for Girls :						
F(S) 2.1 Completion of building of Government Industrial Teachers Training Institute, Jullundur	0.13	1.00	5.00	5.00	1.00	1.00
F(S) 2.2 Construction of new buildings for Schools	5.35	3.00	20.00	20.00	5.00	5.00
F(S) 2.3 Opening of new Industrial Schools and introduction of additional seats in existing schools	2.03	2.00	10.00	..	2.00	..
F(S) 2.4 Opening of new teachers training classes	0.70	1.00	5.00	..	1.00	..
F(S) 2.5 Opening of training-cum-production centers	0.50	1.00	5.00	..	1.00	..
F(S) 2.6 Study tours, training and re-training educational study tours and seminars and conferences	0.45	0.50	3.50	..	0.50	..
F(S) 2.7 Modernisation and replacement of machinery in schools	2.05	2.00	9.00	..	1.50	..
Total	11.21	10.50	57.50	25.00	12.00	6.00
3. Professional Training :						
(P) 3.1 Construction of building for Arts and Crafts Teachers Training Institute at Amritsar	..	1.00	1.00	1.00	..	..
Total	..	1.00	1.00	1.00	..	..
Total : Industrial Training	40.10	42.00	211.00	74.00	41.50	15.00
Grand Total	52.77	47.00	2229.50	74.00	546.00	15.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES

(Rs in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980-85		1981-82		
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
1. Education Programme							
SC 1.1	Pre-matric coaching to students ..	16.46	17.00	103.75	—	17.00	—
SC 1.2	Grant for the purchase of stationery & books ..	22.40	22.00	238.28	—	44.00	—
SC 1.3	(a) Grant for the purchase of medical & engineering books (State Share) ..	2.25	2.10	10.00	—	2.00	—
	(b) Grant for the purchase of law books ..			2.90	—	0.75	—
SC 1.4	Training in Stenography ..	0.40	2.00	12.20	—	3.00	—
SC 1.5	Technical training in industrial trades ..	8.00	11.00	94.53	—	11.00	—
SC 1.6	B.Ed. and J.B.T. training to scheduled caste Graduates and Matriculates ..	—	10.00	61.05	—	8.00	—
SC 1.7	Grants to scheduled caste girls students studying in post-matric and post-graduate classes ..	—	12.00	72.00	—	15.00	—
SC 1.8	I.A.S. Coaching Centre, Patiala (State Share) ..	1.50	1.50	9.10	—	1.50	—
SC 1.9	Girls Hostels (State Share) ..	0.75	0.75	4.55	—	0.75	—
SC 10	Imparting of Industrial training to scheduled castes women ..	—	—	72.15	—	1.00*	—
	Total ..	51.76	78.35	680.51	—	104.00	—
2. Economic Uplift							
SC 2.1	Subsidy for the purchase of						
	(a) agricultural land ..	5.00	10.00	61.00	—	10.00	—
	(b) houses/wells on land ..	1.00	2.00	12.20	—	2.00	—
	(c) stamp duty ..	0.18	0.40	2.50	—	0.40	—
SC 2.2	Punjab Backward Classes Land Development & Finance Corporation—share capital ..	30.00	20.00	80.00	80.00	20.00	20.00
SC 2.3	Punjab Scheduled Castes Land Development & Finance Corporation—share capital (state share) ..	51.00	51.00	204.00	204.00	51.00	51.00
SC 2.4	Interest Subsidy for—						
	(a) Scheduled Castes ..	60.00	45.00	574.65	—	57.90	—
	(b) Backward Classes ..	40.00	15.00	190.60	—	21.00	—
SC 2.5	Contribution to Bad Debts Funds of Punjab Scheduled Castes Land Development & Finance Corporation ..	2.24	—	—	—	—	—
	Total ..	189.42	143.40	1,124.95	284.00	162.30	71.00

*Token provision

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD: WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES

(Rs in lakhs)

Name of the Scheme/Project	1978-79 Actuals	1980-81 Approved Outlay	1980-85		1981-82		
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
3. Health, Housing and Other Programmes							
SC 3.1	Legal Aid	0.07	0.25	1.50	—	0.20	—
SC 3.2	Construction of dharamshalas/chupals	40.00	30.00	258.30	—	50.00	—
SC 3.3	Environmental improvement of Harijan Basties including drinking water wells	74.00	70.00	658.39	—	105.00	—
SC 3.4	Construction of houses for sweepers/scavengers flayers and tanners	28.00	28.00	170.90	—	28.00	—
SC 3.5	Assistance to scheduled castes for development of manurial pits	—	25.00	150.00	—	25.00	—
SC 3.6	Supply of nutritative food to children belonging to scheduled castes balwadies	—	—	70.00	—	0.50*	—
	Total	142.07	153.25	1309.09	—	208.70	—
4. Wefare of Vimukat Jaties							
SC 4.1	Construction of houses for Vimukat Jaties	14.00	14.00	85.45	—	14.00	—
	Total	14.00	14.00	85.45	—	14.00	—
	Grand Total	397.25	389.00	3200.00	284.00	489.00	71.00

*Taken provision,

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : SOCIAL WELFARE

(Rs in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980-85		1981-82			
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content		
1	2	3	4	5	6	7		
1. Direction and Administration								
SW 1.1	Research, Training and Administration	..	—	0.50	3.70	—	0.80	—
	Total	..	—	0.50	3.70	—	0.80	—
2. Family and Child Welfare								
SW 2.1	Assistance to dependent children	..	5.00	17.00	123.00	—	19.30	—
SW 2.2	Construction of Certified School	..	0.58	3.80	31.20	31.20	5.00	5.00
SW 2.3	I.Y.C.	..	5.20	13.00	33.00	—	6.00	—
SW 2.4	Services for children in need of care and protection (State Share)	..	1.33	1.50	8.00	—	1.50	—
	Total	..	12.11	35.30	195.20	31.20	31.80	5.00
3. Women Welfare								
SW 3.1	Assistance to widows and destitute women	..	12.66	20.00	195.00	—	34.00	—
SW 3.2	Home for widows and destitute women	..	0.05	0.50	4.00	—	0.70	—
	Total	..	12.71	20.50	199.00	—	34.70	—
4. Welfare of Handicapped								
SW 4.1	Scholarships to the handicapped	..	0.15	0.45	1.10	—	0.20	—
SW 4.2	Supply of prosthetic aid to the handicapped	..	0.44	0.50	3.00	—	0.45	—
SW 4.3	Assistance to disabled persons	..	—	—	10.00	—	0.30*	—
	Total	..	0.59	0.95	14.10	—	0.95	—
5. Other Programmes								
SW 5.1	Grant-in-aid to voluntary organisations	..	1.50	1.00	6.00	—	1.00	—
SW 5.2	Grant-in-aid to the P.G.I. for the blind	..	1.76	1.75	9.00	—	1.75	—
	Total	..	3.26	2.75	15.00	—	2.75	—
6. Punjab Women and Children Development and Welfare Corporation								
SW 6.1	Share capital contribution to Punjab Women & children Development and Welfare Corporation	..	30.00	20.00	80.00	80.00	50.00	50.00
	Total	..	30.00	20.00	80.00	80.00	50.00	50.00

*Token provision,

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : SOCIAL WELFARE

(Rs in lakhs)

Name of the Scheme/Project	1979-80 Actuals	1980-81 Approved Outlay	1980-85		1981-82	
			Proposed Outlay	Capital Content	Proposed Outlay	Capital Content
1	2	3	4	5	6	7
DEFENCE SERVICES WELFARE						
Punjab Ex-Servicemen Corporation						
D5W 1. Share capital contribution to Punjab Ex-Servicemen Corporation	5.00	5.00	75.00	75.00	40.00	40.00
Total	5.00	5.00	75.00	75.00	40.00	40.00
Grand Total	63.67	85.00	582.00	186.20	161.00	95.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : NUTRITION

(Rs. in lakhs)

Name of the Scheme, Project	1979-80 Actuals	1980-81 Approved outlay	1980-85		1981-82		
			Proposed outlay	Capital content	Proposed outlay	Capital content	
1	2	3	4	5	6	7	
NUTRITION							
1. Special Nutrition Programme							
N 1.1	Programme for pre-school children	14.62	5.00	25.00	—	5.00	
N 1.2	Programme for pregnant and lactating mothers		1.70	8.50	—	1.70	
2. I.C.D.S. Project							
N 2.1	Nutritional diet under projects	..	9.30	46.50	—	9.30	
Total		..	14.62	16.00	80.00	—	16.00

SIXTH FIVE YEAR PLAN 1980-85 : SCHEMES

STATEMENT II

HEAD : OTHER GENERAL ECONOMIC SERVICES—ECONOMIC ADVICE AND STATISTICS

(Rs in lakhs)

Name of the Scheme/Project	1980-85		1981-82				
	1979-80 Actuals	1980-81 Approved Outlay	Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
Statistics							
ST 1.1	Estimation of capital formation ..	0.21	3.08	15.40	—	3.08	—
ST 1.2	Strengthening of District Statistical Offices and head quarters in the State ..	—	7.00	35.00	—	7.00	—
ST 1.3	Purchase of computer timings ..	—	0.20	1.00	—	0.20	—
ST 1.4	Surveys and Studies ..	—	2.04	10.20	—	2.04	—
ST 1.5	Strengthening of Evaluation Section ..	—	1.98	9.90	—	1.98	—
ST 1.6	Training of Statistical personnel ..	0.11	1.70	8.50	—	1.70	—
ST 1.7	Economic Analysis Unit ..	—	1.00	5.00	—	1.00	—
	Total ..	0.32	17.00	85.00	—	17.00	—
Planning Machinery							
PM 2.1	Strengthening of Planning Machinery in the State ..	1.02	10.00	50.00	—	10.00	—
	Grand Total ..	1.34	27.00	135.00	—	27.00	—

SIXTH FIVE-YEAR PLAN 1980-85 SCHEMES

STATEMENT II

HEAD : GENERAL SERVICES

(Rs. in lakh)

Name of the Scheme/Project	1980-85		1981-82				
	1979-80 Actuals	1980-81 Approved Outlay	Proposed Outlay	Capital Content	Proposed Outlay	Capital Content	
1	2	3	4	5	6	7	
Stationery and Printing							
PT 1.1	Opening of Typewriters Workshop at Faridkot Ropar and Kapurthala ..	0.17	0.90	11.00	—	1.50	—
PT 1.2	Strengthening of Central Typewriters workshop ..	0.15	0.30	3.00	—	0.40	—
PT 1.3	(a) Extension in Press Building at Patiala ..	2.67	1.50	4.00	4.00	1.00	1.00
	(b) Construction of quarters for officers and staff at Patiala ..	2.36	0.50	1.00	1.00	0.50	0.50
PT 1.4	(a) Construction of Government Press at S.A.S. Nagar ..	5.78	2.00	4.00	4.00	2.00	2.00
	(b) Machinery and equipment for Government Press S.A.S. Nagar ..	..	3.00	21.00	21.00	2.48	2.48
	(c) Staff required for Government Press at S.A.S. Nagar ..	—	0.68	8.00	—	1.50	—
	(d) Construction of quarter for Care-taker and Chowkidar at S.A.S. Nagar ..	—	—	1.40	1.40	0.50	0.50
PT 1.5	(a) Additional Machinery and Equipment for Govt. Press Patiala ..	0.61	2.00	5.00	5.00	1.00	1.00
	(b) Machinery and Equipment for Ticket Printing Press Patiala ..	—	—	1.00	1.00	—	—
PT 1.6	Apprenticeship Scheme for 10 typewriter Mechanics ..	0.10	0.12	0.60	—	0.12	—
	Total ..	11.84	11.00	60.00	37.40	11.00	7.4
Punjab State Civil Supplies Corporation Ltd.							
PT 2.1	Share capital contribution to PUNSUP ..	10.00	10.00	50.00	—	10.00	—
Public Works							
P.W.3.1	Divisional Offices and Tehsil Buildings ..	46.20	85.00	610.00	610.00	89.00	89.00
PW 3.2	Courts ..	6.63	9.00	57.00	57.00	9.00	9.00
PW 3.3	Patwar-Khanas ..	—	15.00	70.00	70.00	15.00	15.00
PW 3.4	Police Stations ..	18.24	42.00	203.00	203.00	42.00	42.00
PW 3.5	Jails ..	82.42	75.00	360.00	360.00	75.00	75.00
PW 3.6	Circuit Houses/Rest Houses ..	25.57	20.00	100.00	100.00	20.00	20.00
	Total ..	179.06	246.00	1400.00	1400.00	250.00	250.00
Administrative Training Institute							
4.1	Establishment of Administrative Training Institute ..	10.00	9.00	50.00	50.00	9.00	9.00

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five Year Plan 1980—85		1979-80 Achievements (P)	1980-81 Target	1981-82 Anticipated achievements	1981-82 Proposed target
			1979-80 Base year level	1984-85 Terminal year Target				
1	2	3	4	5	6	7	8	9
AGRICULTURE AND ALLIED SERVICE								
1. Production of Foodgrains								
(a)	Rice	000' tonnes	2880	4000	3056	3300	3300	3500
(b)	Wheat	.. ..	7322	9000	7900	8000	8500	8500
(c)	Jowar	.. ..	1	2	1	1	2	2
(d)	B jra	.. ..	88	40	47	90	100	60
(e)	Milze	.. ..	682	900	672	800	800	830
(f)	Other Cereals	.. ..	65	40	74	60	50	40
(g)	Pulses	.. ..	287	318	205	249	248	268
Total Foodgrains			11325	14300	11955	12500	13000	13200
2. Commercial Crops								
(a)	Cotton	000' bales.	1256	1500	1213	1350	1300	1350
(b)	Jute and Mesta	.. ..	—	—	—	—	—	—
(c)	Sugar cane (cane)	000' tonnes	5050	7500	4040	5500	5500	6500
(d)	Oilseeds : (I) Major oil seeds	.. ..	188	350	162	300	235	300
(i)	Groundnut	000' tonnes	116	175	81	165	100	160
(ii)	Castor Seed	.. ..	—	—	—	—	—	—
(iii)	Sesamum	.. ..	4	6	5	5	5	6
(iv)	Rapeseed & Mustard	.. ..	67	168	75	128	128	132
(v)	Linseed	.. ..	1	1	1	2	2	2
(vi)	Others	.. ..	—	—	—	—	—	—
Chemical Fertilizers								
(a)	Nitrogenous (N)	000' tonnes	409	750	477	600	550	600
(b)	Phosphatic (P)	.. ..	146	300	179	250	210	250
(c)	Potassic (K)	.. ..	29	50	30	50	35	50
Total			584	1100	686	900	795	900

SIXTH FIVE-YEAR PLAN 1980-85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five year Plan 1980-85		1979-80 Achievements	1980-81		1981-82 Proposed Targets
			1979-80 Base year level	1984-85 Terminal Year Targets		Target	Anticipated Achievements	
1	2	3	4	5	6	7	8	9
4.	Plant Protection	.. 000' tonnes of technical grade material	4.2	5.00	4.2	4.5	4.5	4.5
5.	Area under distribution of :							
	(a) Fertilizers	.. 000' Hects						
	(b) Pesticides "						
6.	Area Under High Yielding Varieties				N.A.			
	(a) Paddy	.. 000' hecets.	948	1200	1076	1050	1100	1150
	(b) Wheat	.. .. "	2620	2900	2774	2600	2800	2 825
	(c) Jowar "	—	—	—	—	—	—
	(d) Bajra	.. .. "	33	40	21	50	35	35
	(e) Maize	.. .. "	76	110	72	100	100	105
	Total	.. .. "	3677	4250	3943	3800	4035	4115
7.	Soil Conservation							
	Area Covered	.. 000' Hects.	19	25	19	22	22	20
8.	Cropped Area							
	Net	000' Hects.	4212	4600	4250	4230	4300	4350
	(b) Gross	..	6557	7250	6650	6600	6730	6850
9.	Agricultural Marketing							
	(a) Total No. of Markets at Mandi Level	.. Nos (Cumulative)	113	N.A.	113	N.A.	118	N.A.
	(b) Regulated Markets	.. .. "	113	N.A.	113	115	118	N.A.
	(c) Sub-market yards	.. .. "	472	N.A.	472	N.A.	494	N.A.
	(d) Sub-market yards developed	.. .. "	472	—	472	N.A.	494	N.A.
10.	Animal Husbandry & Dairy Products							
	(i) Milk	.. 000' Tonnes	3059	4254	3059	3236	3236	3514
	(ii) Eggs	.. Millions	474	782	474	514	514	564
	(iii) Wool	.. Lac Kgs.	12.20	16.50	12.20	13.13	13.13	14.06
11.	Animal Husbandry Programmes							
	(i) Intensive Cattle Dev. Project	.. Nos. Cumulative)	5	5	5	5	5	5
	(ii) No. of Frozen Semen Bull Stations	.. Nos. Cumulative	3	4	3	4	3	4

SIXTH FIVE-YEAR PLAN 1980-85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five Year Plan 1980-85		1979-80 Achievements	1980-81		1981-82 Proposed Targets
			1979-80 Base year level	1984-85 Terminal Year Target		Target	Anticipated Achievements	
1	2	3	4	5	6	7	8	9
(iii)	No. of inseminations performed with exotic Bull Semen (annual) ..	In Lac (Cumulative)	3.74	6.00	3.74	4.50	4.50	5.00
(iv)	Estt. of Sheep Breeding Farms	Nos. ..	2	3	2	2	2	3
(v)	Sheep & Wool Extension Centres	Ncs. ..	38	38	38	38	38	38
(vi)	Intensive Sheep Dev. Projects	Nos. ..	—	—	—	—	—	—
(vii)	Intensive Egg & Poultry Production-cum-Marketing Centres	Nos. ..	3	3	3	3	3	3
(viii)	Estt. of Fodder Seed Production Farms	Nos. ..	2	2	2	2	2	2
(ix)(a)	Vety Hospitals	Nos. (Cumulative)	348	398	348	348	348	358
(b)	Vety. Hospitals at Focal Points, under IRDP	Nos. ..	308	413	308	413	413	413
(x)	Vety. Dispensaries	Nos. ..	360	410*	360	460	460	450
(xi)	Vety. Stockmen Centres	Nos. ..	579	579	579	579	579	579
12. Dairy Programmes								
(i)	Fluid Milk Plants including Composite & feeder/balancing Milk Plants in operation.	Nos. (Cumulative)	5	15	5	5	5	7
(ii)	Milk products factories including creamerie, in operation	.. ..	2	15	2	2	3	5
(iii)	Dairy Cooperative Unions	.. ..	7	11	7	11	9	11
13. Fisheries								
(i)	Fish Production	000 tonnes—						
(a)	Inland	.. 000' tonnes	2.6	3.5	2.6	3.0	2.8	3.0
(b)	Marine	.. 000' tonnes	—	—	—	—	—	—
Total			2.6	3.5	2.6	3.0	2.8	3.0
(ii)	Mechanised boats	.. Nos (Cumulative)	—	—	—	—	—	—
(iii)	Deep sea Fishing Vessels	.. Nos (Cumulative)	—	—	—	—	—	—
(iv)	Fish Seed produced	.. Million	—	—	—	—	—	—
(a)	Fry	.. Million	—	—	—	—	—	—
(b)	Fingerlings	.. ..	1.6	5.0	1.6	2.0	2.0	2.5

*100 new Dispensaries will be opened while 50 existing ones will be upgraded into hospitals.

SIXTH FIVE-YEAR PLAN 1980—85
STATEMENT III
TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five Year Plan 1980-85		1979-80 Achievements	1980-81		1981-82 Proposed targets
			1979-80 Base Year level	1984-85 Terminal year target		Target	Anticipated achievements	
1	2	3	4	5	6	7	8	9
	(v) (a) Fish Seed Farms	.. Nos. Cumulative	6	10	6	7	7	8
	(b) Nursery Area	.. Hectares ..	13.00	30.00	13.00	14.00	14.00	18.00
14. Forestry								
	(a) Plantation of quick growing species	.. 000' Hect.	—	—	—	—	—	—
	(b) Economic and Commercial plantations	.. ..	5.00	14.80	4.99	6.00	10.70	14.80
	(c) Farm Forestry	.. ..	4.80	6.00	4.80	4.40	5.40	6.00
II COOPERATION								
15. Cooperation								
	(a) Short term loans	.. Rs. crores	154.17	300.00	154.17	181.00	181.00	200.00
	(b) Medium Term loans	.. ..	—	5.85	—	4.00	4.00	4.45
	(c) Long term loans	.. ..	22.97	61.60	22.97	52.00	37.00	40.20
	(d) Retail sales of fertilisers	.. ..	92.88	171.50	92.88	102.16	127.00	150.00
	(e) Agricultural produce marketed	.. ..	125.81	270.00	125.81	180.00	180.00	230.00
	(f) Retail sale of consumer goods by urban consumers cooperatives	Rs. Crores	1.95	5.00	1.95	4.00	3.00	4.00
	(g) Retail sale of consumer goods through cooperatives in rural areas.	.. ..	20.58	40.10	20.58	22.00	32.00	40.00
	(h) Cooperative storage	.. Lakh tonnes	72.75	96.80	72.75	73.95	74.36	77.37
	(i) Processing units	.. No (Cumulative)						
	(1) Organised	.. ..	19	44	19	29	29	34
	(2) Installed	.. ..	19	34	19	19	19	24
	(j) Deposits of Central Cooperative Banks	Rs. crores	190	290	190	230	230	250
	(k) Over dues of short term agricultural loans							
	(i) Central Cooperative Banks	.. (% of demand)	22	18	22	20	20	20
	(ii) Primary agricultural Service Societies	.. ..	24	18	24	22	22	21
III. Irrigation and Flood Control								
	(a) Minor Irrigation	.. 1000 Hect.						
	(i) Ground Water	} ..	1975	2110	1975	2005	2005	2030
	(ii) Surface Water							
	Total	..	1975	2110	1975	2005	2005	2030

SIXTH FIVE-YEAR PLAN 1980-85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five year Plan 1980-85			1980-81	1981-82	
			1979-80 Base Year level	1984-85 Terminal year target	1979-80 Achievement	Target	Anticipated achievement	Proposed target
1	2	3	4	5	6	7	8	9
(b) Major and Medium Irrigation —								
	(i) Potential created	1000 Hect.	405	619	405	414	414	453
	(ii) Utilisation	.. ..	401	619	401	412	412	431
	(c) Flood Control Area Provided with protection	1000 hect.	2520	2640	2520	2555	2555	2580
IV. Power								
	(i) Installed Capacity (cumulative)	MW	1556	2450	1537	1549	1537	1599
	(ii) Electricity Generated (during the year)	MKWH	5433	8923	5291	5970	5809	6304
	(iii) Electricity sold (during the year)	MKWH	4292	7138	4084	4802	4560	5012
	(iv) Transmission lines (cumulative) (220 KV and above)	Km.	955	1655	937	1269	1035	1290
(V) Rural Electrification—								
	(a) Villages Electrified (cumulative)	Nos.	All the 12126 inhabited villages of State electrified by 10th May, 1976.					
	(b) Pumpsets energised by electricity (during the year)	Nos.	30000	20000	29082	28000	15000	15000
	(c) Tubewells energised by Electricity (cumulative)	Nos.	263185	347267	262267	290267	277267	292267
V. VILLAGE AND SMALL INDUSTRIES								
1. Small Scale Industries								
	(a) Units regd.	Nos. 1000 (Cumulative)	54.64	88.64	5.25	6.00	6.00	6.40
	(b) Production Crores	Rs. crores	653.13	1097.68	653.13	730.07	730.07	812.89
	(c) Persons Employed	Nos. 1000	333	554	34	39	39	41.6
2. Industrial Estates/Areas								
	(a) Estates/Areas functioning	Nos.	13	21	13	15	15	18
	(b) No of units	Nos.	242	2060	242	300	300	400
	(c) Production	Rs. lakhs	10450	25000	10450	12000	12000	15000
	(d) Employment	Nos. 1000	11500	30900	11500	13000	13000	15000
3. Handloom Industry								
	(a) Production	M. Metres	30	40	30	32	32	34
	(b) Employment	Nos. 1000	20	27	20	22	22	23
4. Powerloom Industry								
	(a) Production	M. Metres	175	200	175	180	180	185
	(b) Employment	Nos. 1000	51	59	51	53	53	54

SIXTH FIVE-YEAR PLAN 1980-85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five year Plan 1980-85			1980-81		1981-82
			1979-80 Base year level	1984-85 Terminal target	1979-80 Achieve- ments	Targets	Anticipa- pated achieve- ment	Proposed target
1	2	3	4	5	6	7	8	9
5. Sericulture								
	(a) Production of raw silk	1000 Kgs. (Cumulative)	2.5	3.5	2.5	2.7	2.7	2.8
	(b) Employment	No.s 1000	*0.075 **1.50	0.120 1.80	0.075 1.50	0.091 1.55	0.091 1.55	0.100 1.60
6. Coir Industry								
	(i) Production of Yarn	1000 Tonnes	}	Nil				
	(ii) Production of other items	1000						
	(iii) Employment	Nos. 1000						
7. Handicrafts (Department Scheme)								
	(i) Production*	Rs. lakhs	—	—	—	—	—	—
	(ii) Employment	Nos. 1000	(It is a Training Programme)					
8. Village Industries (Under IRDP)								
(a) Within the purview of KVIC —								
	(i) Production	Rs. lakhs	400	1500	400	550	550	630
	(ii) Employment	Nos. 1000	5.5	6.0	4.0	5.4	5.4	5.4
(b) Outside the purview of KVIC —								
	(i) Production	Rs. lakhs	300	2000	300	400	400	800
	(ii) Employment	Nos. 1000	3.8	5.00	3.4	4.6	4.6	5.00
9 District Industries Centres								
	(i) No. of Units assisted	Nos.	}					Not available
	(ii) No. of artisans assisted	Nos. 1000						
	(iii) Financial assistance rendered to to Industrial Units	Rs. Lakhs						
VI. Transport and Communication								
Roads at the end of the year—								
(1) State Highways—								
	(a) Surfaced	Km	1900	1900	1900	1900	1900	1900
	(b) Unsurfaced	..	—	—	—	—	—	—
	(c) Total	..	1900	1900	1900	1900	1900	1900
(2) Major District Roads—								
	(a) Surfaced	..	2100	2100	2100	2100	2100	2100
	(b) Unsurfaced	..	—	—	—	—	—	—
	(c) Total	..	2100	2100	2100	2100	2100	2100

Notes:— Production is at constant prices with 1973-74 as base.

*Full Time.

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five Year Plan 1980—85		1979-80		1980-81	1981-82	
			1979-80 Base Year Level	1984-85 Terminal year target	Achievements	Target	Anticipated Achievement	Proposed Targets	
1	2	3	4	5	6	7	8	9	
(3) Other District Roads—									
	(a) Surfaced	Km.	2388	2448	2388	2398	2394	2404	
	(b) Unsurfaced	..	—	—	—	—	—	—	
	(c) Total	..	2388	2448	2388	2398	2394	2404	
(4) Village Roads—									
	(a) Surfaced	..	24524*	25824**	24524	24899	24899	25224	
	(b) Unsurfaced	..	—	—	—	—	—	—	
	(c) Total	..	24524	25824	24524	24899	24899	25224	
(5) Total Roads—									
	(a) Surfaced	..	30912	32272	30912	31297	31293	31628	
	(b) Unsurfaced	..	—	—	—	—	—	—	
	(c) Total	..	30912	32272	30912	31297	31293	31628	
Vehicles owned by State undertakings—									
(a) PRTC—									
	(i) Fleet strength at the end of the year	..	No.	898	1596	68***	1293	1293	1358
	(ii) Route kilometrage operated daily	212134	359167	20776	268521	268521	318507
(b) Punjab Roadways—									
	(i) Fleet strength at the end of the year	1925	2435	90***	2015	2005	2105
	(ii) Route kilometrage operated daily	430214	523159	211	412649	412549	431551
VII EDUCATION									
A. ELEMENTARY EDUCATION									
1 Classes I—V (age -group 6—10)									
	(i) Enrolment	..	1000						
	(a) Boys	1157	1064	1218	1078	1078	1078
	(b) Girls	963	907	982	897	897	897
	(c) Total	2120	1971	2202	1975	1975	1975

*Includes 1374 Kms. of interlinks.

**Includes 1938 Kms. of interlinks.

***Net addition made during the year.

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five-year Plan 1980—85		1979-80	1980-81	1981-82	
			1979-80 Base year level	1981--85 Terminal year Target	Achievements	Targets	Anticipated Achievement	Proposed Targets
	1	2	3	4	5	6	7	8
	(ii) Percentage to age group							
	(a) Boys	..	117.10	109.69	113.90	109.88	109.88	109.88
	(b) Girls	..	107.59	100.00	104.23	100.22	100.22	100.22
	(c) Total	..	112.64	105.00	109.29	105.55	105.55	105.55
2	Classes VI—VIII (age-group 11—14)							
	II. Enrolment	..	1000					
	(a) Boys	..	"	407	561	407	425	462
	(b) Girls	..	"	254	349	254	265	388
	(c) Total	..	"	661	910	661	690	750
	(ii) Percentage to age-group**							
	(a) Boys	..	67.72	97.26	67.72	70.18	70.18	75.34
	(b) Girls	..	48.20	66.20	48.20	49.83	49.83	53.20
	(c) Total	..	58.56	82.43	53.56	60.67	60.67	64.96
	B. SECONDARY EDUCATION							
	Class IX-XI	..	1000					
	(a) Boys	..		186	263	186	191	213
	(b) Girls	..		110	157	110	113	127
	(c) Total	..		296	420	296	304	340
	C. ENROLMENT IN VOCATIONAL COURSES							
	1 Post-elementary Stage :							
	(a) Total	..	Nos.	9187	33000	9200	9200	9200
	(b) Girls	..	Nos.	578	—	—	—	—
	2 Post High School Stage							
	(a) Total	..	Nos.	2771	3300	2771	2800	2800
	(b) Girls	..	No.s	130	—	231	—	—
	D Enrolment in Non-Formal (Part-time/Continuation Classes)							
	(i) Age-group 6—10							
	(a) Total	..	Nos.	—	—	—	—	—
	(b) Girls	..	Nos.	—	—	—	—	—
	(ii) Age-group 11—13							
	(a) Total	..	Nos.	5	1200	5	600	600
	(b) Girls	..	No.s	—	—	—	—	—

*The information for 1978-79 should be the same as supplied to the Ministry of Education for 'Selected Educational Statistics.

**Based on population figures estimated by the Registrar General of India.

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five-year Plan 1980—85		1979-80	1980-81	1981-82	
			1979-80 Base year level	1984-85 Terminal target	Achievement Target	Anticipated Achievement	Proposed Target	
1	2	3	4	5	6	7	8	9
E. ADULT EDUCATION								
	(a) Number of Participants (age-group 15—35)	.. 1000	5.7	119.7	5.7	83.7	83.7	119.7
	(b) No. of Centres opened under—							
	(i) Central Programme	.. Nos.	40	2300	40	2300	2300	2300
	(ii) States Programme	.. No.s	23	1690	23	1690	1690	1690
	(iii) Voluntary Agencies	.. ..	—	—	—	—	—	—
F. TEACHERS								
	(i) Primary Classes I—V	.. Nos.	14069	14089	14079	14079	14079	14089
	(ii) Middle Classes VI—VIII	.. "	22468	—	22468	23263	23263	23263
	(iii) Secondary Classes IX—XI	.. "	16993	—	16993	18013	18013	18013
VIII HEALTH AND FAMILY WELFARE								
1.	Hospitals and Dispensaries including upgradation	Nos (Cumulative)						
	(a) Urban	.. "	320	346	19	6	6	5
	(b) Rural	.. "	1207	1407	280	200	200	—
8.	Beds							
	(a) Urban Hospitals and Dispensaries	.. "	11535	11656	253	41	41	20
	(b) Rural Hospitals and Dispensaries	.. "	7554	8354	1660	800	800	—
	(c) Bed population Ratio	.. No. (per 1000)	1.17	1.10	1.17	1.19	1.19	1.17
3.	Primary Health Centres							
	(a) Main Centres	.. Nos. (Cumulative)	129	130	—	1	1	—
	(b) Sub-Centres	.. Nos.	2593	2602	1000	9 (under USAID Project)	9	—
	(c) Subsidiary Health Centres	.. "	1096	1296	250	200	200	—
4.	Nurse Doctor Ratio	.. "	1.62 (Per 3 doctors)	1.49	1.62	1.53	1.53	1.50

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENT

Serial No.	Item	Unit	Five-year Plan 1980—85		1979-80	1980-81	1981-82	
			1979-80 Base year level	1984-85 Terminal target	Achievement	Target	Anticipated Achievement	Proposed Target
1	2	3	4	5	6	7	8	9
5. Training of Aufferiliary Nurse Midwives—								
	Institutes	Nos.	4	7	—	2	2	1
	Annual Intake	(Cumulative)	160	280	—	80	80	40
	Annual Out-turn	"	160	280	—	80	80	40
6. Control of Diseases—								
	(a) T.B. Clinics Units	"	13	13	—	—	—	—
	(b) Leprosy Control Units	"	12	12	—	—	—	—
	(c) V.D. Clinics	"	—	—	—	—	—	—
	(d) Filaria Units	"	—	—	—	—	—	—
	(e) SFT Centres	"	—	—	—	—	—	—
	(f) District T.B. Centres	"	included at (a)		—	—	—	—
	(g) T.B. Isolation	"	848	848	—	—	—	—
	(h) Cholera Combat Teams	"	—	—	—	—	—	—
	(i) STD Clinics (V.D. Clinics)	"	—	—	—	—	—	—
	(j) Filaria Control Units	"	—	—	—	—	—	—
	(k) National Scheme for Prevention of Blindness	"	122	140	30	18	18	—
	(i) Mobile Units set up	"	3	3	—	—	—	—
	(ii) P.H.Cs. assisted	"	110	128	30	18	18	—
	(iii) Ophthalmic Departments assists	"	—	1	—	1	1	—
	7. Maternity and Child Welfare Centres	"	88	88	—	—	—	—
	8. Doctor Population ratio	"	0.18	0.18	0.18	0.19	0.19	0.19
			(No. Per 1000 Population)					
9. Training and Employment of Multi-purpose Workers—								
	(a) Districts covered	"	12	12	5	—	—	—
	(b) Trainees Trained	"	1293	1743	256	448	448	—
	(c) Workers Trained	"	3548	5200	2043	1039	1039	—
10. Community Health Volunteers Scheme—								
	(a) Community Health Volunteers selected	"	2960	2960	—	—	—	—
	(b) CHV trained	"	2960	2960	—	—	—	—
	(e) Working in the field	"	This scheme was discontinued with effect from 1st April, 1979.					

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENT

Sr. No.	Item	Unit	Five Year Plan 1980-85		1979-80 Achievements	1980-81		1981-82 Proposed Targets
			1979-80 Base Year level	1984-85 Terminal Year targets		Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9
11. No. of Voluntary Sterilisations done—								
	(a) Tubectomy	1000	} 65000	93011	65700	65700	65700	40000
	(b) Vesectomy	1000						
	(c) No. of IUD Insurtions	1000	44000	81817	25600	25600	25600	38000
	(d) Conventional Contraceptives	1000 Pcs.	122000	233170	100700	100700	100700	100700
	(i) Free Supply							
	(ii) Commercial Supply	"	Not concerned					
12. M.C.H. Benefits—								
	(a) Immunisation of infants and pre-school Children with DPI	Nos. (Commulative) (% of age group)	45000	Targets are to be fixed by GOI	270000	610000	610000	Targets are to be fixed by GOI
	(b) Immunisation of School going Children with DPT	"	400000	Do	252615	240000	240000	Do
	(c) Prophylaxia against Nutritional anemia among	Nos. (Commulative)						
	(i) Mothers	"	260000	Not fixed	234034	300000	300000	Not fixed
	(ii) Children	"	220000	Do	190915	300000	300000	Do
	(d) Prophylaxia against Vitamin 'A' deficiency	"	400000	Do	355786	500000	500000	Do
		Nos. (% of age group)		1st doze	197064			
				2nd doze				
13. Family Welfare—								
	(a) Rural F.W. Centres	Nos. (Commulative)	128	129	—	—	—	1
	(b) District F.W. Bureau	"	12	12	—	—	—	—
	(c) City F.W. Centres	"	—	3	—	—	—	1
	(d) Urban F.W. Centres	"	14	65	—	16	16	16
	(e) Post Martum Centres	"	16	53	One Up-graded from C' type to 'A' type	12	12	10
	(f) Regional F.W. Training Centres	"	1	1	—	—	—	—
	(g) A N.M. Training Schools	"	4	7	—	2	2	1

SIXTH FIVE YEAR PLAN 1980—85
STATEMENT III
TARGETS OF PRODUCTIONS AND PHYSICAL ACHIEVEMENT

Serial No.	Item	Unit	Five Year Plan 1980—85		1979-80		1980-81	1981-82
			1979-80 Base Year Level	1984-85 Terminal Year Target	Achievements	Targets	Anticipated Achievements	Proposed Target
1	2	3	4	5	6	7	8	9
IX. SEWERAGE & WATER SUPPLY								
A. (i) Urban Water Supply								
Corporation Towns (Townwise)								
Ludhiana Town—								
	(i) Augmentation of Water-Supply	.. Mld	139.38	196.38	108.65	152.09	152.09	164.80
	(ii) Population covered	.. lacs	5.11	7.00	4.75	5.73	5.73	6.50
Amritsar Town—								
	(i) Augmentation of Water-Supply	.. Mld	178.55	210.25	100.00	192.96	192.96	207.27
	(ii) Population covered	.. lacs	5.28	5.96	3.48	5.53	5.53	5.63
Jullundur Town—								
	(i) Augmentation of Water-Supply	.. Mld	66.97	105.10	22.37	75.495	75.495	85.01
	(ii) Population covered	.. lacs	2.90	3.98	2.86	3.20	3.20	3.57
Other Towns—								
(a) Original Schemes—								
	(i) Towns covered	.. Nos.	76	78 (Cumulative)	5 (Partially)	—	—	2 (Partially)
	(ii) Population covered	.. lacs	14.83	15.22	0.40	—	—	0.39*
Augmentation Schemes—								
	(i) Towns covered	.. Nos.	70	91 (Partially)	50 (Partially)	8 (Partially)	8 (Partially)	18 (Partially)
	(ii) Population covered	.. lacs	(Part population		0.68	1.44	1.44	3.64*
II. URBAN SANITATION								
B. Sewerage Schemes								
(i) Corporation Towns (Townwise)								
Ludhiana— Town—								
	(i) Augmentation capacity	.. Mld	109.08	156.98	81.49	120.87	120.87	130.88
	(ii) Population covered	.. lacs	2.86	6.30	1.99	3.63	3.63	4.85
Amritsar Town—								
	(i) Augmentation capacity	.. Mld	133.92	157.67	75.01	114.71	144.71	155.53
	(ii) Population covered	.. lacs	1.62	3.80	0.83	2.38	2.38	3.17

*Figures are provisional.

SIXTH FIVE YEAR PLAN 1980-85
STATEMENT III
TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five Plan 1980-85		1979-80	1980-81		1981-82
			1979-80 Base Year level	1984-85 Terminal Year Target	Achievements	Targets	Anticipated Achievements	Proposed Target
1	2	3	4	5	6	7	8	9
Jullundur Town—								
(i)	Augmentatin capacity	.. Mld	50.23	78.83	16.78	56.62	56.62	63.76
(ii)	Population capacity	.. lacs	1.00	2.98	0.84	1.89	1.89	2.50
Other Towns—								
(a) Original Schemes—								
(i)	Towns covered	... Nos.	52	83	4 (Partially)	4 (Partially)	4 (Partially)	5 (Partially)
(ii)	Population covered	... lacs	8.27	22.28*	0.40	0.40	0.40	0.60*
(b) Augmentation Schemes—								
(i)	Towns covere	... Nos.	41	60	40	40	40	10
(ii)	Population covered	... lacs	(Part population)		0.50	0.50	0.50	0.20*
D. Drainage Schemes—								
A. Original Schemes—								
(i)	Towns covered	... Nos.	} Covered in 'B' above					
(ii)	Populaion covered	... lacs						
B. Augmentation Schemes—								
(i)	Towns covered	... Nos.	} Covered in 'B' above					
(i)	Population covred	... lacs						
C. Latrine conversion Programme—								
(i)	Latrines converted	... Nos.	} Covered in 'B' above					
(ii)	Towns coverd	... Nos.						
(iii)	Population covered	... lacs						
D. RURAL WATER SUPPLY								
1. First Priority Problem Villages (i. e. Villages identified in 1972 Survey)								
(a) Piped WaterSupply :								
(i)	Villages covered	.. Nos.	1945	2775	135	135	80	100
(ii)	Population covered	... Lakhs	1.81	1.48	1.81	1.68	0.94	0.94

*Figures are provisional.

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT III

TARGETS PRODUCTION AND PHYSICAL ACHIEVEMENT

Serial No.	Item	Unit	Five Year Plan 1980—85		1980-81	1980-81	1981-82	
			1979-80 Base Year level	1984-85 Terminal Year target	Achievements	Targets	Anticipated Achievements	Proposed Target
1	2	3	4	5	6	7	8	9
	(b) Power Pump Tubewells—							
	(i) Villages covered	.. Nos.	}					
	(ii) Population covered	.. lakhs						
	(c) Hand-pump/Tubewells—							
	(i) Villages covered	.. Nos.						
	(ii) Population covered	.. Lakhs						
	(d) Sanitary Wells—					N.A.		
	(i) Villages covered	.. Nos.						
	(ii) Population covered	.. Lakhs						
	(e) Open Dug Wells—							
	(i) Villages covered	.. Nos.						
	(ii) Population covered	.. Lakhs						
	2. Other Rural Water Supply Programme—							
	(a) Piped Water Supply—							
	(i) Villages covered	.. Nos.	}					
	(ii) Population covered	.. Lakhs						
	(b) Power Pump Tubewells —							
	(i) Villages covered	.. Nos.						
	(ii) Population covered	.. Lakhs						
	(c) Hand-Pump tubewells—							
	(i) Villages covered	.. Nos.						
	(ii) Population covered	.. Lakhs						
	(d) Sanitary Wells—					N.A.		
	(i) Villages covered	.. No						
	(ii) Population covered	.. Lakhs						
	(e) Open Dug-Wells—							
	(i) Villages covered	.. Nos.						
	(ii) Population covered	Lakhs						

SIXTH FIVE YEAR PLAN 1980-85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Five Year Plan 1980-85		1979-80 Achievements	1980-81		1981-82 Proposed Target
			1979-80 Base year level	1984-85 Terminal year target		Targets	Anticipated Achievements	
1	2	3	4	5	6	7	8	9
X. HOUSING								
A. Rural Housing :								
1.	Rural House-sites Scheme (R.M.N.P.)	No.	About* 3 lakhs	About 3 lakhs	—	—	—	—
2.	Houses for rural home-less (RMNP)	No.	778	31778 including 6611 (spill over houses)	778	3389+ 6611 (spill over houses)	3389+ 6611 (spill over houses)	4000
3.	Village Housing Project Scheme	Loanees	5058	8458	—	1000	1000	600
B. Urban Housing :								
1. Subsidised Industrial Housing Scheme—								
	Government Sector	Houses	2440	2668	—	60	60	40
	Private Co-operative Sector	Do	2463	2847	—	64	64	64
	Total		4903	5515	—	124	124	104
2.	Low Income Group Housing Scheme	Houses	28992	34992	1100	1200	1200	1200
3.	Middle Income Group Housing Scheme	Do	1283	1583	—	—	—	100
4.	Rental Housing Scheme—Houses for Govt. Employees—							
	(a) At District/Tehsil headquarters and at other places	Do	1658	3580 including 754 spill over houses	Nil	628	740	80
	(b) At Focal Points	Do	Nil.	696 including 478 spill over houses	Nil	158	218	—
	(c) At Chandigarh	Do	Nil	1128 including 718 spill over	64 houses under const.	291	410	—
	Total		1658	5404	64	1077	1368	80
6	Land Acquisition and area Development—							
	(a) Area Acquired		N.A.	N.A.	—	—	—	N.A.
	(b) Area Developed		N.A.	N.A.	430	260	260	N.A.
8	Slum Clearance/Improvement		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
8	House Building advance to Govt servants	Loanees	N.A.	2925	1131	900	900	600
9	Loans to other parties for building houses in urban estates	Loanees	1491	1941	239	90	90	90
10	Police Housing	Houses	2661+ 3330 barrack accommo- dation	4306 houses + 3880 barrack accommo- dation	443 houses under const.	870	546 houses + 550 barrack accommo- dation	200

*All the eligible persons were provided free house sites

SIXTH FIVE YEAR PLAN 1980-85
STATEMENT III
TARGETS OF PRODUCTIONS AND PHYSICAL ACHIEVEMENT

Serial No.	Item	Unit	Five year Plan 1980-85		1979-80	1980-81		1981-82
			1979-80 Base year level	1984-85 Terminal year target	Achievements	Targets	Anticipated achievements	Proposed targets
1	2	3	4	5	6	7	8	9
XI. LABOUR AND LABOUR WELFARE								
A. Craftsman Training								
1	No. of Industrial Training Institution (ITIs)	Nos. (cumulative)	38	39	9	1	1	—
2	Intake capacity	Ditto	12316	12316	1544	—	—	—
3	No. of persons undergoing training	Ditto	12316	12316	—	—	—	—
4	Out-turn	Ditto	12316	12316	—	—	—	—
B. Apprenticeship Training								
1	Training places located	Ditto	4000	6000	2451	4000	4000	4500
2	Apprentices trained	Ditto	2451	6000	2451	4000	4000	4500
C. No. of Employment Exchanges								
D. Labour Welfare								
1	No. of Labour Welfare Centres	Ditto	—	—	—	—	—	—
2	Bonded Labour Rehabilitated	Persons	—	—	—	—	—	—
XII. WELFARE OF BACKWARD CLASSES								
1 Pre-metric education incentives—								
	(i) Scholarships/stipends	Nos.]	30000	213900	30,000	31000	31000	31000
	(ii) Other incentives like boarding, grants, books/stationery & uniforms	No. of students]	100000	903868	100000	100000	98000	146102
	(ii) Ashram Schools	Nos. (cumulative)	—	—	—	—	—	—
2 Economic Aid—								
	(i) For Agriculture	No. of families	100	1220	100	200	200	200
	(ii) For Animal Husbandry	Ditto	—	—	—	—	—	—
	(iii) For Cottage Industry	Ditto	—	—	—	—	—	—
3	(i) House-sites	No. of families (Cumulative)	—	—	—	—	—	—
	(ii) Drinking Water Wells/Tanks	Nos	763	5,563	763	700	700	1050
XIII. SOCIAL WELFARE								
1 Child Welfare—								
	(a) Schemes under IYC	No. of Units/ total	2625	7000	1238	5000	5000	5500
	(b) I.C.D.S.	No. of beneficiaries (cumulative)	—	—	—	4000	4000	N.A.
	(c) Balwadis	Ditto	—	—	—	—	—	—
	(d) Creches	Ditto	—	—	—	—	—	—

SIXTH FIVE YEAR PLAN 1980-85

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENT

Serial No.	Item	Units	Five year Plan 1980-85		1979-80	1980-81	1981-82	
			1279-80 Base Year level	1984-85 Terminal year target	Achievement	Target	Antici- pated achie- vements	Proposed targets
1	2	3	4	5	6	7	8	9
2 Women Welfare :								
	(a) Training-cum-Production Centres ..		—	—	—	—	—	—
	(b) Hostels for Working Women		—	—	—	—	—	—
3 Welfare of the Handicapped :								
	(a) Programmes for the Bilnd ...	Nos.	—	—	—	—	—	—
	(b) Programmes for the Deaf ...	Ditto	—	—	—	—	—	—
	(c) Programmes for the Orthopaedically handicapped	Ditto	140	525	94	105	105	100
	(d) Programmes for the mantally retarded	Ditto	—	—	—	—	—	—

SIXTH FIVE YEAR PLAN 1980-85

STATEMENT IV

REVISED MINIMUM NEEDS PROGRAMME—OUTLAY AND EXPENDITURE

Name of the Programme	1979-80	1980-81	1980-85		1981-82	
	Actuals	Approved outlay	Proposed outlay	Capital content	Proposed outlay	Capital content
1	2	3	4	5	6	7
EDUCATION						
(1) Elementary Education—						
(a) Classes I—V (age group 6—11 years)	31.24	140.00	726.00	510.00	138.00	110.00
(b) Classes VI—VIII (age group 11—14 years)	32.77	175.75	1386.05	34.20	283.84	23.40
(2) Adult Education	—	19.10	100.00	—	20.60	—
Total	64.01	334.85	2212.05	544.20	442.44	133.40
PUBLIC HEALTH AND SANITATION						
Rural Health—						
PH 1.1 Completion and Improvement of Primary Health Centres	23.60	1.00	48.00	45.00	3.95	3.75
PH 1.2 Establishment of 25-bedded block level Rural Hospitals	110.61	70.00	300.00	—	55.00	—
PH 1.3 Opening of Subsidiary Health Centres in Rural Areas	38.98	194.50	1142.00	250.00	247.90	50.00
PH 1.4 Improvement of Subsidiary Health Centres	6.73	1.00	1.00	1.00	—	—
PH 1.5 Establishment of Dental Clinics in each block	2.15	6.00	50.00	—	8.50	—
PH 1.6 Providing Specialists teams in Rural Areas	0.73	7.25	22.00	—	4.00	—
Total	*184.86	279.75	1563.00	296.00	319.35	53.75
RURAL WATER SUPPLY						
Rural Water Supply Scheme	481.16	500.00	2800.00	2800.00	800.00	800.00
NUTRITION						
(i) Special Nutrition Programme	14.62	16.00	80.00	—	16.00	..
(ii) I.C.D.S Projects						
Rural Roads	550.05	375.00	2000.00	2000.00	410.00	410.00
Zila Parishad Roads	23.35	—	80.00	80.00	20.00	20.00
RURAL HOUSING						
Houses for rural home-less	70.00	170.00	1200.00	1200.00	285.00	285.00
URBAN DEVELOPMENT						
Slum Clearance/Improvement	2.00	20.00	100.00	100.00	20.00	20.00

PH 1.2 *Includes Rs, 2.06 lakh incurred under the Scheme Improvement of Sub-Centres

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT V

TARGETS AND PHYSICAL ACHIEVEMENTS— PHYSICAL PROGRAMMES—RMNP

Serial No.	Head of Development	Unit	Five year plan 1980—85		1979-80	1980-81		1981-82
			1979-80 Base year level target	1984-85 Terminal year	Achievement	Target	Anticipated achievement	Proposed Target
1	2	3	4	5	6	7	8	9
EDUCATION								
1. Elementary Education—								
	(a) Classes I-V (Age-group 6—11 years)	000	2202	1971	2202	1975	1975	1975
	(b) Classes VI—VIII (Age-group 11—14)	000	661	910	661	690	690	750
2 Adult Education								
	(a) No. of participants (Age-group 15—35 years)	No.	36000	36000	36000	36000	36000	36000
	(b) No. of Centres—							
	(i) Centre	No.	1200	1200	1200	1200	1200	1200
	(ii) State	No.	—	—	—	—	—	—
RURAL HEALTH								
	(a) Primary Health Centres	No.	129	130	—	—	—	1
	(b) Subsidiary Health Centres	No.	1,096	1296	250	200	200	—
	(c) Sub-Centres	No.	2,593	2602	1000	9	9	—
	(d) Rural Hospitals	No.	111	111	30	10	—	—
	(e) P.H.Cs. covered under C.H.V. Programmes	No.	40	This scheme was discontinued w.e.f. 1st April, 1979				
RURAL WATER SUPPLY								
	(a) No. of problem villages	No.	3712	3712	—	—	—	—
	(b) Villages covered	No.	1945	2775	—	—	—	—
	(c) Population in all problem villages	000 Thousands 000's	4071	4071	—	—	—	—
	(d) Population covered in villages at (b)	000's	1985	2575	—	—	—	—
	(e) No. of villages covered by —							
	(i) Piped Water Supply	No.	1945	2445	135	135	80	100
	(ii) Hand pumps							
	(iii) Drilled wells							
	(f) Total No. of —							
	(i) Wells	No.	-----					
	(ii) Hand pumps							
	(iii) Drilled wells							

SIXTH FIVE YEAR PLAN 1980-85

STATEMENT V

TARGETS AND PHYSICAL ACHIEVEMENTS—PHYSICAL PROGRAMMES—RMNP

Serial No.	Head of Development	Unit	Five year plan 1980-85		1979-80 Achievement	1980-81		1981-82
			1979-80 Base year level	1984-85 Terminal year Target		Target	Anticipated	Proposed Target
1	2	3	4	5	6	7	8	9
(a)		Kms.	24524	25824	24524	24899	24899	25224
(b)	Total No. of villages connected with road in the State	No.	11824	12188	288	173	173	61
(c)	Villages connected —							
(i)	with a population of 1500 and above	N	1689	1689	19	..	..	..
(ii)	with a population between 1000—15000	No.	1657	1657	25	..	..	..
(iii)	with a population below 1000	No.	8478	8842	244	173	173	61
NUTRITION								
(i)	Special Nutrition Programme	Banc.	17000	75000 (Cumulative)	17000	21000	15000	15000
(ii)	I.C.D.S. Projects							
*Includes 1474 kms of interlinks.								
**Includes 1938 kms of Inter links								
RURAL HOUSING—								
(a)	Rural House-sites	No.	About* 3 lakhs	About 3 lakhs	..	..	..	..
(b)	Houses for rural homeless	No.	778	31,778 including 6611 (spill over houses)	778	3389+6611 (spill over houses)	3389+6611 (spill over houses)	4000
URBAN DEVELOPMENT								
	Environmental improvement of urban slums (slum clearance improvement)	..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

*Under USAID

*All the eligible persons were provided free house sites.

SIXTH FIVE-YEAR PLAN 1980-85
STATEMENT VI
CENTRALLY SPONSORED SCHEMES OUTLAY.

(Rs. in lakhs)

Name of the Scheme	Five year Plan 1980-85 Proposed Outlay	1980-81 Approved Outlay	1981-82 Proposed Outlay	
1	2	3	4	
I. Agriculture				
C.S.1	Timely reporting revised calendar operation and improved Crop/Statistics ..	10.20	1.66	2.35
C.S.2	Scheme to enable the Small Farmers in eradication of pests/disease in endemic area by Aero-Chemical Operations ..	5.00	1.00	1.00
C.S.3	Intensive Cotton District Programme including scheme for Production of Nucleous seed of Cotton ..	250.00	40.61	46.64
C.S.4	Intensive OilsSeed Development Programme ..	80.00	10.50	16.78
C.S.5	Intensive Pulses Development Programme ..	35.00	5.00	6.73
C.S.6	Scheme for the control of weeds and loose smut ..	150.00	28.00	30.00
C.S.7	S.F.D.A's ..	—	80.00	—
C.S.8	Scheme for the provision of improved grain storage bins (100% C.S.) ..	75.00	15.00	15.00
C.S.9	Scheme for the improvement of Irrigation Statistics (100% C.S.) ..	5.70	1.24	1.30
	Total ..	610.90	183.01	119.80
II. Soil Conservation				
	Centrally sponsored scheme for Integrated Watershed Management in catchment of flood Prone River (Indo-Gangetic Basin) Ghaggar River Punjab ..	60.00	11.00	11.00
	Total ..	60.00	11.00	11.00
III. Minor Irrigation				
	Strengthening of ground-water/surface water (Minor Irrigation) organisation (Irrigation Department) ..	—	7.50	—
	Strengthening of Ground-Water/Surface water (Minor Irrigation) organisation (Agriculture Department) ..	50.00	10.00	10.00
	Strengthening of Ground-Water/surface water (Minor Irrigation) organisation (Punjab State Tubewell Corporation) ..	15.00	3.00	3.00

} Expenditure on staff material and supplies to be borne on 50 : 50 basis between State and G.O.I while subsidy on inputs will be borne 100% by G.O.I.

SIXTH FIVE-YEAR PLAN 1980—85
STATEMENT VI
CENTRALLY SPONSORED SCHEMES OUTLAYS

(Rs. in lakhs)

Name of the Scheme	Five-Year Plan 1980—85 proposed outlay	1980-81 Approved outlay	1981-82 Proposed outlay
1	2	3	4
IV. Animal Husbandry			
C.S.1 Assistance to Small/Marginal Farmers and Agricultural Labourers for rearing of Cross-Bred heifers	72.00	13.62	14.00
C.S.2 Foot and Mouth Disease Control Programme-Project for vaccination of cattle and buffaloes in selected areas	13.00	1.50	2.59
C.S.3 Implementation of poultry, Piggery and Sheep Production Programme through Small/Marginal Farmers and Agricultural Labourers	70.00	10.29	13.00
C.S.4 I.C.A.R. Scheme—All India Co-ordinated Research Project on Epidemiological Studies in Foot and Mouth	3.20	0.48	0.46
Total	158.20	25.89	30.05
V. Fisheries			
C.S. 1 Assistance to Fish Farmers Development Agency, Gurdaspur, Jullundur, Amritsar and Ludhiana	20.00	4.00	4.00
Total	20.00	4.00	4.00
VI. Forests			
C.S. 1 Raising of fuelwood plantations	100.00	—	20.00
C.S. 2 Soil Water and Tree Conservation in Himalayas	110.00	10.00	25.00
C.S. 3 Integrated Watershed management in the catchment of flood prone rivers	25.00	10.00	—
Total	235.00	20.00	45.00
VII. Community Development and Panchayats			
C.S. 1 Grant-in-aid to Small Farmers Development Agencies under Integrated Rural Development Programme	1385.00	205.00	295.00
Total	1385.00	205.00	295.00
VIII. Co-operation			
C.S. 1 Agri. Credit Stabilisation fund	50.00	10.00	10.00
C.S. 2 Assistance for construction of Rural godowns by reorganised Primary Agri. Service Societies	504.20	72.25	204.77
C.S. 3 Assistance for distribution of Consumer articles in rural areas	414.58	206.48	51.62
C.S. 4 Margin money as share capital contribution to Punjab H/L Weavers Apex Co-op. Socy. for setting up of show rooms-cum-sale centres	5.40	3.00	1.20
C.S. 5 Assistance for technical and promotional cell of various Apex Federations—			
(i) Spindled	5.00	1.00	1.00
(ii) Handloom Apex	3.70	—	0.90

SIXTH FIVE-YEAR PLAN 1980-85
STATEMENT VI
CENTRALLY-SPONSORED SCHEMES OUTLAYS

(Rs. in lakhs)

Name of the Scheme		Five-Year Plan, 1980— 85 proposed outlay	1980-81 approved outlay	1981-82 proposed outlay
1		2	3	4
C.S. 6	Assistance for preparation of project reports/feasibility studies to Milkfed and other State Federations			
	(i) Spinfed ..	2.50	1.00	1.00
C.S. 7	Share Capital participation in Co-operative Sugar Factories and Co-operative Spinning Mills			
	(a) Spinfed			
	(i) New Spinning Mills ..	1016.32	90.00	349.41
	(ii) Spinning Mills Expansion ..	90.00	—	—
	(iii) Waste Cotton Processing and Spinning Mills ..	39.00	—	—
	(b) Sugarfed			
	Assistance for Installation of new Sugar Mills ..	1485.00	—	742.00
C.S. 8	Assistance as loan for construction of Cold Storages ..	595.00	60.00	47.60
C.S. 9	Share capital contribution to Co-operative Handloom Apex/Socs.			
	(i) Strengthening of share capital base of the primary societies including Industrial Weavers Co-operative Societies ..	35.00	6.00	7.00
	(ii) Strengthening of equity base of Apex Societies ..	25.00	—	5.00
C.S. 10	Managerial subsidy to H/L Apex/Primary Societies ..	25.35	1.35	3.00
C.S. 11	Assistance to Handloom Processing Units for Modernisation/Setting up of Handloom Units			
	Modernisation of Handlooms ..	5.00	1.00	1.00
C.S. 12	Assistance to Handloom Apex/Primary Societies as sale Subsidy/ Rebate ..	10.00	1.00	1.50
C.S. 13	Rehabilitation of weak Central Co-operative Banks ..	4.75	0.95	0.95
C.S. 14	Assistance to Central Co-operative Banks as Bad Debt Reserves (Risk Fund) ..	50.00	—	10.00
C.S. 15	Construction of Markfed Wheat Storage godowns ..	7065.00	—	728.75
C.S. 16	Assistance as loan and share capital for setting up processing units by Handloom Apex ..	108.00	—	27.00
C.S. 17	Assistance for revitalization of dormant/new handloom weavers Societies ..	—	0.50	—
C.S. 18	Assistance for rehabilitation and revitalisation of weak cooperative marketing societies ..	—	2.00	—
	Total ..	11538.80	456.53	2188.70
IX. Power				
	220 KV Switching Sub-station, Dasuya ..	224.00	71.00	35.00

SIXTH FIVE-YEAR PLAN, 1980-85
STATEMENT VI
CENTRALLY-SPONSORED SCHEMES OUTLAYS

(Rs. in lakhs)

Sl. No.	Name of the Scheme	Five-Year Plan, 1980-85 Proposed Outlay	1980-81 approved outlay	1981-82 proposed outlay
1		2	3	4
X. Industry and Minerals				
CS 1	10-15% Central Investment Subsidy	550.00	60.00	85.00
C.S. 6	Engineer Entrepreneurs Training Programme (Interest Subsidy)	10.00	2.00	2.00
C.S. 7	Setting up of Nucleus Cell for updating the Census Data	5.50	0.90	..
C.S. 8	Export Production Project	12.02	12.02	..
C.S. 9	Census-cum-Sample Survey	11.00	1.80	2.00
C.S. 11	Setting up of Processing House for Powerlooms	69.83	69.83	..
C.S. 12	Setting up of District Industries Centres	250.00	36.00	50.00
Total		908.35	182.55	139.00
XI. Education				
C.S.-1	Taking over of N.F.C. Scheme	121.00	37.47	48.89
C.S.-2	Adult Education/Social Education Programme—Creation of Administration Structure at State level	17.50	2.50	3.00
C.S.-3	Setting up of Technology Cell*	..	3.01	—
C.S.-4	Setting up of State Survey Unit	0.09	0.09	—
C.S.-5	Promotion of Regional Languages—Punjab State University Text book Board	60.65	7.70	11.86
C.S.-6	Integrated education for physically handicapped children	12.72	2.17	3.65
C.S.-7	Financial Assistance to eminent sanskrit Pandits Indigent circumstances	0.00	0.00	0.10
C.S.-8	National Service Scheme (N.S.S.)	64.15	11.67	12.25
C.S.-9	National Merit Scholarships Scheme	4.50	0.50	1.00
C.S.-10	National Loan Scholarships	25.00	5.00	5.00
C.S.-11	Scholarships to students from Non-Hindi-speaking State for Post-Matric studies in Hindi (Grant-in-aid)	7.10	1.30	1.40
Total		313.21	71.51	87.15

*The scheme has been transferred to Non-Plan Budget.

SIXTH FIVE YEAR PLAN, 1980-85

STATEMENT—VI

CENTRALLY SPONSORED SCHEMES OUTLAYS

(Rs. in lakhs)

Name of the Scheme	Five Year Plan 1980-85 Proposed Outlay	1980-81 Approved Outlay	1981-82 Proposed Outlay
1	2	3	4
XII. Public Health and Sanitation			
C.S.-1 Reorientation of Medical Education	60.00	16.87	7.00
C.S.-2 Visual Impairment and Prevention of Blindness	20.00	3.00	3.00
C.S.-3 National Malaria Eradication Programme (Rural)	750.00	442.71	138.00
C.S.-4 National Malaria Eradication Programme (Anti-Larval)	88.00	16.00	16.80
C.S.-5 National Malaria Eradication Programme (Urban Spray)	2.00	2.00	—
C.S.-6 National T.B. control Programme	40.00	7.75	7.70
C.S.-7 National Leprosy Control Programme	4.00	0.70	0.75
C.S.-8 National Programme for control of Visual Impairment and Blindness including Trachoma	10.00	1.95	2.00
C.S.-9 Training and Employment of Multipurpose Workers Scheme	60.00	12.40	12.10
C.S.-10 Family Welfare Programme (100% C.S.)	3122.80	422.89	678.80
C.S.-11 Assistance to Post-Graduate Department in ISM (100% C.S.)	25.75	2.65	3.80
C.S.-12 Establishment of ISM Pharmacies including Herbal Forms and Drug Testing Laboratories (100% C.S.)	13.25	3.36	4.00
Total	4195.80	632.28	873.95
XIII. Rural Water Supply			
C.S.-1 Accelerated Rural Water Supply Programme	.. Cannot be indicated as there is no intimation from the G.O.I. as how much amount will be made available during this period	165.00	.. Cannot be indicated as there is no intimation from the G.O.I. as how much amount will be made available during this period.
XIV. Urban Development			
C.S.-1 Integrited Urban Development of small and medium Towns	700.00	100.00	100.00
XV. Welfare of Scheduled Castes and Backward Classes			
C.S.-1 I.A.S. Coaching Centre	9.10	1.50	1.50
C.S.-2 Girls Hostels	4.55	0.75	0.75
C.S.-3 Share assistance to Punjab Scheduled Castes Land Development and Finance Corporation	196.00	49.00	49.00
C.S.-4 Grants for the purchase of medical and engineering books	10.00	—	2.00
C.S.-5 Post-matric Scholarships	42.50	8.50	8.50
Total	262.15	59.75	61.75

SIXTH FIVE YEAR PLAN 1980—85

STATEMENT VI

CENTRALLY SPONSORED SCHEMES OUTLAY

(Rs. in lakhs)

Name of the Scheme	Five Year Plan 1980—85 Proposed Outlay	1980-81 Approved Outlay	1981-82 Proposed Outlay
1	2	3	4
XVI. Social Welfare			
C.S.-1 Children in the need of care and protection	8.00	1.50	1.50
C.S.-2 Functional literacy	76.11	3.50	14.00
Total	84.11	5.00	15.50
Economic Services Statistics			
Economic Census and Survey	To be fixed by the Government of India.	3.25	3.57



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Date.....