

ANNUAL PLAN

1982-83



PLANNING DEPARTMENT
PUNJAB

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Sub. National Systems Unit,
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CHAPTER I

Approach to the Annual Plan 1982-83

The year 1982-83 represents the third year of the Sixth Five Year Plan 1980-85. While the overall strategy and objectives of the Annual Plan 1982-83 are derived from the Sixth Five Year Plan and the New 20-point programme and priorities of the Government, the details of the Annual Plan have been worked out after an indepth analysis of the programmes adopted for achieving these objectives in the first two years of the Sixth Plan.

1.2. The present Annual Plan is not wholly a continuation of the schemes and targets adopted in the previous two annual plans. A careful appraisal has been made of the on going schemes and programmes and a lot of dead wood has been removed from the Plan component. Allocations have been re-arranged to provide finances for the productive sector. In particular, topmost priority has been accorded to strengthening and augmenting of Power base of the State. The Power Sector receives 49.14 percent of the total Plan outlay of Rs. 385 crores. It is felt that speedy development of power potential of the State is not only essential in the context of diversification of economy by encouraging the growth of industries but is also a necessary infrastructural requirement for the agricultural sector which makes the maximum contribution to the State economy; power is increasingly required for irrigation, for processing of agricultural produce and for production of essential agricultural inputs like fertilisers.

1.3. With this objective in view, a total of Rs. 189.18 crores has been earmarked for the power sector. This reflects an increase of Rs. 55.58

crores in 1982-83 over the outlay of 1981-82. In absolute terms, this is Rs. 10.98 crore more than the total increase in the size of the Annual Plan 1982-83 over the Annual Plan 1981-82. This allocation is considered absolutely essential for boosting the productive sectors of the economy which have lately shown signs of languishing for want of power.

1.4. It will be noticed that while in the non-productive sectors allocations have been reduced to the bare minimum, this exercise has not clouded the State Government's judgement with regard to its duties towards the weaker sections of the society. An effort has been made to broaden the area of equitable distribution of the gains of development. According to a survey made by the State Government 30.7 percent of the families in the State are living below the poverty line. Such families have been issued yellow cards which enable them to easily obtain loans and other assistance both from the Government and the financial institutions. Apart from this, allocations for Social Welfare and Welfare of Scheduled Castes have been increased especially under those programmes which directly provide benefits to individuals amongst the poorest of the poor.

1.5. The size of the Annual Plan 1982-83 has been fixed at Rs. 385.00 crores against a size of Rs. 340.40 crores for the year 1981-82 i.e. a step up of 13.10 percent. The details of outlays under different heads of development have been shown in statement I in the Statement portion of this document. The Statement III indicates the physical targets fixed for the year 1982-83.

CHAPTER II

Financial Resources

The financial resources for the Annual Plan 1982-83, the third year of the Sixth Five-Year Plan, have been worked out at Rs. 385.24 crores. The profile of resources, as discussed in the Planning Commission, is given in the Annexure and resources position in brief is set out below :

(Rs. in crores)

3. Central Assistance	633.59
Total	3855.24

(Rs. in crores)

1. State's resources at 1979-80 level of taxation, rates, tariffs, etc. (including market borrowing and share of Central taxes)	129.91
2. Additional Resources Mobilisation—	
(a) 1980-81 Measures	29.28
(b) 1981-82 Measures	103.26
(c) 1982-83 Measures	59.20

2.2. The above table shows that substantial efforts have been made to raise additional resources for financing the development plans of the State. For financing the Sixth Five Year Plan an additional resource mobilisation of the order of Rs. 400.00 crores is envisaged. The measures undertaken during 1980-81 and 1981-82 alone are expected to exceed the target of additional resource mobilisation during the Sixth Plan period. Despite this, further generation of resources will be needed to offset the effect of cost escalation and for faster growth of the State economy.

ANNEXURE

Estimate of State Resources

(Rs. in crores)

Items	1980-81		1981-82		1982-83 Ests.	
	(Preliminary actuals)	Annual Plan Ests.	Latest Ests.		As furnished by the State Government	As worked out in the discussion
			As furnished by the State Government	As worked out in the discussion		
	1	2	3	4	5	6
I. Plan Outlay	298.70	340.34	340.40	340.34	385.20	385.00
II. State budgetary resources other than negotiated loans and State enterprises market borrowings :						
1. Balance from current revenues at 1979-80 rates of taxation	37.40	121.50	76.60	61.34	96.90	102.22
2. Contribution of public enterprises at 1979-80 fares and tariffs—						
(a) State Electricity Board	(-)4.00	3.97	(-)15.50	(-)19.40	(-)16.90	(-)32.56
(b) Road Transport Corpn.	(-)6.30	(-)9.05	(-)7.70	(-)6.35	(-)6.50	(-)7.35
3. Loans from Market by State Government(net)	6.10	6.70	7.00	7.00	7.40	7.36
Share of Small Savings	21.80	30.00	25.00	25.00	30.00	28.00
5. State Provident Funds	17.50	10.80	10.80	10.80	9.60	9.60
6. Misc. Capital receipts (net)	52.90	18.90	31.10	29.00	20.80	20.80
7. Contribution of local bodies	11.00	—	—	—	—	—
Total-II	136.40	182.82	127.30	107.39	141.30	128.07
III. Additional Resources Mobilisation :						
(a) 1980-81 Measures	8.20	30.00	25.60	26.66	28.70	29.28
(b) 1981-82 Measures	—	40.00	60.60	64.70	89.90	103.26
(b) 1982-83 Measures	—	—	—	—	—	59.20
Total-III	8.20	70.00	86.20	91.36	118.60	191.74
IV. Negotiated Loans and States Enterprises Market Borrowings :						
A. Negotiated Loans (Gross)						
1. State Government						
(a) Loans from LIC	1.00	4.10	4.10	2.43	1.20	3.89
(b) Loans from RBI	3.80	2.31	2.30	2.30	2.50	2.50
2. State Enterprises						
(a) Loans from LIC	7.70	8.45	8.50	8.45	9.30	8.45
(b) Loans from REC	9.00	5.72	5.70	3.70	6.00	6.29
(c) Loans for RTC	1.60	0.72	0.70	1.65	—	1.65
3. Others						
(a) Loans from LIC for water-supply	1.20	1.32	1.30	2.06	1.40	2.06
(b) Other loans	4.60	—	0.50	—	0.50	—
Total (A)	28.90	22.62	23.10	22.89	20.90	24.84

Item	1980-81	1981-82		1982-83 Ests.		
	(Preliminary actuals)	Annual Plan Ests.	Latest Ests.		As furnished by the State Government	As worked out in the discussion
	1	2	3	4	5	6
B. Market Borrowing (Net)						
1. State Electricity Board	10.00	10.90	11.00	11.00	12.00	112.00
2. Others	—	—	—	—	—	—
Total-IV(A+B)	38.90	33.52	34.10	33.59	32.90	336.84
V. State's total resources	183.50	286.34	247.60	232.34	292.80	3556.65
VI. Adjustment of opening deficit	—	(-9.00)	—	—	—	(-)335.00
VII. State's total resources (net)	183.50	277.34	247.60	232.34	292.80	3221.65
VIII. Central assistance						
(a) Normal	61.90	{ 49.60	49.60	49.60	} 69.30	448.55
(b) For externally aided projects		{ 13.40	13.40	13.40		115.04
Total	61.90	63.00	63.00	63.00	69.30	663.59
IX. Aggregate resources	245.40	340.34	310.60	295.34	362.10	3885.24
X. Gap in resources						
(a) On the basis of operations in the year	53.30		29.80	45.00		
(b) Opening deficit	27.53		82.00	37.00 (b)		
	80.83(a)		111.80	82.00 (c)		

(a) According to the R.B.I. the year-end deficit was Rs. 82.01 crores.

(b) In the meeting held between the Union Finance Minister and the State Chief Minister on 8th July, 1981 it was envisaged that the State would close the current year with a gap not exceeding Rs. 45 crores. The Ministry of Finance officials have accordingly proposed to adjust Rs. 37 crores out of the opening deficit of Rs. 82.01 crores.

(c) On the assumption that out of Rs. 82.01 crores of the Opening Deficit, Rs. 45.01 crores is allowed to be carried forward. If the entire amount of opening deficit (Rs. 82.01 crores) is taken into account, the total gap would amount to Rs. 127.01 crores.

Agriculture and Rural Development (I)

Agriculture in Punjab has maintained its dominance over other sectors in the economy with over 56 per cent of its share in the total State Income (GDP) and over 80 per cent of the population depending upon this sector, the socio-economic development of the State and standard of living of the people, especially in rural areas, mainly hinges on the accelerated development of this sector. Traditionally Punjab was known to be an important wheat growing state, but now it has also emerged a major rice surplus state as a result of which the State is the largest single contributor in central wheat and rice pool. However, of late, agriculture has been confronted with the problems of rising pests/insects infestation, increasing incidence of weeds depleting soil fertility and inadequate supply of vital agricultural inputs like fertilizers, seeds etc. Small and marginal farmers in the State have been adversely affected by the rise in prices of fertilizers. The future development programme must, therefore, take into account all these issues.

3.2. During 1980-81, there was wide spread incidence of Bacterial Leaf Blight disease on Paddy. Its incidence was observed in 254 villages of the State. The production of wheat also decreased as compared to the year 1979-80 because of (i) spread of Karnal Bunt and Brown Rust, (ii) unexpected rains during the months of November and December delayed the sowing, (iii) hailstorms in certain parts of the State had adverse effect on wheat yield and the strong winds in March caused damage to early sown wheat crop.

3.3. While there is no control over weather conditions, steps need to be taken to introduce disease resistant varieties of these major crops of the State. New varieties PR—107 and IET4142 have been tested for their resistance to Bacterial Leaf Blight on paddy. It has been proposed to take up the following varieties of wheat during 1981-82 as

a safeguard against diseases :—

Table 3.1 : Varieties of wheat

Varieties	Areas for which recommended
Sonalika, WG 357, WL 1562, KSML-3 and DWL 5023	All districts
WL 711 and HD 2009	All districts except Gurdaspur, Hoshiarpur and Ropar
WL—377	For Bhatinda, Ferozepur and Faridkot districts only.
C,306 and WL 410	For rainfed areas in all districts.

Strategy for 1982-83

3.4. The following measures will form part of the envisaged strategy in this sector :—

- (i) Coverage of maximum area with timely sowing/transplantation during the optimum period of sowing by regulating availability of essential inputs in time ;
- (ii) introduction of disease resistant varieties of the main crops particularly of wheat and rice ;
- (iii) efficient water management through lining of channels and water courses ;
- (iv) increased productivity per unit area with economic and efficient use of vital inputs and higher cropping intensity ;
- (v) carry out massive land reclamation programme ;
- (vi) balanced efficient and economic use of fertilizers including micro-nutrients ;

- (vii) assist common farmers of cotton growing areas of the State by laying more emphasis on ground/aerial spraying ;
- (viii) training of farmers to educate them regarding advanced technology for improving their efficiency ;
- (ix) to bring more area under fruit plants ; and

- (x) to undertake intensive plant protection measures for the effective control of insects/pests/weeds.

Land utilisation

3.5. Currently over 83 per cent of the State's geographical area is under cultivation as compared to the national average of 42 per cent. The comparative statement of land utilisation for the last few years is as under :

TABLE 3-2 : Land utilisation

(000' hectares)

Item	1963-66	1974-75	1977-78	1979-80	1980-81 (P)
1	2	3	4	5	6
Geographical Area	5038	5038	5038	5038	5038
Reported Area	5028	5033	5033	5033	5033
Forests	83	211	209	217	220
Land not available for cultivation	638	531	534	531	529
Other uncultivated lands excluding fallow lands	187	74	57	52	48
Current fallow lands	317	125	62	—	@
Net cultivated Area	3803	4092	4172	4182	4191
Percentage of Geographical area	76	81	83	83	83
Gross Cropped Area	4889	5904	6390	6535	6768
Cropping Intensity	128.5	144.3	153.2	156.4	161.1

@ less than 500 hectares.

3.6. It is evident from the above table that there is now very little scope for horizontal increase in cultivated area and we have no option but to resort to intensive cultivation based on adoption of modern agricultural practices as a means of increasing agricultural production in the State.

Gross Cropped Area :

3.7. Gross cropped area for the year 1979-80 was 65.35 lakh hectares. The crop wise estimates for 1980-81, anticipated achievement during 1981-82 and targets for 1982-83 are given below :—

TABLE 3-3 : Gross Cropped Area by principal crops

(Area in 000' hectares)

Commodities	1979-80 base year	1980-81 (estimates)	1981-82		1982-83 targets
			Targets (Revised)	Anticipated achievement	
1	2	3	4	5	6
Kharif					
Rice	1172	1182	1200	1240	1220
Maize	393	382	400	343	400
Bajra	46	69	69	64	69
Jowar	1	1	1	1	1
Pulses	43	60	63	63	63
Total Kharif	1655	1694	1733	1711	1755

(Area in 000' hectares)

Commodities	1979-80 base year	1980-81 (estimates)	1981-82		1982-83 Targets
			Targets (Revised)	Anticipated achievement	
1	2	3	4	5	6
Rabi					
Wheat	2813	2811	2825	2840	2830
Barley	46	65	50	70	50
Gram	228	258	267	280	283
Pulses	20	23	32	32	30
Total Rabi	3107	3157	3174	3222	3193
Total Foodgrains	4762	4851	4907	4933	4950
Cotton	630	649	650	675	660
Sugarcane	77	71	100	100	110
Oil seeds	199	228	260	225	270
Potatoes	41	40	47	47	50
Other crops	826	924	886	870	860
Total cropped area	6535	6763	6830	6850	6900

Yield :

3.8 Till the beginning of the Fifth Five-Year Plan, Punjab has been mainly a wheat-growing State.

Now during the last few years it has also emerged as an important rice growing State and the yield of wheat and rice are the highest in the country. Yield per hectare of various crops is given as under :-

TABLE 3.4 : Yield of different Crops in Punjab

(Kg./Hects.)

Crop	1979-80 Actual	1980-81 Estimates	1981-82		1982-83 Target
			Target (Revised)	Anticipated achievement	
1	2	3	4	5	6
Rice	2604	2736	2800	2944	2787
Jowar	649	667	1000	1000	1000
Bajra	1032	1234	1300	1085	1300
Maize	1723	1601	1750	1749	1775
Wheat	2797	2730	2832	2817	2898
Barley	1546	1616	1600	1714	1700
Gram	687	582	824	857	877
Sugarcane (gur)	5099	5518	6000	5550	5818
Cotton	326	308	353	327	367

Production :

3.9. The envisaged growth in the output of principal crops is given below :—

TABLE 3.5 : Output of Principal Crops

Item	Unit	1979-80 Actuals	1980-81 Achievements (P)	1981-82		1982-83* Targets
				Target (Revised)	Anticipated achievements	
1	2	3	4	5	6	7
Agriculture :						
Production of Principal Crops :						
Wheat	000' tonnes	7868	7674	8000	8000	8200
Rice	"	3052	3228	3400	3650	3400
Maize	"	677	613	700	600	710
Bajra	"	47	84	90	69	90
Barley	"	73	107	80	120	85
Other cereals (jowar)	"	1	1	1	1	1
Total cereals	"	11,718	11707	12,271	12,440	12,486
Gram	"	157	150	220	240	250
Other pulses	"	31	51	59	60	64
Total pulses	"	188	201	279	300	314
Total foodgrains	"	11,906	11,908	12,550	12,740	12,800
Ground nuts	"	81	103	150	85	150
Other oilseeds	"	76	73	150	98	150
Total oilseeds	"	157	176	300	183	300
Cotton	000' bales	1,207	1,176	1,350	1,300	1,425
Sugarcane (gur)	000' tonnes	393	393	600	555	640

*Subject to the approval of the committee constituted by the Government for this purpose.

3.10. Major addition to foodgrains has come from rice and wheat. It is estimated that the total foodgrains production during 1981-82 will be of the order of 127.40 lac tonnes against the target of 125.50 lac tonnes. The production target for 1982-83 has been set at 128.00 lac tonnes. As already indicated, a widespread incidence of disease, Blight in the case of Paddy and Karnal Bunt and Brown Rust in the case of wheat was experienced during 1980-81. During 1980-81, the total foodgrains production was 119.08 lac tonnes against 119.06 lac tonnes during 1979-80.

3.11. 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 cotton, oilseeds and pulses. Production of sugarcane (gur) is estimated to rise to 6.40 lac tonnes in 1982-83. Cotton production will rise to 14.25 lac bales in 1982-83 against the anticipated achievement of 13.00 lac bales during 1981-82. Pulses are also expected to record a substantial increase from 3.00 lac tonnes expected during 1981-82 to 3.14 lac tonnes in 1982-83. Plan programme aimed at further development and growth.

agricultural production are discussed in the following paragraphs :—

Agriculture :

3.12 An outlay of Rs. 1755.24 lacs has been

provided for the sub-head of development "Agriculture" for the year 1982-83 as against an expenditure of Rs. 1627.70 lacs anticipated during 1981-82. Programme-wise outlays provided under this sub-head are given below :—

TABLE 3.6 : Programme-wise outlays

(Rs. in lakhs)

Serial No	Name of the programme	1981-82		1982-83
		Outlay	Anticipated Expenditure	Outlay
1	2	3	4	5
Punjab Agricultural University :				
1	Research	190.00	217.50	240.00
2	Agriculture, Education and Extension	21.50	24.07	29.80
3	Extension and Farmer's Training	12.80	12.74	14.80
4	Direction and Administration	477.92	476.56	434.09
5	Land Reclamation	36.70	20.32	26.21
6	Multiplication and distribution of seeds	33.80	31.78	38.55
7	Manures and Fertilizers	45.00	47.70	46.11
8	High Yielding Varieties Programme	340.00	224.51	279.56
9	Plant protection	74.48	57.20	70.32
10	Commercial crops	50.00	30.10	42.00
11	Agricultural Engineering	2.60	2.50	3.70
12	Agricultural Economics and Statistics	25.00	22.00	25.00
13	Warehousing	4.00	4.18	4.00
14	Agricultural Marketing and quality control	350.00	324.25	358.00
15	Agricultural credit	35.00	15.00	15.00
16	Employment promotion programme	19.70	10.80	17.70
17	Others	126.50	106.49	111.00
18	Horticulture (including vegetables)			
Total		1845.00	1627.70	1755.24

3.13 Some of major programmes/schemes under this sub-head are discussed below :—

Research, Education, Extension and Training

3.14 The Plan includes a comprehensive programme of agricultural research, education, extension and training to be undertaken by Panjab Agricultural University, Ludhiana. The University have evolved a number of new varieties of crops

with the help of which it has been possible to sustain agricultural production in the State. Their main areas of research are wheat, rice, cotton, oil-seeds, cereals and pulses etc. The University undertakes programmes for spreading higher education, training of farmers etc. It also, undertakes programmes for disseminating information regarding various aspects of farm practices. To enable the University to continue the programmes of research, education and extension, an outlay of Rs. 240.00 lacs has been provided for 1982-83 against

the expenditure of Rs. 217.50 lacs during 1981-82. It includes the provision of Rs. 39.40 lacs for the PAU component of the World Bank assisted Kandl Watershed and Area Development Project.

Reclamation of land :

3.15. There was an area of about 6.98 lakh hectares affected with alkalinity/salinity in Punjab at the beginning of the Fifth Five Year Plan. Of this 4.63 lakh hectares were marginally or moderately and 2.35 lakh hectares were seriously affected. The reclamation process however remained slow in the Fifth Plan. Upto 1979-80, an area of about 73,019 hectares was reclaimed. This programme has been given high priority in the Sixth Plan and an area of 33,000 hectares was reclaimed during 1980-81 against the target of 30,000 hectares. It is estimated that an area of 32,000 hectares will be reclaimed during 1981-82 and there is a target to reclaim 30,000 hectares during 1982-83.

3.16. Under this programme, the most important scheme is A(P)5.2 "Reclamation of Kallar

Lands" which has been renamed as "Demonstration on Kallar Reclamation and Reclamation of Kallar Lands" by merging in it a part of the scheme A(P)5.1 "Reclamation of alkaline/saline lands owned by Village Panchayats". Under this programme the Government takes on lease the affected areas owned by Village Panchayats for setting up of demonstration projects for reclamation work. Three reclamation centres have been set up at Kalanaur in Gurdaspur district (283 hectares), Masitaa in Kapurthala district (124 hectares) and Gharaachon in Sangrur district (42 hectares). After reclamation, these centres will be used for seed production. Under the second component of this scheme "Reclamation of Kallar lands in Punjab", gypsum, the main ingredient for reclamation of soils is supplied to farmers at a highly subsidized rate—75 per cent for small and marginal farmers and 50 per cent for others. The procurement and supply of gypsum is handled by Land Development and Reclamation Corporation. The Corporation also provides Bulldozers at reasonable rates for levelling and shaping of lands. The physical profile is as under :—

TABLE 3-7 : Area reclaimed, gypsum supplied and subsidy advanced

Item	Unit	1979-80 Actuals	1980-81 Actuals	1981-82 Anticipated	1982-83 Targets
1	2	3	4	5	6
Area reclaimed	(hects.)	30,000	33,000	32,000	30,000
Gypsum supplied	(000 tonnes)	218.00	235.00	225.00	208.50
Subsidy utilized	(Rs. in lakhs)	393.42	432.30	441.52	400.00

3.17. An outlay of Rs. 434.09 lakhs has been provided for this programme for 1982-83 as against anticipated expenditure of Rs. 476.56 lacs during 1981-82.

Multiplication and Distribution of Seeds :

3.18. Certified quality seeds of HYV are one of the basic inputs for increasing per unit production. Quality seeds are procured from Punjab Agricultural University, Ludhiana, National Seeds Corporation and Departmental Farms for further supply to the farmers. The "Seed Certification Authority" an autonomous Organisation is independently in-

charge of certification programme. A sum of Rs 20 lacs has been provided for Punjab State Seeds Corporation as share capital.

3.19 Provision has also been made in the plan for the expansion of the existing Seed Testing Laboratory at Punjab Agricultural University, Ludhiana with a view to increase its seed-testing capacity and also to ensure quality through all stages of production, processing and marketing.

3.20 Performance in respect of the supply of certified seed and targets for 1982-83 under this programme are given in the table below :—

TABLE 3-8 : Supply of certified seed

Seed	Unit	1979-80	1980-81	1981-82 (Estimates)	1982-83 (Targets)
1	2	3	4	5	6
Wheat	Qtls.	30,000	42,046	50,000	1,110,000
Paddy	..	17,000	17,500	13,823	335,000
Gram	..	650	685	1,405	5,000
Maize	..	950	1,350	1,200	5,000
Cotton	..	2,100	2,450	681	65,000

3.21. A provision of Rs. 26.21 lakhs has been made for 1982-83 for this programme, against Rs. 20.32 lakhs likely to be spent during the current year.

Manures and Fertilizers :

3.22. The balanced use of fertilizer plays a vital role in the agricultural production. Fertilizer

consumption has been rapidly increasing since the introduction of High Yielding Varieties. By 1980-81 the total consumption in terms of plant nutrient (N, P₂O₅, K₂O) had increased to 762,000 tonnes as against 686,000 tonnes during 1979-80. The target for 1982-83 has been set at 950,000 tonnes against the consumption of 815,000 tonnes anticipated during 1981-82 as per details given below :—

TABLE 3-9 : 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	477	179	30	686
1980-81	526	207	29	762
1981-82 (Target)	600	250	50	900
(Anticipated)	560	225	30	815
1982-83 (Target)	650	260	40	950

3.23. 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 the crops. There is a specific scheme "Establishment of Soil Testing Laboratories including Mobile Testing Laboratory" to achieve this objective. The main aim is to test

the soils free of cost for reclamation purposes as well as for the efficient use of fertilizers. At present, there are 25 soil testing laboratories out of which 17 are stationary and 8 mobile. Six more stationary laboratories are being set up during 1981-82. During 1982-83, it is envisaged to establish 6 more stationary laboratories in the State. The physical profile is given in Table below :—

TABLE 3-10 : Soil Testing Laboratories/Samples

Item	Unit	Upto 1979-80	During		
			1980-81	1981-82	1982-83 (targets)
1	2	3	4	5	6
1. Soil Testing Laboratories	(No.)	18	7	6	6
2. Total number of soil samples to be tested	000 No. (Annually)	235	238	342	460

3.24. A sum of Rs. 38.55 lakhs has been earmarked for this programme for 1982-83 against the anticipated expenditure of Rs. 31.78 lacs during 1981-82. Besides this, a sum of Rs. 3.00 lakhs was provided for the grant of subsidy on phosphatic fertilizers to Small and Marginal farmers during 1981-82.

Plant Protection :

3.25. The protection of crops against the onslaught of insects/pests and diseases is one of the

vital aspects of crop husbandry. This is an important programme and the plan provides for a variety of plant protection measures including both soil/seed treatment and prophylactic and curative spraying of crops.

3.26. Supply of quality pesticides is necessary for the control of insects/pests. Under the scheme A(P) 9-1 "Ground Spraying of Crops/Mobile Ground Spray Units", pesticides/insecticides etc. are supplied to farmers on "no profit no loss" basis.

They are also given technical guidance in proper use of pesticides for spraying of crops for control of various pests and diseases. The plant protection equipment is supplied on rent. A sum of Rs. 110.00 lacs has been provided for this scheme for 1982-83 against an expenditure of Rs 80.00 lacs anticipated during 1981-82. Some farmers particularly in Bhatinda district cannot avail aerial spraying facility due to scattered area under cotton. Such intending farmers are supplied pesticides as loan in kind for which a provision of Rs. 15 lacs has been made out of Rs 110.00 lacs provided under the scheme A(P) 9.1. This amount is recovered as arrears of land revenue. A sum of Rs 120.00

lacs has been provided for the scheme A(P) 9.2. "Loan for aerial spraying, of crops" for 1982-83.

3.27. When the cotton plants grow to certain size, ground spraying becomes difficult. In this case aerial spray of cotton is arranged on campaign basis with advanced booking of aircrafts. At that time, the farmers do not have funds to make the payment of operational charges and pesticides. As such, loaning facilities are offered to the farmers for this purpose in the form of Paccavi Loans which are recovered alongwith land revenue. The physical progress in respect of ground/aerial spraying alongwith targets for 1982-83 is given below :—

TABLE 3-11 : Ground/Aerial Spraying of Crops

(000' hectares)

Achievement (Annual)	1979-80	1980-81	1981-82		1982-83 (targets)
			Targets	Estimates	
			4	5	
1	2	3	4	5	6
Ground spray	693	930	770	770	930
Aerial spray	151	113	150	94	1110

3.28. At the time of spread of pests/diseases in epidemic form, campaigns are arranged on massive scale under the scheme A(P) 9.3 "Intensification of plant protection work". Under this scheme, pesticides and plant protection equipment are given at subsidised rates to the cultivators. Under the scheme A(P) 9.4 "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 etc. have been found effective. These weedicides are very costly. It is proposed to supply the herbicides at 25% subsidy out of which 12½% of the subsidy will be met by Government of India. It is envisaged to supply 160 Mt. tonnes of weedicides on a subsidized basis (25% of the cost) during 1982-83 for treating an area of 86,000 hectares. Funds have also been provided for establishment/strengthening the Insecticide Testing Laboratory in order to achieve the object of taking insecticides samples at regular intervals and getting them analysed and take action against the traders/defaulters, who indulge in the sale of sub-standard insecticides.

3.29. A sum of Rs. 279.56 lacs has been provided for the programme of Plant Protection for 1982-83 against the anticipated expenditure of Rs. 224.51 lacs during 1981-82.

Commercial Crops :

3.30. Cotton, Sugarcane and groundnut are the important cash crops in the Punjab State. Punjab's agriculture is predominantly cereal based. It is proposed to diversify agriculture by promoting the cultivation of commercial crops.

3.31. The scheme "Development of Sugarcane" aims at assisting the Sugarcane cultivators in the Sugar Mill areas. Under this scheme good quality seed of improved varieties of Sugarcane is supplied and measures are taken for the prevention and control of Sugarcane diseases and pests. Subsidy on the following items is given:—

- (i) Subsidy of Rs. 1 per quintal to the producer of sugarcane seed of improved variety and subsidy of Rs. 1 per quintal to the purchaser of that seed for meeting his personal requirements for putting his area under improved varieties of sugarcane.
- (ii) 25 % subsidy on the cost of pesticides required for the treatment of sugarcane seed at the time of sowing and pesticides to be used in ground and aerial spraying of sugarcane. The Sugar Mills will share 25% of the cost

of pesticides and the cane-growers will pay balance 50% cost of the pesticides to be used by them for seed and soil treatment.

3.32. A sum of Rs. 37.30 lacs has been provided for the scheme "Intensive Cotton District Programme including scheme for production of nucleus seed of cotton". Under another scheme "Intensive oilseed development programme" it is intended to adopt intensive approach to groundnut and rape seed and mustard in selected high potential area with a view to increasing the production of edible oil. The scheme "Intensive pulses development programme" aims at raising production of pulses. These are centrally sponsored schemes and funds will also be provided by Government of India. An outlay of Rs. 70.32 lacs has been provided for 1982-83 for this programme.

Agricultural Engineering :

3.33. Under this programme technical know-how and guidance is provided to farmers in the field to keep proper care of their machinery, extend proper and efficient service to farmers for the installation of standard design tubewells and selection of suitable tractors and machinery. It also aims to introduce the newly evolved farm machinery among farmers. Funds have also been provided to enable the Panjab Agro-Industries Corporation to defray expense for the completion of their various projects. A sum of Rs. 42.00 lacs has been provided for 1982-83 for this programme.

Ware-Housing :

3.34. The Punjab State Ware-housing Corporation was reconstituted under section 18 of Warehousing Corporation Act, 1962 on 1st November, 1967. Its authorised share capital is Rs. 5.00 crores. The Punjab State Ware-housing Corporation provides storage facilities to the farmers and purchasing agencies. It also provides facilities for the transport of agricultural produce, seeds, manures, fertilizers, agricultural implements and notified commodities to and from Ware-houses. There is a provision of Rs. 25 lacs for this scheme for 1982-83 as against the anticipated expenditure of Rs 22.00 lacs during the year 1981-82.

Agricultural Credit :

3.35. The Plan visualises mobilisation of maximum institutional finance for long term investment in agriculture. 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.

3.36. For the agricultural development of the State, the Bank proposes to finance 7,000 tubewells during 1982-83. The Bank is advancing loans for carrying out underground and upper surface channels and levelling of lands and reclamation by levelling of ravine lands. Under the "Tractor Scheme", the Bank is providing loans to the farmers for the purchase of Tractors as well as Tractor implements. It is envisaged to finance 3000 Tractors during 1982-83 under this scheme. Under the 'Land Reclamation Scheme' it is estimated that nearly 15,000 hectares of alkaline and saline lands will be reclaimed.

3.37. Under the "Horticulture Scheme" the Bank, will finance the farmers for diversifying their activities by advancing loans for raising fruit gardens on their farms. Under these schemes 5 types of fruit plants are being raised with Bank finances. The loan will be recovered between 10-14 years. It is proposed to cover 2200 acres for raising fruit gardens. It is also proposed to finance 600 gobatgas plants.

3.38. Under the Dairy Development Schemes, the Bank proposes to finance 1333 dairy units of 2 to 5 animals. The Bank proposes to finance 800 poultry development units of 500 birds each under "Poultry Scheme". The loan under these schemes is provided to the individual farmers. The Bank is also providing loans for Camel Cart schemes in the Southern districts of the State. During 1982-83 it is proposed to finance nearly 1000 such animals driven carts.

3.39. Two new scheme namely "Fish Culture" and "Farm Forestry" have been sponsored w.e.f. 1982-83.

3.40. Detail of Agricultural credit to be provided during 1982-83 is given in table below:—

TABLE 3-12 : Agricultural credit to be provided during 1982-83

(Rs. in lakhs)

Serial No.	Type of scheme	Physical Targets	Loans to be advanced	Debentures to be floated	Contributions by		
					State Government	Govt. of India	Total
1	2	3	4	5	6	7	8
Support to ordinary and Special debentures of LMB—							
(i)	Agriculture Department	7000 (tube-wells)	1700.00	1700.00	77.50	77.50	155.00
(ii)	Soil Conservation Department	N.A.	150.00	150.00	10.00	10.00	20.00
(iii)	Purchase of debentures of SCLMB for the purchase of Tractors and Agricultural Implements.	3000 (tractors)	1800.00	1800.00	225.00	225.00	450.00
(iv)	ARC Scheme for the reclamation of Alkaline, Saline Soils.	15,000 (hect)	150.00	150.00	9.50	9.50	19.00
(v)	Grant of loan for Grape cultivation and construction of bowers under ARC scheme debenture support for Horticulture	2200 Acres	110.00	110.00	6.50	6.50	13.00
(vi)	Gobar Gas Plants	No. 600	30.00	30.00	2.00	2.00	4.00
(vii)	Dairy Development	1333 (Units of 2 to 5 animals)	200.00	200.00	12.00	12.00	24.00
(viii)	Poultry, Piggery, Sheep breeding, cattle feed processing unit camel carts, etc.	800 (Units of 500 birds each)	200.00	200.00	11.50	11.50	23.00
(ix)	Fish culture	(Ponds) 100	30.00	30.00	2.00	2.00	4.00
(x)	Farm Forestry	NA	30.00	30.00	2.00	2.00	4.00
Total			4400.00	4400.00	358.00	358.00	716.00

Employment Promotion Programme:

3.41. In order to provide custom service of machinery, the Government decided to set up Agro-service centres in villages. These centres provide custom service to the villagers at reasonable rates. Under this programme ITI trained/matriculates and above including exservicemen trained entrepreneurs establish their own Agro-Service Centres in rural areas. They invest 10% from their own resources and the remaining 90% is raised as loan from the Commercial Banks who charge different rates of interest varying from 11% to 15%. Out of this 5% is borne by entrepreneurs themselves and rest of the interest is subsidized by the Government for which a sum of Rs 10 lacs is provided for 1982-83. Funds for training programme are also provided to Punjab Agro-Industries Corporation under this scheme. During 1982-83, it is proposed to train 150 entrepreneurs. Another amount of Rs 5 lacs has been allocated to this Corporation for giving stipends and meeting the expenditure of the trainees.

Others :

3.42. This programme covers two schemes

namely "Gobar Gas Plants" and "Bee-keeping." The programme for the installation of Gobar Gas Plants was taken up during 1974-75. It was a 100% centrally sponsored scheme upto 31st March, 1979 but later it was transferred to State sector. To begin with, the scheme was adopted with 25% subsidy. Thereafter it was reduced to 20% from the year 1976-77. The rate of subsidy has now been enhanced to 35% with effect from 1981-82. During the period 1977-78 to 1980-81 no subsidy was advanced. For the year 1981-82, a sum of Rs 10.00 lacs has been provided for the grant of subsidy for 1000 plants. This will be implemented only when the previous back-log is cleared. The department has so far installed 7166 plants upto 31st December, 1981 against the target of 9752 plants. The main hurdle in the achievement of targets is the non-availability of cement. A sum of Rs 15 lacs has been provided for the installation of 750 Gobar Gas Plants during 1982-83.

(625 plants of 150 and 250 cft and 125 plants of 495 cft and above capacity).

3.43. Under the scheme "Bee-keeping" a Bee-keeping demonstration farm will be set up in Gurdaspur district. 50% subsidy on Bee-hives, Bee-equipment Honey Extractors etc., will be provided only to small and marginal farmers and landless labourers under this scheme. A provision of Rs 2.70 lacs has been made for 1982-83 for this scheme.

Horticulture :

3.44. The Punjab State has a vast potential for building up horticulture on commercial lines. The sub-montane tracts comprising the districts of Rehar, 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 tract with superior choice grafted varieties of Mangoes and other sub-tropical fruits. With a view to arresting the general decline in horticulture and quicken the pace of development of fruit industry on sound footings a separate Directorate of Horticulture has been established in the State.

3.45. At present, the estimated area under plantation is 25,000 hectares and the condition of most of the plantation is not satisfactory which has resulted in low yield. The department has planned to rejuvenate most of the gardens including replantation of old deteriorated and uneconomic orchards. Besides, it is envisaged to bring an additional area of 2,000 hectares under horticulture during 1982-83 for which there will be a need of 7.50 lakhs of nursery plants as per details given below:—

Table 3.13: Area to be covered and requirement of plants.

Item	Unit	Plants
1	2	3
1. Proposed new area ..	(Hects.)	2,000
2. Requirements of nursery plants for new area ..	(No)	5,00,000
3. Nursery plants for replantation ..	(No)	2,50,000
Total ..		7,50,000

3.46. For successful fruit plantation, supply of reliable and disease-free plants is a pre-requisite. The Horticulture Department has a net work of 18 Nursery cum-Progeny Orchards in different districts in addition to 60 private registered Nurseries. It is proposed to rejuvenate them for increasing the production of reliable and disease-free plants. It is proposed to develop a nursery-cum-progeny orchard during 1982-83, besides strengthening the present net work.

3.47. Some of the important measures proposed to achieve these objectives are (i) development of nursery-cum-progeny orchards, besides strengthening the present net work, (ii) adequate plant protection measures by providing 50% subsidy on insecticides/pesticides (iii) approach commercial banks for the grant of loans to the intending growers @Rs. 5,000/- per acre through ARDC scheme, (iv) purchase of high power spray equipment for ensuring timely spraying and efficient marketing/ utilisation of the produce. It is envisaged to subsidize the rate of interest on loan advances by Commercial Banks to bring down the differential rate of interest applicable to industrial loans.

3.48. Funds have also been provided for the development of Horticulture along with the 5 selected watersheds namely, Dholbaha, Janouri, Maili, Chehal and Patiala-ki-Rao under the scheme "Kandi Watershed and area development project". Besides loan, 50% subsidy on fruit plants, barbed wire, etc., will also be granted. It is proposed to cover an area of 150 hectares under new plantation.

3.49. Fruit preservation laboratories are functioning in the State at Patiala, Hoshiarpur and Abohar. In addition to this one Community Canning Centre is functioning at Amritsar to encourage preservation of fruits and vegetables for home consumption.

3.50. Punjab Horticulture Corporation is being set up in the State. All the commercial operations including production of nursery plants, marketing and utilisation of fruits will be handled by this Corporation. Funds have also been provided for the programme of 'Vegetables'. This programme has been transferred to Horticulture Department from Agriculture Department. Three schemes, namely "Development of Vegetables in rural areas" 'Production and Multiplication of seed potato' and 'Grant of permission for the construction of new cold storages control order' have been clubbed together.

3.51. The total provision for the department of Horticulture for 1982-83 is Rs 111.00 lacs against the anticipated expenditure of Rs 106.49 lacs for 1981-82.

FOOD

3.52. Under this sub-head there are only two schemes, namely 'Acquisition of Land for open storage/complexes' and 'Construction of godown'. During the current financial year there is a provision of Rs. 11.00 lacs for 'Open storage/complexes' and Rs 1.00 lac for the 'Construction of godown' at Dhuri.

3.53. The foodgrains storage godown with a storage capacity of 4,000 tonnes is under construction at Dhuri in district Sangrur. This godown could not be completed earlier due to some dispute between P.W.D. and the Contractor, which has now been settled and the work is in progress. A sum of of Rs 14 lacs has already been spent and an amount of Rs 9.00 lacs has been provided for 1982-83 for its completion.

SOIL CONSERVATION

3.54 Soil and water conservation works viz. levelling of land, bench terracing, gully reclamation, installation of underground pipelines, construction of surface storage tanks for supplementary irrigation, etc. are aimed at conserving rain water and conservative use of available irrigation resources for optimum production on sustained basis. These works also aim at maximum utilization of natural resources of soil and water for optimum production and at the same time ensuring that their quality and quantity does not deteriorate which may otherwise affect the productive capacity of resources of the State. Soil and water conservation measures are, therefore, necessary to conserve soil and water resources to obtain optimum return from the land.

3.55 The schemes of soil conservation are being implemented by two departments viz. Soil Conservation and Engineering Department and the Department of Forests. The outlays of these two departments for the Annual Plan 1982-83 are given below:—

(Rs in lakhs)

Department	1981-82		1982-83
	Outlay	Anticipated Expenditure	Outlay
1	2	3	4
Soil Conservation and Engineering	220.00	213.02	220.66
Forests	80.00	80.00	83.34
Total	300.00	293.02	304.00

3.56 Physical targets and achievements as well as schemewise detail of physical targets for the Annual Plan 1982-83 are given in Annexure I and II.

Soil Surveys

3.57. 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. 15 field parties supervised by three controlling officers are in position for carrying on detailed soil survey of the State for effective planning, resource assessment and delineating the problems and suggesting remedial measures. An outlay of Rs 13.00 lakhs has been provided under the scheme SC(A)1.1 'Soil Survey in the State' to meet the expenses on account of staff. An area of 2,40,000 hectares will be surveyed during 1982-83.

Education Research and Training

3.58. The Soil Conservation Training Institute Hoshiarpur 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 the Government of India Training Institutes is also met out of this scheme. It is envisaged to impart training to five gazetted officers and 20 non-gazetted officials during 1982-83. Besides demonstration of approved soil conservation practices and research trials will also be carried out. An outlay of Rs 5.00 lakhs has been provided for this programme in the Annual Plan 1982-83.

Soil Conservation Programme :

3.59. During 1982-83, it is proposed to carry out soil conservation measures over an area of 14,000 hectares in sub-montane and other areas of the State against anticipated coverage of 114,400 hectares during 1981-82. The main thrust of the Department would be on laying of underground pipelines over an area of 7,700 hectares and land

levelling in 4,500 hectares of area. Details of various works are as under :—

Submontane/Kandi Areas

3.60. Two schemes namely 'Soil and Water Conservation on water shed 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 Cho-damaged lands. It has been estimated that about 110,000 hectares in the Kandi tract require land levelling and bench terracing and about 15,000 hectares require gully reclamation measures. During 1982-83, it is proposed to carry out various soil conservation measures in sub-montane tract over an area of 3,600 hectares.

3.61. An outlay of Rs. 74.16 lakhs has been provided in the Plan under the scheme 'Soil and Water Conservation on watershed basis' for undertaking soil conservation measures over an area of 2,000 hectares during 1982-83. The following works will be undertaken during the year :—

Item	1982-83 target (Hectares)
1	2
(i) Bench terracing ..	800
(ii) Land levelling ..	200
(iii) Underground pipelines ..	900
(iv) Gully reclamation ..	100
Total ..	2000

3.62. Integrated watershed management programme is being implemented through World Bank assistance in the catchment of five Choes of sub-mountainous areas of the State. An outlay

of Rs 82.00 lakhs has been provided in the Plan for treatment of 1,600 hectares of area under various soil conservation measures during 1982-83 as per detail below :—

Item	Hectares
(i) Bench terracing ..	600
(ii) Land levelling ..	400
(iii) Lining of watercourses ..	100
(iv) Underground pipelines ..	400
(v) Gully reclamation ..	100
Total ..	1,600

3.63. The scheme 'Soil and Water Conservation Programme in other areas of the State' is mainly being implemented with institutional finance. An outlay of Rs. 46.50 lakhs has been provided under this scheme in the Plan. It is proposed to utilize institutional finance to the extent of Rs 3.13 crores during 1982-83 for the implementation of this scheme. An area of 10,400 hectares would be covered in the plains under this scheme. The main programmes to be covered would be laying of underground pipelines over an area of 6,400 hectares, land levelling in 3,900 hectares, field drainage in 50 hectares, gully reclamation in 35 hectares and bench terracing over an area of 15 hectares.

Forest Department—Soil Conservation :

3.64. To achieve integrated development of land and water resources in five catchments of Maili, Dholbaha, Janauri, Chohal and Patiala Ke Rao up to their outfalls, an important project of 'Kandi Water Shed and Area Development' has been taken up with financial assistance from the World Bank.

3.65. 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 considerable damage to productive agricultural lands. To increase agricultural production, generate employment opportunities and for improving the socio-economic condition

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 enterprises ;
- (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 programme for the reclamation of waste lands ;

3.66. Under the World Bank assisted Kandi Water Shed and Area Development Project afforestation over an area of 1,800 hectares would be carried out during 1982-83 in the upper catchments of 5 choes. An outlay of Rs 75.34 lakhs has been provided for this purpose. Under another Scheme 'Soil and Water conservation on watershed basis' an outlay of Rs 8.00 lakhs has been provided for afforestation over an area of 500 hectares in sub-montane tract of the State.

ANNEXURE-I

Achievements and Targets of Soil Conservation and Water Management

Item	Unit	Achievements		1981-82		Targets	
		1979-80	1980-81	Target	Anticipated Achievement	1980-85	1982-83
1	2	3	4	5	6	7	8
Soil Conservation and Water Management							
(i) Land levelling	Hectares	2,733	2,438	5,070	5,070	32,000	4,500
(ii) Bench terracing	..	3,552	3,746	1,600	1,600	14,000	1,415
(iii) Contour bunding and gully reclamation	..	261	222	650	650	5,000	235
(iv) Laying of underground pipelines	..	3,305	3,342	6,730	6,730	46,500	7,700
(v) Lining of water courses Field drainage	..	9,580	2,905	350	350	75,000	150
Total	..	19,431	12,653	14,400	14,400	1,05,000	14,000
vi) Laying of underground pipelines	Kms.	137	139	360	360	2,300	395

ANNEXURE-II

(Area in Hectares)

Serial No.	Name of the Scheme/Projects	Targets 1982-83					Total
		Land levelling	Bench terracing	Contour bunding and gully reclamation	Under-ground pipelines	Lining of water courses/field drainage	
1	2	3	4	5	6	7	8
Soil Conservation Schemes							
SC(A) 3.1	Soil and Water Conservation on watershed basis	200	800	100	900		2,000
SC(A) 3.2	Pilot Project on Development of Kandi area with World Bank Assistance	400	600	100	400	100	1,600
SC(A) 3.3	Soil and Water Conservation Programme in other areas of the State	3,900	15	35	6,400	50	10,400
Total		4,500	1,415	235	7,700	150	14,000

CHAPTER IV

Agriculture & Rural Development (II)

In view of the limited scope of addition to net area sown in the State, increased stress is being laid on the diversification of agriculture and on bringing profitability from other allied activities like animal husbandry, dairying, fisheries, forestry, etc. In order to improve the lot of economically weaker sections of the society living below the poverty line, enhanced provision has been made for Integrated Rural Development Programme under the sub-head "Community Development and Panchayats". The various development programmes are discussed below.

ANIMAL HUSBANDRY

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

4.3 Animal Husbandry has been accorded high priority with a view to augmenting milk production and subsidiary food. Against revised outlay of Rs 3.22 crores in 1981-82, an outlay of Rs 4.50 crores has been provided for the year 1982-83.

4.4 Details of Programme-wise outlays for

1982-83 as compared with 1981-82 are as under :-

Serial No.	Name of the Programme	(Rs. in lakhs)		
		1981-82 Outlay	1982-83 Anticipated Expenditure	1982-83 Outlay
1	Direction and Administration ..	8.00	4.55	4.44
2	Veterinary Services and Animal Health ..	32.43	30.71	44.79
3	Veterinary Education and Research ..	50.00	65.24	60.00
4	Investigations and Statistics ..	3.50	3.30	3.75
5	Cattle Development ..	7.10	21.99	76.46
6	Poultry Development ..	7.50	17.40	18.80
7	Sheep and Wool Development ..	3.24	2.69	3.60
8	Piggery Development ..	10.24	8.78	13.80
9	Other Livestock Development ..	178.76	150.71	209.05
10	Feed and Fodder Development ..	13.23	16.17	15.31
	Total ..	314.00	321.54	450.00

4.5 The increase in allocation from Rs 7.10 lakhs in 1981-82 under the programme of cattle Development to Rs 76.46 lakhs during 1982-83 is mainly due to the fact that implementation of Indo-Swiss Project on modified version of frozen semen technology has been taken up in the State. Besides, special live-stock production programme for rearing of cross-bred heifers and setting-up poultry, piggery and sheep units through Small/Marginal farmers and Agricultural Labourers has been included again under the sub-head 'Animal Husbandry' as per revised recommendations of Central Government. Thus cattle development has been given due priority in the Annual Plan, 1982-83 with the strategy of massive cross-breeding programme.

Veterinary Services and Animal Health

4.6 The programme aims at setting up of new veterinary dispensaries/hospitals and upgrading existing dispensaries into hospitals to provide adequate and effective health cover for the improvement and preservation of cattle wealth to increase the productivity of indigenous livestock because exotic/crossbred animals are more susceptible to diseases. At the end of 1980-81, there were 761 veterinary hospitals manned by qualified veterinarians. In addition to this there were 460 veterinary dispensaries manned by veterinary compounders/stock assistants which were looking after the health needs of the ailing livestock.

4.7 100 veterinary dispensaries opened during 1980-81 and continuing during 1981-82 will be maintained. In addition, 10 new veterinary dispensaries will be opened during 1982-83. An outlay of Rs. 19.40 lakhs has been provided in the Annual Plan 1982-83 for this purpose. An outlay of Rs. 156.40 lakhs has been provided for the maintenance of 413 veterinary hospitals-cum-artificial insemination centres already opened by the end of 1980-81. Besides, funds have also been provided for other main schemes as given below :—

4.8 Biological product section of the Punjab

Veterinary Vaccine Institute, Ludhiana will be expanded to take up additional production of flury vaccine, tissue culture vaccine and other antigens to meet the increasing demand of the veterinary institutions in the State.

4.9 For introduction of multi-disciplinary approach in combating animal diseases, reproductive disorders and nutritional imbalances, one polyclinic taken up in 1981-82 would be completed and one new polyclinic would be established during 1982-83.

4.10 Existing medical store set up in Jullundur would be expanded to handle the increased work load of distributing medicines to the veterinary institutions.

4.11 For the control of foot and mouth disease, prophylactic vaccination of exotic and crossbred animals would be intensified as these animals are more susceptible to rinder-pest disease. 2.80 lakh vaccinations would be performed during 1982-83. Subsidized vaccinations would be carried out and rupee 1 per dose would be charged from livestock owners.

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

TABLE 4.1
Physical Achievements and Targets regarding Veterinary Institutions

Item	Unit	1973-74 Actual	1978-79 Actual	1979-80 Actual	1980-81 Actual	1981-82 Targets	1982-83 Targets
Veterinary Hospitals	No.	276	348	348	348	353	353
Veterinary Dispensaries	No.	259	360	360	460	455	465
Veterinary Hospitals-cum-Artificial Insemination Centres	No.	—	202	308	413	413	413
Mobile Veterinary Dispensaries	No.	6	—	—	—	—	—
Total Veterinary Institutions	No.	541	910	1,016	1,221	1,221	1,231
Livestock Population	In lac	90.04	101.87	104.42	107.03	109.71	112.45
Heads of Livestock served per veterinary institution	In '000	16.64	11.19	10.28	8.77	8.99	9.13

Cattle Development

4.13 The main thrust of the cattle development programme is on increased production of milk. The total milk production in the State has been estimated at 3221 thousand tonnes in 1980-81 giving a per capita availability of 541 gms per day.

4.14 There are 2666 thousand breedable buffaloes and 1033 thousand breedable cows at present. Buffalo also gives a higher average daily milk yield of 4.31 litres as against 2.45 litres in the case of the cows. In the Annual Plan 1982-83, milch cattle development covers both cows and buffaloes but the accent will be

on the latter. Thus buffalo is still the primary milch animal in the State. For the improvement of cows, it is proposed to intensify cross-breeding programme with the extension of artificial insemination facilities and by the replacement of indigenous cows with cross-bred cows.

4.15 The development measures proposed to be taken are enumerated below :—

- (i) At present 35% of the breedable population of cows is being covered through artificial insemination with the semen of exotic/cross-bred bulls. Out of 1845 veterinary institutions, 500 institutions are using frozen semen and the remaining 1345 institutions are using chilled semen. About 80% of the chilled semen goes waste for want of proper transportation facilities and non-availability of ice in rural areas. Besides chilled semen cannot be preserved for more than 48 hours. To overcome this problem, it is proposed to switch over to frozen semen technique by setting up frozen semen bank-cum-bull station. Besides, the existing three frozen semen banks-cum-bull stations will be suitably expanded so that each bank would maintain 150 bulls. With the establishment of a new frozen semen bank and expansion of existing 3 banks about 70% of the breedable cow population would be covered.

- (ii) Indo-Swiss Project is proposed to be expanded to further develop Holstein Friesian breed in the southern districts of the State for the purpose of cross-breeding of local animals. Bull station-cum-semen laboratories/banks set up at Patiala and Nabha for the processing and storage of deep frozen semen will be expanded.

- (iii) It is proposed to improve the buffaloes through selective breeding and use of progeny tested bulls. Evaluation of the performance of buffalo-bulls will be taken up in the field conditions. A large number of bulls will be tested on reasonably large number of daughters. This would give a better appraisal of the breeding value of bulls and would provide increased scope for selecting high quality bulls. At first, the programme will be taken up in Patiala and Sangrur Districts. An elite herd of 200 buffaloes producing good pedigree bulls will be built at Buffalo Breeding Farm, Nabha.

- (iv) Under the special livestock production programme for rearing of cross-bred heifers and setting up of poultry, pig-gery and sheep units, subsidy will be given in the form of concentrates for 7000 calves and setting up of 742 poultry units and 95 piggery units during 1982-83.

4.16 The table below gives the number of milch cattle and milk production by type of cattle in the State.

TABLE 4.2
Stock of Milch Cattle and Milk Production by Type of Cattle

Item	Unit	1973-74	1978-79	1979-80	1980-81	1981-82	1982-83
1	2	3	4	5	6	7	8
Milch Cattle	.. Thousand No.	2884	3443	3568	3699	3834	3977
(i) Buffaloes	.. Do	1979	2449	2555	2666	2782	2904
(ii) Cows	.. Do	905	994	1013	1033	1052	1073
Milk Production	.. Thousand Tonnes	2100	2843	3059	3221	3514	3750
(i) Buffaloes	.. Do	1700	2302	2420	2558	2695	2805
(ii) Cows	.. Do	400	541	639	663	819	945
Per capita availability of milk per day	Gms.	404	497	524	541	579	610

Poultry Development

4.17 Poultry Development provides employment both in rural as well as urban areas, supplies nutritive food to the consumers in the form of meat and eggs and manure for use in the field. Poultry production made rapid strides in the last decade. 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 at 517 millions in 1980. It would be raised to 629 millions in 1982-83 from the anticipated production of 564 million in 1981-82. An outlay of Rs. 18.80 lakhs has been provided for this programme for 1982-83.

4.18 Following are the major programmes for poultry development during the Annual Plan 1982-83.

4.19 The present production of 2.75 lakh pullets will be increased to 3.25 lakh through the expansion of hatcheries by providing additional layers, incubators and by optimum utilisation of existing facilities at the poultry farms.

4.20 A broiler project would be expanded for raising 50,000 a day old hybrid broiler chicks annually. A parent stock of 3,000 birds will be maintained at the farm.

Sheep Development

4.21 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 1980-81 was estimated at 1210 thousand kg. This is proposed to be increased to 1325 thousand kg. in 1982-83 from the anticipated production of 1300 thousand kg. in 1981-82. Sheep population is dwindling because the sheep breeders do not find grazing lands due to intensive cultivation of land. The main programme includes the supply of adequate number of cross-bred rams; corriedale rams will be maintained at the sheep and wool extension centres for using them for cross-breeding purpose. Effective health cover will be provided through the supply of anthelmintics, anti-biotic insecticides and other sheep vaccines. An outlay of Rs. 0.50 lakh has been provided for 1982-83 for this purpose.

Piggery Development

4.22 Pig population was estimated at 85,000 in 1976-77. With the rising standard of living,

people are becoming more conscious of nutritious food and consequently the demand for consumption of pork and pork products is also increasing. The demand for piglets has also increased because pigs are highly prolific and rapid growers and can quickly be multiplied to meet the increasing demand for animal proteins. The existing 7 pig breeding farms are not in a position to meet the ever growing demand for piglets from the breeders. To meet the shortage of piglets, the development programme includes the setting up of 5 additional pig farms in the remaining 5 districts. Expansion of pig farms at Nabha and Kharar would continue during 1982-83 to raise the strength of breeding sows to 200. At Kharar 100—150 pigs will be fattened to ensure regular supply of fattened stock. To make pig rearing more profitable, it is proposed to supply weaners on subsidized rates and to supply ingredients like rice polish and mollasses at controlled rates.

Fodder Development

4.23 Existing fodder resources in the State are not only deficient but also lack in quality. As livestock development programme and dairy project are directly related to the development of feed and fodder, the following measures have been proposed to ensure regular and adequate supply of fodder :—

- (i) Seed multiplication arrangements for the production of improved and certified seeds will be made through the closer co-ordination between the Research Institutes, Seed Agencies and farmers.
- (ii) For popularization of fodder varieties, 1800 quintals of improved fodder seeds will be produced as against the supply of 1426 quintals during 1980-81 and likely supply of 1400 quintals during 1981-82. Besides 2200 demonstration plots will be laid during 1982-83 against the anticipated achievement of 1500 demonstration plots during 1981-82. 320 hectares of area will be covered during 1982-83 for the production of fodder seed through the registered growers against the anticipated achievement of 285 hectares during 1981-82.
- (iii) Production at the existing Government farms at Mattewara and Nabha would be increased.

- (iv) Milk production is expected to rise to 3750 thousand tonnes in 1982-83 from the level of 3514 thousand tonnes during 1981-82.

Other Livestock Development Programme

4.24 Implementation of World Bank assisted 'Kandiwater Shed and Area Development Project would continue during 1982-83 in the five catchments upto their outfalls. Under this programme 500 cross bred cows/high yielding buffaloes would be supplied to the inhabitants of the Project area to replace the existing stock of low milch yielding cows/buffaloes as against the likely supply of 350 cross-bred cows/high yielding buffaloes during 1981-82.

DAIRYING AND MILK SUPPLY

4.25 Dairy Development Programme launched in the State aims at meeting the nutritional needs of the population in the rural areas and at the same time yielding surplus milk for marketing in towns. This programme will also provide the milk producers, landless, small/marginal farmers and agricultural labourers, with remunerative supplementary activities thus, promoting diversification of agriculture. Commercial dairy farming on scientific lines would also provide the educated unemployed with new avenue of gainful self-employment. An outlay of Rs. 65.00 lakhs has been provided in the Annual Plan, 1982-83 for the implementation of various schemes under the sub-head 'Dairying and Milk Supply' against the anticipated expenditure of Rs. 50.63 lakhs during 1981-82. In addition to the departmental programmes of dairying, National Dairy Development Project-Operation Flood-II has been taken up in the Co-operative Sector in the State to develop self-sustaining and self-supporting dairy industry with financial assistance from Indian Dairy Corporation/National Dairy Development Board. The Corporation is likely to provide about Rs. 58.32 crores. In the State Plan Schemes, the main thrust of the department would be to organize intensive dairy training programme so as to provide essential know-how in dairying to farmers and un-employed youngmen/women so as to enable them to establish mini dairy farms for improving the socio-economic conditions of the people belonging to weaker sections of the society. Various programmes/schemes to be implemented during 1982-83 are discussed below :—

Dairy Development

4.26 To ameliorate the economic condi-

tions of the people residing in border, sub-montane, bet and other backward areas of the State, the Dairying and Milk Supply Department is setting up milk chilling-cum-demonstration centres in the State to provide regular and remunerative marketing facilities to the inhabitants of the areas. 4 chilling centres at Narot Jaimal Singh (Gurdaspur) Ghallu (Ferozepur), Gho (Gurdaspur) and one in district Amritsar in border areas, one chilling centre at Jhingri (Ropar) in sub-montane areas, 2 chilling centres at Chhokaran (Jullundur) and Lassara (Jullundur) in bet areas and 3 chilling centres at Changaliwala (Sangrur), Sardulgarh (Bhatinda), and Jauria Kalan (Gurdaspur) have been taken up where construction of buildings and installation of machinery would remain in progress during 1982-83. Each chilling centre would have a handling capacity of 5,000 litres of milk expandable to 10,000 litres. These chilling centres would encourage subsidiary occupations and help the milk producers to produce milk on commercialised basis. An outlay of Rs. 32.50 lakhs has been provided in the Annual Plan 1982-83 for completion of milk chilling-cum-demonstration centres in the State.

4.27 With a view to providing self-employment to educated youngmen/women belonging to weaker sections of the society in rural areas for introducing scientific and commercialized milk production, 21 days training will be imparted to 720 candidates during 1982-83. Stipend at the rate of 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 upto 5 milch animals. Besides, the following subsidies are also proposed to be provided to the trainees :—

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

4.28 An amount of Rs. 12.00 lakhs has been provided under the special employment scheme during 1982-83.

4.29 Under the plan scheme "Providing of subsidy for the construction of model cattle sheds

to small and marginal farmers" 500 families belonging to the weaker sections and who are maintaining at least 5 milch animals would be identified for grant of subsidy for the construction of model cattle sheds @ Rs. 1,000 per family. The remaining amount of Rs. 3,000 to Rs. 4,000 would be borne by each beneficiary from his own resources. An outlay of Rs. 5.00 lakhs has been provided for this purpose during 1982-83.

4.30 Punjab Dairy Development Corporation has been provided additional share capital contribution for the replacement, addition and renovation of machinery at the existing milk plants and to meet other essential obligations for the development of the dairy industry. Under the plan scheme "Strengthening of Punjab Dairy Development Corporation a provision of Rs. 5.00 lakhs has been made for 1982-83. Besides a token provision of Rs. 1.00 lakh has also been made for the establishment of cattle feed factory at Gurdaspur.

4.31 For imparting technical know-how to the farmers in the scientific technique of feeding, breeding and better managerial practices to encourage diversification of Agriculture by taking up supplementary activities of dairying, etc., the extension/training services will be continued in the State during 1982-83. It is envisaged to impart training to 1,220 farmers/milk producers in 5 days/one month training courses in scientific dairying. The trainees will be paid messing charges @ Rs. 5 per day. An outlay of Rs. 3.00 lakhs has been provided for this programme. To meet the growing requirements of milk plants/milk chilling centres for technical personnel, an outlay of Rs. 0.50 lakh has been provided for sponsoring 8 candidates for IDD and 4 candidates for B.Sc. courses during 1982-83.

Other Programmes

4.32 As per terms of agreement executed with UNICEF, Punjab Govt. will arrange to supply in a period of 10 years milk worth Rs. 50.00 lakhs equal to $1\frac{1}{2}$ times the landed value of machinery donated by UNICEF. 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 in the periphery of Ludhiana city. An amount of Rs. 5.00 lakhs would be released to Punjab Dairy Development Corporation during 1982-83 which will supply milk to the weaker sections of the society.

An outlay of Rs. 1.00 lakh has been provided for strengthening the Headquarters staff to enable the department to streamline its activities.

FISHERIES

4.33 In order to supplement agriculture with aquaculture and to reduce the gap between the availability and requirements of high quality protein, for subsidiary food at reasonable prices, special attention will be given to augment fish production in the State. According to the survey conducted by the Fisheries Department, the State has considerable resources for fresh water fish culture. The length of the rivers is 1,830 km. and that of canals and distributaries is 13,445 km. The village ponds and tanks suitable for fish culture have a total area of 3,100 hectares. In addition, there are 1,200 hectares of back water areas and 4,400 hectares of continuous strips of depressions along canals. The total impounded area available for fish culture adds up to 8,700 hectares. The large number of tube-wells and pump-sets make it possible to practise fish culture in dug ponds.

4.34 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 schemes of Fish Farmers Development Agencies at Gurdaspur, Jullundur, Amritsar and Ludhiana, additional 200 hectares of water area will be brought under fish culture during 1981-82 and an equal area is likely to be covered during 1982-83. Thus to cover 900 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 1.35 crores annually if stocked @ 5,000 fingerlings per hectare. The production capacity of the existing Six Fish Seed Farms and eleven nurseries when completed will, however, be to the extent of 60 lakh fingerlings annually.

4.35 An outlay of Rs. 45.00 lakhs has been provided for 1982-83 for the development of fisheries as against the anticipated expenditure of Rs. 29.00 lakhs during the current year. Main programmes/schemes for the Annual Plan 1982-83 are discussed below :—

Fish farms

4.36 Under this programme, the Fisheries Department envisages the completion of construction work on the on-going fish seed farms and fish

seed nurseries. Work of installing Glass Jar hatcheries would also be taken up in these fish seed farms and nurseries to raise the fish seed production in the State for which an outlay of Rs. 17.00 lakhs has been provided during 1982-83. Besides this, it is also proposed to establish one more fish seed farm in the vicinity of Shah-Nahar Reservoir which would yield 5 lakh fingerlings annually for stocking the reservoir (200 hectares of water areas).

4.37 Under the World Bank assisted Kandi Watershed and Area Development Project, the construction work would remain in progress at two fish seed farms one each in the district 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 head-works. An outlay of Rs. 10.00 lakhs has been provided during 1982-83 for this purpose.

4.38 Under this programme, an outlay of Rs. 27.10 lakhs has been provided in the Annual Plan 1982-83.

Education and Training

4.39 It is contemplated to dis-seminate technical know-how of fish culture technology by way of Publicity, exhibition of film shows and other audiovisual media for mobilizing people to adopt fish farming. It is envisaged to depute one district fisheries Officer for higher technical training course of 2 year's duration at Central Institute of Fisheries Education, Bombay, four fisheries officers for one 'years' fisheries training course at Central Fisheries Research Institute Barrakpur (Calcutta) and four fishermen/field assistants for nine months training course for specialization in inland Fisheries operations at Regional Training Centre, Agra, during 1982-83. An outlay of Rs. 0.50 lakh has been provided for 1982-83 for the training programmes.

Inland Fisheries

4.40 To uplift the rural economy and to provide self-employment opportunities to the unemployed rural people, it is proposed to introduce intensive fish farming in rural areas to utilize water areas to the extent of 60 hectares for fish farming by giving 25 percent subsidy both for excavation and renovation of ponds/links. 30 hectares of water area will be newly

excavated and another 30 hectares will be renovated during 1982-83.

4.41 Under the Plan Scheme 'Assistance to Fish Farmers Development Agencies of Gurdaspur, Amritsar, Jullundur, Ludhiana, it is expected that 200 hectares of water area will be brought under fish culture by all these 4 agencies functioning in the State. An outlay of Rs. 8.00 lakhs has been provided during 1982-83 for this purpose.

Direction and Administration

4.42 For scientific development of aquaculture in the State, it is proposed to strengthen the staff at Headquarters and in sub-offices by providing adequate technical and administrative staff. An outlay of Rs. 1.50 lakhs has been provided in the Annual Plan 1982-83 for this purpose. Economic and Statistical Cell in the Fisheries Department will be continued during 1982-83 for which an outlay of Rs. 0.65 lakh has been provided.

4.43 The fish production is projected to grow from the anticipated production of 3,000 tonnes in 1981-82 to 3,200 tonnes in 1982-83.

FORESTS

4.44 After the reorganisation of the State in 1966, 1,850 sq. kilometres of forest area came to the share of Punjab out of the 20,000 sq. kilometres of forest area of erstwhile Punjab. This area has now increased to 2,244 sq. kilometres by transferring some evacuee land, land of the Revenue Department and some area belonging to Defence Department. The forest area now constitutes 4.4% of the geographical area of the State.

4.45 The State is deficient in forest area as compared to the norm of 33% laid down under the National Forest Policy. Most of the forest area is situated in the hills of Ropar, Hoshiarpur and Gurdaspur districts. 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 are planted along farm boundaries, roads and rail strips.

4.46 In the Annual Plan 1982-83, the main emphasis will be laid on the development of forests

in the sub-montane areas of the State particularly Shivalik hills and distribution of plants among the people to cover the boundaries of their land-holdings, water channels, waste and marginal lands owned by the individuals and Panchayats. Block-strips along railways, roads and canals will also be covered.

4.47 In order to continue the forestry operations in the State, an outlay of Rs. 250.00 lakhs has been provided in the Annual Plan 1982-83 against the anticipated expenditure of Rs. 254.58 lakhs during 1981-82. Main programmes/schemes to be implemented under this sub-head are briefly discussed below :

Forest Research, Education and Training

4.48 An outlay of Rs. 3.50 lakhs has been provided under this programme during 1982-83. It is proposed to undertake research regarding plantation techniques for extension of important species like Bhabbar grasses, Eucalyptus, Pines and other economic species suitable for different climatic and soil conditions, trial of medicinal plants and fodder grasses. Research would be conducted departmentally and by Punjab Agricultural University. In order to keep the staff abreast of modern techniques, training is imparted to field staff, namely, forest guards, foresters and deputy rangers at Forest School, Hoshiarpur. Besides this, refresher courses are also conducted for forest rangers. An outlay of Rs. 1.00 lakh has been provided in 1982-83 for this purpose.

Plantation Schemes

4.49 An outlay of Rs. 179.00 lakhs has been provided in the Annual Plan 1982-83 for undertaking afforestation over the areas owned by the individuals and State waste lands under the control of the Forest Department. Plantation of economic species like Shisham, Kikar, Eucalyptus, Mulberry, Khair, Bamboos and Chil would be raised in block forests and strips along railways, roads and canals to meet the agricultural, domestic and industrial requirements. The existing tree crops of inferior species would be replaced by superior species of economic trees. Under the main scheme of plantation of Sisso, Babul, Eucalyptus, Chil, etc., a sum of Rs. 90.00 lakhs has been provided in 1982-83 for raising plantations over 3,000 hectares of area to supplement wood resources. Strip plantations would serve as shelter-belts and wind-breaks against soil erosion and hot dry winds.

4.50 An outlay of Rs. 8.00 lakhs has been provided in 1982-83 under the plan scheme 'Development of forests in community lands'. It is envisaged to plant 300 hectares during 1982-83. Initially the expenses of plantations would be borne by the Government and the aftercare including maintenance and protection will be the responsibility of owners of the lands.

4.51 Under the plan scheme 'Farm Forestry', it is proposed to supplement the forest wealth by planting of tree by the people in their agricultural fields, along the boundaries of their holdings, edges of water channels, along village paths, in schools and various other institutions and private waste lands for which an outlay of Rs. 16.000 lakhs has been provided in 1982-83 in the State Plan. Plantations under this scheme would also be supplemented with assistance of Rs. 30.000 lakhs from Government of India under 'National Rural Employment Programme'. An equal amount has been provided in the State Plan also under N.R.E.P. It is envisaged to raise 166 lakh plants for distribution to the people during 1982-83.

4.52 Under the Centrally-sponsored Scheme 'Soil Water & Tree Conservation', it is aimed to have an integrated development of watershed through the adoption of various afforestation and soil conservation measures. During 1982-83, 2500 hectares of area would be covered under plantations. An allocation of Rs. 25.00 lakhs has been provided in Annual Plan as State share. Under another Centrally-sponsored Scheme, 'Raising of Fuel Wood Plantations' an area of 2,500 hectares would be brought under afforestation during 1982-83 in addition to distribution of 50 lakh plants to the people. An allocation of Rs. 35.00 lakh has been provided as State share during 1982-83.

4.53 'Environmental forestry' will comprise planting of trees, shrubs, creepers, ornamental and shady trees on strips under the control of Forest Department falling within the municipal limits. An outlay of Rs. 5.00 lakhs has been provided during 1982-83 for planting an area of 50 hectares.

4.54 Under the World Bank Assisted "Karnal Watershed and Area Development Project" afforestation over an area of 1.800 hectares would

be carried out during 1982-83 in the upper catchments of five choes. In addition, afforestation over an area of 500 hectares would be done under the 'scheme soil and water conservation on water-shed basis.'

Preservation of Wild Life

4.55 An outlay of Rs. 60.00 lakhs has been provided in the Annual Plan 1982-83 for this programme. Zoological Park which is considered a necessity in a progressive State for recreation and rehabilitation of wild life is being established at Chhat Bir (Chandigarh). An outlay of Rs. 50.00 lakhs has been provided for this purpose in the Annual Plan 1982-83. This provision would be utilized for the construction of new buildings, enclosures for animals and purchase of various

species of animals/birds for the Zoo.

Other Programmes

4.56 An outlay of Rs. 5.00 lakhs has been provided during 1982-83 for the construction of suitable office and residential buildings for the subordinate staff to improve their efficiency. A provision of Rs. 0.50 lakh has been made in the Annual Plan 1982-83 for the statistical Cell set up at the Headquarters for the collection of Statistical data relating to forestry operations. Besides a token provision of Rs. 1.00 lakh has been made for setting up State Forest Development Corporation.

TABLE 4.3 : Physical Achievements and Targets

Item	Unit	1980-81	1981-82		1982-83
		Actuals	Target	Anticipated Achievements	Target
1	2	3	4	5	6
(a) Economic and Commercial Plantations	000 Hects	13.58	12.95	12.95	10.65
(b) Farm Forestry	No. of Plants (in lakhs)	67.12	60.00	200.00	216.00

COMMUNITY DEVELOPMENT AND PANCHAYATS

4.57. Rural Development and Panchayats Department is concentrating mainly on the welfare activities and improvement of village sanitation by pavement of streets, construction of drains, utilization of sullage water, construction of panchayat ghars and provision of facilities for promoting craft works such as tailoring, embroidery, cane work and doll making, etc.

4.58. An outlay of Rs. 806.76 lakhs has been provided for this sub-head of development in the Annual Plan 1982-83 against the outlay of Rs. 705.00 lakhs earmarked for 1981-82. The major emphasis under this sub-head in the Annual Plan 1982-83 will be laid on the implementation of Integrated Rural Development Programme for which an outlay of Rs. 472.00 lakhs has been provided under the scheme CD 4.1 'Assistance to Rural Development Agencies for Integrated Rural Development Programme' and 'Pavement of Streets and construction of drains' (Rs. 200.00 lakhs). The remaining schemes of the department which

are relatively of low priority nature have been allocated a sum of Rs. 134.76 lakhs.

Integrated Rural Development Programme :

4.59. In pursuance to the guidelines and recommendations of Government of India programmes of IRD/SFDA/MFAL have been merged into a single programme called 'Integrated Rural Development Programme', with effect from October 2, 1980. Prior to this, nine SFDA/MFAL Agencies were functioning in this State. In order to make the functioning of IRD programme more effective double District Agencies of Amritsar-Ferozepur, Jullundur-Kapurthala and Patiala-Sangrur have been bifurcated with the result that each district of the State is now covered by a Rural Development Agency for the implementation of IRD programme. The performance of IRD programme would be judged not in terms of the number of families assisted but in terms of families brought above the poverty line. The major emphasis under this programme is now being laid

on imparting practical training to the target groups, arranging institutional finance for the trained persons to enable them to set up their own enterprises to become self-sufficient. The setting up of dairy, Poultry, Piggery and Sheep units is also being encouraged to provide subsidiary income to the economically weaker sections of the society living below the poverty line.

4.60. A special survey has been conducted in the Punjab State by the Economic and Statistical Organisation of the State and eligible persons have been identified. Cards of distinctive yellow colour have been issued to such persons with a view to make loan and subsidy available to the right persons. In addition to the grant of capital subsidy amounting to about Rs. 9.00 crore, interest-free loans to the extent of about Rs. 16 crore are likely to be advanced under this programme during the current year. In 1980-81, out of total funds of Rs. 813.83 lakhs available with various Agencies of the State, a sum of Rs. 647.66 lakhs was expended for the implementation of this programme. In all 63,882 beneficiaries were covered of which 26,796 persons were Scheduled Castes.

4.61. A sum of Rs. 472.00 lakhs has been provided for the implementation of this programme during 1982-83 @ Rs. 4.00 lakhs per block. Matching contribution will be provided by Government of India to meet its share. It is proposed to provide assistance to 70,800 families so as to lift them to cross the poverty line. An amount of Rs. 13.00 lakhs has been provided on account of interest subsidy on bank loans to be advanced to the economically weaker sections in the rural areas. Additional funds will be provided during the course of the year to meet the requirement on this account fully.

Pavement of Streets

4.62. 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. During 1980-81, 1,001 villages have been covered wholly or partially. Pavement of streets has been completed in 1,451 villages under Rural Planning Programme during the period 1975-78. In addition 973 villages have been covered under 'Model Village' scheme.

4.63. 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. A sum of Rs. 200.00 lakhs has been provided under the scheme CD3-3 'Pavement of streets and construction of drains'. Besides a sum of Rs. 130.00 lakhs has been provided under National Rural Employment Programme. An equal amount would flow from Government of India. 270 villages are likely to be covered during 1982-83. The schemes 'Underground Water Sewerage' and 'Development of Model Villages' have now been merged with this scheme.

Panchayat Ghars and Community Halls.

4.64. Grant-in-aid amounting to Rs. 25,000 is sanctioned for construction of Panchayat Ghars/Community Halls. Land for the construction of Panchayat Ghars 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 out of their own resources. An outlay of Rs. 20.00 lakhs has been provided in the Annual Plan 1982-83 for the construction of 80 Panchayat Ghars/Community Halls to enable the Panchayats to hold meetings at a common place.

Financial assistance to Panchayats/Panchayat Samities for revenue earning schemes

4.65. Under the scheme 'Financial assistance to Panchayats/Panchayat Samitis and Zila Parishads for expenditure on revenue earning scheme' it is proposed to provide interest subsidy on bank loans amounting to Rs. 3.40 crore to be raised by about 1,700 Panchayats during the Plan period for the creation of revenue earning assets. A sum of Rs. 38.00 lakhs has been allocated under this scheme for providing interest subsidy.

Assistance to Mahila Mandals, Balwadis and Craft Centres :

4.66. 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. 8.00 lakhs has been provided during 1982-83 to grant financial assistance to 1,500 Mahila Mandals. It is proposed to provide Rs. 5,000 as seed money to 118 Mahila Mandals to enable them to take up revenue earning projects. Mahila Mandals will also be

provided subsidy for training of office-bearers, and for meeting the expenditure on the honorarium to the secretaries of the concerned Mahila Mandals. The scheme 'Composite programme for women and 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 demonstration 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. 5.50 lakhs has been provided in the plan for 1982-83 for the implementation of this programme. This scheme will cover 245 Balwadis and 354 Craft Centres.

Matching Grants to Panchayats

4.67. 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. 40.00 lakhs for 1982-83. 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

National Rural Employment Programme

4.69. The programme has three basic objectives as under :—

- (i) Generation of additional gainful employment for the unemployed and under-employed persons, both men and women in rural areas ;
- (ii) Creation of durable assets for strengthening rural infrastructure which lead to rapid growth of rural economy and steady rise in the income levels of the rural poor;
- (iii) Improvement of nutritional status and the living standard of the rural poor.

4.70. The programme is being implemented as a centrally-sponsored scheme on 50 : 50 basis between the Centre and the State. The Centre will provide its share in the form of foodgrains to the extent surplus foodgrains are available and the rest in cash. The ratio between material component and wage component in respect of individual works

considered important for supporting and implementing the concept of planning at the grass roots and community involvement. During 1980-81 an expenditure of Rs. 50.00 lakhs was incurred under this scheme for hospitals, civil dispensaries, veterinary dispensaries, school buildings, panchayat ghars, everclean latrines and pavement of streets and construction of drains, etc.

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

(Rs. in lakhs)

Name of the scheme	Outlay 1982-83
(i) CD 1.1 Staff for Integrated Rural Development Programme and Publicity through Audio-visual aids at Focal Points	4.50
(ii) CD 2.1 Study tour of non-officials	0.30
(iii) CD 2.3 Intensive development Programme in selected ANP Blocks	0.46
(iv) CD 3.8 Grant-in-aid to Zila Parishads/Panchayat Samitis for Integrated development of villages of historical/religious importance	5.00

is to be 40 : 60 while the over all limit for material component is not to exceed 33% in any district.

4.71. During the year 1981-82 there was an approved State share outlay of Rs. 205.00 lacs under head Community Development against which the anticipated expenditure is Rs. 252.00 lacs. The outlay proposed for 1982-83 is Rs. 260.00 lacs as State share out of which Rs. 30.00 lacs are for afforestation works, Rs. 100.00 lacs for drainage and anti-waterlogging works, and Rs. 130.00 lacs for pavement of streets and construction of drains.

4.72. It is anticipated that under this programme 150.00 lacs plants will be made available from nurseries for plantation, 2.5 kms. of embankments would be raised and 23 kms. of surface drains would be dug holding protection to 0.25 lakh hectares. 270 villages will be taken up for pavement of streets and construction of drains. All these operations are expected to generate 28,00,000 mandays.

CHAPTER V

Co operation

A strong and viable co-operative sector is imperative for launching an effective programme of rural reconstruction, as co-operatives are 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 of success.

5.2. An expenditure of Rs. 544.88 lakhs was incurred for the implementation of various schemes during 1980-81 and it is anticipated that an amount of Rs. 820.00 lakhs would be utilised during 1981-82. An outlay of Rs. 900.00 lakhs has been allocated for this sub-head of development for Annual Plan 1982-83. The schemes under this sub-head of development are being implemented by two departments namely, Department of Co-operation and Department of Co-operative Audit. Allocations provided for these departments are as under :—

	(Rs. in lakhs)
Departments	1982-83 Outlay
Co-operation	884.00
Co-operative Audit	16.00
Total	900.00

5.3. The main emphasis in the Plan of Co-operation Department has been laid on credit structure, Co-operative Storage, completion of ongoing Spinning Mills, initiation of a New Co-operative Spinning Mill in the weavers sector, a Cooperative Sugar Mill, installation of Co-operative Cold Storages under World Bank Project and strengthening of capital base of the State level Milk Federation. All the major schemes of the Department are directed towards improvement of the economic condition of the rural people.

Credit Co-operatives

5.4. The Co-operative structure in the State is basically credit oriented. The system of advancing loans to the members of Primary Co-operative Agricultural Service Societies has already been rationalised. Cash credit system has been introduced under which personal ledger accounts of all the non-defaulting members of the affiliated service societies can be operated upon by the members themselves according to their requirements through cheque books within their maximum borrowing limits. The main constraint in the flow of credit has been low recoveries and mounting overdues. Though 10,000 Primary Co-operative Agricultural Service Societies were reorganised into 2581 viable units during 1979-80, yet the position of overdues has not improved during 1980-81. Overdues were 24% of the demand in the base year 1979-80 which rose to 30% during 1980-81. The Department of Co-operation anticipates to bring down the overdue level to 22% during 1981-82 and further bring it down to 20% by the end of 1982-83. The Department of Co-operation will have to strive hard to achieve this projected target.

5.5. The reorganised Primary Co-operative Agricultural Service Societies advanced short-term agricultural loans to the extent of Rs. 220.49 crores during 1980-81. The advances are proposed to be pushed up to Rs. 275.00 crores during 1982-83 against the anticipated achievement of about Rs. 250.00 crores during the current year. The advancement of long term loans by Primary Co-operative Land Mortgage Banks are also proposed to be stepped up from anticipated level of Rs. 38.00 crores during 1981-82 to Rs. 44.00 crores during 1982-83. Deposits of Central Co-operative Banks which were Rs. 145.71 crores at the close of 1980-81 are proposed to be raised to Rs. 207 crores during 1982-83 against the likely achievement of about Rs. 200 crores during 1981-82. Marketing of agricultural produce is likely to be increased from 12.14 lakh tonnes in 1980-81 to 13.67 lakh tonnes during 1981-82. The target for 1982-83 has been fixed at 16.30 lakh tonnes. Similarly

There would be a substantial increase in the purchase of cotton which was 1.00 lakh bales during 1980-81. Purchase of cotton is likely to rise to 4.50 lakh bales during 1982-83 against the likely achievement of 3.50 lakh bales during 1981-82. The sale of consumer goods by Co-operatives in rural areas is proposed to be increased from Rs 26.09 crores during 1980-81 to Rs 45 crores during 1982-83 against the likely achievement of about Rs 40 crores during 1981-82. Another important activity of the Co-operation Department is the procurement of fertilizers, seeds and other inputs direct from the source by the selected Primary Co-operative Agricultural Service Societies.

5.6. An outlay of Rs 86.00 lakhs has been provided in the plan under the scheme CN 2.3 Share capital contribution to Co-operative Banks and Primary Co-operative Agricultural Service Societies. Funds under this programme flow from Reserve Bank of India out of its Long-term Operations Fund in the form of loan to the State Government for investment as share capital in Banks and Primary Cooperative Agricultural Service Societies to enable them to discharge their functions effectively for providing finance for the purchase of fertilizers and various other agricultural inputs.

5.7. A massive programme for the construction of rural godowns as well as wheat storage godowns has been initiated in this State under NCDC-II World Bank Co-operative Storage Project. As per this programme 1,550 rural godowns and 49 marketing godowns of the capacity of 4 lakh tonnes each are to be completed in a period of 5 years commencing from 1981-82 to 1985-86. In the project year 1980-81, assistance amounting to Rs 59.50 lakhs was released to the Markfed Punjab for construction of 42 Ware-houses of the capacity of 83,850 M. tonnes. NCDC has also sanctioned loan assistance amounting to Rs 148.74 lakhs to the Markfed Punjab during 1980-81 for this purpose. The cost of this project including physical and price contingencies works to about Rs 51.82 crores. Assistance from the World Bank is to be routed through NCDC and the total project cost would be met in accordance with the following pattern of assistance:—

(1) Loan from NCDC to
Co-operative Societies through
Punjab State Co-operative
Bank 50%

(2) (i) Share capital by State Government out of State Plan resources	20%	} 45%
(ii) Share capital by State Government with NCDC assistance	25%	
(3) Societies own funds	5%	

5.8. During 1982-83, it is proposed to provide assistance for 385 rural godowns and 30 marketing godowns of the capacity of 80,000 M. tonnes each. A sum of Rs 98.06 lakhs out of total allocation of Rs. 111.84 lakhs has been provided for 385 rural godowns under World Bank Co-operative Storage Project under the scheme CN 2.2 "Assistance to Co-operative Primary Agricultural Service Societies for construction of godowns." Balance amount of Rs. 13.78 lakhs has been provided for granting subsidy @ 40% under old pattern of assistance. A sum of Rs 143.59 lakhs is expected to be availed from NCDC for construction of rural godowns. Besides a sum of Rs 5 lakhs has been provided for granting assistance to the Central Cooperative Banks for the creation of agricultural stabilisation fund. An equal amount would flow from Government of India for this purpose under Centrally Sponsored Scheme. In addition an amount of Rs. 10.00 lakhs has been provided for granting outright subsidy for creating bad debt reserves Risk Fund. This amount will be utilised for granting subsidy at 2% of additional advances by Primary Co-operative Agricultural Service Societies to small and marginal farmers.

Housing Co-operatives

5.9. The Punjab State Federation of Co-operative House Building Societies (HOUSEFED) is an apex body at the State level. The activities of this institution were relatively slow up to 30th June, 1979. During a period of about 9 years it could avail institutional finance from L.I.C. to the tune of Rs. 50.00 lakhs only. Advances during this period i.e. from November, 1970 to 30th June, 1979 amounted to Rs 2.50 crores. The work of this institution has now been reactivated. It has been in a position to obtain financial accommodation of Rs 2.00 crores from the L.I.C. and has sanctioned loans amounting to Rs 3.52 crores during the period 1st July, 1979 to 31st July, 1981. The HOUSEFED has also applied to the L.I.C. during 1981-82 for sanction of loans amounting to Rs 8.00 crores. The HOUSEFED also proposes to advance a sum of Rs 4.00 crores to the affiliated societies during the current year. In view of the urgent need of

providing loans in urban as well as rural areas for construction of houses, it is imperative that the State Government may strengthen the equity base of this State level Housing Federation to enable it to raise maximum institutional finance. An outlay of Rs 10.00 lakhs has been provided under the scheme CN 3.1 'Share capital contribution to Housing Societies/Housing Federation as margin money' during 1982-83 to strengthen the capital base of the HOUSEFED.

Warehousing and Marketing

5.10. An outlay of Rs 61.00 lakhs has been provided under this programme against anticipated expenditure of Rs 57.50 lakhs during the current year. The main scheme to be implemented under this programme relates to construction of Wheat Storage Godowns for which 20 per cent funds are to be provided by the State Government in the form of share capital. NCDC will be providing funds to the extent of 50 per cent in the form of loan and 25 per cent as share capital. The balance 5 per cent will be contributed by the Markfed itself. An outlay of Rs 56.00 lakhs has been provided for construction of 80,000 tonnes capacity godowns during 1982-83. An outlay of Rs 5.00 lakhs has been provided to Markfed for contribution as share capital in 'KRIBHCO' fertilizers.

Processing Co-operatives

5.11. The major emphasis of the Co-operation Department continues to be on strengthening the credit structure in the State. A good beginning has been made in the development of processing sector. The setting up of Spinning Mills is a high priority sector to ensure that benefits up to the level of processing can flow back to the farming community. The Department of Co-operation has, therefore, initiated the work in respect of setting up of four Spinning Mills in the Co-operative sector at Abohar, Malout, Mansa and Barnala at Tappa at a total estimated cost of about Rs 32.77 crores. A sum of Rs 267.50 lakhs was provided by the State Government to the State level Spinning Mills Federation for setting up aforementioned mills during 1979-80 and 1980-81. An outlay of Rs 220.00 lakhs is likely to be provided for this purpose during the current year. In accordance with the financing pattern of the scheme, State Government is required to contribute 22.5 per cent of the total project cost which works to Rs 707.32 lakhs

(excluding Central subsidy). The State Government would be providing Rs 487.50 lakhs by the close of current financial year. An outlay of Rs 230.00 lakh has, therefore, been provided in the Annual Plan 1982-83 to meet the State share fully. National Co-operative Development Corporation is also required to provide matching contribution amounting to Rs 707.32 lakhs against which an amount of Rs 217.25 lakhs has been provided by NCDC so far. It is desirable that the entire balance amount may be provided by the NCDC at the earliest to ensure completion of concerned Spinning Mills of schedule. The Department of Co-operation/Spinning Mills will have to make strenuous efforts to avail institutional finance to the extent of 50 per cent of the total cost amounting to Rs 16.38 crores from the Term lending institutions like IFCI, etc..

5.12. An outlay of Rs 80.00 lakhs is being provided under the scheme CN 6.3 "Assistance to Markfed for setting up processing units". This amount will be provided to the MARKFED as State share for setting up the following processing units during 1982-83:—

Processing Units

	<i>(Rs in lakhs)</i>	
	Total cost	Share State
(i) Two ginning factories ..	133.34	34.24
(ii) Three rice shellers ..	135.00	35.10
(iii) Delinters for Sardulgarh, Jaitu and Goniana Cotton Ginning Factories	33.00	8.58
(iv) Steam generators for three rice shellers	8.00	2.08
Total ..	309.34	80.00

5.13. In accordance with the approved financing pattern of assistance, 26 per cent of the total block cost i.e. Rs 80.00 lakhs have been provided in the plan. Funds to the extent of 65 per cent are likely to flow from NCDC and the balance 9 per cent will be contributed by Markfed out of its own resources.

Co-operative Sugar Mills

5.14. The Department proposes to set up five new Sugar Mills in the Co-operative Sector during the

Sixth Plan. During 1982-83, it is contemplated to set up a Sugar Mill in Patiala District at Dhablan with a crushing capacity of 1,250 Tonnes per day at a total estimated cost of Rs 7.50 crores. The State Government shall have to bear 15.75 per cent of the total estimated cost amounting to Rs 118.13 lakhs. The financing pattern of the proposed Sugar Mill will be as follows :—

(Rs in lakhs)

(i) Share capital contribution by State Government ..	15.75%	118.13
(ii) N.C.D.C.'s contribution as share capital through State Government ..	9.25%	69.37
(iii) N.C.D.C.'s loan ..	65%	487.50
(iv) Grower's contribution ..	10%	75.00
Total ..	100%	750.00

A sum of Rs 50.00 lakhs has been provided under the scheme CN 8.1 "Share capital contribution for installation of new Cooperative Sugar Mills" for this purpose.

Dairy Cooperatives

5.15. 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—87 with the financial assistance to be provided by NDDDB/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) ..	3,389.52
(b) Cattle feed plants ..	252.30
(c) Farmers organisation and Milk production enhancement inputs ..	1,165.34
(d) NDDDB/IDC direct expenditure ..	336.50
(e) Price contingency ..	688.01
Total ..	5,831.67
	Or
	58.32
	Crores

Almost the whole of the Dairy Co-operative Sector is likely to be covered under this operation.

5.16. Milkfed Punjab anticipates that funds to the tune of Rs. 21.85 crores are likely to flow to Punjab State under Operation Flood-II by 30th June, 1982. This institution has already obtained assistance amounting to Rs. 3.10 crores in cash and in kind. Indents for purchase of machinery and civil works worth Rs. 6.79 crores have also been placed. Besides, indents amounting to Rs. 3.80 crores are being placed on I.D.C. The work of setting up of cattle feed plant at Bhatinda costing about Rs. 1.00 crore has been entrusted to National Dairy Development Board on turn-key basis. Expansion of Jullundur Milk Plant for creation of product manufacturing facilities are likely to cost about Rs. 4.00 crores during the current year. In addition the MILKFED expects that the assistance amounting to Rs. 3.16 crores would flow in cash and kind from I.D.C. during the current Cooperative year upto 30th June, 1982. Milkfed proposes to take up construction of Milk Plant, Patiala and Cattle Feed Plant at Gurdaspur during 1982-83. The projects to be taken up during 1981-82 will also be completed in the next year.

5.17. Milk Cooperative Societies eliminate the middle men 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. There are 1086 Milk Producers Cooperative Societies working on Anand pattern at the close of 1980-81. Their number is likely to rise to 1,800 by the end of 1981-82 and further increase to 2,670 by the end of 1982-83. Under the milk production and enhancement input programme, rendering of technical input services like animal health care, artificial insemination, providing balanced cattle feed and green fodder, the Milkfed has already initiated the work and is operating 27 veterinary routes through which free veterinary assistance is provided to the milch cattle of the members.

5.18. An outlay of Rs. 47.00 lakhs has been provided during 1982-83 under the scheme CN 7.1 'Share capital contribution to Primary Cooperative Milk Societies, Unions and Milk Federation' for strengthening the capital base of Milkfed for creation of a revolving fund, purchase of land and provision of water and electricity etc. for which no funds are provided under Operation Flood II programme.

Industrial Cooperatives.

5.19. There are about 5,000 Industrial Cooperative Societies in the State other than Handloom Weavers Cooperative Societies. Out of these 2,451 Industrial Cooperative Societies are actually working. But most of these Societies are weak and are not in a position to run their business on sound lines without the financial assistance of the State Government. It is, therefore, proposed to strengthen the capital base of 50 Industrial Cooperative Societies with an outlay of Rs. 5.00 lakhs provided under the scheme CN 9.1 'Participation in the share capital of Industrial Cooperatives including Federation/Unions and projects in Cooperative Sector' @ Rs. 10,000 per society.

5.20. Out of total allocation of Rs 79.00 lakhs under the programme 'Industrial Cooperatives', a sum of Rs. 22.50 lakhs has been earmarked for providing assistance to the Handloom Weavers under different schemes. A sum of Rs. 7.00 lakhs has been provided under the scheme CN 9.6 'Share capital contribution to Punjab Handloom Weavers Apex Cooperative Society' to enable it to strengthen its business. An equal amount is likely to flow from NCDC for this purpose. This Institution was in a position to conduct business worth Rs. 36.84 lakhs during 1980-81. It is proposed to expand it to Rs. 132.00 lakhs during 1982-83 against the likely achievement of Rs. 113.00 lakhs during the current year. Besides an outlay of Rs. 10.00 lakhs has been provided to the Handloom Apex under the scheme CN 9.11 'Assistance as loan and share capital for setting up processing units by Handloom Apex'. A sum of Rs. 5.20 lakhs has been provided for the completion of on going Hoshiarpur Dyeing, printing and Calendering Plant and an amount of Rs. 4.80 lakhs is being provided for setting up a similar plant at Ludhiana.

5.21. An outlay of Rs. 49.60 lakhs has been provided under the scheme CN 9.12 'Assistance as share capital for setting up Handloom Weavers Co-operative Spinning Mills'. The proposed Spinning Mill will have a capacity of 25,440 Spindles out of which 15,360 will run on cotton and 10,080 for Spinning Viscos staple into yarn. Total production of the proposed Mill would be 4,829 lakh Kgms. of yarn with expected realisation of about Rs. 1,082.00 lakhs. The Mill would provide employment to about 1,400 workers and would also benefit 16,950 existing handlooms in the State. The

financing pattern of the proposed Mill would be as follows :--

	(Rs. in lakhs)
(i) Share capital by State Government @ 22.5 %	231.00
(ii) NCDC's assistance for contribution as share capital @ 22.5 %	231.00
(iii) Term loan from financing institutions @ 50 %	530.00
(iv) Equity from members @ 5 %	53.00
(v) Subsidy from Central Government	15.00
Total	1,060.00

5.22. A sum of Rs. 20.00 lakhs has been provided for incurring initial expenditure during the current year. An outlay of Rs. 49.60 lakhs has been provided for the year 1982-83. The balance of State share will be provided in the subsequent period after the Spindles ties up the financing arrangement with the NCDC, Term-Lending Institutions and shows definite progress in the execution of the proposed project.

Consumer Co-operatives.

5.23. The distribution of consumer articles in rural areas has gained momentum and it is proposed to open retail outlets at each of the existing 2,780 Primary Cooperative Agricultural Service Societies. Assistance for this purpose is being provided by the National Cooperative Development Corporation. It is expected that funds to the tune of Rs. 20.00 lakhs would be provided by NCDC for this purpose during 1982-83. An outlay of Rs. 4.00 lakhs has been provided in the State Plan for strengthening five Central Cooperative Consumers Stores and the State level Consumers Stores Federation.

Other Cooperatives.

5.24. Out of 127 cold storages approved by the World Bank Appraisal Mission, 8 cold storages of the capacity of 4,000 tonnes each are to be set up in Punjab State. The setting up of cold storages need hardly be over emphasised as these are likely to ensure stabilisation of prices to some extent in the peak season and would also regulate the rates being

charged by private cold storages already set up in the State by individual entrepreneurs.

5.25. The total project cost for setting up 8 cold storages of capacity of 4000 tonnes each is estimated at Rs. 4.55 crores as per detail below :—

	(Rs. in crores)
(i) Base cost ..	3.88
ii) Physical contingency ..	0.20
iii) Price contingency ..	0.47
Total ..	4.55

5.26. In accordance with the approved financing pattern State Government is required to contribute 20 per cent funds in the form of share capital. NCDC would be providing 15 per cent funds as share capital and 60 per cent funds in the form of loan. The balance 5 per cent would be contributed by the State itself.

5.27. State's share for setting up 8 cold storages works to Rs. 1.00 lakhs. A sum of Rs. 32.34 lakhs has been provided during 1981-82 for three cold

storages. Provision of Rs. 45.50 lakhs has been made in the Plan under the scheme CN 14.1 "Share capital contribution for Cooperative cold storages" for setting up four cold storages of capacity of 4000 tonnes each during 1982-83.

Cooperative Audit.

5.28. Regular, timely and effective audit is essential for proper functioning of the Cooperative Institutions. Additional staff is necessary both for proper audit of existing institutions and to cope with the envisaged expansion of this sector. 75 posts of Audit Inspectors and two posts of Audit Officers have, therefore, been sanctioned during the current year. An outlay of Rs. 16.00 lakhs has been provided in the Annual Plan 1982-83 for meeting the expenses on the continuation of existing staff and training and education of audit staff.

Physical targets and Achievements.

5.29. The position with regard to achievements of physical targets during 1979-80, 1980-81 and proposed target for 1982-83 and 1984-85 are depicted in the Annexure.

ANNEXURE
ACHIEVEMENTS AND TARGETS IN COOPERATIVE SECTOR

Serial No.	Item	Unit	1979-80 Level	1984-85 Terminal year Targets	1980-81 Achievement	1981-82		1982-83 Targets
						Targets	Anticipated Achievement	
1	2	3	4	5	6	7	8	9
1	Co-operative Banks—							
	(i) Branches	.. No.	587	590	597	590	597	597
	(ii) Deposits	.. Rupees crores	190	290	145.71	250	200	207
2	Re-organised Primary Agricultural Service Societies	No.	2,581	2,581	2,581	2,581	2,780	2,780
3	Coverage of Agricultural Families	.. Percentage	78	84	70	80	81	82
4	Borrowing Membership	.. "	66	75	73	70	74	74.5
5	Agricultural Loans advanced during the year—							
	(i) Short Term	.. Rupees crore	154.17	325.00	220.49	250.00	250.00	275.00
	(ii) Medium Term	.. "	—	6.00	—	4.50	—	2.00
	(iii) Long Term—							
	(a) Ordinary	.. "	10.05	20.00	13.98	11.70	13.00	14.00
	(b) Special A.R.D.C.	.. "	12.92	42.00	22.03	40.20	25.00	30.00
	Total (a+b)	.. "	22.97	62.00	36.01	51.90	38.00	44.00
6	Loans to Small and Marginal Farmers—							
	(i) Short-term	.. Percentage of Total Agricultural Loans	43	50	43.7	45	45	48
	(ii) Long-term	.. Percentage of Total Agricultural Loans	55	75	49.7	63	55	59
7	Overdues of Short-term Agricultural Loans—							
	(i) Central Co-operative Banks	.. Percentage of demand	22	18	28.7	20	20	19
	(ii) Primary Agricultural Service Societies	.. "	24	18	30	21	22	20
8	Fertilizer retailed by Co-operatives—							
	(i) Quantity	.. 000 tonnes	290	400	320	350	350	390
	(ii) Value	.. Rs. lakhs	9,288	17,150	8,995	15,000	15,000	20,000
9	(a) Agricultural produce marketed by Co-operatives—							
	(i) Quantity	.. Lakh tonnes	9.17	15.00	12.14	13.67	13.67	16.30
	(ii) Value	.. Rs. crore	105.50	187.50	140.27	164.04	174.80	195.00
	(b) Cotton—							
	(i) Quantity	.. Lakh bales	1.10	4.50	1.00	3.50	3.50	4.50
	(ii) Value	.. Rs. crore	20.31	83.25	34.50	44.75	100.00	115.00

ACHIEVEMENTS AND TARGETS IN COOPERATIVE SECTOR—*contd*

Serial No.	Item	Unit	1979-80 Level	1984-85 Terminal year Targets	1980-81 Achievement	1981-82		1982-83 Targets
						Target	Anticipated Achievements	
1	2	3	4	5	6	7	8	9
10	Retail sale of consumer goods by Urban Consumers Co-operatives	.. Rs. crore	1.95	5.00	4.00	4.00	4.00	5.00
11	Retail sale of consumer goods through Co-operatives in Rural Areas	"	20.58	50.00	26.09	40.00	40.00	45.00
12	Co-operative Storage—							
	(i) Rural Godowns	.. No.	3,217	4,357	3,438	3,673	3,801	4,112
		Lakh Tonnes	6.61	7.01	6.69	6.77	6.78	6.86
	(ii) Other Godowns	.. No.	760	909	802	832	832	862
		Lakh Tonnes	6.65	10.65	7.49	8.24	8.24	9.04
13	Processing Units—							
	(i) Organised	.. No.	42	49	46	49	49	55
	(ii) Installed	.. "	42	49	42	44	48	50
14	Cold Storages—							
	(i) Organised	.. "	19	27	19	23	22	27
	(ii) Installed	.. "	19	27	19	19	19	19
15	Dairy Programme—							
	(i) Fluid Milk Plants including creameries in operation	"	1	5	2	2	2	3
	(ii) Milk Product Factories (including Creameries in Operation)	"	1	2	2	2	2	2
	(iii) Dairy Co-operative Unions	.. "	7	11	7	11	8	11
	(iv) Milk Producers Co-operative Societies on Anand pattern	"	448	4,000	1,086	1,800	1,800	2,670

CHAPTER VI

Irrigation and Flood Control

Punjab economy is basically agrarian and, therefore, irrigation is the mainstay and an extremely vital input of the new farm technology. As such, this sector has all along been accorded a

high priority in the matter of allocation of funds.

6.2. The position of irrigation infrastructure in the State at the beginning of the Sixth Plan (1980—85) is as under :—

(lakh hectares)

Year	Total area of the State	Area available for cultivation	Area under cultivation	Net area under Irrigation	Percentage of net area irrigated to net area sown
1	2	3	4	5	6
1979-80	50.38	45.07	41.80	35.58	85

• Area irrigated by the main sources of irrigation is given below :—

(Lakh hectares)

Year	Government canals	Private canals	Wells	Other source	Total
1	2	3	4	5	6
1979-80	14.91	0.05	20.51	0.11	35.58

6.3. For the Annual Plan 1982-83 an outlay of Rs. 53.70 crores (Rs 45.20 crores for major and medium projects and Rs. 8.50 crores for minor irrigation projects) has been provided against an anticipated expenditure of Rs. 54.28 crores (Rs. 46.41 crores for major and medium irrigation and Rs. 7.87 crores for minor irrigation) during the current year. Details of the outlays provided are as under :—

(Rs. in lakhs)

Serial No.	Programme	1980-81 Actuals	1981-82		1982-83 outlay
			Outlay	Anticipated expenditure	
1	2	3	4	5	6
I. Irrigation—					
	(i) Multipurpose projects	1959.53	2115.00	2021.87	2085.00
	(ii) Major and Medium Irrigation Projects	1979.36	2708.00	2619.20	2435.00
	Total I	3938.89	4823.00	4641.07	4520.00
II. Minor Irrigation—					
	(i) Agriculture department	6.58	10.00	10.00	10.00
	(ii) Irrigation department	39.21	60.00	41.93	25.00
	(iii) P.S.T.C.	718.00	735.00	735.00	815.00
	Total—				
	(a) Minor Irrigation	181.79	200.00	181.93	120.00
	(b) C.A.D.	582.00	605.00	605.00	730.00
	Total II (a +b)	763.79	805.00	786.93	850.00

6.4. With practically all the surface water resources in the State having already been exploited, the only available alternative now is to depend upon the scientific water management practices of the existing available water resources to meet the timely and increased crop requirements. The strategy of the State Government, therefore, for the past few years has been, besides completing the on-going irrigation projects expeditiously in laying increasing stress on conjunctive use of water resources. Lining of channels is, therefore, by far the most important scheme under this programme.

6.5. Problems of irrigation development in the kandi tract of the State comprising mainly Hoshiarpur and Ropar districts and parts of Gurdaspur district merit special attention. Though the percentage of net irrigated area to net area sown during 1979-80 in the State was as high as 85% yet irrigation in the districts of Hoshiarpur and Ropar was as low as 45.5% and 42.6%, respectively. In order to bring these areas at par with the rest of the State the development of irrigation facilities in this tract is being taken up under the 'Kandi Water-shed and Area Development Project' with financial assistance from World Bank. Another project for the development of irrigation facilities in the kandi and backward areas of Hoshiarpur district relates to the construction of kandi canal. Some lift schemes are also on the anvil for providing assured means of irrigation to these areas.

6.6. The irrigation programmes in the State include (i) Multipurpose projects (ii) Major and Medium Irrigation Schemes (iii) Water development, (iv) Minor Irrigation schemes of the departments of Irrigation, Agriculture and the Punjab State Tubewell Corporation. The various programmes are outlined below :—

MULTIPURPOSE PROJECTS

Thein Dam

6.7 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 river Ravi at Thein about 24 kms upstream of the Madhopur Headworks. The main features of the project are as under :—

- (a) Site .. Thein, 24 kms upstream of Madhopur Headworks

(b) Height of the Dam	147 metre
(c) Type of Dam	Earth Core Gravel Shell Dam
(d) Irrigation potential	3.48 lakh hectares
(e) Installed capacity	480 MW (4×120 MW)
(f) Estimated cost at 1980 prices	Rs. 469.00 crores
(g) Expenditure upto 1980-81	Rs. 35.38 crores
(h) Spill-over after 1980-81	Rs. 433.62 crores
(i) Anticipated Expenditure 1981-82—	Rs. 22.00 crores
(i) Irrigation	Rs. 12.00 crores
(ii) Power ..	Rs. 10.00 crores
(j) Outlay 1982-83—	Rs. 12.00 crores
(i) Thein Dam .. Construction	Rs. 11.40 crores
(ii) Thein Dam .. Design Organisation	Rs. 0.60 crores

6.8. In view of the chronic shortage of power in the State and the fact that the execution of this project has been delayed greatly the State Government is very keen on completing this project at the earliest. However, due to the severe financial constraint it has not been possible to provide the requisite funds for this project. For the Annual Plan 1982-83 an outlay of Rs. 12.00 crores on the irrigation side is being provided against the requirement of nearly Rs. 119.00 crores if the project is to be completed in a reasonable space of time, i.e., 1988-89. It is, therefore, imperative that some special central assistance is provided for this project.

Shahpur Kandi Project

6.9. The Shahpur Kandi Project envisages the construction of a Barrage across river Ravi downstream of the proposed Thein Dam site and upstream of the existing Madhopur Head works. The project will irrigate 33,000 hectares in Jammu and Kashmir State by diverting the water supplied for irrigation facilities. Besides, it would create an installed capacity of 94 MW (2x47MW). The cost of Project which was estimated as Rs. 68.16 crores originally has been revised to Rs. 124.30 crores at 1980 prices. Since the project is only at the survey and investigation stage, token provisions have been made during these years. Against

an anticipated expenditure of Rs. 4.92 lakhs during the current year an outlay of Rs. 20.00 lakhs has been provided for the year 1982-83 for continuing such works as field survey, investigation, creation of infrastructure etc.

Diversion Weir of Shahnehar Canal

6.10. Shahnehar canal is an inundation canal off-taking from River Beas at Ray Head, located at a few km downstream of Beas dam. The construction of Beas dam has resulted in reducing river supplies considerably to feed the existing Shahnehar canal system specially during lean period due to power fluctuation at Pong. In order to provide assured supplies to the areas receiving irrigation from Shahnehar canal system it has become necessary to construct a diversion barrage with adequate storage capacity. It would also be possible to extend irrigation to new areas of kandi region which are at present devoid of any mode of irrigation facilities. The project was earlier cleared by the Government of India at an estimated cost of Rs. 11.59 crores. Now the revised cost of the project at 1980 prices works out to Rs. 33.45 crores. The project cost has gone up due to price escalation and change in design. The project was scheduled to be completed during 1981-82, but due to some dispute the work on the right bund at the moment has been stopped. It is now expected that the work would spillover to 1982-83 and the project would be completed during this year except for minor residual works.

6.11. The details regarding cost estimates, expenditure incurred and outlay provided for 1982-83 are as under :—

	(Rs. in lakhs)
1. Estimated cost—	
(i) Original	.. 1159.00
(ii) Revised	.. 3345.00
2. Expenditure incurred up to 1980-81	.. 2507.00
3. Spillover after 1980-81	.. 838.00

4. Likely expenditure during 1981-82	.. 333.25
5. Outlay 1982-83	.. 283.00

The main details of the works to be completed during 1982-83 are as under :—

	(Rs. in lakhs)
1. Constructing common bund	15.00
2. Constructing guide bund ..	19.00
3. Constructing right bund ..	68.00
4. Excavation—lining of feeder channel ..	14.00
5. Aquaduct on Sohan Khad ..	22.00
6. Providing and maintenance of H.T., L.T. lines and area lighting ..	10.00
7. Retrenchment compensation to workcharged-staff ..	20.00
8. Other miscellaneous works ..	82.00
9. Establishment charges ..	33.38
Total	.. 283.38
Say Rs.	.. 283.00 lakhs

Dholbaha Dam

6.12. This is one of the small dams being constructed under the 'Kandi Water-shed and Area Development Project' with financial assistance from the World Bank. The project involves the construction of an earth and rockfill dam across the Dholbaha Choe (District Hoshiarpur) with a maximum height of 32.2 metres. The estimated cost of the Project, expenditure incurred and the benefits from the project are given as under :—

	(Rs. in lakhs)
1. Estimated cost—	
(i) Original	.. 390.00
(ii) Revised	.. 650.00

	(Rs. in lakhs)
2. Expenditure incurred upto 1980-81 ..	124.00
3. Spillover after 1980-81 ..	526.00
4. Likely expenditure during 1981-82 ..	186.20
5. Outlay 1982-83 ..	200.00
6. Total Irrigation Potential (000 hectares) ..	2.6

Details of works to be carried out during 1982-83 are as under :—

	(Rs. in lakhs)
(i) Acquisition of land ..	5.00
(ii) Spill way ..	22.00
(iii) Earthwork—Fill placement. Rip Rap ..	105.00
(iv) Excavation of Spillway ..	11.00
(v) Construction of distributaries, etc. ..	5.00
(vi) Outlet ..	10.00
(vii) Other Works ..	7.00
(viii) Suspense ..	4.76
(ix) Establishment ..	29.89
(x) C.M.C. Share ..	0.35
Total ..	200.00

Low Dams in Kandi Area

6.13. The sub-montane region of the State is strewn with choes. The upper catchments have been eroded very badly in the past as a result of various malpractices such as indiscriminate felling of trees, excessive grazing and breaking up of sloping lands for agriculture. Due to the absence of adequate vegetal cover in the upper catchments, the area is eroded and flashy run off is experienced in the choes and its impact is felt 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 Dholbaha, Chobal, Patiala-Ki-Rao, Maili and Janauri in the first phase and thereafter part B of the scheme relating to Sutlej Reclamation programme including low dams on Siswan Nadi, Soan Nadi and Sirsa Nadi etc. would be taken up. The sites of these dams have been selected after the inspection by the World Bank team under the 'Kandi Water-shed and Area Development Programme'.

6.14. The Directorate of Planning and Design Studies along with foreign consultants was set up in July, 1980 to prepare feasibility reports of 10 water sheds (excluding Dholbaha watershed) in kandi areas. Two feasibility reports i.e. for Maili watershed and Patiala-Ki-Rao have been prepared and submitted to World Bank/Government. Feasibility reports on other watersheds, namely, Janauri and Chobal are under preparation and are likely to be submitted before the expiry of the year, 1981.

6.15. The construction work on Maili dam is proposed to be taken up. A sum of Rs. 100.00 lakhs is being provided for the year 1982-83. The details regarding cost estimates, funds utilised etc. are as under :—

	(Rs. in lakhs)
1. Estimated cost ..	1000.00
2. Expenditure incurred upto 1980-81 ..	5.69
3. Spill over after 1980-81 ..	994.31
4. Likely expenditure during 1981-82 ..	19.50
5. Outlay 1982-83 ..	100.00

Expenditure on Beas Project

6.16. The Beas project Unit I and II have been completed. To meet the balance expenditure on this project a sum of Rs. 103.00 lakhs has been provided in the Annual Plan 1982-83 as indicated by BCB. In addition to this amount, a sum of Rs. 46.00 lakhs for Beas Project Unit-I (Extension) and an amount of Rs. 133.00 lakhs for Beas Project Unit II (Extension) have been provided for the year 1982-83 as indicated by BCB.

MAJOR AND MEDIUM IRRIGATION SCHEMES

Extension of Non-perennial Irrigation to areas in UBDC tract

6.17. The project estimates for 'Extension of non-perennial irrigation in UBDC Tract' amounting to Rs. 620.00 lakhs have been submitted to Government of India for technical clearance. This project envisages the creation of an irrigation potential of 2.35 lakh hectares which would utilise 2.15 M.A.F. of Ravi waters in Punjab by increasing the water allowance of the existing areas, extension of perennial irrigation to non-perennial areas and extending irrigation to new areas. The work on modelling

of the channels, extension of channels, raising banks to cater for increased capacity have already been completed. Mostly remodelling of masonry structures like falls, regulators, bridges are in hand for increased discharge. The details of cost estimates, expenditure incurred, ultimate irrigation potential and potential actually created are given as under :—

	(Rs. in lakhs)
1. Estimated cost—	
(i) Original ..	538.00
(ii) Revised ..	620.00
2. Expenditure incurred upto 1980-81 ..	551.00
3. Spillover after 1980-81 ..	69.00
4. Likely expenditure during 1981-82 ..	20.00
5. Outlay 1982-83 ..	20.00
6. Ultimate Irrigation potential ..	(000 hect.) 235
7. Potential created upto 1980-81 ..	196
8. Likely potential during 1981-82 ..	10
9. Target 1982-83 ..	10

The details of the works proposed to be executed during 1982-83 are at Annexure III(i).

Utilisation of surplus Ravi-Beas waters

6.18. The project envisages the utilisation of a part of surplus Ravi Beas waters by remodelling of the existing irrigation channels to increase the water allowance from 2.75 to 3.50 cs per thousand acres for the areas lying to the South West of the Ferozepur Jhakkhal line and to extend irrigation to new areas. The revised project estimate amounting to Rs. 644.36 lakhs for utilisation of surplus Ravi Beas Water was sent to Government of India in July, 1974 for clearance. Subsequently, nine more schemes costing Rs. 508.51 lakhs have been finalised. The total cost of this project therefore, works out to Rs. 1152.87 lakhs envisaging creation of an irrigation potential of 4.56 lakh hectares. The work on remodelling of most of the channels, extension of channels and raising banks to cater for increased capacity has already been completed.

Mostly the remodelling of masonry structure like falls, regulators, bridges etc. are in hand. For this purpose an allocation of Rs. 50.00 lakhs for the year 1982-83 has been provided.

6.19. Details regarding the cost estimates, utilisation of funds and creation of irrigation potential are as under :—

	(Rs. in lakhs)
1. Estimated cost—	
(i) Original ..	644.36
(ii) Revised ..	1153.00
2. Expenditure incurred upto 1980-81 ..	687.00
3. Spill over requirement after 1980-81 ..	466.00
4. Likely expenditure during 1981-82 ..	91.02
5. Outlay 1982-83 ..	50.00
6. Ultimate Irrigation potential ..	(000 hect.) 456
7. Potential created upto 1980-81 ..	215
8. Likely potential during 1981-82 ..	19
9. Target 1982-83 ..	12

Details of the main items of work during the year 1982-83 are given in Annexure III(ii).

Extension and Improvement of Shahnehar Canal System

6.20. With the completion of Shahnehar barrage across river Beas, regular and regulated irrigation water supply would become available for feeding the Shahnehar canal system. This system at present covers 26,316 hect. The assured and regular supply of water will make it possible to increase the irrigated area to 86,000 hect. by extending irrigation to non irrigated areas.

6.21. In order to cover the kandi area of Hoshiarpur district which is economically and socially backward as compared to other areas of the State, construction of kandi canal has been taken up. The cost estimates of this project have, therefore, risen from Rs. 10.63 crores approved

by Government of India to Rs. 32.55 crores. The scheme comprises the following :—

- (i) Remodelling, extension and lining of existing Shahnehar canal.
- (ii) Construction of kandi canal system.

6.22. Details of cost estimates, utilisation of funds and creation of irrigation potential are as under :—

	(Rs. in lakhs)
1. Estimated cost—	
(i) Original ..	1063.00
(ii) Revised ..	3255.00
2. Expenditure incurred upto 1980-81 ..	523.00
3. Spill over after 1980-81 ..	2732.00
4. Likely expenditure during 1981-82 ..	354.11
5. Outlay 1982-83 ..	400.00
6. Ultimate Irrigation Potential (000 hec) ..	51
7. Potential created upto 1980-81 ..	3
8. Likely potential during 1981-82 ..	5
9. Target 1982-83 ..	5

Lining of Channels

6.23. Considerable proportion of water from the unlined irrigation channels is lost through seepage/absorption. Seepage of water raises the underground water table which aggravates waterlogging. Weed growth in the unlined channels impede free flow of water. Now that the surface water available in the State has been almost utilised it is necessary to prevent this avoidable wastage. 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 channels, branches, distributaries and minors is 14,882 Kms. Of this, 506 Kms. of the main canals were constructed as lined channels in the very beginning. The programme of lining the distributaries and minors had been stepped up in the recent past.

6.24. The Phase-I of the project lining of channels costing Rs. 100.09 crores (now revised to Rs. 152.03 crores) is being executed with the World Bank financial assistance. Under the programme it is envisaged to carry out lining of 4060 Kms phased over a period of five years 1979-84. The details regarding cost of the project, funds utilised and creation of irrigation potential are as under :—

	(Rs. in lakhs)
1. Estimated cost (i) original ..	10009.00
(ii) Revised ..	15203.00
2. Expenditure incurred upto 1980-81 ..	2668.00
3. Spill-over after 1980-81 ..	12535.00
4. Likely expenditure 1981-82 ..	1951.00
5. Outlay 1982-83 ..	1629.00
	(000 hect.)
6. Ultimate Irrigation potential	164
7. Potential created upto 1980-81	41
8. Likely potential during 1981-82	32
9. Target 1982-83 ..	16

6.25. With the allocation of Rs. 1629.00 lakhs provided for the year 1982-83, 500 Kms. (300 lakh sq. metres) of distributaries and minors would be lined.

Construction of new distributaries, minors and bridges.

6.26. At present, there are a number of compact blocks of land in the command areas of distributaries which are not receiving irrigation facilities. In order to bring these areas under irrigation, new distributaries and minors wherever required are proposed to be constructed on the existing channels to be extended. For this purpose, a sum of Rs. 2.70 crores has been earmarked in the Sixth Plan 1980-85. A sum of Rs. 20.00 lakhs would be spent during the year 1982-83. The details of works are attached at Annexure III (iii).

Modernisation of existing canal system

6.27. Modernisation and improvement of the existing canals system 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. A provision of Rs. 25.00 lakhs has been made for this purpose in the Annual Plan 1982-83.

		(Rs. in lakhs)
(i)	Replacement of kari regulation system by mechanically-operated gates ..	3.00
(ii)	Tele-communication system ..	15.00
(iii)	Constructing escapes ..	7.00
		25.00
Total ..		25.00

6.28. The project estimate for this scheme covering the whole State and for carrying out various modernisation works is under preparation.

Extension of Kandi canal reoriented with lift irrigation schemes

6.29. The project estimate for the construction of Kandi Canal which is a part of the project 'Extension and Improvement of Shahnehar Canal System' was formulated for providing irrigation facilities to the backward kandi area of district Hoshiarpur. According to this project the capacity of the Kandi Canal was proposed to be 300 Cs. but on the persistent demand of the public it has been decided to shift the alignment of Kandi canal to higher contours so as to bring maximum kandi area under its command and also to increase its capacity from 300 Cs to 500 Cs.

6.30. In view of the treacherous underground water bearing strata in the area and unsatisfactory working of Govt. tubewells it has been proposed to extend irrigation to the Kandi areas from Hoshiarpur to Balachaur by extending Kandi canal from Hoshiarpur to Balachaur. The first Phase of the programme of extending Kandi canal from Hoshiarpur to Mahilpur and reorienting the sanctioned lift irrigation schemes viz., Garhshankar, Lohat and Garhi by feeding these schemes from the Kandi canal has been approved. Total requirements of water from Hoshiarpur to Balachaur, i.e., 258 Cs. will be met out of the proposed capacity of Kandi canal of 500 Cs. Total estimated cost of the scheme is Rs. 14.50 crores. An outlay of Rs. 102.00 lakhs has been provided for this scheme for the year 1982-83.

Directorate of Water Resources (Kandi Watershed and Area Development Project) Technical Assistance, Research and Training

6.31. The Govt. of Punjab has engaged a team of foreign consultants for this project under 'Kandi Watershed and Area Development Programme' to investigate, plan and analyse various technical alternatives for water-shed planning, preparing feasibility reports for submission to the World Bank, monitoring progress and drafting technical guidelines criteria to enable the Govt. of Punjab to plan similar works in future. The team of the consultants has started working on the project. The consultants need surface Water Hydrology, Sedimentation and Ground Water Investigation data, besides topographic and contour services, etc., for accomplishing their task. The Directorate of Planning and Design studies has been set up by the Govt., since July, 1980 to provide counterparts services to the consultants and supply them the necessary data. The investigation of Ground Water and Surface Water potential and sedimentation load, etc., is carried out by two divisions in this Directorate (Surface Water Hydrology and Ground Water Investigation Division) attached to this Directorate. Besides this, the World Bank requires counterparts to be trained overseas in their respective discipline. An amount of Rs. 75.00 lacs as per details given below is proposed to be spent during the year 1982-83.

		(Rs. in lakhs)
1.	Salaries, T.A., over heads and on account of other facilities to the consultants and over seas training etc. (including income tax) ..	25.00
2.	Works involving investigation of Ground Water, Surface Water potential and Sedimentation load	25.00
3.	Maintenance of re-charge basis etc. ..	2.00
4.	Machinery & Equipment ..	2.54
5.	Establishment ..	20.46
		75.00
Total ..		75.00

Pilot Demonstration

6.32. Over and above the on-going modernisation programme for canal and water resources based on the established technologies, 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 1979—83. The scheme is a part of the World Bank aided programme.

6.33. The Directorate of Irrigation pilot demonstration and project Co-ordination will devise ways and means to modernise the century old irrigation and water distribution system to meet the water demands of the high yielding varieties of crops. It will also prepare new water development schemes based on water availability for different canal irrigated areas. During the year 1982-83, it is proposed to take up 5 sprinkler irrigation schemes, one drip irrigation scheme and one buried pipe scheme. An outlay of Rs. 60.00 lakhs would be spent on this scheme during 1982-83 against Rs. 36.03 lakhs anticipated to be expended during the year 1981-82. The details of works proposed to be executed during the year 1982-83 are given below :—

	(Rs. in lak)
(i) Sprinkler Irrigation Schemes in Bhatinda District ..	10.00
(ii) Sprinkler Irrigation schemes in Faridkot District ..	5.00
(iii) Sprinkler Irrigation schemes in Ferozepur District ..	10.00
(iv) Operation and Maintenance sprinkler scheme ..	4.95
(v) Setting up and running of 4 moisture testing laboratories ..	1.80
(vi) Installation of buried pipe scheme	1.00
(vii) Installation of drip schemes ..	0.50
Machinery and equipment T & P etc., ..	4.00
Other charges ..	1.50
Establishment ..	17.25
Director Project coordination ..	4.00
Total ..	60.00

Raising lining of Bhakra main line for providing free board

6.34. A decision has been taken in the Inter-State meeting held on 30th November, 1978 regarding restoration of the capacity of Bhakra Main Line to its authorised full supply discharge. For this purpose, a project has been prepared at an estimated cost of Rs. 232.84 lakhs. This project

is a common project and the cost is to be shared amongst three states, i.e., Punjab, Haryana and Rajasthan, The share of Punjab State in the total cost is Rs. 20.18 lakhs. A sum of Rs. 1.00 lakh has been provided as a token provision during the year 1982-83.

Constructing a new lined combined channel of Bikaner canal and main branch eastern canal

6.35. The Bikaner canal was constructed in Nineteen twenties as a lined canal. The lining had totally deteriorated during its working of nearly 50 years and during the last many years it has not been able to carry its authorised discharge. The Rajasthan State sometime back desired the re-lining of this channel. A project estimate for constructing a new lined combined channel of Bikaner canal and main branch of eastern canal has been prepared. The project estimate has since been submitted to the Rajasthan State. The share of Punjab State for lining of Eastern Canal works out to Rs. 9.80 crores. A number of meetings with Rajasthan State on this project were held in the past but no final decision was arrived at. A token provision of Rs. 1.00 lakh has been made for the year 1982-83 for this scheme.

Providing Canal Irrigation facilities to the areas of Erstwhile Malerkotla State

6.36. In order to provide irrigation facilities to the areas of Erstwhile Malerkotla State which was previously under tubewell irrigation, a channel is proposed to be constructed to cover the areas which have not been covered by the tubewells or the areas previously covered by the tubewell schemes have been abandoned or size of chaks are large. The discharge of the channel works out to 106 Cs. The estimated cost of the scheme is Rs. 314.53 lakhs. An area of about 17,000 hectares will get irrigation facilities. The project estimate has been prepared. A token provision of Rs. 1.00 lakh has been provided for the year 1982-83.

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

6.37. There is a compact block of land lying on the left side of Narwana Branch which has no irrigation facilities. It is proposed to extend Rajpura distributory of Bhakra Main Line in order to bring the area in question under the fold of irrigation. The estimated cost of the project is Rs. 520.00 lakhs and will provide irrigation to an area of about 12,300 hectares. An outlay

of Rs. 1.00 lakh has been provided for the year 1982-83.

WATER DEVELOPMENT

Investigation of schemes

6.38. 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 system, considerable attention will have to be focused on introducing new irrigation practices and modern water management techniques. For this purpose, it will be necessary to collect data on water requirements of crops, cropping patterns in vogue and the manner in which flow irrigation is actually utilised by the farmers. An outlay of Rs. 40.00 lakhs has been provided in the Annual

Plan 1982-83 for this purpose. Apart from investigation of various schemes, geological, hydrological, material, property, socio-economic and topographical surveys are to be carried out.

Research Schemes

6.39. Under this programme a number of research schemes of technical nature are proposed to be carried out under the aegis of Irrigation and Power Research Institute, Amritsar. An outlay of Rs. 10.00 lakhs for the Annual Plan 1982-83 has been provided for the research schemes. The research schemes proposed to be taken up during 1982-83 will be selected out of the list given at Annexure III (iv).

6.40. Details regarding targets and achievements of irrigation potential created and utilisation upto the end of 1980-81, likely achievement during 1981-82, targets for 1982-83 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 upto 1980-81, spillover requirement after 1980-81, outlays 1981-82 and 1982-83 in respect of main Irrigation projects are given in Annexure-I.

ANNEXURE I

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

Statement showing cost estimates, date of

Serial No.	Name of the scheme	Estimated cost (Latest revised)	Status of project
1	2	3	4
1	Beas Project Unit I	1171.00	Stands cleared
2	Beas Project Unit I (Ext.)	168.00	Ditto
3	Beas Project Unit II	4949.00	Ditto
4	Beas Project Unit II (Ext.)	813.00	Ditto
5	Thein Dam	46900.00 (1980)	Technically cleared by Govt. of India
6	Diversion weir of Shahnehar canal	3345.00 (1980)	Stands cleared
7	Dholbaha Dam	650.00 (1980)	Ditto
8	Low Dams in Kandi areas	1000.00	..
9	Extension of non-perennial Irrigation to areas in UBDC tract	620.00	Clearance awaited from G.O.I.
10	Utilisation of surplus Ravi-Beas waters	1153.00	Ditto
11	Extension and Improvement of Shahnehar Canal	3255.00 (1980)	Cleared by Govt. of India
12	Lining of channels (World Bank Project)	15203.00 (1980)	Ditto
13	Construction of new distributories, minors and bridges	400.00	..
14	Extension of Kandi canal re-oriented with three lift Irrigation schemes viz., Garhshankar, Lohat and Garhi	1450.00 (1980)	..

Completion, status and details of expenditure of main Irrigation projects

(Rs in lakhs)

Date of start	Scheduled date of completion	Expenditure incurred up to 1980-81	Spill-over requirement after 1980-81	Outlay 1981-82	Outlay 1982-83
5	6	7	8	9	10
1959-60	Stands completed during 1978-79	1144.00	27.00	7.00	27.00
1978-79	1982-83	50.00	118.00	40.00	46.00
1959-60	Stands completed during 1978-79	4920.00	20.00	38.00	76.00
1978-79	1982-83	357.00	456.00	160.00	133.00
1977-78	1988-89	3538.00	43362.00	1200.00	1200.00
1972-73	1982-83	2507.00	838.00	450.00	283.00
1980-81	1983-84	124.00	526.00	150.00	200.00
1980-81	1984-85	6.00	994.00	50.00	100.00
1967-68	1983-84	551.00	69.00	20.00	20.00
1967-68	1984-85	687.00	466.00	90.00	50.00
1975-76	1984-85	523.00	2732.00	350.00	400.00
1979-80	1983-84	2668.00	12535.00	1848.00	1629.00
1980-81	Seventh Plan	36.48	363.52	30.00	20.00
1982-83	1984-85	7.49	1442.51	130.00	102.00

ANNEXURE

Annual Plan

Major and Medium Irrigation

Serial No.	Name of the Scheme	District to be benefitted	Ultimate Irrigation potential	Target Sixth Plan (1980-85)	
				Pot.	Uti.
1	2	3	4	5	6
1	Thein Dam	.. Gurdaspur and Amritsar	348.0	..	..
2	Low Dams in kandi area	.. Hoshiarpur and Ropar	4.5	4.5	4.5
3	Dholbaha Dam	.. Hoshiarpur	2.6	2.6	2.6
4	Extension of non-perennial Irrigation to areas in UBDC tract	Gurdaspur and Amritsar	235.0	43	44
5	Utili sation of surplus Ravi-Beas waters	Bhatinda, Ferozepur, Faridkot and Sangrur	450.0	43	44
6	Extension and Improvement of Shahnehar canal	Hoshiarpur and Jullundur	51.0	49	50
7	Lining of Channels	.. All districts	164.0	128	128
8	Construction of new distributories and Minors	All districts	22.0	20	21
9	Extension of kandi canal reoriented with three lift Irrigation schemes	Hoshiarpur	22.0	22	22
10	Constructing new lined combined channel of Bikaner canal and Main Branch of Eastern Canal	Ferozepur	8.0	4	4
11	Providing Irrigation facilities to areas on left side of Narwana Branch	Patiala	12.0	5	5
12	Providing Irrigation facilities to Erstwhile Malerkotla State	Sangrur	17.0	5	5
Total			974.1	198.1	202.1

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 affected under this scheme would mostly be utilised for increasing the Irrigation intensity and capacity factor of areas already being irrigated under the command of canal system.

II

1982-83

projects—Targets and Achievements

(000' hectares)

Achievement upto 1979-80		Achievement during 1980-81		1981-82 anticipated achieve- ment		1982-83 Targets	
Pot.	Uti.	Pot.	Uti.	Pot.	Uti.	Pot.	Uti.
7	8	9	10	11	12	13	14
..
..
..
192	191	4	4	10	10	10	10
209	208	6	6	19	19	12	12
2	1	1	..	5	2	5	5
19	19	22	22	32	30	16	16
2	1	..	..	5	5	2	2
..
..
..
..
405.0	401.0	11.0	10.0	39.0	36.0	29.0	29.0

ANNEXURE III (I)

Details of works to be executed during the year 1982-83 under the scheme 'Extension of Non-Perennial Irrigation to areas in UBDC tract'

Serial No.	Name of work	Amount required 1982-83 (Rs. in lakhs)
1	Remodelling system of Udhawal Distributary R.D. 28500-29400 by providing boulder pitching for Sakki Nallah	0.50
2	Remodelling bridge at R.D. 6272 Dhattal minor	0.10
3	Remodelling bridge on Khairdin-sub minor at R.D. 1730 Chabhal Distributary	0.20
4	Remodelling bridge and fall R.D. 29300 Bohoru minor	0.10
5	Remodelling bridges and falls on Chabhal distributary system	1.00
6	Remodelling bridges of Gilpon minor R.D. 22000—34000	0.10
7	Remodelling bridge at R.D. 6500 of Vallah distributary	0.30
8	Remodelling bridges of Majitha distributary system	1.00
9	Remodelling bridges of Doburji distributary system	1.00
10	Remodelling bridges of Aliwal distributary system	1.00
11	Constructing Sub Rest House at Manikala	0.30
12	Constructing S.O.'s quarter at Gaura Rest House	0.20
13	Constructing Shange Bridge at R.D. 229450 K.B.L.	0.20
14	Remodelling fall-cum-bridge R.D. 108260 K.B.L.	0.50
15	Remodelling fall-cum-bridge R.D. 72400 Sabraon Branch	0.20
16	Remodelling fall-cum-bridge R.D. 114750 Sabraon Branch	0.50
17	Diversion of fall over bridge R.D. 11475 Sabraon Branch	0.20
18	Constructing new Talwandi Sub minor off taking R.D. 28400-L Rasulpur minor	0.70
19	Constructing new Manikala minor	0.20
20	Providing irrigation for the areas between Harika and Damniwala	1.80
21	Remodelling V.R. bridge at R.D. 20540 KBU	1.00
22	Constructing V.R. bridge at R.D. 27500 K.B.U.	1.00
23	Constructing Faridpur minor	1.00
24	Constructing V.R. bridge at RD 7000 of Rania distributary	0.50
25	Remodelling Sarna distributary	1.00
26	Remodelling D.R. bridge R.D. 3890 of minor No. 4 Rania Distributary	0.40
27	Remodelling V.R. bridge R.D. 3000 and 7000 of minor No. 3	0.20
28	Remodelling Head Regulator on Ditch No. 3	0.30
29	Remodelling D.R. Bridge at R.D. 65436 K.B.L.	1.00
30	Constructing V.R. bridge R.D. 10100 Dyalgarh distributary to join village road from village Cheema to Khara	0.40
31	Constructing V.R. bridge at R.D. 6690 Sathiali distributary to join village road from Kahnuwan to Nainakot	0.40
32	Remodelling D.R. bridge R.D. 75587 Dyalgarh Distributary	0.30
33	Providing Drainage syphon at R.D. 9250 Mohleke minor	0.60
34	Constructing Drainage syphon at R.D. 14000 of Bazidpur	0.20
35	Tail clusters on 2—L and 4—L minor	0.15
	Total	18.55
	Establishment charges	1.45
	Grand Total	20.00

ANNEXURE III(ii)

Details of works to be executed during the year 1982-83 under the scheme 'Utilisation of Surplus Ravi Beas Waters'

Serial No.	Name of work	Amount for 1982-83 (Rs. in lakhs).
Ferozepur Canal Circle Ferozepur		
1	Raising Bank/lining of Sirhind feeder to provided unauthorised free board of 2.5 from head to tail	9.00
2	Raising Bank of Eastern canal system	9.00
Sirhind Canal Circle, Ludhiana		
1	Extension of Rohira Disty. R.D. AI-71000	2.50
2	Extension of Kanganwal Disty. R.D. 15250-52000	1.00
3	Constructing Maler Kotla minor	0.50
4	Remodelling of Rakhawal system Dehlon Disty. system	0.50
5	Kanganwal Distributary system	0.50
6	Khanpur Distributary system	0.50
7	Talwandi Distributary system	0.50
8	Chupki Distributary system	0.50
9	Ballawal minor	0.50
10	Remodelling Jassowal Distributary system L-2136	0.75
11	Remodelling of Dholan Distributary system L-6.41	0.75
12	Remodelling of Kalyan Distibutary system	1.00
13	Sehna Distributary system	1.00
14	Remodelling of Kalas Distributary system	1.00
L.B. Patiala Circle		
1	1st Patiala Feeder	20.00
2	Kotla Branch	
2	Ghaggar Branch	
Total		50.00

ANNEXURE III(iii)

Details of works to be executed under the scheme 'Construction of new Distributaries, Minors and Bridges' during the year 1982-83

	(Rs. in lakhs)
1 Constructing new lined upper kauni Distributary RD 0—31275 ..	3.00
2 Constructing Ablu Minor from RD 0 to tail ..	4.00
3 Extension of Minor No. 3 of Nidampur Distributary R.D. 12000 to 13550 ..	0.25
4 Extension of Dhalwan minor from RD 12650 to 17138 ..	0.75
5 Constructing Nidhana Minor from R.D.0—18000 off taking at R.D. 30345—R of Nizanwah Distributary ..	1.00
6 Constructing New Alamwala minor from R.D.0—4800 off taking at R.D. 546550-R Abohar branch ..	1.00
7 Constructing Odeon minor off taking at R.D. 3380—R Jandwala Distributary ..	2.00
8 Extension of Faizwah minor R.D. 33337—44350 ..	2.00
9 Constructing Mehma minor R.D.0—14525 off-taking at R.D. 83480—L Kasubegu Distributary ..	2.00
10 Extension of 1-L Machaki minor R.D. 20300—43250 ..	2.00
11 Constructing of 3—R minor off taking at R.D. 126100—R Mudki Distributary ..	2.00
Total ..	20.00

ANNEXURE III (iv)

Details of Research Schemes

(Rs in lakhs)

1. Hydrological studies for flashy rivers	0.25
2. Prevention of siltation in Reservoirs and ponds	0.40
3. Standardising design criteria to minimise scour at nooses of piers due to Karman vortex Trails	0.06
4. Prototype studies of energy dissipation devices below falls to reduce erosion in the D/Stream	0.70
5. Prototype study for run-off of small catchments to predict floods	0.80
6. Remote sensing survey of Punjab for studying river behaviour and soil reclamation	1.00
7. Prototype study to determine extent of water lost in the irrigation water conveyance system (Lined and Unlined)	1.20
8. Eradication of aquatic weeds in Irrigation and Drg. Channels of Punjab	0.25
9. Effect of electrolyte concentration of the permeability sodic soils	0.15
10. To study the tolerable concentration of impurities in mixing and curing water for concrete	0.05
11. Influence on soils of seasonal changes in the quality of well water in District Amritsar	0.51
12. Anti-salt treatment experiments for the protection of tile lined channel	0.08
13. Hydrologic Investigations for assessing drainage requirement of Alkali soils in Punjab	0.17
14. Effect of Irrigation with hoton water on growth of various crops and ways to increase the toxic limiting values	0.12
15. Recharge study of ground water with Radio Tracer	0.30
16. Assessment of seepage losses from Canal system in Punjab	0.35
17. Three dimensional photoelastic stress analysis studies of structures	0.55
18. Study of unsaturated flow through two layered system and behind canal lining	0.60
19. Improved technique to repair the damaged irrigation concrete structures	0.08
20. Economical utilization of different varieties of sand and weak and weathered cross aggregate available in Punjab for manufacture of cement concrete	0.40
21. Alternative economic method for specific yield determination of aquifer sands in Punjab	0.15
22. Effect of saline water on different type of filter and efficiency of various tube well filters	0.25
23. Capacity survey of B.M.L. including comparison of design assumption	0.34
24. Comparison and co-relation of model prototype behaviour and results including comparison of design assumption and prototype behaviour	0.36
25. Reinforced Earth Technique for relieving pressures on rationing well for irrigation structures	0.28

Total

10.00

Minor Irrigation

6-41. 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 farmer assisted by institutional finance has gone all out to exploit the ground water resources. The number of tubewells increased from 25,361 in 1965-66 to 2,68,410 in 1979-80 more than ten times in 14 years. Wells have been mostly fitted with pump sets. The consumption of electricity in agriculture during 1979-80 was about 47 per cent of the total power consumption in the State. The supply of electricity for tubewells and pump sets at a subsidised rate has given further impetus to the exploitation of ground water resources. The main thrust under minor irrigation programme, is therefore, towards (i) acceleration in flow of institutional investment, (ii) stepping up rural electrification by energisation of 15,000 additional tubewells/pump sets during 1982-83, (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 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.

6-42. 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

Ground Water cell (Strengthening of Ground Water and Surface Water Organisation)

6-43. 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% 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 benefits.

6-44. An allocation of Rs 10.00 lakhs (State share) for the Annual Plan 1982-83 at current years' level has been provided for this scheme.

IRRIGATION DEPARTMENT

Integrated Utilisation of Water Resources

6-45. 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 would be drilled for locating aquifers for installation of tubewells.

6-46. A sum of Rs 25.00 lakhs has been provided for the Annual Plan 1982-83.

Punjab State Tubewell Corporation

6-47. The Punjab State Tubewell Corporation was set up in 1970 with an authorised capital of Rs 10 crores to take up the work of installation of tubewells. Later on the Corporation was also entrusted with the work of lining of water courses in the year 1975-76. The programme of lining of water courses was taken up in a big way in the year 1979-80 with the financial assistance from World Bank. The authorised share capital was raised to Rs 50.00 crores during 1979-80.

Tubewells

6-48. The original work of the Corporation since its inception has been installation of tubewells. The various stages of work in respect of tubewells are given below:—

Stage of work	Number at the end of 1980-81		1981-82 (Anticipated)		1982-83 Targets	
	Augmentation	Direct	Augmentation	Direct	Augmentation	Direct
1. Drilled	352	376	..	20	..	30
2. Developed	352	342	..	20	..	30
3. Completed	303	284	..	20	..	30
4. Energised	263	281	..	20	..	30

6.49. The Irrigation potential created through the installation of tubewells to the end of 1980-81 and anticipated during 1981-82 and target for 1982-83 are tabulated below:—

Year	Commulative Irrigation potential (000 Hect.)
1980-81	.. 53.50
1981-82	.. 55.00
1982-83	.. 57.25

6.50. The deep tubewells are mainly installed in the backward and submontane areas of the State where at present there are no assured means of irrigation. The water table is very deep and it is beyond the capacity of individual farmers to instal and operate tubewells. It is proposed to install 30 tubewells during 1982-83, at an estimated cost of

Rs 75.00 lakhs, 25% of which i.e. Rs 18.75 lakhs has been provided in the Annual plan and the remaining 75% will be raised from financial institutions under A.R.C. refinance scheme.

Repayment of principal

6.51. A tubewell is assumed to have a life span of 33 years and the recovery will be effected from beneficiaries over the same period. As against this, the repayment to banks is to be made in 10 years as per ARDC's stipulations. To meet this gap between repayment and recovery, provision is required to be made in the Annual Plan. An amount of Rs 63.25 lakhs has been provided on this account.

6.52. The total expenditure incurred on the installation of tubewells upto the end of 1980-81, anticipated during 1981-82 and targetted during 1982-83 is given as under:—

Sr. No.	Item	Expenditure				(Rs in lakhs)	
		Up to 1980-81		1981-82	anticipated	1982-83 Targets	
		Total expenditure	Plan provision	Total expenditure	Plan provision	Total expenditure	Plan provision
1	Installation of Tubewells (State share)	899.50	324.37	44.10	11.00	75.00	18.75
2	Equity	280.00	280.00	—	—	—	—
3	Repayment of principal	379.83	355.37	55.00	47.00	70.00	63.25
4	Subsidy for running and maintenance of tubewells	704.75	111.75	153.00	69.00	provision on non-plan side	
5	Strengthening of ground water organisation in PSTC (State share)	6.00	3.00	6.00	3.00	6.00	3.00
	Total	2,270.08	1,074.49	258.00	130.00	151.00	85.00

Command Area Development

6.53. Under this programme Punjab State Tubewell Corporation has been executing 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 started by the Corporation in the year 1975-76. The target and achievement in respect of lining of water courses for the period 1975-76 to 1980-81, 1981-82 (anticipated) and target for Annual Plan 1982-83 are given below:—

Year	Target	Achievement
1975-76	600	159
1976-77	600	506
1977-78	2000	1184

Year	Target	Achievement
1978-79	2500	1421
1979-80	2710	1763
1980-81	3525	2056
1981-82	3500	3500 (anticipated)
1982-83 Target	3500	..

6.54. The project of lining of water courses is being executed under ARDC's refinance scheme 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 the Lining of Water Courses of Punjab Irrigation Project envisages lining of water courses of 2820 outlets having total length of 16735 Kms. at a total cost of Rs. 117.95 crores. This component of the

project is to be completed in five years beginning from year 1979-80. The yearwise break-up of the physical targets and financial outlay envisaged are as under :—

Serial No.	Particulars	Years					Total
		1979-80	1980-81	1981-82	1982-83	1983-84	
1	No. of outlets (water courses of which are to be lined)	460	590	590	590	590	2820
2	Length of water courses to be lined (Km)	2710	3525	3500	3500	3500	16735
3	Total cost (crores)	16.25	22.90	24.50	26.25	28.05	117.95
4	State share 20 % of item (3) above (crores)	3.25	4.58	4.90	5.25	5.61	23.59
5	Banks's share @ 80% of item (3) above (crores)	13.00	18.32	19.60	21.00	22.44	94.36

6.55. It has been proposed to line 3500 Km. length of water courses during 1982-83 at a cost of Rs. 2900 lakhs, out of which Rs. 580.00 lakhs has been provided as PSTC's /Government share @ 20 % as envisaged by ARDC under its. refinance scheme. The remaining 80% would be drawn as

reimbursement from financing banks after executing the work. The total expenditure incurred on lining of water courses up to 1980-81, anticipated during 1981-82 and targetted for 1982-83 is given as under :—

Item	Expenditure Up to 1980-81		1981-82 Anticipated		Target 1982-83	
	Total cost	Plan provision	Total cost	Plan provision	Total cost	Plan Provision
1. Lining of water courses	4412.37	1371.26	2660.00	605.00	2900.00	580.00
2. Equity	499.50	499.50	—	—	150.00	150.00
3. Repayment of principal and interest	599.06	311.00	Provisions on non-plan side			
Total	5510.93	2181.76	2660.00	605.00	3050.00	730.00

Anti-Waterlogging, Drainage and Flood Control

6.56. Floods have been a recurring menace. As such, main emphasis till recently had been on the construction of embankments and drainage improvement. Besides widening and deepening and reconditioning of existing drains, 960 Kms. of flood protection embankments and 6288 Kms. of surface drains had been completed by the end of 1980-81. These works provided relief/protection to about 25.50 lakh hectares of new areas as against the estimated total flood prone-area of 37.0 lakh hectares. An expenditure of Rs. 91.54 crores had been incurred upto the end of 1980-81. During the year 1981-82 it is envisaged to construct another 6.15 Kms. of new embankments and 73.40 Kms. of drainage

channels with an outlay of Rs. 3.50 crores. This would also provide protection to an additional area of 0.17 lakh hectares besides providing protection to an area of 0.10 lakh hectares which has been previously protected.

6.57. Taking into account the recurring flood damages in spite of flood protection works having been carried out in the affected areas it was considered necessary to adopt a multipurpose approach to these problems envisaging construction of embankments downstream of storage reservoirs which will be constructed downstream of choes and river system and other non-engineering works of afforestation, soil conservation and watershed management alongwith flood protection and drainage work in the affected reaches.

6-58. An outlay of Rs. 400.00 lakhs has been expended as under :—
provided for the Annual Plan 1982-83 to be

	(Rs. in lakhs)
1. Flood Control and drainage schemes	200.00
2. Anti-water logging works in Muktsar and Faridkot areas for lowering the water table	150.00
3. Dholbaha Dam (drainage portion)	50.00
Total	400.00

6-59. A table showing physical targets/ achievements upto 1980-81, anticipated achievement during 1981-82 and target for 1982-83 is given below:—

Item	Unit	Constructed upto 1980-81	1981-82 (anticipated)	1982-83 (target)
1	2	3	4	5
1. Length of embankments	Kms.	960	6.15	2.50
2. Length of drains	Kms.	6288	73.40	23
3. Area to be benefitted—				
(i) New	Lakh hecets.	25.50	0.17	0.10
(ii) Old	Lakh hecets.	..	0.10	0.30

Besides, it is proposed to utilise an amount of Rs. 2.00 crores (State share Rs. 1.00 crore) out of the allocations under N.R.E.P. which is being implemented on a matching basis.

CHAPTER VII

Power

In our State, Electricity is the only form of energy available for accelerating the development of agriculture and industry. Power Development thus is the key to the economic prosperity and well being of the State. In view of its vital role, the

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 outlays since the Fourth Five-Year Plan are given in the following table :—

TABLE 7-1

(Rs. in crores)

Serial No.	Period/Year	Total State's Plan Outlay	Power Portion	Percentage of col. 4 to 3
1		2	3	4
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	1980-81	300.00	104.31	34.77
6	1981-82	340.00	133.60	39.29
7	1982-83	385.00	189.18	49.14

7.2. Keeping in view the target of large scale development and changing trend in energy consumption in agriculture sector, the forecast of energy demand has been projected by PSEB for Sixth Plan period and is depicted below :—

TABLE 7.2

Year	Anticipated Energy requirement in MUS	Anticipated peak demand in MW
1	2	3
1981-82	7536	1446
1982-83	8472	1625
1983-84	9572	1831
1984-85	10695	2052

7.3. At present State's demand of electricity is being met with from—

- (i) its own projects such as Shanan Power House, UBDC Power House, GNDTP Bhatinda, Diesel generating sets ;
- (ii) from common projects of Bhakra-Nangal Complex, Dehar Power Plant and Pong Power Plant ;
- (iii) Besides purchase of power from Bassi Power House of H.P. Government.

7.4 The Power availability for the State's need would increase on the completion of all on-going Power projects during Sixth Plan. In addition the State would also get energy benefits from Central Projects, namely Baira-Suil, Salal and Super Thermal Plant, Singrauli. The year-wise position with regard to increase in the installed capacity on the basis of the latest commissioning schedule of the

various on-going projects in the State is given in the following table :—

TABLE 7-3

(In MW)

Serial No.	Name of Power House/Project	Installed Capacity during					
		1979-80	1980-81	1981-82	1982-83	1983-84	1984-85
1	Shanan Renovation	48	48	60	60	60	60
2	Shanan Extension	..	..	50	50	50	50
3	U.B.D.C.	45	45	45	45	45	45
4	Share in Bhakra Complex	613	613	613	613	613	613
5	Beas Unit I	317	317	317	317	317	317
6	Beas Unit I (Extension)	..	..	..	..	158	158
7	Beas Unit II	60	60	60	60	60	60
8	Beas Unit II (Extension)	..	..	..	30	30	30
9	Anandpur Sahib	..	..	..	100.5	134	134
10	Mukerian Hydel	..	..	..	45	187.5	207
11	G.N.D.T.P. Units I & II	220	220	220	220	220	220
12	G.N.D.T.P. Extension Units III & IV	220	220	220	220	220	220
13	Ropar Thermal Project, Stage-I	..	..	..	..	210	420
14	Diesel	14	14	14	14	14	14
	Total	1537	1537	1599	1774.5	2318.5	2548.0

7.5. It would be seen from the above table that the installed capacity is likely to increase from 1537 MW in 1979-80 to 2548 MW in 1984-85.

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

TABLE 7-4

Year	Energy availability in M. Kwh.	Generation capacity in MW
1	2	3
1981-82	..	1036
1982-83	..	1083
1983-84	..	1318
1984-85	..	1614

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

TABLE 7-5

Serial No.	Item	Years				
		1981-82	1982-83	1983-84	1984-85	
1	2	3	4	5	6	
1	Installed capacity—MW	..	1599	1774.5	2318.5	2548.0
2	Generation capacity available—MW	..	1036	1083	1318	1614
3	Anticipated Peak Demand—MW	..	1446	1625	1831	2052
4	Deficit (Col. 3—2)—MW	..	410	542	513	438
5	Additional installed capacity required to offset the generation capacity deficit—MW	..	641	847	802	684
6	Energy availability—M.Kwh.	..	6328	7031	8172	9690
7	Energy requirement—M.Kwh.	..	7536	8472	9572	10695
8	Deficit (Col. 7 —6)—M.Kwh.	..	1208	1441	1400	1005

7.8. From the above table it is evident that the State would continue to be in the grip of a Power famine throughout the Sixth Plan.

7.9. 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. A sizeable allocation has been proposed

for Anandpur Sahib Hydel Project, Shanan Renovation, Shanan Extension and Mukerian Hydel Project so as they may start functioning as per schedule. The following table indicates programme-wise details regarding actual expenditure for 1980-81, Outlay and anticipated expenditure for 1981-82 and outlay for 1982-83.

TABLE 7.6

(Rs. in lakhs)

Programme	1980-81 Actual Expenditure	1981-82		1982-83 outlay
		Approved outlay	Anticipated Expenditure	
1	2	3	4	5
1. Generation ..	5095.13	8063.00	8724.00	14374.00
2. Transmission and Distribution—				
(a) Transmission ..	2592.33	2550.00	2550.00	2688.00
(b) Distribution including development ..	663.70	750.00	750.00	730.00
(c) Reduction of Trans. losses, Improvement of Transmission system ..	280.37	500.00	500.00	582.00
Total-2 ..	3536.40	3800.00	3800.00	4000.00 (13300.00)*
3. Rural Electrification—				
(a) R.E.C. ..	1250.83	572.00	572.00	629.00
(b) Plan ..	494.86	600.00	600.00	571.00
Total—3 ..	1745.69	1172.00	1172.00	1200.00
4. Power Development—				
(a) Survey and Investigation ..	16.34	13.00	13.00	13.00
(b) Research Station and Load Despatch Centre ..	6.49	312.00	27.00	31.00
Total—4 ..	22.83	325.00	40.00	44.00
Grand Total ..	10310.05	13360.00	13736.00	18918.00

*Out of the outlay of Rs. 4000.00 lakhs for Transmission and Distribution works, Rs. 3300.00 lakhs would be met from Plan budget while Rs. 700.00 lakhs would be met by reducing the inventory by C. E./T.&S.

7.10. The Annual Plan 1982-83 in respect of the Sub-head 'Power' is proposed to be financed as given in the following table :—

TABLE 7.7

(Rs. in crores)

(Rs. in crores)

Source	Annual Plan 1982-83
1	2
1. Borrowing from market (net) ..	12.00
2. Borrowing from L.I.C. (Gross) ..	9.30
3. Borrowing from R.E.C. ..	6.29
4. Borrowing from others ..	0.50

Source	Annual Plan 1982-83
1	2
5. Internal resources ..	3.30
Total (1 to 5) ..	31.39
6. Government loan ..	157.79
Total ..	189.18

7.11. The various projects/programmes to be executed during 1982-83 are discussed below :—

MULTIPURPOSE PROJECTS

Beas Project

7.12. 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. The allocation of expenditure between Power and Irrigation is in the ratio of 94 : 6 for Unit-I (including Extension Project) and in the ratio of 23.5 : 76.5 for Unit II and its extension. The expenditure debitable to Power between Punjab, Haryana and Rajasthan is in the ratio of 48 : 32 : 20 respectively for Unit I and 24.9 : 16.6 : 58.5 respectively for Unit II.

Beas Unit I—Dehar Power Plant

7.13. 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.

7.14. In the total estimated cost of Rs. 38257.00 lakhs, the share of Punjab chargeable to power sector is Rs. 17262.00 lakhs. An expenditure of Rs. 16871.87 lakhs has already been incurred upto March, 1981.

7.15. An outlay of Rs. 405.00 lakhs has been provided for completion of residual work for 1982-83 against an anticipated expenditure of Rs. 354.00 lakhs during 1981-82.

Beas Unit-I (Extension)

7.16. The Dehar Power Plant (extension) 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. Both the units are now scheduled to be commissioned in 1983-84.

7.17. The latest estimated cost of the project expenditure incurred upto 1980-81, spillover requirement after 1980-81, anticipated expenditure for 1981-82 and outlay for 1982-83 are given as under :—

Rs. in lakhs

Latest Estimated Cost	..	2470.00
Expenditure upto 1980-81	..	746.14
Spillover requirement after 1980-81	..	1723.86
Anticipated expenditure for 1981-82	..	476.00
Outlay for 1982-83	..	677.00

Beas Unit II

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

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

Unit I	..	January, 1978
Unit II	..	March, 1978
Unit III	..	October, 1978
Unit IV	..	March, 1979

7.19. In the total estimated cost of Rs. 25,980.00 lakhs, the State's share is Rs. 1520.00 lakhs. An expenditure of Rs. 1,511.07 lakhs has been incurred up to March, 1981. An outlay of Rs. 23.00 lakhs has been provided for 1982-83 against a sum of Rs. 10.00 lakhs likely to be spent during the current year to complete the remaining works of the project.

Beas Unit-II (Extension)

7.20. The Pong Power Plant Extension envisages the installation of two additional units of 60 MW capacity each. The State's share in this Power Plant is 30 MW. As per BCB both the units would be commissioned during 1982-83. The details of outlay and expenditure up to date are given as under :—

	(Rs. in lakhs)
1. Latest estimated cost (chargeable to power's portion, Punjab)	250.00
2. Expenditure incurred up to 1980-81	109.76
3. Spill-over requirement after 1980-81	140.24
4. Anticipated Expenditure for 1981-82	58.00
5. Outlay for 1982-83	41.00

Thein Dam Project

7.21. The project envisages the construction of 147 Metre High Dam on River Ravi, 24 KM upstream of Madhopur Head Works. The project is now estimated to cost Rs. 469.00 crores and envisages the installation of 4 units of 120 M.W 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 project commences immediately, the first unit of the project is likely to be commissioned in January, 1987. The U.B.D.C. Stage-II also forms part of the Thein Dam Project, which envisages installation of one unit of 15 MW each in the existing 3 Power Houses of UBDC stage-I. All these units are scheduled to be commissioned in 1986-87. An outlay of Rs. 10.00 crores has been provided for 1982-83 on Power side and the same is to be utilized mainly by the Irrigation Department

for the Civil Works to be carried out by that Department.

(Rs. in lakhs)

POWER PROJECTS

Shanan Renovation Project :

7.22. 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) 'Up-rating of 4 units from 12 MW to 15MW 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 and IV has already been completed in March, 1973, March, 1974, March, 1975 and March, 1976, respectively.

7.23. The work on replacement of Turbine, Governing and Excitation system of all the four machines had already been completed and synchronised with the system. These machines had been commissioned on 12/13 MW each in stead of at 15 MW due to delay in the supply in of 11 KV Switch gear. The 11 KVs 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 later could not withstand the specified impulse test. Fresh tenders for the supply of 11 KV 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 uprated from 12 MW to 15 MW by replacing 11 KV switch gear, cabling, etc qy Feb., 1982. An outlay of Rs. 35.00 lakhs is provided for 1982-83 to provide for Gates and Gears, 11 KV switch gear, turbine and governing system, erection of equipment and cost of spare runners, other works, for establishment charges, etc. The details of outlay and expenditure upto date are given as under :—

	(Rs. in lakhs)
1. Estimated cost of Project ..	831.32
2. Expenditure incurred upto 1980-81 ..	619.67

3. Spill over requirement after 1980-81 ..	211.65
4. Anticipated Expenditure for 1981-82 ..	98.00
5. Outlay for 1982-83 ..	35.00

Shanan Extension Project :

7.24. This project envisages the installation of one unit of 50 MW capacity adjacent to existing four units of 12MW each at Shanan 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 upward from Rs. 1720.00 lakhs to Rs. 1898.53 lakhs. It includes the cost of replacement of equipments damaged in the fire. Although there has been a set back in the progress of the project 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 now by February, 1982. An outlay of Rs. 100.00 lakhs has been provided for 1982-83 against an anticipated expenditure of Rs 300.00 lakhs during 1981-82. The details of outlay and expenditure upto date are given as under :—

	(Rs. in lakhs)
1. Latest Estimated cost of the Project ..	1,898.53
2. Expenditure incurred up to 1980-81 ..	1,445.80
3. Spill over requirement after 1980-81 ..	452.73
4. Anticipated expenditure for 1981-82 ..	300.00
5. Outlay for 1982-83 ..	100.00

7.25. The outlay for 1982-83 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, work of pen stock and connected Civil Works and on establishment charges.

GNDTP Extension Units-III & IV

7.26. 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. An outlay of Rs. 142.00 lakhs for 1982-83 against an expenditure of Rs. 225.00 lakhs anticipated during 1981-82

provided 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 1980-81	6440.39
3. Spill over requirement after 1980-81	674.61
4. Anticipated expenditure for 1981-82	225.00
5. Outlay for 1982-83	142.00

Anandpur Sahib Hydel Project :

7.27. The project envisages the installation of 4 units of 33.5 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 for 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 achieve the advanced commissioning schedule for the project. As such, a sum of Rs 1734.00 lakhs has been provided during 1982-83 against the expenditure of Rs 2924.00 lakhs likely to be spent during 1981-82. The original and revised commissioning schedules of all the four units are as under :—

	Commissioning schedule	
	Original	Revised
PH.1 : Unit-I	1/83	7/82
Unit-II	4/83	10/82
PH-2 : Unit-I	1/84	2/83
Unit-II	4/84	6/83

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

(Rs. in lakhs)	
1. Latest estimated cost of the project	10793.07
2. Expenditure incurred upto 1980-81	7116.44
3. Spill over requirements after 1980-81	3676.63
4. Anticipated Expenditure 1981-82	2924.00
5. Outlay for 1982-83	1734.00

7.29. The proposed outlay would be spent on civil and electrical works and on establishment. Civil works, inter-alia include Excavation and concreting of Power House, Bye Pass Channel, Intake P.H. I and P.H.II Works, Excavation and Lining of Power Channel and Tail Race, Building and Drainage Works. Electrical Works provide for T.G. sets, Power transformers, Bus duct and accessories and erection of a T.G. Units, Mfg. and deliveries of 132 K.V.S./Yard equipment and on establishment.

Mukerian Hydel Project

7.30. The project envisages the construction of 4 Power Plants 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 12158.45 lakhs, will generate 1177 MUS per year. In view of the severe shortage of electricity in the State the commissioning schedule of the all the 12 units of the 4 Power Houses of the Project has been advanced. The present commissioning schedule of these powerhouses would be as under :—

	PH-1	PH-2	PH-3	PH-4
Unit-I	7/82	4/83	7/83	12/83
Unit-II	10/82	7/83	10/83	3/84
Unit-III	1/83	10/83	1/84	6/84

Keeping in view the above changes in the commissioning schedule of the Project, the pace of the work on the project has to be accelerated. As such an adequate provision of Rs 2266.00 lakhs for 1982-83 has been provided against Rs 2076.00 lakhs likely to be spent during 1981-82. The details of outlay and expenditure upto date are given below :—

(Rs. in lakhs)	
1. Latest estimated cost	12158.45
2. Expenditure upto 1980-81	2150.61
3. Spill-over requirement after 1980-81	10007.84
4. Anticipated Expenditure for 1981-82	2076.00
5. Outlay for 1982-83	2266.00

7.31. The proposed outlay for 1982-83 would be utilised for excavating of 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—1

7.32. The three Power Houses of 15 MW capacity each of U.B.D.C. Stage—1 project were commissioned during August, 1971, May, 1972 and April, 1973, respectively and are in operation. However some essential protection and cross drainage works at an estimated cost of Rs. 73.00 lakhs which formed an integral part of the power 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 inter-linking 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 Houses.

7.33. These works have since been taken up for completion. A sum of Rs 25.00 lakhs in the Annual Plan for 1982-83 has been envisaged for the purpose against Rs. 19.00 lakhs likely to be spent during 1981-82.

Ropar Thermal Plant Stage -I

7.34. The Ropar Thermal Plant envisages the installation of 5 units of 210 MW capacity 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.

7.35. Due to cost escalation it has been estimated that the scheme is likely to cost Rs 32,738.21 lakhs. Against the anticipated expenditure of Rs 2184.00 lakhs during 1981-82, an adequate provision of Rs 7,631.00 lakhs has been provided for this project during 1982-83 so that the targetted commissioning of this project Unit-I by 12/83 and Unit-II by 6/84 would be achieved. The requisite amount for the remaining years of the Sixth Plan would also be made available for achieving the envisaged schedule of commissioning

The details of outlay and expenditure are given as under:—

	(Rs. in lakhs)
1. Approved cost	16,800.00
2. Latest estimated cost	32,738.21
3. Expenditure incurred upto 1980-81	1,457.03
4. Spill over requirement after 1980-81	31,218.18
5. Anticipated expenditure for 1981-82	2,184.00
6. outlay for 1982-83	7,631.00

7.36. The provision for 1982-83 would be utilised mainly for the purchase of land, construction of residential quarters, Railway siding and marshalling yard, purchase of steel, an advance payments for the purchase of electrical equipment and on Mechanical equipments such as Boiler Auxiliaries and Turbo Generator and Auxiliaries.

New Schemes :

7.37. As already stated, there is significant gap between the requirement and availability of Power which would further widen unless some new projects are immediately taken up for execution so as to yield benefit in the 7th Plan. Keeping this in view P.S.E.B propose to take up the following new schemes for execution.

Participation in Hydel Projects with neighbouring States :

7.38. As Punjab is left with no significant exploitable water power potential and is situated quite away from the coal fields, it is imperative that joint ventures are embarked upon to exploit the vast hydro potential of neighbouring States of Himachal Pradesh and Jammu and Kashmir. A token provision of Rs. 25.00 lakhs only has been provided during 1982-83 which may be reviewed if any agreement is reached with the neighbouring States for executions of any project.

Micro-Hydel Schemes :

7.39 There are a number of small falls on canals throughout the Punjab State. It is proposed to initially take up execution of five schemes namely; Nidampur (IMW) Thuhi (IMW), Rohti (1.16 MW), Dhariwal (2.50 MW) and Duadhar (1.55 MW). A provision of Rs 70.00 lakhs has been provided during 1982-83 for execution of these schemes. Subsequently five schemes that are most suitable will be selected each year and taken-up for execution.

Renovation/Modification of GNDTP, Bhatinda:

7.40. There were some basic deficiencies in the Plant and Machinery of GNDTP, Bhatinda which resulted in the reduced plant load factor. Ministry of Energy has given certain Guidelines for betterment of Thermal Plants. Keeping this in view the matter was taken up with BHEL and problems responsible for poor plant load factor were identified and BHEL has suggested the remedial measures. These are now to be implemented. The main works are as under :—

- (i) Providing additional clarifier for D.M. Plant.
- (ii) Augmentation of water treatment plant.
- (iii) Extension/Improvement of Coal Handling Plant.
- (iv) Modification and Augmentation of ESP's.
- (v) Improvements in Ash Handling Plant.
- (vi) Provision of Economisers of Modified design.
- (vii) Provision of new Air Heaters.

An outlay of Rs. 200.00 lakhs has been provided during 1982-83 for carrying out these works.

7.41. Details regarding cost estimates, date of commencement, expected date of completion, status of the Project, expenditure incurred upto the end of 1980-81, spillover requirement after 1980-81, anticipated expenditure for 1981-82 and outlay for 1982-83 in respect of various Generation projects are given in Annexure-I to the Chapter.

Transmission and Distribution :

7.42. The Transmission lines are the means to transmit power from the Power Plants to the Grid-sub-station 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 in the Sixth Plan. An outlay of Rs. 26.88 crores is envisaged for transmission works during 1982-83 against a sum of Rs. 25.50 crores likely to be spent during 1981-82. The details in respect of all the transmission projects are given in the following table :—

Table 7.8

(Rs. in lakhs)

Transmission Project	1981-82		1982-83	
	Approved Outlay	Anticipated Expenditure	Outlay	
1	2	3	4	
1. Beas Transmission Project—				
(i) BCB ..	23.00	16.00	2.00	
(ii) PSEB ..	180.00	175.00	186.00	
2. U.B.D.C. Transmission Project ..	38.00	21.00	18.00	
3. Bhakra Right Bank Project ..	10.00	5.00	5.00	
4. GNDT Trans. Project ..	118.00	50.00	53.00	
5. GNDT Extn. Trans. Project ..	140.00	133.00	181.00	
6. Shanah Extn. Trans. Project ..	30.00	45.00	17.00	
7. 220, 132 and 66 KV Trans. Works of 5th Plan ..	745.00	860.00	635.00	
8. Sub-Transmission Works ..	600.00	500.00	441.00	
9. 220, 132 and 66 KV Trans. Works of 6th Plan ..	358.00	701.00	1,140.00	
10. Transmission lines for Dehar Extension Project ..	308.00	44.00	10.00	
Total ..	2,550.00	2,550.00	2,688.00	

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

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

(i) BCB Common Works Transmission :

7.44. These works consist of certain 220 KV and above lines which are common to 3 partner States, namely, Punjab, Haryana and Rajasthan 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. 16.00 lakhs during 1981-82 an outlay of Rs. 2.00 lakhs has been provided for 1982-83 for these works.

(ii) PSEB Works :

7.45. The works connected with the Beas Transmission Project and are being executed by PSEB (exclusive) are of the three types, namely, 220 KV, 132 KV and 66 KV works. An outlay of Rs. 186.00 lakhs is provided for 1982-83 against the anticipated expenditure of Rs. 175.00 lakhs during 1981-82. The details of works to be taken up during 1982-83 are given in Annexure II(i).

7.46. The transmission lines of 132 KV, and 66 KV, new sub-station and augmentation of various sub-stations provided in the transmission projects, namely, UBDC transmission Project, GNDT transmission Project, Shanen Extension, Transmission Project, GNDT Extension Transmission Project and Bhakra Right Bank Transmission Project are connected with the respective generation scheme. The works on all these projects have been continuing since the last few years. 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. Efforts would be made to undertake works during 1982-83 for completing the pending Transmission Works of

these projects. An adequate outlay has been provided for these projects for 1982-83 as given under :—

TABLE 7.9

(Rs. in lakhs)

Name of the Transmission Project	1982-83
1	2
	Rs.
(i) UBDC Transmission Project	.. 18.00
(ii) GNDT Transmission Project	.. 53.00
(iii) Shanen Extension Transmission Project	.. 17.00
(iv) GNDT Extension Transmission Project	.. 181.00
(v) Bhakra Right Bank Project	.. 5.00

7.47. 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 :**

7.48. 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 under this scheme are given as under :—

1. 220 KV.**(a) Sub-stations—**

- (1) Patiala.
- (2) Malerkotla.
- (3) Chandigarh.
- (4) Lalton Kalan.

(b) Lines :—

- (1) Sarna-Batala.
- (2) Batala-Verpal.
- (3) Ganguwal-Patiala.

II. 132 KV :**(a) Sub-stations :—**

- (1) Kartarpur.
- (2) Sultanpur.
- (3) Sri Hargobindpur.
- (4) Bagha Purana.
- (5) Jalalabad.
- (6) Kapurthala (Sultanpur Bay).
- (7) Banga.

(b) Lines—

- (1) Link Lines at Verpal, Batala and Sarna ends.
- (2) Batala-Kotli Surat Mali.
- (3) Moga to Bagha Purana.

III. 66 KV :**(a) Sub-stations—**

- (1) Mohali Phase VII.
- (2) Rupana.
- (3) Dhanaula.
- (4) Chubal.
- (5) Lehra Gaga.
- (6) Bheri (Aug.)
- (7) Bahadurgarh (Abohwal Bay).

(b) Lines :—

- (1) 220 KV S/S, Patiala-Bahadurgarh.
- (2) Malerkotla-Amargarh.

7.49. The details of works to be undertaken during 1982-83 are given in Annexure II (vii).

7.50. For undertaking the above-mentioned works, an outlay of Rs. 6.35 crores has been provided during 1982-83 against of Rs. 8.60 crores likely to be spent during the year 1981-82.

220/132/66 KV Transmission works of the 6th Plan connected with New Schemes (PSEB) :

7.51. 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. 11.40 crores is provided during 1982-83 as against an anticipated expenditure of Rs. 7.01 crores during 1981-82. 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.
- (5) Patran.

(b) Lines—

- (1) Patiala-Patran.
- (2) Jull. BBMM-Jull. II (Jainsher).

B. 132 KV :**(a) Sub-stations—**

- (1) Kotli-Suratmali.
- (2) Nurmahal.
- (3) Tarn Taran.
- (4) Bhogpur.
- (5) Goraya.
- (6) Nawanshehar.
- (7) Mahalpur.

(b) Lines—

- (i) Moga-Dharan.
- (ii) Nawanshehar-Goraya.
- (iii) Goraya-Nurmahal.
- (iv) D/C Line from PH-II to PH-II at Anandpur Sahib.
- (v) Lines connected with Mukerian Power Houses.
- (vi) Bhogpur-Mukerian.

C. 66 KV :**(a) Sub-stations—**

- (1) Tibber.
- (2) Talwara.
- (3) Kala Afgana.
- (4) Begowal.
- (5) Udhmangal.

7.52. The detailed works to be undertaken during 1982-83 is given in Annexure-II (viii).

Transmission Lines for Dehar Extension Project :

7.53. Only Rs. 10.00 lakhs has been provided for 1982-83 for transmission lines connected with Dehar Transmission Project as against the expenditure of Rs. 44.00 lakhs likely to be incurred during 1981-82. It has been done due to the fact that PSEB does not want to tap 400 KV lines at

Patiala which is related with the Dehar-Patiala-Dadri/Bhiwani Lines.

(c) Sub-Transmission Lines (33 KV) and Sub-stations :

7.54. 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 consumer 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-station would also help in reduction of distribution losses. An outlay of Rs. 4.41 crores has been provided for 1982-83 as against of Rs. 5.00 crores likely to be incurred during 1981-82 for this programme.

Normal Development Works :

7.55. The normal development works include giving of general (domestic and commercial) and industrial connections, erection of new LT and H.T. lines, distribution sub-stations and augmentation thereof. The information showing achievements under Normal Development Works (General and Industrial connections) upto 1980-81 anticipated achievement in 1981-82 and target for 1982-83 are given as under :—

TABLE 7.10

S. No.	Particulars	Unit	Achievement upto 1980-81	Anticipated achievement 1981-82	Target 1982-83
1	2	3	4	5	6
1.	General Connections	No.	1728596	100000	100000
2	Industrial Connections	No.	53179	3000	2000

7.56. An outlay of Rs. 7.30 crores has been provided for Annual Plan 1982-83 against an anticipated expenditure of Rs. 7.50 crores during 1981-82 for this programme. The break up of the proposed outlay for 1982-83 is given in the following table :—

TABLE 7.11

		(Rs. in la khs)
Serial No.	Description	Outlay 1982-83
1	2	3
1	Providing General connection at the rate of Rs. 286.00 each for 1,00,000	260.26
2	Industrial connection—	108.00
	(a) 60 Nos. Large Supply connections at the rate of 45,000 each	17.10
	(b) 300 Nos. Medium Supply connection at the rate of 17,000 each	31.94
	(c) 2,340 Nos. small connection at the rate of 3,500 each	58.96
3	Providing 11 K.V. lines, 625 K.M. at the rate of Rs. 17,000 per K.M.	85.00
4	Providing L.T. lines 750 K.M. at the rate of Rs. 15,000 per K.M.	85.00
5	Providing 600 Nos. Distribution Sub-stations at the rate of Rs. 15,000 each	90.00
6	Providing Street lighting	..
7	Training of Personnel	..
8	General Equipment T & P and any other capital work	..
9	Electrification of Harijan Basties	8.00
	Total	730.00

Improvement of Transmission and Distribution system and reduction of losses in Punjab :

7.57. Due to haphazard load growth by achievement of 100% rural electrification in the State, low load factor in the rural areas and the

rural load being farflung, 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 19% by the end of the Sixth Plan. An outlay of Rs. 582.00 lakhs for the Annual Plan 1982-83 is envisaged as against a sum of Rs. 500.00 lakhs likely to be incurred during 1981-82 for this programme.

Rural Electrification :

7.58. 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 households including Harijan Bastis, and (iv) improvement of supply conditions by augmentation and improvement works.

7.59. 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 as 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.

7.60. 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 funds allocated during the last few years from the State Plan. As the large number of villages already stand electrified in the non-REC areas, the number of pending applications for tube-wells is extremely large in this area as compared to the area covered by REC scheme. It is, therefore, necessary to provide for the additional requirements of tubewells load in the non-REC areas to a much greater extent.

Energisation of Tubewells :

7.61. The number of tube-wells/pump sets energised in the State upto the end of 1980-81 has been 283,246. 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 100,000 tubewells (44,000 tubewells under REC schemes and 56,000 tubewells under Plan Schemes) during the Sixth Plan period. Besides 61,300 tubewells would be energised under the Special Programme Agriculture. It is envisaged that 15,000 Tubewells (9,500 tubewell under REC Schemes and 5,500 tubewells under Plan Schemes) would be energised during 1982-83 for which an outlay of Rs.12.00 crores (Rs.6.29 crores from REC schemes and Rs.5.71 crores from State Plan resources) has been provided against a sum of Rs. 11.72 crores likely to be spent during 1981-82. In addition, 5,000 Nos. tubewells will be energised under Non-Plan schemes during 1982-83.

Investigation

7.62. To meet with the evergrowing power demand of Punjab, all possible new schemes of power generation need to be tapped in the shortest possible time. It is, therefore, essential that detailed investigation 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.

7.63. The following schemes are proposed to be investigated during 1982-83 :—

- (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.

7.64. An outlay of Rs. 13.00 lakhs for 1982-83 has been provided for the investigation of the above schemes against an equal amount anticipated to be spent during 1981-82.

Research Stations :

7.65. 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 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. 16.00 lakhs has been provided in the Annual Plan, 1982-83, while a sum of Rs. 12.00 lakhs is likely to be incurred on this station during 1981-82.

Load Despatch Centre

7.66. 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 constituents 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 outlay of Rs. 15.00 lakhs has been provided for 1982-83 at the current year's level.

ANNEXURE I

**Information regarding cost estimates, date of completion, status and details
of expenditure for power projects**

Information regarding cost estimates, date of completion, status.

Serial No.	Name of the scheme	Latest Estimated cost	Date of Commencement
1	2	3	4
1	Beas Project Unit-I ($4 \times 165=660$ MW)	.. 17262.00	1959-60
2	Beas Project Unit-1 (Ext.) ($2 \times 165=330$ MW)	.. 2470.00	..
3	Beas Project Unit-II ($4 \times 60=240$ MW)	.. 1520.00	1959-60
4	Beas Unit-II (Ext.) ($2 \times 60=120$ MW)	.. 250.00	..
5	Thein Dam Project ($4 \times 120=480$ MW)	.. 46900.00	1978-79
6	Shanan Renovation Project ($4 \times 6=24$ MW)	.. 831.32	1972-73
7	Shanan Extension Project (50 MW)	.. 1898.53	1975-76
8	G.N.D.T.P.-III and IV ($2 \times 110=220$ MW)	.. 7115.00	1974
9	Anandpur Sahib Hydel Project ($4 \times 33.5=134$ MW)	.. 10793.07	1974
10	Mukerian Hydel Project $6 \times 15=90$ MW $6 \times 19=117$ MW Total=207 MW	.. 12158.45	1977-78
11	Ropar Thermal Project Stage-I ($2 \times 210=420$ MW)	.. 32738.21	1978-79

I
and details of expenditure for power projects

(Rs. in lakhs)

Latest Commissioning schedule	Status of Project	Expenditure upto 1980-81	Spill over requirement after 1980-81	1981-82 Anticipated Expenditure	1982-83 outlay
5	6	7	8	9	10
Already commissioned	Stands cleared by G.O.I.	16871.87	390.13	354.00	405.00
Unit-I/6/83 Unit-II/11/83	Ditto	746.14	1723.86	476.00	677.00
Already commissioned	Ditto	1511.07	8.93	10.00	23.00
Unit-I/10/82 Unit-II/3/83	Ditto	109.76	140.24	58.00	41.00
Unit-I/1/87 Unit-II/4/87 Unit-III/7/87 Unit-IV/10/87	Technically cleared	..	46900.00	..	1000.00
February, 1982	Stands cleared from G.O.I.	619.67	211.65	98.00	35.00
February, 1982	Ditto	1445.80	452.73	300.00	100.00
Already commissioned	Ditto	6440.39	674.61	225.00	142.00
PH-I Unit-I/7/82 Unit-II/10/82	Technically cleared	7116.44	3676.63	2924.00	1734.00
PH-II Unit-I/2/83 Unit-II/6/83					
PH-I Unit-I/7/82 Unit-II/10/82 Unit-III/1/83	Ditto	2150.61	10007.84	2076.00	2266.00
PH-2 Unit-I-4/83 Unit-II-7/83 Unit-III-10/83					
PH-3 Unit-I-7/83 Unit-II-10/83 Unit-III-1/84					
PH-4 Unit-I-12/83 Unit-II-3/84 Unit-III-6/84					
Unit-I/12/83 } Unit-II/6/84 }		1457.03	31281.18	2184.00	7631.00

ANNEXURE—II (I)

List of Works and Plan Outlay for 1982-83 under Beas Project (Transmission) (PSEB)

Serial No.	Name of work	1982-83 (Rs. in lacs)
1	2	3
A. 220 K.V. Works :		
(a) Sub-stations :		
1.	Jullundur (New)	14.00
2.	Jullundur (BBMB)	5.00
3.	Veupal	5.00
4.	Jamalpur	11.50
(b) Lines :		
5.	Dehar-Ganguwal	..
6.	Ganguwal-Ludhiana	..
Total		41.00
B. 132 K.V. Works :		
(a) Sub-stations :		
1.	Ferozepur	13.40
2.	Abohar	12.00
3.	Goraya	4.00
4.	Batala	11.50
5.	Verka	2.50
6.	Butari	1.00
7.	Tarn Taran	1.00
8.	Kapurthala	2.00
9.	Moga	10.25
10.	Muktsar	3.40
11.	Maur	2.00
12.	Malout	1.50
13.	Nawanshahar	5.00
14.	Hoshiarpur	5.00
15.	Kotkapura	2.50
16.	Samrala	1.00
17.	Ropar	8.00
18.	Gobindgarh	3.00
19.	Patiala	10.00
20.	Jagraon	0.40
21.	Asron	1.00
22.	Phagwara	..
23.	Capacitor Banks	0.50
Total		80.95

Serial No.	Name of work	1982-83
1	2	3
C. 66 K.V. Works :		
(a) Sub-stations :		
1.	R/M Sub-station, S/S Ludhiana	12.00
2.	R/M Sub-station, S/S, Jullundur	5.25
3.	Jullundur	1.00
4.	Adda Dakha	1.25
5.	Rajpura	1.00
6.	Patiala	6.00
7.	Dhuri	0.25
8.	Malerkotla	1.00
9.	Barnala	2.75
10.	Mini Secretariat, Jullundur	6.81
11.	Capacitor Banks	
12.	T & P	2.50
(b) Lines :		
1.	66 K.V. R/M line around Ludhiana	0.25
2.	66 K.V. line around Jullundur	
	Total	40.06
	Total (A+B+C)	162.01
	PLC	29.63
	Total	191.64
	Establishment and Pro rata	19.16
	Grand Total	210.80*

*The proposed outlay will however be restricted to be Rs. 186.00 lakhs.

ANNEXURE—II (II)

List of works and Plan Outlay for 1982-83 under U.B.D.C. Project (Transmission)

(Rs. in lakhs)

Serial No.	Name of work	1982-83
1	2	3
A. 132 K.V. Works :		
(a) Sub-stations :		
1.	Patti	1.00
2.	Bhogpur	2.00
3.	Nakodar	1.50
4.	Fatehgarh Churian	2.00
5.	Sarna	..
6.	Gurdaspur	1.00
7.	Land	0.25
	Total	7.75
(b) Lines :		
	Diversion at Gurdaspur	..
	Total	7.75
B. 66 K.V. Works :		
(a) Sub-stations :		
1.	Ajnala	1.00
2.	Dinanagar	2.00
3.	Galri	1.50
4.	Narot Jaimal Singh	1.00
5.	Udhonangal	0.50
6.	Kotli Surat Mali	1.50
7.	Ramdas	..
8.	Kahnuwan	1.50
9.	Qadian	0.50
10.	Sri Hargobindpur	0.50
11.	Capacitor Banks	0.30
12.	Land	0.25
13.	T&P	0.20
	Total	10.75
	Total (A+B)	18.50
	P.L.C.	0.90
	Total	19.40
	Establishment and Pro rata	1.95
	Total	21.35*

*The expenditure will however be restricted to Rs. 18.00 lakhs.

ANNEXURE—II (iii)

List of works and Plan Outlay for 1982-83 under the GNDT Project (Transmission)

(Rs. in lakhs)

Serial No	Name of work	1982-83
1	2	3
A. 132 K.V. Works :		
(a) Sub-stations :		
1.	Mansa	6.20
2.	Talwandi Bhai	2.25
3.	Kharar	1.50
4.	Gobindgarh	1.50
5.	Ropar	2.00
	Total 'A'	13.45
B. 66 K.V. Works :		
(a) Sub-stations :		
1.	Hambra (Nurpur Bet)	—
2.	Ahmadgarh	1.00
3.	Bhadaur	3.00
4.	Laduka	2.50
5.	Talwandi Saboo	3.00
6.	Rama Mandi	2.50
7.	Rampura Phool	1.50
8.	Bassi Pathana	2.00
9.	Banur	0.25
10.	Lalru (Janatpur)	2.00
11.	Chaur Wala	0.80
12.	Rajpura (F.P.)	0.75
13.	Devigarh	1.50
14.	Patran	1.50
15.	Lehragaga	0.50
16.	Khanna	1.50
17.	Moonak	0.20
18.	Jarg	1.00
19.	Sunam	1.00
20.	Sirhind	0.80
21.	T & P	5.00
	Total (B)	32.30
	Total (A+B)	45.75
	PLC	9.10
	Total	54.85
	Estt. & Pro rata	5.50
	Grand Total	60.35*

*The expenditure will however be restricted to Rs. 53.00 lakhs.

ANNEXURE—II(iv)

List of works and Plan Outlay for 1982-83 under the Shanan Extension Project (Transmission)

(Rs. in lakhs)

Serial No.	Name of work	1982-83
1	2	3
A. 132 KV Works :		
(a) Sub-stations :		
1.	Pathankot	11.50
2.	Kapurthala	—
3.	Gurdaspur	—
(b) Lines :		
1.	Hoshiarpur-Hamirpur	—
2.	Terminal Tower Shanan	—
3.	Bassi-Hamirpur (PSEB Share)	—
	Total	11.50
B. 66 KV Works :		
(a) Sub-stations :		
1.	Majitha	2.00
2.	Sahnewal	0.80
3.	Narangwal	1.00
4.	Ajitwal	0.50
5.	Sidhwan Bet	0.50
6.	Morinda	1.00
7.	Mohali (F.P.)	—
	Total	5.80
	Total (A+B)	17.30
	PLC	Nil
	Total	17.30
	Estt. & Pro rata	1.70
	Grand Total	19.00*

*The expenditure will however be restricted to Rs 17.00 lakhs.

ANNEXURE—II (v)

List of Works and Plan Outlay for 1982-83 under the GNDT Extension Project (Transmission)

(Rs in lakhs)

Serial No.	Name of work	1982-83
1	2	3
A. 220 KV Works :		
(a) Sub-stations :		
1	Muktsar	92.00
(b) Lines :		
1	Bhatinda-Muktsar	5.00
	Total	97.00
B. 132 KV Works :		
(a) Sub-stations :		
1	Naraingarh	3.00
2	Dhariwal (Aug.)	1.50
3	Muktsar (Aug.) Interlinking bay	—
4	Capacitor Bank	0.40
(b) Lines :		
1	Verpal-Naraingarh	—
2	Muktsar-220 KV-Muktsar 132 KV	5.00
3	Muktsar-Ferozepur	30.00
4	Diversion of 132 KV Moga-Muktsar line to 220 KV Sub-Station, Muktsar	8.00
	Total	47.90
C. 66 KV Works :		
(a) Sub-stations :		
1	Udhonwa	1.00
2	Sujanpur	2.00
3	Kalanaur	2.00
4	Derababa Nanak	1.00
5	Aliwal	6.50
6	Mahalkalan	2.00
7	Barnala	17.50
8	Ghanaur	2.50
9	Longowal	2.00
10	Chawa	0.50
11	Katron	2.50
12	T. & P.	2.00
13	Capacitor Banks	0.60
	Total	42.10
	Total A + B + C	187.00
	P.L.C.	0.55
	Total	187.55
	Estt. & pro rata	18.75
	Grand Total	206.30*

*The expenditure will however be restricted to Rs. 181.00 lakhs.

ANNEXURE—II(vi)

List of Works and Plan Outlay for 1982-83 under B.R.B. Project (Transmission)

(Rs. in lacs)

Serial No.	Name of works	1982-83
1	2	3
A. 66 KV Works :		
(a) Sub-stations :		
1	Raikot	1.50
2	Samana	2.00
3	Nabha	1.00
	Total 'A'	4.50
	P.L.C.	1.20
	Total	5.70
	Estt. and <i>pro rata</i>	0.55
	Grand Total	6.25*

*The expenditure will however be restricted to Rs. 5.00 lakhs.

ANNEXURE—II(vii)

List of Works and Plan Outlay for 1982-83 under 220/132/66 KV Transmission Works
(for 5th Plan Project)

Serial No.	Name of work	1982-83
1	2	3
A. 220 KV Works :		
(a) Sub-stations :		
1	Verpal (Aug.)	1.00
2	Patiala	86.00
3	Malerkotla	37.00
4	Chandigarh	47.00
5	Lalok Kalan	40.00
6	Sangrur	1.25
7	Ganguwal (Patiala bay)	0.50
(b) Lines :		
1	Sarna-Batala	5.00
2	Batala-Verpal	5.00
3	Ganguwal-Patiala	75.00
4	Pong-Jullundur	2.00
5	Diversion at Lalok Kalan (Jamalpur-BTI Line)	0.50
6	Diversion at Mohali (Ganguwal Abdulpur line)	0.50
7	Diversion at Malerkotla (Jamalpur-Sangrur line)	2.00
Total 'A'		302.75
B. 132 KV Works :		
(a) Sub-stations :		
1	Kartarpur (Aug.)	12.00
2	Sultanpur	23.00
3	Mahapur	7.00
4	Kapurthala (Sultanpur bay)	0.50
5	Butari (Aug.)	15.00
6	Sri Hargobindpur	13.00
7	Fatehgarh Curian (Aug.)	1.00
8	Hoshiarpur (Aug.)	2.00
9	Batala (new) Interlinking bay	10.00
10	Tarn Taran (Aug.)	—
11	Jallalabad	4.00
12	Bhaga Purana	40.00
13	Kharar	0.10
14	Samrala	0.25
15	Ropar	0.25
16	Gobindgarh	0.50
17	Doraha	0.50

Serial No.	Name of work	1982-83
18	Banga	17.00
19	Land	—
(b) Lines :		
1	Muktsar-Jallalabad	—
2	Kapurthala-Sultanpur	0.50
3	Batala-Sri Hargobindpur	—
4	Batala-Surat Mali	10.00
5	Tee-off for Banga	1.00
6	Tee-off Bagha Purana from Moga	8.00
7	Tee-off Kartarpur	—
8	Hoshiarpur-Mahilpur	1.00
Total 'B'		166.60
C. 66 KV Works :		
(a) Sub-stations:		
1	Chabal	6.50
2	Qadian (Aug.)	6.00
3	Manochal	1.00
4	Gaunagarh	2.00
5	Giaspur (Bharat Nagar Chowk)	5.50
6	Jagralla	2.00
7	Ropana	2.00
8	Danaula	2.00
9	Badali	3.00
10	SAS Nagar	—
11	Majra	2.00
12	Kohara	0.50
13	Patiala	—
14	Dhandari Kalan and Sangrur	5.00
15	Patran (Badshahpur bays)	—
16	Fatehbad (Goindwal)	2.00
17	Bahadurgarh (Ablowal bay)	1.00
18	Bheri (Aug.)	12.00
19	Lehragaga	10.00
20	T & P	20.00
21	Land	2.00
22	Dera Bassi	5.00
23	Passiana	1.00
24	Majltha (Aug.)	—

Serial Nó.	Name of works	1982-83
25	Rajpura (FP) (Aug.) bay	1.00
26	220 KV S/S Sangrur—66 KV Patran bay (2nd)	0.25
27	Capacitor Banks	25.00
28	132 KV S/S Doraha—66 KV Sahnewal bay (2nd)	2.50
29	220 KV S/S Malerkotla-Kalyan Bhuri bay	5.00
30	Balbera Bay Passiana	..
31	132 KV S/S Kharar—66 KV bay for Badali	..
(b) Lines		
1	Chandigarh-Mohali	2.00
2	Chandigarh-SAS (P.H.)	2.00
3	Malerkotla-Amargarh	15.07
4	220 KV Malerkotla—66 KV Malerkotla	2.00
5	220 KV S/S Patiala—Bahadurgarh	..
6	Lalton Kalan to Ring Main LDH (D/C) between Sherpur and Gill Road	10.00
7	Kharar-Badali	..
8	Lalton Kalan to R/M LDH (D/C) between Gill Road & Ferozepur Road	10.00
	Total 'C'	165.25
	Total (A+B+C)	634.60
	PLC	19.75
	Total	654.35
	Estt. & pro rata	65.45
	Grand Total	719.80*

*The expenditure will however be restricted to Rs 635.00 lakhs.

ANNEXURE-II (viii)

List of Works and Plan Outlay for 1982-83 under 220/132/66KV Transmission Works for 6th plan Project

(Rs in lakhs)

Serial No.	Name of works	1982-83
A. 220 KV WORKS :		
(a) Sub-stations :		
1	Bhatinda	5.00
2	Sarna	15.00
3	Gobindgarh	15.00
4	Barnala	2.00
5	Batala	63.00
6	Patran	15.00
7	Land	27.87
(b) Lines		
1	Patiala-Patran	5.00
2	(Dummy) from Jullundur BBMB—Jullundur II (Jainsher)	10.00
Total		157.87
B. 132 KV WORKS :		
(a) Substations :		
1	Kotli Suratmali	33.00
2	Nurmahal	65.00
3	Bhogpur	30.00
4	Nawanshahar (AuS.)	25.00
5	Mahalpur (Aug.)	30.00
6	Mukerian PH-IV	30.00
7	Goraya (Addl. bay)	20.00
8	Nakodar (Addl. bay)	5.00
9	Fatehgarh Churlan (AuS.)	20.00
10	Sarna (AuS.)	20.00
11	Shri Hargobindpur	20.00
12	Patti (Aug.)	20.00
13	Batala (New AuS.)	20.00
14	Mansa (AuS.)	30.00
15	Ghulal (Samrala) (Aug.)	30.00
16	Gobindgarh (Aug.)	10.00
17	Ropar (Aug.)	17.00
18	Abohar (Aug.)	12.00
19	Talwandi Bhal (Aug.)	20.00
20	Jallalabad (Aug.)	17.00
21	Moga (Aug.)	2.00
22	Land	6.00
23	Ropar Sahar (AP-II bay)	6.00

Serial No.	Name of work	1982-83
(b) Lines :		
1	Moga-Dharamkot	40.00
2	Goraya-Nurmahal	..
3	Goraya-Nawanshahar	1.00
4	220 KV Batala—132 KV Batala	12.00
5	Shri Hargobindpur-Mukerian PH-IV	40.00
6	APH-I to APH-II (D/C)	2.00
7	Patiala -Samana	20.00
8	APH-II to Ropar (S/C)	40.00
9	APH-II to Nawanshahar (D/C)	50.00
10	Bhogpur-Mukerian PH-IV	60.00
11	Bhogpur-Jullundur (2nd)	40.00
12	Mukerian PH-I—MPH-IV	10.00
	Total	803.00
C. 66 KV WORKS :		
(a) Sub-stations :		
1	Kala Afgana	12.00
2	Tarntaran (F.P.)	5.00
3	Talwara (Aug.)	3.00
4	Tibber	10.50
5	Shahabpur (Batala) R/M	0.50
6	Billet Factory	..
7	Rai Majra	19.50
8	Maloud	6.00
9	Alamgir	2.00
10	Bhawanigarh (Aug.)	5.00
11	Dhuri (Aug.)	..
12	Moonak (Aug.)	11.00
13	Jografa (Aug.)	2.00
14	Barnala (Aug.)	5.00
15	Tappa	17.00
16	Dhanaula	5.00
17	Narangwal (Aug.)	10.00
18	Mullowal	14.00
19	Jarg (Aug.)	4.00
20	Ahmedgarh (Aug.)	4.00
21	Dhandari Kalan	15.00
22	Kahnuwan	6.00
23	Makhu	10.00
24	Lahoke (Aug.)	10.00

Serial No.	Name of work	1982-83
25	Ajitwal (Aug.)	10.00
26	Ghuman	11.00
27	Umarpura	9.00
28	Aliwal Road Batala (R/M)	2.00
29	Udhonangal (Aug.)	8.00
30	Manochal	7.00
31	Rooml	14.00
32	Ferozeshah	15.00
33	Land	13.73
34	Sahnewal	10.00
35	Dera Bassi	10.00
36	Gajewas	10.00
37	Barnala Rd. Sangrur	12.00
38	Reethkheri	10.00
39	Malerkotla F.P.	10.00
40	Bahadurgarh (Aug.)	10.00
41	Rupana	..
42	Bassi Pathana (Aug.)	10.00
43	Rakhra & bay at Ablowal	10.00
44	Badli (Aug.)	10.00
45	Katron (Aug.)	0.00
46	Samadh Bhai (Upgrading)	12.50
47	Patto Hira Singh	10.00
48	Samalsar	6.00
	(b) Lines :	
1	Tee-off for Tibber from Gurdaspur-Kahnuwan and	2.00
2	Kotli Suratmali-Kala Afgana	2.00
3	R/M diversion at Aliwal Rd., Barnala	10.00
4	Umarpura-Batala (New)	2.00
5	Aliwal Rd. Batala-Shahabpur-Umarpura	20.00
*6	Jalalabad-Guru Har Sahai	..
7	Diversion for Amloh of Gobindgarh of Bahdson line	..
8	Baifaf-Dera Bassi	5.00
9	Rallajoga-Tappa	15.00
10	Laduka-Fazilka	15.00
11	Diversion of R/M LDH for Giaspur	1.00
12	Sunam-Cheema	10.00
13	Malerkotla-Dhuri	5.00
14	66KV Tee off for Raimajra of Patiala-Sangrur line	5.00
15	Link line for Dhanaula	5.00

Serial No.	Name of work	1982-83
16	Diversion at 220KV S/S Patiala-Nabha line	..
17	Doraha-Badanikalan	.. 10-00
18	Doraha-Sahnawal (2nd)	.. 10-00
19	Tee-off for Roomi from (Jagraon-Raikot line)	.. 5-00
20	Tee-off for Rakhra from Ablowal-Nabha line	.. 2-00
21	Gobindgarh-Amloh (2nd)	.. 9-00
22	Tee-off for Pakhoke from Barnala-Bhador	.. 1-00
23	Tee-off for Barnala Rd-Sangrur from Sangrur-Barnala	.. 2-00
24	Tee-off for Reethkheri from Ablowal-Gobindgarh	.. 2-00
25	Dhulkot-Rajpura (Aug.)	.. 5-00
26	Rajpura-Bahadurgah (Aug.)	.. 4-00
27	Tee-off for Gajewas from Bhawanigarh-Sunam line	.. 2-00
28	Amloh-Tanda	.. 14-00
29	Lalton Kalan-Narangwal	.. 10-00
30	Tarntaran-Tarntaran F.P.	.. 1-00
31	Ablowal-Rakhra	.. 10-00
32	T & P	.. ..
33	Patiala-Nabha line (Aug.)	.. ..
34	Barnala-Tappa	.. 20-00
	Total 'C'	.. <u>610-73</u>
	Total A+B+C:	.. 1571-60
	PLC	.. 11-25
	Total	.. <u>1582-85</u>
	Establishment and Pro-rata	.. 158-30
	Grand Total	.. <u>1741-15*</u>

*The expenditure will however be restricted to Rs 1140-00 lakhs.

CHAPTER VIII

Industry and Minerals

Punjab's performance in industry is in sharp contrast to its success in agriculture. The industrial sector accounts for about 13% 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 resources. The level of development of large and medium industries, small scale industries and village industries in the past has been meagre. Punjab has, however, a strong agro-base which makes it particularly suitable for agro-based industries concerned with the processing of agricultural produce. The prospects for light engineering industries with high value added output are also good. At present only 15% of the cotton produced in Punjab is being processed in the State. Similarly only 13.4% of the sugarcane production is being converted into sugar because of the inadequacy of sugar mills.

8.2. The plan programmes for the development of industry have been conceived in the light of the necessity to give a significant lead to industry in the growth of the State economy and visualises the attainment of the following objectives:—

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

- (iii) Promotion of rural industries for which separate incentives are envisaged to ameliorate the economic condition of the weaker sections of 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 exploring new markets for exports.

8.3. Direct investment on large and medium industries is not possible due to limited State resources. The State I.D.C., is making effort to cover this deficiency to some extent. Today it has 34 ventures in public and joint sector functioning. Besides this developed land is being made available at concessional rate alongwith a package of incentives to attract new private ventures. Services of I.D.Cs., Q. M. Cs., Electronics Testing Laboratory, I.S.I. Centre, Textile House, Dying and Finishing for Woollens are already available. Technical services and facilities of Tool-Room, Hand Tool Design Institute, Research and Development Centre for Bicycle and Sewing Machine Development Centre also be provided to help the entrepreneurs. nucleus point at Goindwal is being established to provide complete infra-structure and other facilities for the establishment of industries.

8.4. The main physical targets achieved during 1980-81 and targets for 1981-82 and 1982-83 are as under:—

Item	1979-80	Targets achieved 1980-81	Likely achievement 1981-82	Targets 1982-83
1. No. of Units—				
(i) Large and Medium Sector	203	228	258	293
(ii) Small Scale Sector	54637	63806	70206	77006
(iii) Village Industries	41127	48209	52509	56809
	95967	112243	122973	134108

Item	1979-80	Targets achieved 1980-81	Likely achievement 1981-82	Targets 1982-83
2. Employment (No.)—				
(i) Large and Medium Sector ..	97533	109751	123401	139326
(ii) Small Scale Sector ..	349618	387664	413690	457890
(iii) Village Industries ..	68720	83590	89120	99520
	515871	581005	626211	696736
3. Production (Cr. Rs.)—				
(i) Large and Medium Sector ..	562.15	661.39	873.53	1040.15
(ii) Small Scale Sector ..	593.23	694.00	812.89	901.70
(iii) Village Industries ..	15.94	18.58	22.13	25.43
	1171.32	1373.97	1708.55	1967.28
4. Investment (Cr. Rs.)—				
(i) Large and Medium Sector ..	406.86	440.09	624.74	729.55
(ii) Small Scale Sector ..	219.78	269.67	290.31	322.03
(iii) Village Industries ..	6.38	7.44	7.99	9.02
	633.02	717.20	923.04	1060.60
5. Export (Cr. Rs.)—				
(i) Large and Medium Sector ..	33.04	39.42	53.73	66.25
(ii) Small Scale Sector ..	48.05	55.72	72.06	79.37
(iii) Village Industries ..	—	—	—	—
	81.09	95.14	125.79	145.62

Note : Investment and production figures are at constant prices with base year 1973-74. Indicators in this respect at current prices are attached as Annexure IV.

8.5. The Annual Plan for the year 1982-83 is the continuation of the earlier Plan. Realistic assessment of requirements has been made for the major schemes/projects on which work has already been initiated. Adequate priority has been accorded to the on-going projects in order to get benefits out of them at the earliest and to avoid the

time over run and consequent cost over runs. Besides, the nucleus complex of Goindwal Sahib has also been included. The actual expenditure in 1980-81 and outlays for 1981-82 and 1982-83 for the different sectors are as follows :—

(Rs. in lakhs)

Sector	Actual Expenditure during 1980-81	Approved Outlay 1981-82	Proposed Outlay 1982-83
* (i) Large and Medium ..	972.64	1059.00	749.00
(ii) Village and Small Industries ..	247.26	410.00	550.00
(iii) Mines and Minerals ..	3.00	7.00	11.00
(iv) Weights and Measures ..	0.96	3.00	2.00
	1223.86	1479.00	1302.00

*Details of schemes under this Sector are given in Annexure I to this Chapter.

Punjab Financial Corporation :

8.6. The Punjab Financial Corporation provides medium and long terms loans for setting up new industries in the State and for the expansion and modernisation of the existing industrial concerns. The Corporation has authorised capital of Rs. 10.00 crores and paid up capital of Rs. 5.07 crores. This Corporation has also introduced a number of schemes to help the entrepreneurs to set up industrial projects without financial difficulty. These are:—

- (a) Special capital assistance schemes under which soft term loans are extended to technically qualified entrepreneurs ;
- (b) grant of concessional finance to the existing S.I. units for modernisation of plant and machinery;
- (c) grant of bridging loans adjustable later against the term loan;
- (d) advancement of composite loan of Rs 25,000 to tiny units without margin money and at a reduced rate of interest ;
- (e) financial assistance to scheduled castes entrepreneurs at concessional rate of interest and other liberal terms and conditions; and
- (f) loan assistance to qualified medical practitioners for installation of their own X-Ray Plants.

8.7. During the year 1980-81, disbursement by the Corporation was of the order of Rs. 643.74 lakhs. The target of disbursement for 1981-82 is Rs. 840.00 lakhs. This, is, however, expected to touch the level of Rs. 925.00 lakhs by the end of March, 1983. This requires the strengthening of capital base of the Corporation. Against the provision of Rs. 15.00 lakhs during 1981-82 IDBI has estimated the requirement of PFC at Rs. 167.12 lakhs out of which 50% will be subscribed by the IDBI itself. Keeping in view the requirements for the next year an allocation of Rs. 30.00 lakhs has been provided. An equal amount will be subscribed by the IDBI.

Investment in Public Undertakings :

8.8 Punjab State Industrial Development Corporation acts as industrial entrepreneur for

promoting suitable projects in the large and medium sector of the State and also acts as the second State Level Agency of the IDBI for extending refinance facilities. Upto March, 1981, the Corporation has secured 77 letters of intents/registrations and had a capital base of Rs. 21.36 crore. During 1980-81 an amount of Rs. 421.00 lakhs was advanced by the Government to the Corporation. The total investment in equity made by the Punjab State Industrial Development Corporation in its promoted and assisted projects amounted to Rs. 216.60 lakhs besides investing an amount of Rs. 609.65 lakhs by way of bridge loans and temporary loans to projects promoted and assisted by it to take care of their urgent needs of funds. Six projects involving a capital outlay of Rs. 34.00 crores were commissioned during 1980-81 providing employment to 3290 persons. On the refinance side the Corporation sanctioned institutional finance amounting Rs. 415.90 lakhs during 1980-81. During 1981-82, the original allocation of the Corporation of Rs. 565.00 lakhs has been reduced to Rs. 420.00 lakhs and the balance amount has been used for acquisition of land. It is expected that during the year 1981-82, 12 projects involving a total capital outlay of Rs. 23.00 crores will be commissioned providing direct employment to 2,216 persons. The Corporation is also expected to sanction loans amounting to Rs. 500.00 lakhs under the IDBI refinance scheme and seed capital assistance amounting to Rs. 15.00 lakhs under IDBI seed capital schemes. During 1981-82 the Corporation has sanctioned Rs. 332.45 lakhs as loans under this scheme. During 1982-83 an outlay of Rs. 226.50 lakhs has been provided towards share Capital in view of the constraint on resources. The estimates of P.S.I.D.C. indicate a net requirement of Rs. 1210.00 lakhs for the various projects in hand as given in Annexure II.

Punjab State Small Industries Corporation :

8.9. The P.S.S.I.C. has gradually matured into a multi-service agency, designed to provide a variety of services and assistance for small scale industries. Its main activities are setting up of Industrial areas, procurement and distribution of iron and steel and other raw-materials, marketing assistance, etc. The annual turn over of the Corporation for the year 1980-81 was Rs. 35.25 crores against the target of Rs. 30.00 crores. This turn over is likely to touch above Rs. 40.00

crores during 1982-83. The paid up share capital of the Corporation is Rs. 441.00 lakhs against the authorised capital of Rs. 750.00 lakhs. No amount has been provided for the year 1982-83.

Punjab State Electronics Development and Production Corporation

8.10. Punjab State Electronics Development and Production Corporation was incorporated in 1976 for the promotion of electronic industry in the State. During the year 1981-82 an allocation of Rs. 50.00 lakhs has been provided. This Corporation has set up four subsidiaries which have gone into production. The Corporation has also developed an Electronic Township at Mohali where 223 plots have been carved out and 120 sheds have been constructed for allotment to prospective entrepreneurs in the field of electronic industries. Majority of these plots and sheds stand allotted. The Corporation is putting up 2 new projects during 1980-81, one for the manufacture of communication equipment and other for nickel cadmium batteries. The former is expected to go into production by the middle of 1982 and the latter by the end of 1982. The requirement of funds for this Corporation have been assessed at Rs. 178.15 lakhs out of which Rs. 123.15 lakhs are for the on going projects and the balance amount is for the two new projects as given in Annexure II. A sum of Rs. 60.00 lakhs has been provided for the year 1982-83.

Punjab State Hosiery and Knitwear Development Corporation

8.11. The Hosiery and Knitwear Development Corporation has implemented phase I of the Knitwear facilities. Under this programme it is providing technical assistance, training and consultancy services to the knitwear and allied industries. Phase II of the knitwear facility with UNDP inputs of 2.0 million U.S. Dollars has been cleared by the Government of India. The paid up share capital of the corporation till March, 1981 was Rs. 99.70 lakhs besides a loan of Rs. 20.00 lakhs. A sum of Rs. 30.00 lakhs is provided during the year 1981-82 and a sum of Rs. 15.00 lakhs is provided for the year 1982-83.

Punjab State Handloom and Textile Development Corporation :

8.12. The Punjab State Handloom and Textile Development Corporation is charged with the duty to promote and develop handloom

industry in particular and textile industry in general. The provision for 1981-82 is Rs. 25.00 lakhs and an allocation of Rs. 325.00 lakhs is provided for 1982-83. The main projects undertaken by the Corporation are the Export production project, shoddy spinning plant at Morinda expected to go into production by 1981-82 at a total cost of Rs. 116.64 lakhs, Cotton waste plant phase II Nakodar at a cost of Rs. 60.00 lakhs expected to go into production during 1981-82, process House for Cotton and Blended Fabrics at S.A.S. Nagar at a total cost of Rs. 62.93 lakhs with a capacity to process 4,000 metres of cotton cloth and 1000 Kg. of yarn per day. A process house for woollen worsted and weft knitted fabrics is being set up at Amritsar at an estimated cost of Rs. 3.00 crores, out of this Rs. 80.00 lakhs will be provided by the Commissioner (Handloom), Rs. 20.00 lakhs by the State Government. The balance will be met from the Financial Institutions. This project is scheduled to go into production during 1982-83.

8.13. Puntex has prepared a scheme for the development of Textile and Handlooms in the Punjab State for which World Bank assistance is expected to be forthcoming. This scheme has been accepted by the Development Commissioner, Handloom for its inclusion amongst the schemes to be presented before the World Bank for assistance. The financing pattern of the project is as under :—

	(Rs in crores)
(i) Reimbursement by World Bank ..	26.40
(ii) Contribution of State Government ..	8.80
(iii) Contribution by Development Commissioner, Handloom ..	8.80
(iv) Term loans from financial Institutions ..	44.00
Total ..	88.00

The project is likely to commence during 1982-83 and its year-wise requirement of funds are as under :—

	(Rs in crores)
1982-83 ..	8.00
1983-84 ..	28.00
1984-85 ..	28.00
1985-86 ..	12.00
1986-87 ..	9.00
1987-88 ..	3.00
Total ..	88.00

8.14. The scheme envisages setting up of spinning units handloom weaving complexes mini dyeing plants, process houses and training programme. It also provides for marketing of goods produced. It will be seen from the above that the entire scheme is to be implemented in six years. The share of the State Government, Central Government and that of the World Bank shall have to be provided in the Plan from the year 1982-83. The share of the Central Government and the World Bank is reimburseable later on. Accordingly a provision of Rs. 325.00 lakhs is provided for this project. The balance will be raised as term loan from the financial institutions.

Punjab State Leather Development Corporation :

8.15. The Punjab State Leather Development Corporation which was set up in 1980-81 and was provided with a share capital of Rs. 21.00 lakhs has been further strengthened with a share capital of Rs. 27.90 lakhs during the year 1981-82. The Managing Director of the Corporation has been appointed and the Corporation is expected to take up various activities in the field of leather industries during 1981-82. To start with the Corporation proposes to establish two Tanneries. Keeping in view the funds provided in the earlier years an amount of Rs. 10.00 lakhs is provided for the year 1982-83.

Punjab Goindwal Industrial and Investment Corporation:

8.16. Goindwal Industrial Complex is being set up in pursuance of the Industrial Policy Statement made by the Union Minister of State for Industry in the Parliament in July, 1980. The new Policy gave a new concept of setting up of nucleus plants all over the country which would aim at setting up large & medium scale units around which large number of smaller units could grow. The basic objective is to generate greater ancilliarisation and upgrading of technology of small units. Goindwal Industrial Complex is a pioneering attempt to translate this policy into practice. The Punjab Government has already acquired about 480 acres of land for this complex and it is proposed to expand it further and to build a new township around it.

8.17. In order to implement this ambitious programme of setting up a Nucleus Industrial Complex and a township at Goindwal the Punjab Government have set up the Punjab Goindwal Industrial and Investment Corporation which has

already been incorporated under the Indian Companies Act. The authorised capital of this Corporation is Rs. 5.00 crores. For strengthening the share capital of the corporation an amount of Rs. 100.00 lakhs is provided for the year 1982-83.

Small Scale Industries Programme

8.18. Under this minor head a large number of schemes are covered which help the SSI units with financial assistance, upgrading of their technology and marketing. Central subsidy of 15% on fixed capital investment is available in the three backward districts of Hoshiarpur, Sangrur and Bhatinda. In the State Plan also subsidy is available on the Central pattern. This subsidy is available in the border, bet, sub-mountain areas and in any other areas which may be declared backward by the State Government as such. This is a committed incentive under the State Government Industrial Policy. The current year's provision of Rs. 25.00 lakhs has been completely utilised. Besides that more claims for the grant of subsidy are pending for disposal. Keeping in view this back-log and the new commitments, an outlay of Rs. 50.00 lakhs is provided.

8.19. The Small Scale units in most cases have sufficiently obsolete technology. A number of schemes which are already under implementation for upgrading technology, improving quality control and enforcing standardisation will continue. Thus provision has been proposed for the continuation of the Industrial Development Centres and Quality Marking Centres. Provision has also been provided for completing the building for Central Tool Room which is being set up by the Government of India in collaboration with FRG. Provision has also been made for the Handtool Design Institute, Jullundur for the completion of the building.

8.20. The construction of buildings for the Sewing Machine Development Centre and Bicycle and Research Development Centre, Ludhiana, which are being set up in collaboration with UNDP will continue during 1982-83. A provision of Rs. 10.00 lakhs each for the completion of buildings is provided during 1982-83.

8.21. The scheme for the continuation of the District Industries Centres which are now functioning in all the Districts has also been provided at Rs. 76.00 lakhs out of which Rs. 38.00 lakhs will be under the State Plan and

Rs. 38.00 lakhs under the Centrally sponsored Plan. This provision also includes Rs. 15.00 lakhs for seed money loan and continuation of the R.I.P. and R.A.P. Schemes.

Industrial estates/Incentives to New Industries :

8.22. This scheme aims at integrated development of large, medium and small scale industrial units by providing infrastructure facilities. Land is acquired by the department and is transferred to PSSIC for development of plots of various sizes. These are allotted to intending entrepreneurs on subsidized rates. By 1980-81 out of 4068.80 acres of land acquired at 15 places, 3740.75 acres had been developed, out of 2382 plots developed 1930 have been allotted, details are at Annexure IIIA. During 1982-83, a provision of Rs. 215.00 lakhs is provided out of which Rs 15.00 lakhs will be incurred for the land already acquired, Rs. 100.00 lakhs for D.C.W. and Rs. 100.00 lakhs towards the land acquisition for Goindwal Sahib Complex.

8.23. This scheme includes provision for the various incentives announced by the State Government. The incentives include land at subsidised rates, grant of interest free loans concession on electricity tariff on power based industries, loans for feasibility reports, refund of electricity terminal tax etc. for all these programmes, an amount of Rs. 115.00 lakhs is provided for the year 1982-83.

Handloom Textile Industries :

8.24. There are about 22,000 looms employing about 34,000 persons in the State. The programme for the development of this sector as provided during the year 1981-82 is proposed to be continued during 1982-83 also at a cost of Rs. 10.00 lakhs. The outlay will be used for providing training to weavers getting them machinery and equipment on interest free loan running of a training cum-development centre and providing rebate on sale of cotton cloth.

8.25. The plan provides for a new programme of giving training to weavers from amongst the scheduled castes and backward classes. It is proposed to train 500 female and 100 male weavers. The scheme is to be implemented through the P.S.S.I.C. at a total cost of Rs. 10.00 lakhs.

Village Industries]

8.26. The Integrated Rural Development Programme is being implemented in the villages by the Department itself. In order to provide self-employment and generate additional employment in rural areas more and more entrepreneurs belonging to scheduled castes and backward classes are being covered under the programme of rural industrialisation. During the year 1981-82 there is an outlay of Rs. 35.00 lakhs. This programme of rural industrialisation is further envisaged to be intensified during the year 1982-83 so that more and more scheduled castes/backward classes and other weaker sections of society could be assisted. The total provision of Rs. 25.00 lakhs would be disbursed to the entrepreneurs in the rural areas under the Punjab State Aid to Industries Act at concessional rate of interest.

Handicraft Industries :

8.27. The programme includes running of training centres in leather embroidery, toy-making, wooden furniture and doll-making. The centres will provide training in these handicrafts trades and will help artisans to set up their own business. The total allocation for the entire group of handicrafts is Rs. 4.00 lakhs for 1982-83.

Sericulture Industries :

8.28. The sericulture programme includes the completion of the grainage building, running of sericulture farms, introduction of bush type plantation in the existing sericulture farm of Sujampur and Bhatwan. Subsidy is given to selected silk worm rearers, and construction of a rearing hut in sericulture farm at Narot Jaimal Singh is also included in the programme. Total allocation has been provided at Rs. 2.70 lakhs for 1982-83.

Mines and Minerals :

8.29. For this programme an allocation of Rs. 1.00 lakhs has been provided. During the year 1981-82, geological survey is expected to be carried out in 100 square Kms. and geological techno-survey in 5 square Kms. Five tubewells will be installed, 5 holes will be drilled and 100 samples will be collected for this programme in 1981-82. The same performance will be repeated in the year 1982-83.

Weights and Measures :

8.30. A sum of Rs. 2.00 lakhs has been provided for the year 1982-83 for the implementation of the Weights and Measures programme. The amount will be utilised for the purchase of machinery and equipment, completion of the

laboratory building and salaries of enforcement staff. The provisions of the Weights and Measures Act with regard to taxi fare meters, clinical meters, water meters, Weights and Measures used in the post offices and other miscellaneous trades will be implemented.

ANNEXURE I
ANNUAL PLAN 1982-83
Large and Medium Sector

(Rs. in lakhs)

No. and Name of the Scheme	Sixth Plan Outlay 1980-85	1980-81 Actual	1981-82		1982-83	
			Approved Outlay	Anticipa- ted Expendi- ture	Proposed Outlay	Capital content
1	2	3	4	5	6	7
IN 1-1 Punjab Financial Corporation ..	100-00	10-00	15-00	15-00	30-00	30-00
IN 1-2 Industrial Financial Corporation of India ..	1-00	..	..	..	..	..
IN 2-1 Punjab State Industrial Development Corporation ..	2950-00	421-00	565-00	420-00	226-50	226-50
IN 2-3 Punjab State Electronics Development and Production Corporation ..	200-00	30-00	50-00	50-00	60-00	60-00
IN 2-7 Punjab Goinjwal Industrial and Investment Corporation ..	..	..	..	128-00	100-00	100-00
IN 4-16 Electronics Development and Testing Laboratory at S.A.S. Nagar ..	30-00	7-95	5-00	3-13	2-50	..
IN 5-1 Industrial Estates ..	2806-00	503-69	424-00	593-75	330-00	305-00
Total ..	6087-00	972-64	1059-00	1209-88	749-00	721-50

ANNUAL PLAN
PUNJAB STATE INDUSTRIAL DEVELOP
Projects Undertaken/

Serial No.	Name of the company/ project	Annual capacity	Status of the project	Date of start	Expected year of completion	Latest cost estimates		
						Total cost	Equity	Debt
1	2	3	4	5	6	7	8	9
1	Punjab Alkalies Ltd ..	33,000 T.P.A. Caustic Soda	LI : Obtained FC : N.A. CG : Cleared FIC : N.A.	1980	1984	2500	535	1665
2	Punjab National Fertilizers Ltd.	Soda Ash—6000 T.P.A. Ammonium Chloride—60,000 T.P.A.	LI : Obtained FC : N.A. CG : Obtained FIC : N.A.	1980	1984	3955	1145	2810
3	ABP Circuit Breakers Ltd.	Min. C.B. 8 lac Nos. p.a.	LI : N.A. FC : Finalised CG : FIC : Finalised	1980	1982	30	15	15
4	Electronic Systems Punjab Limited	Rs. 2000 crores turnover	LI : Obtained FC : N.A. CG : Cleared	1981	1982	181.70	92.50	89.20
5	Punjab Pure Glass Industries Ltd.	Glass bottles 12000 T.P.A.	LI : Obtained FC : N.A. CG : Obtained FIC : Finalised	..	1984	290.00	106.00	184.00
6	Punjab Mohata Polytax Ltd.	25000 spindles	R : Obtained FC : N.A. CG : N.A. FIC : Finalised	1981	1983	840.50	315.00	525
7	Trinity Textiles Limited	50000 spindles	R : Obtained FC : N.A. CG : N.A. FIC : Finalised	1981	1983	1200	450	750
8	Spinning Mill, Patiala	17000 spindles	Do	1981	1983	600	215	305
9	Spinning Mill, district Sangrur	17000 spindles	Do	1981	1983	600	221	379
10	Spinning Mill, district Hoshiarpur	17000 spindles	Do	1981	1983	600	221	379
11	Quartz Crystal project— Pb. Semi-conductor Device Ltd.	2.5 million Quartz crystals	LI : Obtained CG : N.A. FIC : N.A.	1981	1983	400	150.00	250.00
12	Expansion Project of Pb. Display Devices Ltd.	2.64 lac Nos. p.a.	LI : Obtained FC : N.A. CG : Not yet FIC : N.A.	1981	1982	115.00	30.00	66.00
13	Furfural ..	3000 T.P.A.	LI : Obtained FC : Finalised CG : Appln. filed FIC : Finalised	1982	1984	300.00	120.00	180.00
14	Punjab Poly-Fibres Ltd.	15000 T.P.A.	LI : Obtained FC : Finalised CG : Not yet FIC : N.A.	1982	1985	4500	1125	3375
15	Industrial chains ..	1 M/metres	LI : Obtained FC : Not yet CG : Not yet FIC : Finalised	1982	1983	350.00	120.00	230.00

—1982-83

MENT CORPORATION LIMITED

to be undertaken

Annexure II

(Rs. in lakhs)

If Joint Sector		Equity capital contribution by Govt				Employment details	
Name of collaborator	Extent of participation	Equity to be provided by Govt. (PSIDC)	1980-81	1981-82	1982-83	During construction	During operation
10	11	12	13	14	15	16	17
Public sector	N.A.	401.80	31.00	270.80	100	200	400
Do	N.A.	495.00	109.05	290.75	95	300	600
M/s Abrol Engg. Co.	50%	7.50	1.01	..	1.00	75	150
Public sector	N.A.	92.50	4.00	60.00	28.50	100	180
M/s Pure Drinks Ltd.	25%	28.00	8.26	..	5.00	150	250
Mohta Industries Limited	25%	87.00	..	1.00	5.00	500	1000
M/s Oriental Carpet Manufacturers Limited	25%	43.50	..	..	5.00	1000	2000
Shri Adash Partap Singh Kairon	10%	21.00	..	..	5.00	300	650
Shri Anil Handa	25%	54.00	..	..	5.00	300	650
Shri B. D. Dagrodia	25%	54.00	..	..	5.00	300	650
Public sector	N.A.	150.00	..	..	25.00	150	300
Public sector	N.A.	60.00	..	5.00	25.00	60	136
M.C.L. Anand	25%	30.00	..	..	5.00	1500	3000
Public sector	..	..	..	100.00	100.00	300	500
R.K. Baboo	10%	12.00	..	..	12.00	150	250

ANNUAL PLAN
PUNJAB STATE INDUSTRIAL DEVELOP
Projects undertaken/

Serial No.	Name of the company/ projects	Annual capacity	Status of the project	Date of start	Expected year of completion	Latest cost estimates		
						Total cost	Equity	Debt
1	2	3	4	5	6	7	8	9
16	Nylon—6 Filament Yarn	2100 T.P.A.	LI : Obtained FC : Obtained CG : Applied for FIC : To be decided	1982	1985	2200	735	1465
17	Textile machinery	(a) Cards—300 Nos. (b) Ring frames—500 (c) Blow room—15 lines (d) Draw frames—100 Nos. (e) Speed frames—100 Nos. (f) Doubling frames—200 Nos. (g) Lab. winders—10 Nos. (h) Combers—40 Nos.	LI : Obtained FC : Not yet CG : Not yet FIC : Being finalised	1982	1984	6500	1625	4875
18	Bearings	5.6 million Nos. of various types of bearings	LI : Obtained FC : Being finalised CG : Not yet FIC : Finalised	1982	1984	2000	667	1333
19	Open end spinning machines	100 Nos.	LI : Obtained FC : Inquiry floated CG : Not yet FIC : Finalised	1982	1984	1500	485	1000
20	Fuel Injection equipment	MCP—60000 units SCP—1 lac units Nozels 2.50 lac Element/delivery valves : 30000 sets	LI : Obtained FC : Not yet CG : Not yet FIC : Proposals Invited	1982	1984	1500	500	1000
21	Copper foils/copper clad laminates	CF—600 tonnes CCL—2400 tonnes	LI : Obtained FC : Not yet CG : Not yet FIC : Approved	1982	1984	400	133	267
22	Typewriters	35,000 units of various types	LI : Obtained FC : Not yet CG : Not yet FIC : Not yet	1982	1985	450	135	300
23	Cellular Concrete Project (Company yet to be incorporated)	150000 cubic metre reinforced slab & blocks	Under active - implementation	1982	1984	1200	400	800
24	Axle Shafts	5.00 lac Nos.	LI : Obtained FC : Not finalised CG : Applied FIC : Finalised	1981	1983	200	75	125
25	Clutch facings	32 lac nos. p.a.	LI : Obtained FC : Finalised CG : To be finalised FIC : Not finalised	1982	1983	192	70	122

- 1982-83

MENT CORPORATION LIMITED

to be undertaken

Annexure- II
(Rs. in lakhs)

Name of collaborator	If joint sector	Extent of participation	Equity to be provided by Govt. (PSIDC)	Equity capital contribution by Govt.			Employment details	
				1980-81	1981-82	1982-83	During construction	During operation
10	11	12	13	14	15	16	17	
Not decided		25%	191.00	—	—	15.00	250	500
Not finalised		10%	161.00	—	—	20.00	150	1000
Guest Keew Williams Ltd., Calcutta		10%	65.20	—	—	15.00	100	800
Machinery Mfrs. Corpn. Ltd., Calcutta		10%	48.50	—	—	20.00	125	1125
Not finalised		10%	50.00	—	—	5.00	150	1350
M/s Tech-Invest (India) Ltd., N. Delhi		10%	11.80	—	—	10.00	100	1000
Not finalised		10%	13.50	—	—	5.00	150	500
Public sector		51%	204.00	—	—	20.00	65.00	200
M/s G.N.A. Enterprises		26%	30.00	—	—	17.50	18	350
M/s XLO India Ltd.		10%	7.00	—	—	7.00	100	150

ANNUAL PLAN
PUNJAB STATE INDUSTRIAL DEVELOPMENT
Projects Undertaken

Serial No.	Name of the Company/ Project	Annual Capacity	Status of the project	Date of start	Expected date of completion	Latest Cost Estimates		
						Total Cost	Equity	Debt
1	2	3	4	5	6	7	8	9
26	Woollen Yarn, Amritsar	1200 Metrs.	R : Obtained FC : N.A. CG : N.A. FIC : Finalised	1982	1984	100	37.00	63
27	Basic drugs (Caffein, Theopylline, Aminophylline, Phenloutazone & Oxyphenyl butazone, Proclan Hydrochloride)	..	R : Obtained FC : Not yet CG : Not yet FIC : Not yet	1982	1984	500	200	300
28	Drug complex (Land Development)	..						
29	Sewing machine needles	..	LI : Obtained FC: Finalised CG: Applied for FIC: Finalised	1982	1984	460.00	150.00	310.00
30	GLS Lamps & Flourescent tube lights	60 million Nos. 5 million Nos.	LI : Obtained FC : Being approved CG : Not yet FC : Finalised	1982	1984	3685.75	1100.00	2 685.75
31	Tele-communication Cable Project	1 million CKM	LI : Obtained FC : Being finalised CG : Not yet FIC : Being finalised	1982	1985	1600.00	550.00	1050.00
32	Writing/Printing paper, Hoshiarpur	33,000 tonnes/annum	LI : Not yet FC : Not yet CG : Not yet FIC : Not yet	1982-83	1986-87	4425.00	1106.25	3318.75
33	Writing/Printing paper, Sangrur	33,000 tonnes/annum	Do	1982-83	1986-87	4425.00	1106.25	3318.75
34	Sulphuric Acid-cum-Single Superphosphate Project	33,000 TPA Sulphuric acid 66,000 TPA Single Superphosphate	LI : Obtained FC : N.A. FIC : Finalised	1982	1983	450.00	150.00	300.00
35	Benzene Hexa Chloride	3300 TPA	LI : Applied FC : Applied CG : Not yet FIC : Not yet	1982	1984	600.00	200.00	400.00
36	Diamond wheels and tools	75000 Nos. per annum	LI : Obtained FC : Not yet CG : Not yet FIC : Being finalised	1982	1983	150.00	55.00	95.00
37	Hydraulic Brakes	..	LI : Obtained FC : Not yet CG : Not yet FIC : Finalised	1982	1985	360.00	120.00	140.00
38	T.V. Tube Glass shells	1000000 Nos. per annum	LI : Being issued FC : Not yet CG : Not yet FIC : N.A.	1982	1983	1,600.00	400.00	1200.00

1982-83

MENT CORPORATION LIMITED

ANNEXURE-II

be undertaken

(Rs. in lakhs)

If joint sector	Equity Capital Contribution by Govt.				Employment details			
	Name of the collaborator	Extent of participation	Equity to be provided by Govt. (PSIDC)	Upto 1979-80	1980-81	1981-82	During Construction	During Operation
	10	11	12	13	14	15	16	17
M/s SARAVANA BHAVA		10%	3.70	—	—	3.70	—	—
M/s SARAVANA BHAVA M/s Dharangdhara Chemical Works		10%	20.00	—	—	20.00	20	200
						30.00	—	—
Not yet approved		10%	15.00	—	—	15.00	—	—
Punjab Anand Batteries		10%	110.00	—	—	25.00	100	400
Not yet approved		51%	280.50	—	—	50.00	100	500
Not yet selected		10%	66.38	—	—	25.00	200	550
Do		10%	66.38	—	—	25.00	200	550
Rasoi Vanaspati Ltd., Calcutta		10%	13.50	—	6.00	7.50	20	200
—		10%	20.00	—	10.00	10.00	20	100
Not yet decided		10%	4.00	—	4.00	—	10	150
K.W., Calcutta		10%	12.00	—	—	12.00	—	—
Public sector		N.A.	200.00	—	—	15.00	100	410

ANNUAL PLAN
PUNJAB STATE INDUSTRIAL DEVELOP
Projects Undertaken

Serial No.	Name of the company/ project	Annual capacity	Status of the project	Date of start	Expected year of completion	Latest cost estimates		
						Total cost	Equity	Debt
1	2	3	4	5	6	7	8	9
39	Light commercial vehicles	15000 Nos. per annum	LI : Being issued FC : Not yet CG : Not yet FIC : Not yet	1982	1984	6000.00	1500.00	4500.00
40	Projects under investigation							(High priority gases, Bevel, gears, Tool room, Valves and regulators for HPG/LPG cylinders, Hydro turbines and generators, sheet glass, spark plugs, particle boards, explosives, knitting needles, briquetting from agricultural waste, Acrylic fibre specialised paper, chlorine based projects at Nangal, Calcium gluconate, ferrous gluconate, Ethambutol, sulphamethoxyrol, Analgin, Chloropheneramine maleate and Phiner aminemaleate, Oxytetracyclin, Ephedrine, HCL Trimethoprim, pesticides like Phosphamidon and Monocrotophos, Industrial sewing machines, High pressure gas cylinders, collapsible tubes.
41	Investment in assisted companies							
42	Requirements of funds under IDBI Refinance scheme							
43	Estimated internal cash accruals							

Note :

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

Serial No.	Name of the Project	Annual Capacity	Status of the Project	Date of Start	Expected date of completion	Latest Cost Estimates		
						Total Cost	Equity	Debt
1	2	3	4	5	6	7	8	9
PROJECTS UNDER IMPLEMENTATION								
1. UHF/Microwave Communications								
(a)	Multiplex Equipment	6000 channels	LI : Obtained TC : Finalised (Taken on record) PR : Submitted CG : Cleared PMP : Approved	1-2-81	31-3-82	130.50	60.25	70.25
(b)	UHF/Microwave Multi-channel Radio	100 Nos.	LI : Applied for delicensing by DST because of indigenous technology TC : M.O.U. signed with GECL PR : Not yet	26-5-81	31-3-83	110.00	55.00	55.00
2 Defence Batteries—								
(a)	Nickel Cadmium Batteries for Air Force	1.2 MAH	LI : Obtained PR : Submitted TC : Finalised CG : NA	May, 81	Jan., 83	179.50	66.20	113.30
(b)	Nickel Cadmium Batteries Sealed Cylindrical for Defence	1.3 MAH	LI : Obtained PR : Under preparation TC : Finalised CG : N.A.	Jan., 83	Jan., 84	140.00	53.80	86.20
NEW PROJECTS								
1 X-Ray—								
(a)	High Power X-Ray	25 Nos.	LI : Not yet TC : Under consideration PR : Not yet	1982-83	1985-86	300.00	150.00	150.00
2	Digital Clocks and Watches	2 lacs Nos.	LI : Obtained TC : N.A. PR : Not yet	1982-83	1984-85	60.00	30.00	30.00

*Loan being converted into Equity Capital.

LI : Letter of Intent.
PR—Project Report.
TC—Technical Collaboration.
CG—Capital Goods.
PMP—Phased Manufacturing Programme.

ANNEXURE III-A

ANNUAL PLAN 1982-83

A—Industrial Areas already developed

Serial No.	Location	Area developed	Total cost	No. of plots	Allotted	Factorie s under production
1	2	3	4	5	6	7
1	S.A.S. Nagar	1,198	..	394	394	176
2	Dhandari Kalan	1,383	..	404	404	114
3	Rajpura	178	..	126	113	25
4	Hoshiarpur	102	..	95	76	5
5	Khanna	105	..	183	139	6
6	Moga	108.25	..	202	191	8
7	Kotkapura	52.60	..	128	43	4
8	Bhatinda	91.60	..	131	118	..
9	Nawanshahr	50.70	..	105	24	3
10	Sangrur	58	..	148	65	3
11	Jullundur	105.56	..	44	134	1
12	Batala	104	..	200	181	..
13	Tarn Taran	51.52	..	94	48	..
14	Nabha	52.52	..	128	..	..
15	Amritsar	100	..	..	..	..
Total		3,740.75	..	2,382	1,930	345

ANNEXURE III-B

INDUSTRIAL AREA UNDER DEVELOPMENT/PROPOSED TO BE TAKEN UP DURING THE YEAR 1982-83

Serial No.	Location	Total Programme 1980-85		Date of start	Expected date of completion	Anticipated Programme 1981-82		Programme for 1982-83		
		Land to be developed (area acres)	No. of plots (nos.)			Land acquired (acres)	Land developed (acres)	Land acquired (acres)	Land developed (acres)	Plots to allotted (Nos.)
1	2	3	4	5	6	7	8	9	10	11
1	S.A.S. Nagar ..	1445	880	1967-68	Continuing	1,298	1,245	50	50	80
2	Dhandari Kalan ..	1307	970	1967-68	Do	1,383	1,007	50	50	80
3	Rajpura ..	178	127	1967-68	Completed	178	178	..	..	..
4	Hoshiarpur ..	102	78	1973-74	Do	102	102	..	..	..
5	Khanna ..	106	115	1973-74	Do	106	105	..	..	..
6	Moga ..	208	300	1975-76	Do	108	100	..	..	..
7	Kotkapura ..	53.80	109	1975-76	Do	53.80	53.80	..	..	..
8	Bhatinda ..	191	200	1976-77	Do	91	91	..	..	..
9	Nawanshahr ..	51	100	1976-77	Do	51	51	..	..	..
10	Sangrur ..	60	133	1976-77	Do	60	60	..	..	..
11	Nabha ..	..	..	1976-77	Do	52	..	..	..	..
12	Tarn Taran ..	51	98	1976-77	Do	51	51	..	..	..
13	Jullundur ..	564	750	1976-77	Do	331	231	..	..	..
14	Batala ..	204	300	1975-76	Do	104	104	..	..	..
15	Ahmedgarh ..	70	140	1982-83	Continuing	..	..	70	70	120
16	Amritsar ..	100	200	1981-82	Do	100	50	..	..	..
17	Malerkotla ..	200	200	1982-83	Do	..	..	100	100	150
18	Phagwara ..	100	200	1982-83	Do	..	..	100	100	150
19	Phillaur/Goraya ..	150	200	..	..	..	..	..	..	..
20	Goindwal ..	..	..	1982-83	..	500	500	1,000	1,000	..
Total ..		5,140.80	5,100	..	..	4,568.80	3,928.80	1,370	1,370	580

ANNEXURE IV

Indicators of Small Scale/Large and Medium Industries growth in Punjab 1978-79 to 1980-81

Sr. No.	Description	Units	Year		
			1978-79	1979-80	1980-81 (Provisional)
1	2	3	4	5	6
A. Small Scale Industry.					
1.	Number of Small Scale Working/Units	.. No.	42233	47379	54409
2.	Estimated fixed investment	.. (Rs. Crores)	271.13	340.00	417.18
3.	Employment	.. No.	298,925	349618	387664
4.	Production	.. (Rs. Crores)	751.26	917.73	1073.62
5.	Per Unit fixed investment	.. (Rs. lakhs)	0.64	0.72	0.76
6.	Productivity per employee	.. (Rs. 000)	25.13	26.25	27.69
7.	Production per Unit	.. (Rs. 0(0))	177.88	193.70	197.32
B. Large and Medium Industries.					
1.	Number of Working Units	.. No.	188	203	228
2.	Fixed investment	.. (Rs. Crores)	378.65	629.42	691.82
3.	Employment	.. No.	91,551	97,533	109751
4.	Production	.. (Rs. Crores)	710.85	868.65	1023.14
5.	Per Unit fixed investment	.. (Rs. lakhs)	201.41	310.06	303.42
6.	Productivity per employee	.. (Rs. 000)	77.65	89.06	93.22
7.	Production per Unit	.. (Rs. 000)	37811	42791	44875

Note :—Investment and production figures are at current prices.

CHAPTER IX

TRANSPORT AND TOURISM

In the field of transport and communications, the State Plan is mainly concerned with roads and road transport. There is small provision for Civil Aviation largely for training purposes. Following the established practice, development of tourism has been included in this sector. Plan programme in respect of each of these items are discussed below separately :—

Roads and Bridges :

9.2. The role of road Transport in moving certain types of commodities and its role in carrying the distributional traffic far reaching the interior of the State are some of its important functions which are irreplaceable by any other mode of transport like railway. Thus there is a need for developing additional capacity on the road system for meeting the needs.

9.3. The quantum of traffic on the system both for passenger and freight has shown a steady upward trend. The burnt of increased traffic is borne by the State Highways which constitute the main routes of the roads system in the State. 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 7278 Kms. to 23,222 Kms. during the period from 1969-70 to 1973-74. During 1974—79, a sum of Rs. 54.64 crores was incurred on this programme and during this period total road length in the State increased from 23,222 Kms. to 30,863 Kms. The increase in the length of State Highway was, however, not significant. Main achievements of road Kilo-metreage of different kinds of roads at the end of Fourth Plan and at the end of 1978-79 are as under :

Serial No.	Item	Position as on	
		1973-74	1978-79
1	National Highway	964	964
2	State Highway ..	1862	1900

3	Major District Roads ..	2076	2100
4	Other District Roads	2335	2379
5	Village Roads ..	15985	23520
Total ..		23222	30863

9.4. In the Annual Plan 1979-80, an expenditure of Rs. 15.31 crores was incurred on this programme and during the 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.

9.5. Keeping in view the deficiencies existing on State Highways, District and other roads as on 1st April, 1980, some of the targets proposed during Sixth Plan (1980—85) period are indicated below :—

1. Missing links.
2. Strengthening of existing roads.
3. Construction of Bridges.
4. Construction of Bye-Passes.

In this sector, the most important programme is for the construction of rural roads under RMNP which envisages provision of all weather link roads for villages with a population 1500 and above. The removal of deficiencies in the State highway system and upgrading some selected stretches of roads taking into account the projected traffic would be one of the major policy thrusts during 1980—85.

9.6. In the Annual Plan 1980-81, an expenditure of Rs. 15.31 crore was incurred on this programme and during this period 596 Kms. of link roads were constructed. The number of villages not connected by roads which stood at 364 villages as on 31st March, 1980 was reduced to

191 as on 31st March, 1981 by connecting 173 villages during 1980-81. Besides 400 Kms. of road length were improved against a target of 375 Kms. During this period construction work was remained in progress on 45 bridges out of which 14 bridges were completed. However, there was shortfall in expenditure on the construction of bye-passes which was attributed to dispute in alignments. An outlay of Rs. 13.00 crores has been provided for 1981-82. Significant provision of Rs. 4.00 crores has been made for the improvement of existing roads and Rs. 4.10 crores has been allocated for village link roads for carrying out this programme. The total expenditure incurred upto 30th September, 1981 is Rs. 6.58 crores which comes to 51 per cent of the total outlay.

Annual Plan 1982-83 :

9.7. An outlay of Rs. 9.00 crores has been provided. The main programme/schemes under this sub-head proposed to be implemented are as under .—

Main Roads and Missing links :

9.8. The construction work of main roads in order to provide missing links taken up during Fourth Plan is nearing completion. The spill-over requirements as on 1st April 1981 was Rs. 91.00 lakhs. A sum of Rs. 30.00 lakhs is provided during 1982-83. A provision of Rs. 50.00 lakhs was made during 1981-82 for this purpose against an expenditure of Rs. 29.06 lakhs during 1980-81.

Improvement and Widening and providing additional crust on existing roads :

9.9. Keeping in view the sharp increase in the traffic on the road system both for passenger and freight, high priority has been accorded to the improvement of existing roads. 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. 1.00 crores has been provided during 1982-83 for this purpose. A sum of Rs. 4.00 crores was provided during 1981-82.

Village roads :

9.10. As on 1st April, 1981, 191 villages (including 75 Bechirag) were left unlinked with roads. The total spill over requirements of first links for surfacing of roads already metalled and to provide

links to remaining villages wherever possible as on 1st April, 1981 were worked out to Rs. 10.43 crores. A sum of Rs. 4.10 crores has been provided during current year. A provision of Rs. 4.07 crores is, made during 1982-83 for the following programme.

- (i) Construction of Spill over works pertaining to first links.
- (ii) Construction of village roads for providing missing links.
- (iii) Improvement of Zila Prishad roads taken over by State Government.

Bridges :

9.11. Most of the roads constructed in the State are fair weather roads. To make these roads all weather it is imperative to bridge the missing gaps. A sum of Rs. 2.50 crores has been provided during 1982-83 and out of which Rs. 1.00 crore is provided for bridge to be constructed on river Sultej near Anandpur Sahib and balance amount will be utilized for on-going-works.

Central Road Fund :

9.12. 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. 40.00 lakhs is, therefore, provided for 1982-83 for carrying out the programme.

Improvement of Roads within Municipal Committee Limits :

9.13. The stretches of main roads passing through the Municipal limits need widening and improvement. Under this scheme such stretches are being widened/improved in Amritsar Ludhiana, Jullundur, Patiala, Bhatinda, Abohar, Moga and Faridkot. The total spill-over requirements for these on-going works have been worked out to Rs. 2.50 crores. As such a sum of Rs. 45.00 lakhs is proposed for carrying out the on-going works.

Machinery and Equipment :

9.14. In order to cope with the enlarged road building activities and consequent maintenance programme, a sum of Rs. 8.00 lakhs is provided for 1982-83. A provision of Rs. 50.00

lakhs was made during 1981-82. for the purchase of machinery and equipment to be used in the road construction activity against which an expenditure of Rs. 33.14 lakhs is likely to be incurred.

By-passes :

9.15. The growth of internal traffic in a number of towns has created traffic hazard. In order that traffic flow smoothly and un-interruptedly and in order that the growing incidents of accidents is curbed, bye-passes are being provided. A sum of Rs. 3.00 crores approximately is needed for completing the bye-pass works included in the Plan. Against this requirement a sum of Rs. 20.00 lakhs is provided for 1982-83.

ROAD TRANSPORT

9.16. Road Transport has been playing an important role in the economy of the State. Over the years there has been increase in the share of road transport in the total traffic both for passengers and goods traffic. The goods transport is almost entirely in the private sector. The passenger transport is shared between the 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. Unfortunately both the undertakings are at present showing losses. The main factor responsible for this has been the rising prices of inputs used in the road transport industry without matching increase in fares. Efforts will be made to bring down the cost of operation through appropriate administrative measures and improvement in utilization indices with better workshop facilities, timely replacement of overaged buses, route rationalisation and improved scheduling etc. Their urgent requirements include construction of additional depots so as to maintain the norm of 100 buses per depot. The outlays approved for 1980-85 and 1982-83 for two undertakings are given below:—

(Rs in lakhs)

Scheme	Outlay	
	1980-85	Proposed outlay 1982-83
1. Punjab Roadways	2,975.00	456.00
2. P.R.T.C.	1,025.00	305.00
Total	4,000.00	761.00

The Punjab Roadways, being a departmental undertaking, has no access to institutional finance.

Its financial requirements have to be met entirely from the State Plan. The P.R.T.C., besides the plan provision, will have the contribution of the Railway and the funds expected to be made available by the financial institutions.

Punjab Roadways :

9.17. During 1974-79, an expenditure of Rs 2,037.04 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. An outlay of Rs 495.00 lakhs was approved for 1980-81 which was subsequently revised upward to Rs 1,490.00 lakhs in order to purchase more buses and to strengthen the workshops. Out of this provision actual expenditure of Rs 1,482.00 lakhs was incurred. The Punjab Roadways during 1980-81 purchased 672 buses and out of this 513 buses were put under replacement. In addition 140 buses were renovated by refabrication of bus bodies. Accordingly fleet strength of Punjab Roadways increased to 2,351 on 31st March, 1981. Machinery worth Rs 27.64 lakhs was purchased in order to equip the workshops of Punjab Roadways with the installation of modern machinery. During 1981-82 an outlay of Rs 495.00 lakhs has been approved. It has been proposed to add 100 buses to its fleet in addition to replacement of 130 buses.

9.18. A provision of Rs 456.00 lakhs has been made for 1982-83. The proposed outlays for the implementation of village development programme are given below:—

(Rs in lakhs)

Serial No.	Item	1982-83
1.	Land & Building	141.00
2.	Acquisition of fleet—	
	(a) Addition	—
	(b) Replacement	312.00
3.	Workshop facilities	2.00
4.	Other expenditure	1.00
	Total	456.00

As a result of the above development programme the Punjab Roadways will replace 130 buses during 1982-83 and operate 5,06,310 route kilometreage daily during 1982-83. Under item 'Land and Building', the provision of Rs 141.00 lakhs, has been provided to complete the spill-over works and for the improvement/construction of depots.

Pepsu Road Transport Corporation (PRTC)

9.19. During 1974-79, the Corporation had spent an amount of Rs 803.49 lakhs. Out of this the State Government contributed a share capital of Rs 392.00 lakhs. The total number of buses 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. During 1980-81, the Corporation had incurred an expenditure of Rs 805.38 lakhs which included a share capital contribution of Rs 305.00 lakhs by State Government. During this year, the Corporation purchased 288 buses. The fleet strength of the Corporation as on 31st March, 1981 was raised to 930 from 898 as on 31st March, 1979. The Corporation had operated 230837 Kilometres daily in March, 1981 with a fleet strength of 930 buses. The Corporation has a total Plan of Rs 1029.90 lakhs for 1981-82 for implementing its programmes. The financing pattern of the corporation is as under:—

(Rs in lakhs)

Sr. No.	Source	1982-83
1.	State Government's contribution	305.00
2.	N. Railways contribution	152.50
3.	Institutional Finance	572.40
	Total	1,029.90

The Corporation will add 89 buses to its fleet and replace 274 buses during the year.

9.20. The PRTC has a development programme of Rs 830.00 lakhs for 1982-83 for implementing its programme. The share of State Government and Central Government is in the ratio of 2:1. The sources of finance for 1982-83 is given as under:

Serial No.	Source	1982-83
1.	State Government Contribution..	305.00 lakhs
2.	N. Railway's Contribution ..	152.50 ..
3.	Institutional Finance ..	372.50 ..
		830.00

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

(Rs in lakhs)

Sr. No.	Item	Outlay 1982-83
1.	Acquisition of Fleet	
	(i) Expansion ..	389.80
	(ii) Replacement ..	265.20
2.	Workshop facilities ..	10.00
3.	Others ..	5.00
4.	Land & Buildings ..	60.00
5.	Repayment of interest to the State Government ..	100.00
	Total ..	830.00

As a result of this development programme, the Corporation will add 149 buses (including backlog of 67 buses) to its fleet besides replacement of 101 buses. The Corporation proposes to operate 3,33,587 route kilometreage daily during 1982-83.

CIVIL AVIATION

9.22. 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 a private Club but under the control of the Government. 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 provide facilities for gliding training. Gliding centres are working at all the Aviation Clubs.

9.23. During 1974-75 a sum of Rs 61.49 lakhs was incurred on this programme. In 1979-80, an expenditure of Rs 13.07 lakhs was incurred. During this period machinery and equipment worth Rs 11.38 lakhs were purchased in order to impart advanced training to pilots. During 1980-81, an expenditure of Rs 29.50 lakhs was incurred which included an expenditure of Rs 19.00 lakhs on machinery. An outlay of Rs 14.00 lakhs has been approved for 1981-82. A sum of Rs 14.00 lakhs has been proposed for 1982-83 for implementing the following programmes.

(i) Provision for Aircraft Maintenance Engineering School:—

The school has already been set up at Patiala and at present 25 students are under training. An amount of Rs 5.00 lakhs has been provided for meeting the staff expenditure as well as for training aids to be used for the scheme.

(ii) Provision for Simulator Training:—

The department had purchased two ground simulators for providing training for the instrument rating. Simulators have been functioning and 25—30

students are taking training. Rs 2.00 lakhs has been provided for 1982-83 for meeting the expenditure on staff and other contingencies against the same provision during the current year.

(iii) Machinery and equipment

A sum of Rs 7.00 lakhs has been provided for following items:—

(i) Replacement of engine and equipment of 16 aircrafts	2.00 lakhs
(ii) Purchase of avionics and test equipments	4.00 „
(iii) Provision to defray balance payment of custom duty ..	1.00 „
	<hr/>
	7.00 „
	<hr/>

TOURISM

9.24. The Punjab State Tourism Development Corporation was set up on 26th March, 1979 with an authorised capital of Rs 5.00 crores. Rs 50.00 lakhs was provided by way of share capital contribution to the Corporation during 1978-79 besides the transfer of existing assets tentatively valued at Rs 1.50 crores. An amount of Rs 90.00 lakhs had also been released during 1979-80 and 1980-81 by way of share capital to the Corporation. A provision of Rs 45.00 lakhs has been made for this purpose during 1981-82. In the Annual Plan 1982-83, share capital contribution of Rs 25.00 lakhs is provided. It is hoped that by mobilizing 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 X

Education

An outlay of Rs. 9.35 crores has been provided for the year 1982-83 against the provision of Rs. 9.33 crores during the current year under the sub-head of development 'General Education'. The distribution of this outlay on major programme is as under:—

Name of the Programme	(Rs. in lakhs)	
	Approved 1981-82	Outlay 1982-83
1. Primary Education ..	120.00	114.40
2. Middle/High/Higher Secondary Education	576.50	660.35
3. College & University Education	148.00	79.25
4. Languages ..	18.35	17.00
5. Sports ..	35.00	34.00
6. Youth Services ..	14.65	12.00
7. Archives ..	0.50	1.00
8. Archaeology & Museum	13.00	11.00
9. Promotion of Art & Culture	5.00	4.00
10. Setting up International Children Home at Chhatbir Complex	2.00	2.00
Total ..	933.00	935.00

10.2. The proposed outlay is considered adequate to carry on the existing level of activities. No provision has been made for setting up new Colleges and upgradation of Schools during 1982-83.

10.3. During the year 1982-83, main stress will be on (i) maintenance of existing educational facilities at the Elementary, Secondary and University

level; (ii) Non-Formal Education; (iii) Adult Education and (iv) Improvement of quality Education through the recommendations of the SCERT.

opening of single teacher schools

10.4. As a result of the vigorous campaign to enrol 100% children in the age-group 6-11 in Primary schools, each revenue village in the State was provided with a primary school by the end of the year 1977-78. Thereafter, with the emergence of new habitations/colonies/townships in different towns and cities under housing development schemes, further provision of primary school facilities at these places became necessary. Therefore, 20 single teacher schools were opened during the year 1979-80 and 1980-81. During the year 1981-82 and 1982-83 no provision for opening such schools has been proposed. In order to meet the expenses involved on account of continued portion for the 20 single teacher primary schools opened during the year 1979-80 and 1980-81, a sum of Rs 2.00 lacs has been provided in the Annual Plan, 1982-83.

Improvement of Primary Schools :

10.5. There are no arrangements in the primary schools for sweeping and cleaning the class rooms and the school campuses. This work is being done by the school children to which their parents strongly object. Besides, the children who sweep the rooms get smeared with dirt, immediately after their arrival in the schools. To provide service for cleaning the school, 200 posts of part-time sweepers were sanctioned during the year 1980-81 and continued during the year 1981-82. It is now proposed to continue the existing scheme during the year 1982-83 at an estimated cost of Rs. 2.20 lacs.

Lavatories and Drinking Water Facilities

10.6. Drinking water facilities and lavatory services are not available in a large number of primary schools. These facilities were provided in 154 schools during the year 1979-80, in 80 schools during the year 1980-81, and in 32 schools during 1981-82. It is now proposed to set apart a sum of Rs. 0.80 lakh for this purpose during the year 1982-83

for providing these facilities in 32 more primary schools.

Library Services

10.7. Library Service is very essential for educational development, but most of the primary schools lack this facility. A programme to introduce library service in primary schools in a phased manner was introduced in the year 1979-80, by opening 50 libraries, 80 more libraries were opened during the year 1981-82. The Scheme has continued during the year 1981-82. It is now proposed to continue the existing scheme during 1982-83 at a total estimated cost of Rs 0.40 lac.

Non-formal Education Programme—Part-time Classes (6—11 age-group)

10.8. There are 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 of this age-group who are unable to attend regular classes due to social and economic reasons, 250 non-formal part-time education centres were opened during the year 1979-80. The scheme was continued during the years 1980-81 and 1981-82. An outlay of Rs 2.50 lakhs has been provided for the existing centres during 1982-83.

Construction of School Buildings/Class Rooms

10.9. In order to complete the spill-over works as also to construct buildings for 400 primary schools out of total of 2,451 primary schools without buildings, a sum of Rs 110.00 lakhs was provided during 1980-81. Similarly, sum of Rs. 100.00 lakhs was provided in the Annual Plan, 1981-82 for the construction of 400 more primary schools buildings. A sum of Rs 100.00 lacs has been provided for the construction of 400 more such buildings during the year 1982-83.

In-service Training of JBT Teachers

10.10. Seminars/in-service training courses are conducted at the in-service training centres/training institutions, in order to equip and acquaint the teachers with the latest techniques in educational methodology. It is proposed to set apart a sum of Rs 0.50 lac for this purpose in 1982-83. 6,000 more teachers will receive training under this scheme.

Middle Schools Education

10.11. During 1981-82, a provision of Rs. 77.26 lakhs has been made for the continuance of

146 schools upgraded during 1979-80 and 1980-81. There is a programme to upgrade 60 more new primary schools to middle standard during the 1981-82 year. A sum of Rs 128.24 lakhs has been provided in the Annual Plan, 1982-83, for these upgraded schools.

10.12. In the Annual Plan, 1982-83, a sum of Rs 256.61 lakhs has been provided mainly for the maintenance and improvement of the infrastructure created during the previous years. A sum of Rs 0.77 lakh has been proposed as the State share for the Centrally-sponsored Scheme "Integrated Education" for the physically handicapped children.

Secondary Education

10.13. A sum of Rs. 352.71 lakhs has been provided in the Annual Plan, 1982-83, mainly for the continuance of the staff appointed during 1979-80, 1980-81 and 1981-82. This outlay includes a sum of Rs. 276.15 lakhs for the continuance of 100 middle school, upgraded during 1979-80, 190 middle schools upgraded during 1980-81 and 90 middle schools upgraded during 1981-82.

Teachers Education

10.14. A sum of Rs. 8.00 lakhs has been provided for in-service training of teachers. This amount is required for the payment of T.A./D.A. to teachers for attending seminars/refresher courses.

SCERT

10.15. SCERT has been established during the year 1981-82. A provision of Rs. 3.00 lakhs has been provided in 1982-83 for the maintenance of staff appointed during 1981-82. This institution will undertake educational research and training for the development of school education in the State.

Adult Education

10.16. Under the National Adult Education Programme, special priority has been given to the education of people in the age-group of 15—35 years. Keeping in view, a sum of Rs. 8.40 lakhs has been provided in 1982-83.

Physical Education, Games and Sports

10.17. For encouraging games and sports in the schools, a sum of Rs. 25.16 lakhs has been provided in the Annual Plan, 1982-83. Out of this provision, a sum of Rs. 20.60 lakhs has been provided for the continuation of posts of DPRs created

during 1979-80. Another sum of Rs. 4.56 lakhs is meant for sports wings already attached to the selected schools in the State.

Establishment of International Children Home at Chhat Bir

10.18 It has been decided to establish and develop children home at Chhat Bir. The land was purchased during 1980-81 and the construction of the building is to start during the year 1981-82 for which a provision of Rs. 2.00 lakhs exists. A further sum of Rs. 2.00 lakhs has been provided for this purpose in 1982-83.

College and University Education

10.19. A sum of Rs. 79.25 lakhs has been provided to continue the existing programmes and for the completion of the on-going works.

Grant-in-aid to Universities

10.20. A sum of Rs. 10.00 lakhs has been provided in the Annual Plan 1982-83 for the payment of grant-in-aid to Guru Nanak Dev University and Panjabi University, Patiala on account of development grant for the construction of buildings.

Expansion of facilities

10.21 Under this programme a provision of Rs. 10.04 lakhs has been made in the Annual Plan 1982-83 for the sports wing started during 1980-81. This provision also includes a sum of Rs. 5.00 lakhs for completion of the on-going works.

Improvement of existing College

10.22. A sum of Rs. 32.00 lakhs has been provided in the Annual Plan 1982-83, against the outlay of Rs. 39.00 lakhs in 1981-82 for the improvement of existing colleges.

Development of college education under U.G.C. sharing scheme

10.23. A sum of Rs. 5.00 lakhs has been provided for 1982-83 against the outlay of Rs. 2.00 lakhs in 1981-82.

Opening of careers wings in Government Colleges

10.24. This is a new scheme being introduced from 1981-82, under this scheme it is proposed to provide proper coaching to talented students to enable them to sit for different competitive examinations. A sum of Rs. 6.17 lakhs has been provided to continue the staff sanctioned during 1981-82.

Students Welfare

10.25. A sum of Rs. 3.75 lakhs has been provided in the Annual Plan 1982-83 against the outlay of Rs. 3.75 lakhs in 1981-82 for providing amenities for students welfare. For State merit scholarships, a sum of Rs. 5.26 lakhs has been provided in 1982-83.

Establishment and strengthening of District Libraries

10.26. A sum of Rs. 6.03 lakhs with a capital component of Rs. 2.00 lakhs has been provided in the Annual Plan 1982-83 for the completion of on-going works and the staff sanctioned during 1980-81 and 1981-82.

Other Programmes

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

Development of Languages

10.28. A provision of Rs. 17.00 lakhs has been made in the Annual Plan 1982-83 against the outlay of Rs. 18.35 lakhs in 1981-82. 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.

The entire expenditure on administration of the Punjab University Text Book Board is met by the State. For this purpose a sum of Rs. 7.21 lakhs has been provided in the Annual Plan 1982-83 against the outlay of Rs. 6.04 lakhs in 1981-82.

N.S.S. and Youth Services

10.29. 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. 9.17 lakhs has been provided in the Annual Plan 1982-83 as the State share against the outlay of Rs. 8.75 lakhs for 1981-82.

10.30 Director, Youth Services has several other programmes which are detailed below :—

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

For these programmes a sum of Rs. 2.83 lakhs has been earmarked in 1982-83.

Sports

10.31. Punjab is a leading State in the matter of sports. A sum of Rs 34.00 lakhs has been provided for 1982-83. The 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

10.32. A sum of Rs. 1.00 lakh has been provided in the Annual Plan 1982-83. 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 token provision of Rs. 0.50 lakh has been provided for setting up offices at divisional level.

Archaeology and Museum

10.33. An outlay of Rs 11.00 lakhs has been provided for 1982-83 against the approved outlay of Rs. 13.00 lakhs for 1981-82. The programme includes (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, Development of State Archaeological Library, (v) Publication of Archaeological Reports, (vi) Landscaping/Beautification around monuments, (viii) Strengthening of Archaeological and Museums Department, (ix) Equipment and Machinery, (x) Cannon Park Shed, (xi) Transplantation of Paintings, (xii) Setting up an Archaeological Laboratory.

Promotion of Art and Culture

10.34. A sum of Rs. 4.00 lakhs has been provided in the Annual Plan 1982-83 for the promotion of Art and Culture in the State.

TECHNICAL EDUCATION

Trained technical manpower is the basic need for the industrial development in the State. For this purpose an outlay of Rs 60.00 lakhs has been provided for 1982-83 for the programme of engineering colleges, polytechnics, special trade diploma level institutes and also to develop the existing institutions and to provide the amenities to students.

Direction and Administration

An outlay of Rs. 2.00 lakhs is provided for the continuation of the staff appointed for strengthening the headquarters.

Engineering Colleges

State has two engineering colleges. The funds to the tune of Rs. 10.00 lakhs have been provided during 1982-83 for the continuation of the diversified courses and introduction of new courses. Of this outlay a sum of Rs. 7.50 lakhs is provided as contribution to the Development Fund of the Guru Nanak Engineering College, Ludhiana. This contribution is for strengthening the financial position of the institution.

The two engineering colleges functioning in the State are being privately run. To meet the requirement of other districts, it has been decided to set up another engineering college by the State Government. An outlay of Rs. 14.50 lakh has been provided for initiating steps to set up this college during 1982-83. An Institute of Entrepreneurial Development and Management is to be set up in the State. For this purpose a taken provision of Rs. 0.40 lakh has been made in 1982-83.

Polytechnics

A new polytechnic at Bhatinda is being set up. For the construction of the building of this institute, and to appoint staff an outlay of Rs. 20.00 lakhs has been provided for the year 1982-83. A sum of Rs. 2.00 lakhs is set aside for the existing Government Polytechnics for introduction of new courses etc.

For strengthening the private polytechnics an outlay of Rs. 1.60 lakhs has been earmarked for the year 1982-83. With this outlay new courses will be introduced.

Special Trade Diploma Institutes

Five Special Trade Diploma Level Institutes are being run in the State to train the middle level technical personnel in the trades of electronics, interior decoration, textile technology, textile chemistry and knitting and garment etc. An outlay of Rs. 5.00 lakh has been provided for 1982-83 to strengthen these institutes by providing new trades, buildings, machinery, equipment etc.

Other Programmes

To modernise and strengthen the machinery and equipment in the polytechnics an outlay of Rs. 2.40 lakhs has been provided for the year 1982-83. An outlay of Rs. 2.10 lakhs has been provided under the continuing schemes relating to the purchase of teaching aids, scholarships, development of libraries and campus of the engineering colleges/polytechnics and also for providing amenities to students.

CHAPTER XI

Public Health and Sanitation

The table below shows the level of achievements up to 1980-81 in the matter of provision of health facilities in the State :—

Serial No.	Category	Unit	Up to 1980-81	Proposed during 1981-82
1	Primary Health Centres	No.	129	1
2	Subsidiary Health Centres	No.	1296	200
3	25 bedded block level Rural Hospitals	No.	111	—
4	Dental Clinics at Block level	No.	98	10
5	Sub-Centres	No.	2593	9
6	Dispensaries in Urban Slum Areas	No.	149	5
7	I.S.M. Dispensaries	No.	492	10
8	Homocopathic Dispensaries	No.	28	8

11.2. The strategy in this sector is to lay stress on the improvement in the quality of health services rather than on expansion of health facilities. For 1982-83 an outlay of Rs. 9.00 crores has been provided for Medical Education, Health, I.S.M. and Homocopathy against the plan provision of Rs. 9.00 crores in 1981-82. Sectorwise details of the expenditure and proposed outlay is given below :—

(Rs. in lakhs)

Sector	1980-81 Actual Expenditure	Approved outlay	
		1981-82	1982-83
1. Medical Education and Research	359.92	275.00	180.00
2. Public Health	434.81	590.00	690.00
3. I.S.M.	21.42	28.00	23.00
4. Homocopathy	—	7.00	7.00
Total	816.15	900.00	900.00

Medical Education and Research

11.3. There are five medical colleges in the State of which three are State owned, one each at Amritsar, Patiala and Faridkot and two Private Medical Colleges, located at Ludhiana. Medical College, Faridkot was taken over by the Government in 1977-78. Sixty students were admitted in this college in 1976 for the first time. Admission was, however, stopped in 1977 pending provision of adequate physical facilities and staff according to the norms of Medical Council of India. In 1979-80, admission was resumed as all the facilities had been provided according to the norms. The annual in-take of the State medical colleges is 150 each except the Medical College, Faridkot, where the in-take is 60 and that of the two private medical colleges at Ludhiana is 50 each. The annual out-turn of medical graduates is about 450 with the resumed admission to Guru Gobind Singh Medical College, Faridkot. This out-turn is sufficient for the requirements of public services as well as of the private sector. There is a State Dental College at Amritsar for Graduates and Post-Graduates training of Dental Surgeons and a Dental Wing is attached to the Medical College, Patiala.

11.4. Besides the graduate courses, three colleges run degree and diploma post-graduate courses, refresher courses for in-service doctors and also para-medical training courses for Pharmacists, Laboratory Technicians, Radiographers and Nurses.

11.5. The in-take of Medical/Dental Graduates in different colleges is given below :—

Medical College	Graduates	Post-Graduates including M.D. and M.S.
1	2	3
Medical College, Amritsar	150	74
Medical College, Patiala	150	99

1	2	3
Christian Medical College, Ludhiana ..	50	—
Daya Nand Medical College, Ludhiana ..	50	—
Guru Gobind Singh Medical College, Faridkot ..	60	—
Total ..	460	173
Dental College :		
Dental College, Amritsar ..	30	5
Dental Wing, Medical College, Patiala ..	20	—
Total ..	50	5

11-6. The proposals for the Annual Plan 1982-83, have been formulated with the following objectives in view :—

- (i) completion of on-going works ;
- (ii) construction of college campus in Guru Gobind Singh Medical College, Faridkot ;
- (iii) encouragement to research activities in medical colleges.

11-7. Major programmes in the field of Medical Education and Research are as under :—

Medical Education and Research :

11-8. An outlay of Rs. 180.00 lakhs has been provided for the year 1982-83. This outlay would be barely sufficient to maintain the existing programmes.

MEDICAL COLLEGES :

(i) Medical College, Faridkot :

11-9. An outlay of Rs. 58.00 lakhs has been provided in the Annual Plan 1981-82. This outlay is for the continuance of the staff posted during

1979-80 and 1980-81 and to meet the spill-over requirements of construction works of OPD, Boys and Girls Hostel, Animal House and Mortuary Blocks.

(ii) Medical College, Amritsar :

11-10. An outlay of Rs. 15.00 lakhs has been provided for the year 1982-83 against the approved outlay of Rs. 14.00 lakhs for the year 1981-82. The outlay has been earmarked for meeting the requirements of the following works and for the staff sanctioned earlier :—

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

(ii) for the continuance of the posts sanctioned during 1979-80 and 1980-81.

(iii) Medical College, Patiala :

11-11. An outlay of Rs. 12.00 lakhs has been provided for the year 1982-83 against the approved outlay of Rs. 14.00 lakhs for the year 1981-82. The provision is for the continuance of the posts sanctioned during 1980-81.

Expansion and Improvement of Dental College/Wing :

11-12. An outlay of Rs. 5.00 lakhs has been provided for 1982-83 against the provision of Rs. 5.00 lakhs in 1981-82 for the improvement of Dental College, Amritsar. The funds provided are mainly for the staff sanctioned during 1980-81. Proposed outlay for 1982-83 is Rs. 2.00 lakhs for the Dental Wing of Medical College, Patiala. The proposed outlay is for the continuance of the staff sanctioned during 1980-81.

Training facilities for para-medical staff :

11-13. The out-turn of para-medical staff such as nurses, pharmacists and radiographers, etc. is far short of the State's requirements. In order to cope with the requirement the number of seats in all such training classes is being increased. For this purpose a provision of Rs. 3.00 lakhs has been provided in the Annual Plan 1982-83 against the approved outlay of Rs. 5.00 lakhs for 1981-82.

Improvement and Expansion of the Teaching Hospitals

11-14. Sufficient provision has been proposed for improvement and expansion of the hospitals attached to the Medical Colleges. For S.G.T.B. Hospital, Amritsar, a provision of Rs. 33.00 lakhs in 1982-83 has been earmarked against the outlay of

Rs. 39.00 lakhs for 1981-82. The provision is for (i) spill-over liability of the ongoing works, and (ii) for the staff sanctioned in 1980-81.

11-15. A provision of Rs. 35.00 lakhs has been provided in the Annual Plan 1982-83 for Rajindra Hospital, Patiala. The provision is for spill-over liability of the on going works and the staff already sanctioned.

11-16. Outlays of Rs. 2.00 lakhs and Rs. 1.75 lakhs have been earmarked for T.B. Sanitorium, Amritsar and T.B. Centre, Patiala respectively for the year 1982-83 for continuance of the staff sanctioned during 1979-80.

Reorientation of Medical Education :

11-17. It is a Centrally Sponsored Scheme. This scheme was first taken up in 1979-80. The Government of India provides one time assistance to the three medical colleges for attaching a development blocks for training students in community medicines. 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. 10.00 lakhs has been provided for the year 1982-83.

PUBLIC HEALTH :

11-18. 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. 590.00 lakhs has been provided for the year, 1981-82 and an outlay of Rs. 690.00 lakhs has been provided for the year 1982-83.

Rural Health Services :

11-19. 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 of providing one such dispensary per 1000 rural population has already been achieved. So far, 1296 subsidiary health centres have been established. Another 200 such centres will be established

during 1981-82. An outlay of Rs. 325.00 lakhs has been provided for the year 1982-83 against the provision of Rs. 222.60 lakhs for the year 1981-82 for the subsidiary health centres opened during 1979-80, 1980-81 and 1981-82.

11-20. 25 bedded rural hospitals 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 bedded rural hospitals have been established. An outlay of Rs. 50.00 lakhs has been earmarked in 1982-83 to continue the hospitals opened during 1979-80.

Well-equipped tehsil and district hospitals form the apex of the structure.

11-21. By the end of 1980-81, 98 dental clinics were established at the block level in the State. Ten dental clinics will be established during 1981-82. An outlay of Rs. 8.50 lakhs has been earmarked for the year 1982-83 to continue the dental clinics opened during 1979-80, 1980-81 and 1981-82.

11-22. Out of the existing PHCs the buildings of 106 PHCs were completed by 31st March, 1979. The construction work at 10 Primary Health Centres is in progress. An outlay of Rs. 5.45 lakhs has been provided for the on-going works during 1982-83.

Health facilities in Urban Areas :

11-23. 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 hospital. An outlay of Rs. 25.00 lakh has been provided for the year 1982-83 against the provision of Rs. 39.00 lakhs in 1981-82 and no hospital will be upgraded during 1982-83. Outlay of Rs. 1.45 lakh is earmarked in the Annual Plan 1982-83 for the maintenance of the intensive care unit opened in 1979-80.

11-24. Another important programme is the opening of new dispensaries in the Urban Slum Areas and in other suitable localities to relieve the pressure

on the out door patients departments in the existing hospitals. An outlay of Rs. 12.00 lakh has been earmarked to continue the dispensaries opened during 1979-80, 1980-81 and 1981-82. An outlay of Rs. 11.50 lakhs has been provided to continue the provincialised dispensaries during 1982-83.

Control/Eradication of Communicable Diseases :

11-25. The control and eradication of communicable diseases such as Malaria, T.B. and Training and employment of multipurpose workers scheme 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. 183.60 lakhs has been provided in the Annual Plan 1982-83 as State share for the implementation of these schemes.

Other Programmes :

11-26. The Community Health Volunteers scheme was initiated in Punjab in 20 blocks. It was discontinued from 1st April, 1979 because of its doubtful utility and 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.

11-27. 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 repairs and maintenance unit in the State was set up in 1979-80 at a cost of Rs. 5.77 lakhs. A sum of Rs. 1.90 lakhs has been provided for the maintenance of the scheme during 1982-83.

11-28. With a view to strengthening the State Health and District level laboratories, a provision of Rs. 0.75 lakh has been provided in the Annual Plan 1982-83 against the outlay of Rs. 0.70 lakh for the year 1981-82.

11-29. In order to strengthen the Health Statistical Organisation in the Directorate, an

outlay of Rs. 2.50 lakhs has been earmarked in the Annual Plan 1982-83 against the provision of Rs. 2.00 lakhs for the year 1981-82 to continue the staff sanctioned during 1980-81.

11-30. It is proposed to control the spread of diarrhoea mostly amongst the children below three years and adults by administering rehydration powder to the suffering patients. This scheme was started during 1981-82. An outlay of Rs. 1.50 lakhs has been earmarked for the purchase of rehydration powder in the Annual Plan 1982-83.

11-31. In order to boost Family Welfare Programme and reduce birth rate, it is proposed to provide additional incentives of Rs. 50 to each acceptor of sterilisation out of the State Plan funds. For this purpose, an outlay of Rs. 21.00 lakhs has been provided for the year 1982-83.

11-32. The schemes of the Employment State Insurance Corporation has been neglected in the past, even though for every rupee provided by the State Government, the Corporation provides seven rupees. A sum of Rs. 12.50 lakhs has been provided in 1982-83 as State share.

Indian Systems of Medicines :

11-33. 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. A sum of Rs. 23.00 lakhs has been provided in the Annual Plan 1982-83 for the maintenance of the existing programmes.

11-34. The main aim is to consolidate the existing services and make up the persisting deficiencies.

11-35. Brief details of the programmes included in the Annual Plan are as under :—

Strengthening of existing I.S.M. Dispensaries :

11-36. 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. 15,00 per dispensary. For this purpose an outlay of Rs. 1.00 lakhs has been earmarked in the Annual Plan 1982-83.

Opening of I. S. M. Dispensaries..

11-37. A sum of Rs. 18.75 lakhs has been

provided in the Annual Plan 1982-83 against the outlay of Rs. 20.60 lakhs in 1981-82 to continue the dispensaries opened during 1979-80, 1980-81 and 1981-82.

Improvement and expansion of Government Ayurvedic College, Patiala :

11.38. 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. 0.75 lakhs is earmarked in 1982-83 for this purpose.

Improvement and expansion of Government Ayurvedic Pharmacy, Patiala :

11.39. An outlay of Rs. 0.45 lakh has been provided for 1982-83 for the continued component only.

Strengthening of the Directorate :

11.40. Outlay of Rs. 0.55 lakhs has been provided for 1982-83 to continue the staff sanctioned during 1980-81.

Strengthening of District Headquarter Staff :

11.41. 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 during 1982-83. A provision of Rs. 1.50 lakhs has been earmarked for the year 1982-83.

Homoeopathy :

11.42. The State Government on the pattern of the Union Government like some other States have established a separate Directorate of Homoeopathy during 1980-81. An outlay of Rs. 7.00 lakhs has been earmarked in the Annual Plan 1982-83 for the existing programme.

Strengthening of State Headquarters Staff :

11.43. An outlay of Rs. 1.60 lakhs has been provided in the Annual Plan 1982-83 for the staff sanctioned during 1980-81.

CHAPTER XII

Urban Development, Housing and Water Supply

Urban Development :

The economic development of the State and the resultant rural and urban prosperity has accentuated the urbanisation process and migration of population from rural to urban areas. In order to check disequilibrium between the pace of urbanisation and urban facilities/civic amenities, a sum of Rs. 9654.00 lakhs has been provided for various schemes of urban development during Sixth Five-Year Plan 1980—85. Against this provision an expenditure of Rs. 2371.97 lakhs was incurred during 1980-81. During 1981-82 an outlay of Rs. 2060.00 lakhs has been provided, which together with funds from institutional, municipal and other resources should achieve substantial results. During 1982-83 an amount of Rs. 1527.00 lakhs has been provided for this purpose.

Urban Estates

12.2. The development of urban estates involved the acquisition and development of land by providing infrastructural facilities and public amenities. To speed up 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. It will, however, take some time before the Urban Development Authority takes its final shape. During 1979-80 an expenditure of Rs. 429.08 lakhs was incurred for the development of 430 acres. During 1980-81, additional land of 255 acres was developed with an expenditure of Rs. 477.97 lakhs. As against the provision for 1979-80 and 1980-81, Rs. 217.00 lakhs have been provided for 1981-82. Due to certain procedural constraints the Urban Development Authority is not likely to come into being during the current year. An outlay of Rs. 180.00 lakhs has been provided for 1982-83 for acquisition of 150 acres of land and for development of 2846 acres of semi-developed land.

With this development it will be possible to sell 4000 plots, with an anticipated receipt of Rs. 300 lakhs. It has been decided to provide free house sites to urban scheduled castes and other weaker sections of society under this scheme.

Urban Water Supply and Sewerage

12.3. 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 was introduced by March, 1980. Government of India has indicated that piped water supply and underground sewerage may be provided to the entire population of the 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 Rs. 313 crores (Rs. 135 crores for Water Supply and Rs. 178 crores for Sewerage) for this purpose. During 1980-81, an expenditure of Rs. 16.80 crores was incurred to provide water supply and sewerage facilities in the State. The main expenditure under this sub-head was on the implementation of IDA project for providing water supply and sewerage facilities in 8 towns. A provision of Rs. 16.60 crores was made in 1981-82 as loans to Municipal Committees for implementing water supply and sewerage schemes including IDA Project through W.S.S.B.

12.4. A provision of Rs. 11.80 crores only has been made for this purpose during 1982-83. This outlay includes the following schemes/Projects :—

(Rs. in lakhs)

Serial No.	Name of the Scheme/Project	Outlay 1982-83
1	2	3
1	I.D.A. Project—	
	I.D.A. Loans ..	450.00
	State Government-contribution ..	189.00

Serial No.	Name of the Scheme/Project	Provision
1	2	3
	L.I.C. Loans	.. 270.00
	Loans to Weaker M.Cs.	.. 20.00
	Total	.. 929.00
2	L.I.C. Project (2nd package) :	
	Government of Punjab (loans to M.Cs.)	.. 50.00
	L.I.C.	.. 100.00
	Total	.. 150.00
3	Other Water Supply Schemes	.. 25.00
4	Other Sewerage Schemes	.. 20.00
5	Sewage Sullage Utilisation scheme	5.00
6	Setting up of sewage treatment plants	.. 1.00
	Grand Total	.. 1130.00

12.5. The Water Supply Sewerage Board which is implementing these schemes has been provided an equity of Rs.50.00 lakhs for the implementation of IDA Project and other Water Supply Schemes during 1982-83.

World Bank Project

12.6. 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 :—

I.D.A. (35%)	.. 22.61 crores
State Govt. share (15%)	.. 10.07 crores
L.I.C. (20%)	.. 13.00 crores
Municipal Corporation/ Committee (30%)	.. 21.02 crores
Total	.. 66.70 crores

12.7. Out of Rs. 32.68 crores (Rs. 22.61 crores plus Rs. 10.07 crores IDA and Government of Punjab share) an amount of Rs. 8.60 crores (Rs. 0.60 crores plus Rs. 8.00 crores) was provided to W.S.S.B. during 1978-79 and 1979-80. During 1980-81, additional amount of Rs. 11.60 crores (including LIC loan of Rs. 331.00 lakhs) was provided to the Board. These amounts have already been expended. The LIC has released a loan of Rs. 4.68 crores up to March, 1981 against the total share of Rs. 13.00 crores.

12.8. During 1981-82, Rs. 1300 lakhs have been provided for the project. A loan of Rs. 3.60 crores is expected from LIC during this year. For 1982-83, a provision of Rs. 9.29 crores (including L.I.C. loan of Rs. 270.00 lakhs) has been provided for this project.

12.9. Out of a total requirement of Rs. 8.00 crores to be provided as equity for the project, Rs. 4.33 crores were provided to W.S.S.B up to March, 1981. During 1981-82, a provision of Rs. 50 lakhs has been made for this purpose. A sum of Rs. 50.00 lakhs has been provided during 1982-83.

L.I.C. Project

12.10. Besides the IDA Project, LIC has sanctioned 27 water supply and sewerage schemes at an estimated cost of Rs. 12.00 crores with a loan of Rs. 8.00 crores. Two-third of the cost is proposed to be met out of LIC loan and 1/3rd will be met by the concerned M.Cs. During 1980-81, an amount of Rs. 3.10 crores (Rs. 2.50 crores as L.I.C. loan and Rs. 0.60 crore as Punjab Government loan to M.Cs.) was provided for this purpose. For 1981-82, Rs. 210 lakhs have been provided to continue this programme. During 1982-83, a provision of Rs. 150.00 lakhs (Rs. 100.00 lakhs as L.I.C. loan and Rs. 50.00 lakhs as Punjab Government loan to M.Cs.) has been made for these works. The towns covered under this scheme and the estimated cost of water supply and sewerage is given in Annexure-I.

Other Water Supply and Sewerage Schemes

12.11. During 1980-81, an expenditure of Rs. 80.00 lakhs (Rs. 60.00 lakhs for water supply and Rs. 20.00 lakhs for Sewerage schemes) was incurred in towns not covered under IDA and LIC projects. During 1981-82, an outlay of Rs. 75.00

lakhs (Rs. 45.00 lakhs for water supply and Rs.30.00 lakhs for sewerage schemes) has been provided for this purpose. This programme will be continued with an allocation of Rs. 45.00 lakhs during 1982-83 (Rs. 25.00 lakhs for water supply and Rs. 20.00 lakhs for sewerage schemes). Water Supply and Sewerage Board will try to get institutional finance for this purpose also.

Sewage Sullage Utilisation

12.12. 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. 199.39 lakhs (Rs. 115.00 lakhs + Rs. 84.39 lakhs) under a Centrally Sponsored Scheme, which was subsequently transferred to the State. The Government of India had released Rs. 100.66 lakhs (Rs. 72.53 + 28.13 lakhs) as subsidy for this scheme at the time of transfer by these scheme to the State. Under this scheme 1/3rd subsidy is to be released on the basis of actual expenditure incurred by the M.Cs. During 1980-81, Rs. 30.00 lakhs were provided for this purpose and during 1981-82, an outlay of Rs. 25 lakhs has been provided. A provision of Rs. 5.00 lakhs has been made during 1982-83, in order to meet the liability of subsidy on this account.

Setting up of Sewage Treatment Plants

12.13. During 1982-83, a token provision of Rs. 1.00 lakhs has been made for setting up of Sewage Treatment Plants. The proposal is being taken up with Government of India for including the project in the pipe-line for World Bank assistance as it is a subsidiary project of the World Bank Aided Water Supply and Sewerage Project being implemented in 8 towns of the State.

Improvement Trusts

12.14. Improvement Trusts receive contribution from the Municipal Committees at 2 per cent of the latter's revenue. This is an inadequate provision particularly in the case of M.Cs., with weak financial position. Therefore, most of the improvement trusts generally need loan assistance. During 1980-81, an expenditure of Rs. 10.00 lakhs was incurred and during 1981-82 a provision of Rs. 10.00 lakhs has been made. For 1982-83 an outlay of Rs. 6.00 lakhs has been provided for this purpose.

Integrated Development Programme for Small and Medium Towns

12.15. 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. 65.00 lakhs has been provided for 1982-83 for small and medium towns. In addition, for bigger towns like Amritsar, Jullundur and Patiala which were covered under the old Centrally-sponsored scheme, a sum of Rs. 6.00 lakhs has been provided for the completion of their approved programmes. During 1980-81, an expenditure of Rs. 100.00 lakhs was incurred for both the above schemes. An outlay of Rs. 100.00 lakhs has been provided for this purpose during 1981-82 (Rs. 65.00 lakhs for small and medium towns and Rs. 35.00 lakhs for bigger towns).

Towns and Regional Planning

12.16. This is a staff scheme for which a provision of Rs. 10.00 lakhs was made during 1980-81, but no expenditure could be incurred during this year. The staff is proposed to be continued during 1981-82 with an outlay of Rs. 4.25 lakhs. The staff under this scheme is to be engaged in rural sector planning at block level, preparation of plan 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. An outlay of Rs. 9.00 lakhs has been provided during 1982-83 for continuing the staff sanctioned during 1981-82.

Environmental Improvement of slums

12.17. For environmental improvement of slums such as drinking water, pavement of streets, pucca drains, street lights, public urinals and latrines etc. an expenditure of Rs. 19.00 lakhs was incurred during 1980-81. For 1981-82 and 1982-83 the provisions for this purpose has been raised to Rs. 80.00 lakhs. The identification and total requirement of funds for environmental improvement of slums is also being worked out.

Construction of temporary Project office building at Ranjitgarh

12.18. A token provision of Rs. 1.00 lakh has been made during 1982-83 for construction of a temporary project office building at Ranjitgarh. This provision will be reviewed during the course of the year.

ANNEXURE-I

List of Water Supply and Sewerage Schemes sanctioned by L.I.C. and being implemented in the State

(Rs. in lacs)

Serial No.	Name of Scheme	Estimated cost of the Schemes		
		Water supply schemes	Sewerage Schemes	Total
1	2	3	4	5
1	Ahmedgarh	26.43	—	26.43
2	Barnala	28.06	19.44	47.50
3	Batala	63.61	62.60	126.21
4	Bhudhlada	31.51	—	31.51
5	Doraha	6.68	—	6.68
6	Ferozepur	51.74	71.07	122.81
7	Dhuri	27.00	—	27.00
8	Fazilka	32.91	47.36	80.27
9	Gurdaspur	22.62	37.51	60.13
10	Jagraon	10.93	20.48	31.41
11	Jaitu	25.40	—	25.40
12	Jandiala	29.82	—	29.82
13	Khanna	22.47	31.50	53.97
14	Kurahi	23.96	—	23.96
15	Kapurthala	79.44	—	79.44
16	Malout Mandi	82.73	—	82.73
17	Malerkotla	20.27	28.98	49.25
18	Mukerian	29.81	—	29.81
19	Nakodar	35.98	—	35.98
20	Patran	16.15	—	16.15
21	Quadian	34.40	—	34.40
22	Raman Mandi	36.26	—	36.26
23	Rampura Phul	10.95	20.87	31.82
24	Sangrur	22.43	28.30	50.73
25	Sunam	32.90	20.35	53.25
26	Talwandi Bhai	5.95	—	5.95
27	Zira	7.59	—	7.59
Total		818.00	388.46	1206.46

Urban Water Supply and Sanitation

Serial No.	Name of the individual project	Location & brief objectives and scope of the project & year in which project was started	Estd. cost.	Actual Expenditure upto the end of fifth plan	Actual Expenditure upto 31-3-81 (including col. 5)
1	2	3	4	5	6
1	Punjab Water supply and Sewerage Project (IDA project)	8 cities/towns namely Amritsar, Jullundur, Ludhiana, Patiala, Rajpura, Bhatinda, Parthankot, & Moga — Project started during 2/79 (78-79) — The project aims to augment water supply and sewerage in 8 towns mentioned above	6,670.00	986.00	2,461.00
2	Water Supply of 9 towns covered under LIC 1st package	9 Towns namely Mansa, Sirhind, Samana, Gidderbaha, Phillaur, Phagwara, Lehra-gaga, Kotkapura and Hoshiarpur	481.49	314.57	430.73
3	Water Supply and Sewerage schemes of 27 towns covered under LIC 2nd package	27 towns covered mentioned in annexure-I Project started in 1978-79 The project started during April, 1981 — It aims to augment water supply in 27 towns and sewerage in 11 towns of the State mentioned in Annexure-I	1,206.46	—	—
4	Continuing water supply schemes non-IDA & non-LIC	Throughout Punjab	1,455.63	Not available	819.17
5	Continuing sewerage schemes non-IDA & non-LIC	Do	1,256.10	Do	696.30
6	Sewage/Sullage Utilisation schemes	64 towns of the state The Project is to Step up the utilisation of manurial resources and utilise Sewage for agricultural purposes	600.47	137.42	302.79
7	Coverision of dry latrines into sanitary ones	2 towns namely Barnala and Kotkapura	25.34	15.48	25.00
8	Setting up of Mechanical compost plants*	3 towns namely Ludhiana, Jullundur, and Amritsar	192.00	—	—

Note :—The matter regarding setting up of

Schemes—Annual Plan 1982-83

(Rs. in lacs)

Expenditure during 1981-82		Requirement of funds during 1982-83		L.I.C. Loan			
State plan resources	Other resources	State Plan resources	Other resources	Total to be availed of	Availed up to 1980-81	Availed during 1981-82	Requirement during 1982-83
7	8	9	10	11	12	13	14
940.00 (IDA & GOP)	692.00 (LIC & MCs contribution)	639.00 (IDA & GOP, 20.00 (Loan to weaker MCs)	270.00 (LIC)	1300.00	467.96	325.00 (Anticipated)	270.00
—	50.00 (MCs contribution)	—	—	325.00	325.00	—	—
60.00 (GOP released in 3/81)	263.00 (LIC) Released in 3/81 31.00 (MCs deposits)	50.00 (GOP)	100.00 (LIC) 66.00 (MCs)	804.30	263.00 (Released in end of 1-3-81)	170.00 (Anticipated)	100.00
45.00	14.00 (MCs deposits)	25.00	—	—	—	—	—
30.00	81.00 (MCs deposits)	20.00	—	—	—	—	—
25.00	10.00 (MCs deposits)	5.00	—	—	—	—	—
—	0.28 (MCs deposits)	—	—	—	—	—	—
—	—	—	—	—	—	—	—

Compost Plants is still under consideration of Government.

HOUSING

12.17. One of the objectives of the Sixth Five Year Plan is to reduce substantially the number of absolutely shelterless people and to provide conditions for others to improve their housing environments. This objective has been kept in view while making provision for different housing schemes to tackle the housing problem in the State. In order to boost the construction activity under the public sector, institutional finance from HUDCO is being raised to supplement the provision of Rs. 57.35 crores in the Sixth Five Year Plan 1980—85.

12.18. During 1980-81, an amount of Rs. 1027.84 lakhs was spent for this purpose and for 1981-82 an outlay of Rs. 1153.00 lakhs has been provided. This includes the repayment of HUDCO loan liability to the tune of Rs. 334.00 lakhs. An outlay of Rs. 900.00 lakhs has been provided for sub-head 'Housing' during 1982-83, which includes 407.49 lakhs for repayment of HUDCO loan liability. The details of the important schemes are given as under :—

Houses for Government Servants

12.19. This scheme relates to the procurement of land and construction of houses for Government employees in the State at district/tehsil headquarters and other places. Under this scheme the houses are constructed for various categories of Government servants. The main emphasis is laid to provide accommodation to maximum number in lowest category i.e. 92%. The rest of 8% of the total number of houses are to be provided for the higher categories.

12.20. The number of Government employees has increased from 2.53 lakhs at the end of March, 1979 to 2.66 lakhs at the end of March, 1980. The present number of Government employees in State is about 3 lakhs. In order to meet the shortage of residential accommodation for them, it was decided during 1979-80, to avail of the HUDCO loan assistance for this scheme and the activity for construction of houses was transferred to Punjab Housing Development Board. The 30% the cost of construction is paid by the State Government as seed money, to raise the balance 70% as loan assistance from HUDCO. An outlay of Rs. 355.00 lakhs was provided during 1979-80 for construction of about 2060 residential houses, 997 flats for Government employees at District/tehsil headquarters and at other places, such as focal points and at Chandigarh.

12.21. Due to late receipt of HUDCO loan assistance, shortage of building materials etc., the Housing Board could only start work on this project during 1979-80, but could not complete the construction of these houses.

12.22. During 1980-81, an expenditure of about Rs. 293.84 lakhs was incurred for completion of 64 houses at Chandigarh and for completing the construction at various stages in respect of 2266 houses. During 1981-82, an outlay of Rs. 199.12 lakhs has been provided for construction of additional 80 houses and for repayment of HUDCO loan instalments. During 1982-83, an outlay of Rs. 254.00 lakhs has been provided, out of which an amount of Rs. 251.99 lakhs will be used to meet the HUDCO repayment liability by the Housing Development Board. The balance amount of 2.00 lakhs has been provided to be utilised by P.W.D. for completion of spill over works. The Housing Board will be concentrating during 1982-83, on completion of houses under construction only.

12.23. To meet the growing demand for house building advance among the 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, a sum of Rs. 159.00 lakhs has been provided as loan for this purpose during 1982-83, against the requirement of Rs. 585.00 lakhs. In 1979-80 and 1980-81 Rs. 240.00 lakhs and Rs. 150.00 lakhs respectively were expended for this purpose. During 1981-82 Rs. 253.88 lakhs are likely to be disbursed as loan for this purpose.

Police Housing

12.24. Houses for Police personnel are also got constructed through the Punjab Housing Development Board 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 expenditure of Rs. 150.00 lakhs was incurred for taking up the construction of additional 870 houses and barrack accommodation for 550 persons. During 1981-82, a sum of Rs. 185.00 lakhs has been provided for meeting the repayment liability of HUDCO loan and for undertaking the construction of 200 new houses. For 1982-83, an outlay of Rs. 154.00 lakhs has been provided for the construction of 50 houses and barrack accommodation for 200 police personnel. The repayment liability of Rs. 113 lakhs is also proposed to

be met, out of this provision during 1982-83. Against the above plan provision, during 1979-80, 1980-81 and 1981-82, the Housing Board raised a loan of Rs. 228.54 lakhs and schemes for sanction of further loan of Rs. 245.41 lakhs are pending with HUDCO. A few other schemes are also being sent to HUDCO during 1981-82.

Housing Development Board

12.25. The Board came into existence in May, 1973. The Housing Board is provided assistance by way of loans and subsidy for the additional construction of various categories of houses. An amount of Rs. 70.00 lakhs as seed money for various social housing schemes of the Board, was provided during each year of 1979-80 and 1980-81. During 1981-82, an outlay of Rs. 20.00 lakhs has been provided for the construction of such houses by the Board after availing HUDCO loan assistance. The Board will meet the liabilities of principal and interest for payment to HUDCO out of advance deposits/recoveries from the applicants/allottees. During the year 1982-83, an amount of Rs. 10.00 lakhs has been provided for financial assistance to Punjab Housing Development Board for the construction of these houses.

Subsidised Industrial Houses

12.26. Under this scheme the residential houses for industrial workers are constructed in the State sector, Cooperative sector and Private sector. The Government advances loans to the extent of 65 per cent of the cost of construction of houses in the co-operative sector and to the tune of 50 per cent cost of construction in the private sector. In addition 25 per cent of the cost of houses is given as subsidy. The maximum cost of the house is considered as Rs 8,500 for grant of loan and subsidy. The houses in the Government sector are constructed through Punjab Housing Development Board.

12.27. A sum of Rs 9.00 lakhs was provided in 1980-81 for construction of 60 houses for industrial workers in the State and 64 houses in private sectors. During 1981-82, an outlay of Rs 10.00 lakhs has been provided for the construction of 104 houses (40 in the State sector and 64 in the private sector. During 1982-83, a sum of Rs 5.00 lakhs has been provided for the construction of 80 houses in private sector only.

Houses for the Rural Homeless

12.28. This scheme is covered under the Revised Minimum Needs Programme. The Revised Minimum Needs Programme places a high priority on the provision of house sites and assistance for construction of houses for rural homeless workers. About 3 lakh families of landless workers mostly belonging to Scheduled Castes were allotted free house sites, each site measuring 100 square yards 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 Board during the previous years, progress of construction work was slow. During 1978-79, Rs 100.00 lakhs were provided to the Housing Development Board for the construction of 5,000 houses. The Board received matching loan assistance of Rs 100.00 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 70.00 lakhs was provided for the construction of 3,500 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 70.00 lakhs from HUDCO, during 1979-80 for this purpose.

12.29. A review of the programme of housing for the homeless revealed that there is a need to push up its execution at a faster rate. Accordingly, a sum of Rs 170.00 lakhs was earmarked for this scheme in 1980-81 as against a provision of Rs 70.00 lakhs in 1979-80. Loan assistance from HUDCO was to supplement this amount. With this additional provision and the spillover funds available with Housing Development Board for construction of houses under this programme, the construction of 9,919 houses (with a revised cost of Rs 6,500 per house) was completed against the target of 3,389 during 1980-81. With this achievement, the entire backlog of the last 3 years was wiped out in a single year. To maintain the tempo of development under this scheme, an outlay of Rs 285.00 lakhs has been provided during 1981-82. The revised target of construction of 10,000 additional houses during this year is envisaged, against the original target of 4000 houses.

During 1982-83 an outlay of Rs 285.00 lakhs has been provided for the construction of 5,400 additional houses and for meeting the repayment liability of HUDCO loan.

Loans for LIG Houses

12.30. This scheme is financed by LIC/GIC of India. Under the L.I.G.H. scheme, loans are sanctioned to individuals, whose income does not exceed Rs 7,200 per annum. The maximum limit of loan is Rs 12,500 or 80 per cent of the cost of the house, whichever is less. During 1979-80, a sum of Rs 55.00 lakhs was expended for advancing loans to 1,100 beneficiaries. For 1980-81, an expenditure of Rs 65.00 lakhs was incurred for the construction of 600 houses. A provision of Rs 65.00 lakhs has been made in the Annual Plan, 1981-82 for the construction of 1,300 houses. During 1982-83, an amount of Rs 3.00 lakhs has been earmarked to provide loans to 60 persons for construction of houses under this scheme.

Middle Income-Group Houses

12.31. Under the M.I.G.H. scheme loans are sanctioned to individuals, whose income exceeds Rs 7,200 but is less than Rs 18,000 per annum. The maximum limit of loan is Rs 25,000 or 80 per cent of the cost of the house, whichever is less. The funds under this scheme are also arranged from LIC/GIC. During 1980-81, an expenditure of Rs 35.00 lakhs was incurred after the receipt of General Insurance Corporation loan for this purpose. During 1981-82, an amount of Rs 35.00 lakhs has been provided for the benefit of 175 persons. During 1982-83, an amount of Rs 3.00 lakhs has been earmarked to provide loans to 15 persons for the construction of houses under this scheme.

Loans for building houses in Urban Estates

12.32. Under this scheme loans are advanced to the plot holders in the urban estates set up in the State. The maximum amount of loan admissible is Rs. 55,000 and minimum is Rs. 15,000. The amount of loan is linked to the size of plot.

12.33. During the year 1980-81, Rs. 30.00 lakhs were provided as loans to 104 persons and during 1981-82 an outlay of Rs. 30 lakhs has been provided for advancing loans to 90 persons.

12.34. An amount of Rs. 25.00 lakhs has been earmarked for 1982-83 to provide loans to 75 persons.

Village Housing Project Scheme

12.35. 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. 5,000 per house.

12.36. During 1980-81, an expenditure of Rs. 62.00 lakhs was incurred for advancing loans to 1,264 persons. For 1981-82, an outlay of Rs. 70.00 lakhs has been provided for the benefit of 1,400 persons. During 1982-83, an outlay of Rs. 2.00 lakhs has been provided for granting loans to 40 beneficiaries.

RURAL WATER SUPPLY

12.37. Safe drinking water is the basic minimum need for the development of an individual as well as of the society as it helps to eradicate communicable diseases. The problem of safe drinking water supply is more acute in the rural areas where source of drinking water is unhygienic or the water available is not fit for drinking. The coverage is limited to the 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.

12.38. There are 3,712 scarcity villages in the State. Out of these villages 2,025 villages had been provided piped water supply by the end of 1980-81.

12.39. 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 skelton distribution system catering to public stand posts only. In 1976, the criteria were further liberalised to 15 gallongs (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.

12.40. Yearwise expenditure incurred since 1974-75 is given below :—

Year	Expenditure (Rs. in crores)
On the eve of Fifth Plan	12.59
1974-75	3.98
1975-76	3.68
1976-77	4.14
1977-78	5.34
1978-79	4.03
1979-80	4.81
1980-81	3.36
Expenditure under Accelerated Rural Water Supply Scheme (Government of India Scheme) during 1977-78 and 1978-79	2.45
1979-80	0.75
1980-81	0.48
Total	45.61

12.41. Physical progress of the Rural Water Supply Programme is given in the following

table:—

Year	No. of Villages	
	Com- missioned	In pro- gress at the end of the year
Upto 1973-74	524	1,033
During 1974-75	317	762
During 1975-76	347	704
During 1976-77	284	555
During 1977-78	202	563
During 1978-79	136	*663
During 1979-80	135	430
During 1980-81	80	444
Total	2,025	

*Includes certain Tikas, hamlets which were part of the revenue villages, but were counted as separate villages earlier.

12.42. By March, 1981, water supply schemes had been commissioned in 2,025 villages at a cost of Rs. 45.61 crores. During 1981-82 a revised outlay of Rs. 5.00 crore has been provided to cover additional 50 villages. A provision of Rs. 5.00 crore has been made in the Annual Plan 1982-83 to commission water supply in 70 additional villages. It is proposed to provide water supply in all the remaining 1687 scarcity villages during the Sixth Five Year Plan.

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. As recorded in the 1971 census, about 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 in agriculture sector. They constitute 71 per cent of the total agricultural labour force and hardly six per cent of the total cultivators and are mainly small and marginal farmers and share croppers. Others are engaged in traditional occupations linked to their castes. In urban areas their population is about 15 per cent and engaged in the low income occupations. Literacy rate among them is only 16 per cent as compared to 39 per cent among non-scheduled castes. Among the male scheduled caste population only 22.94 per cent are literate and among females, 8.16 per cent scheduled caste women are literate.

13.2. Since the First Five Year Plan, developmental efforts are being made to make a significant dent on the socio-economic life of the scheduled castes. In each annual plan, programmes for educational advancement, economic uplift and housing, environmental improvement etc. are strengthened by adding new schemes and providing more funds. For the year 1982-83 an outlay of Rs. 500.00 lakh has been provided as compared to Rs. 425.00 lakh provided during the year, 1981-82.

Programme of Education :

13.3. Education is the basic input for the social and 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. For this programme an outlay of Rs. 112.20 lakh has been provided during 1982-83 against the current year's revised outlay of Rs. 84.60 lakh.

13.4. To provide the free books and stationery to 1.80 lakh scheduled caste students of 6th to 10th classes, an outlay of Rs. 45.00 lakh has been provided under the scheme 'Grants to purchase of books and stationery' for 1982-83 as compared to Rs. 40.00 lakh provided in the current year. For providing books to medical and engineering students, an outlay of Rs. 4.00 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 set aside. For imparting the training in stenography an outlay of Rs. 2.00 lakh has been earmarked to benefit 100 students. With an outlay of Rs. 5.00 lakh, 125 Scheduled Caste graduates will be trained as B.Ed. teachers and 250 matriculates as J.B.T. teachers in 1982-83. An outlay of Rs. 13.00 lakh has also been earmarked to provide grants of Scheduled Caste girl students studying in post-matric and post-graduate classes. The grant at the rate of Rs. 40 and Rs. 50 per month is given to the girls. The main objective of this scheme is to attract maximum number of girls of these communities to higher education. For Centrally-sponsored schemes 'I.A.S. Coaching Centre' and 'Girls Hostels' an outlay of Rs. 2.25 lakh has been set aside as the State share and a matching provision is expected from the Government of India. An outlay of Rs. 15.00 lakh has been provided under the scheme 'Technical training in industrial trades' for upgrading and strengthening to 5 training centres to the level of industrial training institutes. With an outlay of Rs. 10.80 lakh under the scheme 'Industrial training to Scheduled Caste women, the training in knitting etc. will be imparted to 3600 women in 120 centres. A new scheme 'Grants to Scheduled Caste students studying in medical and engineering colleges has been initiated at Rs. 14.40 lakhs. Under this scheme each student, studying in medical and engineering colleges, will be given grant at the rate of Rs. 200 p.m. whose parent's income does not exceed Rs. 12,000 p. a.

Economic Uplift :

13.5. Under this programme, efforts are made to assist Scheduled Castes to cross over the poverty line. About 70 per cent of the Scheduled Castes are engaged in agricultural sector. 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 earmarked to benefit 200 families during 1982-83.

13.6. Two Corporations—Punjab Scheduled Castes Land Development and Finance Corporation and Punjab Backward Classes 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 which are either interest-free or at nominal rate of interest. To enable these Corporations to expand their activities funds are provided to strengthen their capital base. For 1982-83 a sum of Rs. 51.00 lakh has been provided to give to Punjab Scheduled Castes Land Development and Finance Corporation. BACKFINCO will be strengthened with a provision of Rs. 20.00 lakh. A sum of Rs. 49.00 lakh is expected 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 will also raise institutional finance from Commercial Banks. To subsidise the higher rate of interest of the banks, an outlay of Rs. 60.00 lakh is earmarked as 'Interest Subsidy' for 1982-83. To issue the yellow cards to the families identified below the poverty line, a sum of Rs. 1.20 lakh has been provided.

Programme for Health, Housing and other Social Assistance

13.7. 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 facilities. Under this scheme 11,000 villages have been identified where

environmental improvement will be done. Only 1137 willages were covered by the end of 1980-81 and it is expected that 132 more villages will be covered during 1981-82. For 1982-83 an outlay of Rs. 115.00 lakhs, i.e. Rs. 20.00 lakh more as compared to the provision for 1981-82 has been provided to cover 100 basties and for providing 1050 units of drinking water. Under the scheme 'Construction of dharamshalas/chaupals', financial grants were given for the construction of 14,115 dharamshalas in the State for the use of Scheduled Castes up to the end of 1980-81. During 1981-82, 300 more dharamshalas are expected to be completed. A target of constructing 450 dharamshala has been fixed at a cost of Rs. 45.00 lakh during 1982-83.

13.8. 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 the construction of houses to sweepers, scavengers, flayers and tanners. A sum of Rs. 38.00 lakh has been earmarked for providing subsidy for the construction of 1,900 houses.

13.9. A sum of Rs. 0.20 lakh is set aside for the scheme 'Legal Aid' in 1982-83. 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.

13.10. It has been found that 20 per cent of the total 8.00 lakh Scheduled Castes families residing in rural areas have no land for dumping domestic waste. Small plots of land will be provided free to these people for manurial pits. An outlay of Rs. 25.00 has been provided for 1982-83.

Programme for the Welfare of Vimukat Jaties :

13.11. Attention is also paid to the welfare of Vimukat Jaties (denotified tribes). In order to induce them to take to settle 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. 20.00 lakh has been provided for the grant of subsidy for the construction of 1000 houses during 1982-83.

Social Welfare and 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

14.2. For the various programmes of Social Welfare an outlay of Rs. 165.00 lakhs has been provided in 1982-83 against the revised outlay of Rs. 109.00 lakhs in the Annual Plan 1981-82. Details of the various programmes are as under :-

Children Welfare

14.3. 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 per month per child. The number of such children is expected to be 3,300 at the end of 1981-82. A sum of Rs. 20.00 lakhs is earmarked to extend coverage to 3475 beneficiaries in 1982-83. For the construction of the building of the Certified school at Hoshiarpur, a sum of Rs. 5.00 lakhs has been provided during 1982-83. An outlay of Rs. 1.50 lakhs is also earmarked as State share under the Centrally-sponsored scheme 'Services for children in need of care and protection'. Matching contribution is expected to be received from the Government of India for providing the grants-in-aid to the voluntary welfare organisations engaged in the service of children.

Women Welfare

14.4. 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. Number of such beneficiaries will be 7093 at the end of the year 1981-82. The coverage will be extended to 7,523 women with provided outlay of Rs. 35.45 lakhs during 1982-83.

14.5. 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 provided outlay of Rs. 0.30 lakh during 1982-83, 50 beneficiaries will be covered.

Welfare of Handicapped

14.6. Persons in the age-group 6-30 years who are orthopaedically handicapped or are deaf and dumb or blind, and the income of whose parents or guardians is less than Rs. 500 per month are provided scholarships ranging from Rs. 15 to Rs. 100 per month. For this scheme, Rs. 0.20 lakh has been earmarked in 1982-83. Under an other scheme 'Supply of prosthetic 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. 0.50 lakh has been provided for the benefit of 105 handicapped persons. During the year 1981, as this year was declared the 'International Year of Disableds, special attention had been provided to the problems of the disabled persons. The disabled persons falling in the age-group of 16-55 years are given the financial assistance at the rate of Rs. 50 per month to each beneficiary. An outlay of Rs. 5.00 lakhs has been provided under the scheme 'Assistance to disabled persons' during 1982-83. Other disabled persons who are less than 16 years or more than 55 years are already being covered under the ongoing schemes. To rehabilitate and impart vocational training to the handicapped in trades which suit them, three rehabilitation and vocational centres are

to be set up at Hoshiarpur, Amritsar and Sangrur. For these centres, an outlay of Rs. 8.00 lakhs has been proposed for 1982-83. A token provision of Rs. 0.50 lakh has been made to set up the Barille Press for the blind.

Other Programmes

14.7. An outlay of Rs. 1.00 lakh has been provided for grant-in-aid to voluntary welfare organisations/institutions engaged in welfare activities concerning children, women, the aged, 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 1982-83 an outlay of Rs. 1.75 lakhs is provided.

Punjab Women and Children Development and Welfare Corporation

14.8. 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. An outlay of Rs. 44.00 lakhs has been provided as a share capital contribution to this Corporation during 1982-83.

14.9. The Corporation has initiated a programme of advancing the interest-free loans or loans at nominal rate of interest to the scheduled castes and other economically weak women. For this the institutional finance is to be raised from the commercial banks and the high interest rate of the banks is to be subsidised by the State Govt. For this purpose an outlay of Rs. 1.00 lakh is earmarked for 1982-83.

Welfare of ex-servicemen

14.10. 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 and also the interest-free

loans to finance the income generating schemes. For 1982-83 an outlay of Rs. 25.00 lakhs has been provided as share capital contribution to the Corporation. An outlay of Rs. 15.00 lakhs has also been set aside as interest subsidy to the Corporation to subsidise the high rate of interest of the commercial institutions.

NUTRITION

14.11. Mal-nutrition among the children of the underdeveloped countries like ours is one of the major problems affecting the physical 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 & Integrated Child Development Service (I.C.D.S.),

Special Nutrition Programme

14.12. 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.

I.C.D.S. Projects

14.13. The I.C.D.S. Projects provide a package of health nutrition and pre-school educational services to children below six years and also to the expectant and nursing mothers. These projects are being run in six blocks, Nurpur Bedi in Reper District, Nahana in Bhatinda District, Lambi in Faridkot District, Balachaur in Hoshiarpur District, Narot Jaimal Singh in Gurdaspur District and Mangat in Ludhiana 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 lakhs has been provided for 1982-83 and 15,000 beneficiaries will be covered.

Other Programmes

Other Plan Programmes comprising of the following are described below :—

- (i) Public Works ;
- (ii) Labour and Labour Welfare ;
- (iii) Stationery and Printing ;
- (iv) Information and Publicity ;
- (v) Planning Machinery ;
- (vi) Statistics ;
- (vii) Administrative Training Institute.

A brief description of each programme is given as under :—

Public Works

15.2. 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 for 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 expenditure of Rs 179.06 lakhs was incurred during 1979-80 on such public works. During 1980-81, an amount of Rs 186.20 lakhs was expended. An outlay of Rs 250.00 lakhs has been provided for annual Plan, 1981-82 out of which Rs. 235.00 lakhs are likely to be expended. During 1982-83, an outlay of Rs 290.00 lakhs has been provided. The increase of Rs 40.00 lakhs has been provided for the construction of Mini-Secretariat Building at Chandigarh. Various works to be taken up in 1982-83 are as under :—

ADMINISTRATIVE COMPLEXES

15.3. The State has 3 divisions, 12 districts, 45 sub-divisions/tehsils and 49 sub-tehsils. For the convenience of the public it has been decided to construct all Government offices and Courts in a town at one place.

15.4. During 1979-80, an expenditure of Rs 46.20 lakhs was incurred for the construction of Administrative Complexes. An amount of Rs 72.48 lakhs was incurred during 1980-81 for these works. During 1981-82, an outlay of Rs 84.19 lakhs has been provided for the completion of on-going works. The construction work at present is going on at 20 District/Tehsil Complexes in the State. Due to constraint on resources, the construction of no new complex is to be undertaken during 1982-83. However, Rs 99.00 lakhs have been provided only for the completion of on-going works during 1982-83. The details of these works are given in Annexure—I.

Courts

15.5. The conditions of Court buildings in the State is very poor. Some of which have been declared unsafe by P.W.D. At present construction of Court buildings at six places is in progress. An expenditure of Rs 11.51 lakhs was incurred during 1980-81, on this account. A provision of Rs 9.00 lakhs has been made in 1981-82 for the on going works. During 1982-83, an outlay of Rs 9.00 lakhs has been provided for the completion of six court complexes. The details are given in Annexure-I.

Patwar Khanas

15.6. This scheme is to be implemented by Punjab Housing Development Board after raising HUDCO loan to the extent 70 % of the cost of the project on the seed money (30 per cent) provided for this scheme. During 1981-82, an outlay of Rs. 15 lakhs has been provided for the construction of 120 Patwar-Khanas. Due to the non-sanction of HUDCO loan, an expenditure of only Rs. 5.86 lakhs is likely to be incurred during 1981-82. During 1982-83, a token provision of Rs. 5.00 lakhs has been made, which will be reviewed during the course of year.

Police Stations

15.7. The condition of most of the existing Police Stations buildings is not satisfactory, some

of which have also been declared unsafe for habitation by P.W.D. authorities. A few Police Stations are housed in rented buildings, which are not constructed according to the requirements of the Police Department. Therefore, some of them require immediate renovation and for other new construction is to be undertaken. For this purpose an expenditure of Rs 18.24 lakhs during 1979-80 and Rs 33.50 lakhs during 1980-81 was incurred. For 1981-82, a provision of Rs 42.00 lakhs has been made out of which Rs 40.95 lakhs are likely to be expended. During 1982-83, same provision of Rs 42.00 lakhs has been made for construction of 16 Police Stations, which include Rs 22.00 lakhs for 10 spill over works and Rs 20.00 lakhs for 6 new works.

Jails

15.8. In order to improve the conditions in the jails, the Government decided to provide basic amenities of life, in jails, e.g., flush latrines, etc. An expenditure of Rs 82.42 lakhs was incurred for the provision of such amenities and construction of new jails during 1979-80. An expenditure of Rs 53.33 lakhs was incurred for the construction of new jails and provision of flush latrines, etc., during 1980-81. An outlay of Rs 75.00 lakhs has been provided for the completion of 7 on going works during 1981-82. The same provision of Rs 75.00 lakhs has been made for the completion of these 7 spill over works. Provisions for these works are shown in Annexure—I.

Circuit Houses and Rest Houses

15.9. During 1982-83, an outlay of Rs 20.00 lakhs has been provided for the completion of State Guest House at Chandigarh only. During 1979-80 and 1980-81 an amount of Rs 25.57 lakhs and Rs 15.38 lakhs respectively were spent under this scheme. An outlay of Rs 20.00 lakhs has been provided for this scheme during 1981-82, which includes Rs 13.00 lakhs for State Guest House and Rs 7.00 lakhs for other Rest Houses.

Mini-Secretariat Building at Chandigarh

15.10. In order to accommodate the increased strength of the staff, there is a need for the construction of new building at Chandigarh. The State Government at present is paying heavy rents to accommodate its offices in private buildings at Chandigarh. To meet this dire need and to facilitate the public it has been decided to construct a Mini Secretariat at a cost of Rs 235 lakhs. It is proposed to complete this project within a period of 3 years during Sixth Five-Year Plan. Land for the project has already been acquired from Chandigarh Administration. During 1982-83 Rs 40.00 lakhs have been provided for this purpose, which include Rs 18 lakhs for payment of instalments of land acquired and Rs 22 lakhs for taking up construction of the building.

ANNEXURE—I

(Rs in lakhs)

Serial No.	Name of the Scheme	Approved Outlay, 1982-83	Serial No.	Name of the Scheme	Approved Outlay, 1982-83	
1	2	3	1	2	3	
Administrative Complexes			20	District Administrative Complex, Faridkot ..	6.00	
1	District Administrative Complex (1st Phase), Jullundur ..	12.00	Total ..			99.00
2	Tehsil Complex, Baba Bakala ..	7.00	Courts			
3	Tehsil Complex, Gurdaspur ..	4.00	1	Court Complex, Samrala ..	2.00	
4	Tehsil Complex, Patti ..	4.00	2	Court Complex, Phagwara ..	2.00	
5	Tehsil Complex, Barnala ..	6.00	3	Court Complex, Barnala ..	2.00	
6	Tehsil Complex, Khanna ..	5.00	4	Court Complex, Sultanpur Lodhi ..	1.00	
7	Tehsil Complex, Mansa ..	5.00	5	Court Complex, Kharar ..	1.00	
8	Tehsil Complex, Rajpura ..	4.00	6	Court Complex, Samana ..	1.00	
9	Tehsil Complex, Fatehgarh Sahib ..	5.00	Total ..			9.00
10	Office Buildings other than Courts at Gidderbaha ..	4.00	Jails			
11	District Administrative Complex (2nd Phase), Rupnagar ..	6.00	1	Construction of Open Air Jail, Nabha ..	5.00	
12	Tehsil Complex, Pathankot ..	4.00	2	Construction of New Central Jail, Ludhiana ..	50.00	
13	Tehsil Complex, Balachaur ..	4.00	3	Construction of Open Air Jail, Kapurthala ..	5.00	
14	Tehsil Complex, Talwandi Sabo ..	4.00	4	Provision of Flush Laterines ..	2.00	
15	Administrative Complex, Moga ..	4.50	5	Construction of Sub-Jail, Ropar (Purchase of Land) ..	2.00	
16	Office-cum-Residence building for Deputy Excise and Taxation Commissioner, Ferozepur Division ..	5.00	6	Construction of Under trial Wing at Amritsar ..	1.00	
17	Sub-Tehsil Complex Mukerian ..	4.00	7	Construction of Staff Quarters ..	10.00	
18	Sub-Tehsil Complex, Bhawani-garh ..	2.50	Total ..			75.00
19	Cycle Stand, Garrages for parking in District Administrative Complex, Ludhiana ..	3.00				

LABOUR AND LABOUR WELFARE

15.11. Labour Welfare, Employment Services and Industrial Training are included under this sub-head.

Labour Welfare :

15.12. An outlay of Rs. 5.00 lakh has been provided for 1982-83 for the continuation of the following on-going schemes :—

- (i) Setting up of enforcement machinery for the welfare of agricultural labour ;
- (ii) Strengthening of enforcement machinery for Minimum Wages Act, 1948 ;
- (iii) Setting up of industrial hygiene laboratory.

15.13. Additional funds have been provided to strengthen the enforcement machinery to implement effectively the labour laws for the regulation of the working hours, working conditions and wages of agricultural labourers.

Employment Services :

15.14. An outlay of Rs. 1.70 lakh has been provided in 1982-83 for the continuation of the on-going scheme.

Industrial Training.

15.15. For this programme an outlay of Rs. 50.30 lakh for the Annual Plan 1982-83 has been provided. Details of the various programmes are as under :—

(a) Craftsman Training :

15.16. There are 38 Industrial Training Institutes in the State with 12,316 seats in different industrial trades. This programme is run on all-India pattern and is controlled and regulated according to the policies of the Directorate-General of Employment and Training. For the Annual Plan 1982-83, an outlay of Rs. 35.30 lakh has been set aside. These funds are provided mainly for strengthening the existing institutes by providing buildings, material and machinery, tools and equipment and training to the existing staff and also for the introduction of the new trades and addition of more seats in these institutes. The proposed

outlay will be utilised for the following schemes, as given below :—

- (i) conversion of unpopular trades into popular trades ;
- (ii) addition and replacement of wornout 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.
- (vii) development of facilities for basic training and related instructions ;
- (viii) modernisation of I.T.I., Patiala and five other institutes under aid programme of U.N.D.P./I.L.O. to provide standard and blue print reading, tools and die making and electrical and mechanical maintenance ;
- (ix) conversion of Rural Artisans Training Centres/Junior Training Centres/Government Industrial Schools into Industrial Training Institutes.

Schools for Girls :

15.17. As some trades are more suited to girls, training facilities are provided for them in 44 industrial schools with 3,678 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 1982-83 an outlay of Rs. 15.00 lakh has been provided 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 outlay is for the following on-going schemes :—

- (i) completion of building of Government Industrial Teachers Training Institute, Jullundur ;
- (ii) construction of new buildings for schools ;
- (iii) opening of new schools and introduction of additional seats in existing schools ;
- (iv) teachers training classes in cutting and tailoring, embroidery and needle work, knitting with hand and machine ;
- (v) training-cum-production centres ;
- (vi) seminars, conferences, study tours and training and retraining ;
- (vii) modernisation and replacement of machinery in schools.

STATIONERY AND PRINTING :

15.19. For this programme, a provision of Rs. 39.00 lakhs has been provided during 1982-83, which includes Rs. 31.04 lakhs for machinery and equipment for Government Press at S.A.S. Nagar, the building for which is nearing completion and Rs. 7.96 lakhs for the on-going schemes. An outlay of Rs. 11.00 lakhs has been provided for 1981-82 for various schemes under this sub-head. During 1980-81 an expenditure of Rs. 7.17 lakhs was incurred on this account.

INFORMATION AND PUBLICITY

15.20. It is proposed to shift gradually from man-based to media-based publicity. For this purpose, an outlay of Rs. 40.00 lakh has been provided for the Annual Plan 1982-83.

Direction and Administration :

15.21. An outlay of Rs. 0.70 lakh has been provided for the purchase of office equipment to improve the working of the headquarters office of the Public Relations Deptt. A sum of

Rs. 0.50 lakh has also been set aside for the scheme 'Purchase of books for library at headquarters'. A small outlay of Rs. 0.20 lakh has been provided under the scheme 'Feed back studies' in order to ascertain the response of the audience to the various programmes.

Films :

15.22. An outlay of Rs. 3.00 lakh has been provided in the Annual Plan 1982-83 for the production of documentary films, newsreels and for the purchase of feature films for the entertainment and education of people.

Punjab Films and News Corporation :

15.23. A sum of Rs. 5.00 lakh has been provided in the Annual Plan 1982-83 as share capital contribution to meet some of the pending liabilities of the Corporation.

Field Publicity :

15.24. Sub-centres of publicity have been established at the tehsil level with a view to strengthening publicity in villages. An outlay of Rs. 11.00 lakh has been provided for the year, 1982-83. Another amount of Rs. 1.15 lakhs has been provided in 1982-83 for providing TV sets to 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. 3.15 lakhs is being provided under the scheme 'Purchase and production of literature for the year, 1982-83'.

Song and Drama Services :

15.25. 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. 3.00 lakhs has been set aside for the year 1982-83. A provision of Rs. 3.35 lakhs is also earmarked for the continuation and strengthen the Song and Drama Services by adding folk music, dhadhhi/kavisher Jathas, Bhajan Mandlies and drama parties.

Advertising Visual Publicity :

15.26. For holding exhibitions in the State, a sum of Rs. 3.00 lakhs has been provided in 1982-83 under the scheme 'Exhibitions'. A small outlay of Rs. 0.10 lakh has been set-aside for the scheme 'Community listening' mainly for the maintenance of community sets. For propagating the Government policies and achievements among the people, the sum of Rs. 4.00 lakhs and Rs. 0.50 lakh have been earmarked under the schemes 'Display advertisements' and 'Wall paintings', respectively.

Information Centres :

15.27. 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 New Delhi also. It is proposed to link the remaining district headquarters with Chandigarh through teleprinter lines during the Sixth Five-Year Plan. For this purpose an outlay of Rs. 1.35 lakh has been set aside in the Annual Plan 1982-83.

PLANNING MACHINERY

15.28. 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 the Member Secretary.

15.29. Besides the House-keeping Division, the staff working in the Planning Board has been re-organised into the following 13 Divisions for dealing with different subjects :—

- (1) Plan Co-ordination Division.
- (2) Economic Division.
- (3) Local Plan Division.
- (4) Agriculture and Rural Development Division.
- (5) Employment and Man-power Division.
- (6) Irrigation, Drainage and Flood Control Division.

- (7) Energy Division.
- (8) Trade and Transport Division.
- (9) Industry and Mineral Division.
- (10) Housing and Urban Development Division.
- (11) Special Backward Area Division.
- (12) Social Services Division.
- (13) Monitoring and Evaluation Division.

15.30. The Plan Co-ordination Division consists of largely the Secretariat staff and undertakes the co-ordination work relating to Planning. The other 12 Divisions consists 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 would 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 procedure.
- (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.

15.31. 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 out of which Rs 5.55 lakhs is likely to be expended. Steps will be taken to have the subject matter Specialists, Directors and their supporting staff in position as early as possible. The same outlay of Rs. 10.00 lakhs has been provided for this purpose during 1982-83.

It is hoped that assistance from the Planning Commission will be available for the schemes proposed to be implemented during 1982-83, on the same pattern as heretofore i.e. 2/3rd of the total approved items of expenditure, with a view to building up the organisation to the required level of competence and efficiency.

STATISTICS

15.32 The Economic and Statistical Organisation (E.S.O.) has made good progress in the collection and presentation of data on the State's 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. An outlay of Rs. 17.00 lakhs has been provided for the continuation of staff scheme during 1982-83, against a provision of Rs. 17.00 lakhs during 1981-82 out of which Rs 13.93 lakhs are likely to be expended.

15.33 Capital Formation Unit was set up during 1979-80. It is proposed to collect detailed data separately for the household and the non-house hold sectors. For this purpose an outlay of Rs. 3.50 lakhs is provided in 1982-83 for continuing the unit.

15.34 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 Officers 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 Senior Officer and other supporting staff. With the enhanced strength it will be possible for the office to review and monitor district Plans and supervise conduct of statistical studies at district/block levels. An amount of Rs. 7.00 lakhs has been provided for 1982-83 for this scheme.

15.35 An *ad hoc* provision of Rs. 0.20 lakh has been provided for the purchase of computer timings during 1982-83, for getting the data processed and tabulated quickly.

15.36 For conducting *ad hoc* studies on subjects suggested by Central and State Governments a provision of Rs. 1.70 lakhs has been made in 1982-83. Sample survey of wholesale and retail trade statistics, social statistics, and of consumer expenditure and employment in selected blocks, will be undertaken in 1982-83.

15.37 The evaluation section strengthened during 1980-81, will be maintained at a cost of Rs. 2.20 lakhs during 1982-83, against an outlay of Rs. 1.98 lakhs during 1981-82 for taking evaluation studies on different subject.

15.38 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 Government, the training unit set up during 1979-80, will be continued at a cost of Rs. 2.40 lakhs during 1982-83.

ADMINISTRATIVE TRAINING INSTITUTE

15.39 The Institute came into being in March, 1978. The Punjab State Institute of Public Administration, which had 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.

15.40 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.

15.41 Expenditure of Rs. 10.00 lakhs and Rs. 9.00 lakhs was incurred during 1979-80 and 1980-81 respectively on this account. During 1981-82, an outlay of Rs. 9.00 lakhs has been provided. This would be used to cover the recurring and non-recurring expenses including payment of instalment towards the cost of land. A provision of Rs. 9.00 lakhs has been made for this purpose during 1982-83.

CHAPTER XVI

Employment

In this chapter an attempt has been made to examine in some detail the main aspects of employment and unemployment situation in the State on the basis of latest available data. Provisional 1981 Census figures have been used to study the growth of employment during the last one decade. Estimates of labour force for the year 1982-83 have been projected by utilising the parameters provided by the 32nd round (1977-78) of National Sample Survey. Unemployment situation among different categories of personnel has been studied on the basis of the number of work-seekers registered with the Employment Exchanges in the State. Tentative estimates of total direct employment generated/to be generated under different Annual Plans as well as the Sixth Five-Year Plan have also been incorporated in this chapter. The Employment Policy of the State Government has been discussed at the end of the chapter.

Working Population, 1971-81

16.2. There has been steady increase in the number of persons engaged in economically productive activities in the State. Provisional figures of working and non-working population for the 1981 Census are now available. At the 1981 Census the time criterion of engagement in work for the major part of the year i.e. at least 183 days was adopted for 'main worker' while those who worked for some time during the last year but not for the major part were treated as 'marginal workers'. Those who had never worked during the last year were 'non-workers'. Thus the criterion for classification of persons as workers was changed. While in 1961 and 1971 Censuses different approaches, namely, usual status and current status, were adopted with reference period of one year and one week for seasonal and for regular work respectively, at the 1981 Census the usual status approach was adopted uniformly for all work.

16.3 According to 1981 Census there were 48.40 lakh main workers, 6.68 lakh marginal workers and 111.62 lakh non-workers in the State. Females constituted merely 4.99 per cent of the total main workers in the State. However, among marginal

workers, their proportion was very high (71.19 per cent). 71.91 per cent of the main workers lived in the rural areas of the State. The proportion of marginal workers living in the rural areas was higher (82.42 per cent). (See annexure I).

16.4 During the 1971-81 decade there has been 23.70 per cent increase in the number of main workers in the State. The increase was more pronounced in the case of female workers as their number swelled by 226.32 per cent during this period. The number of female agricultural labourers increased by 704.97 per cent in a period of 10 years. On the other hand there was insignificant increase (4.32 per cent) in the number of male cultivators during the past decade. Whereas the percentage of cultivators to total main workers decreased from 42.56 per cent in 1971 to 36.32 per cent in 1981, there was slight increase in the proportion of agricultural labourers from 20.11 per cent to 22.83 per cent during the same period. (See annexure II).

16.5. The 1981 Census has returned work participation rate of 29.03 per cent as against 28.87 per cent of 1971 Census. However, the male work participation rate in 1981 has a marginal decrease from 52.82 per cent (in 1971) to 52.01 per cent. The female work participation rate on the contrary has increased from 1.18 per cent in 1971 to 3.09 per cent in 1981.

Labour Force, 1982-83 :

16.6. 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.

16.7. According to current weekly activity status the size of the labour force (in 15—59 age-group) as on 31st March, 1980 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. Addition in labour force during the year 1982-83 is estimated at 81 thousand persons.

16.8. 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 42.19 lakh as on 31st March, 1983 (See annexure-III).

Working Force, 1982-83

16.9. Estimates of working force for the period 1980—83 are given at annexure-IV. The number of workers (on weekly activity status basis) in the State is expected to increase from 38.90 lakh as on 31st March, 1980 to 41.24 lakh as on 31st March, 1983. However, on daily activity status basis the number of workers is expected to increase from 37.81 lakh as on 31st March, 1980 to 40.09 lakh as on 31st March, 1983. Addition in working force during the year 1982-83 is estimated at 79 thousand and 78 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 under-utilisation or under-employment on an average every week arising out of non-availability of gainful work throughout the week.

Unemployment Estimates, 1982-83.

16.10. Estimates of unemployed persons in age-group 15—59 for the period 1980—83 on the assumption of continuation of the present trends are given at annexure—V. On 31st March, 1980 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 1982-83 their

number is expected to rise to 1.29 lakh and 2.10 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 un-employed are obviously covered in this group) and indicative of the extent of wastage of manpower.

16.11. 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 23.79 thousand as on 31st March, 1983. Though women constituted only 5.1 per cent of the total labour force, their proportion among un-employed was much higher (11.3 per cent). The number of female unemployed was more in the urban areas than in the rural areas.

Educated Unemployment :

16.12. The employment situation has been discussed in the preceding paragraphs in its over all 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 VI) indicate the seriousness and the broad magnitude of the problem of unemployment among educated persons in the State.

16.13. As on 31st December, 1981 there were 86,349 technical personnel and 1,68,476 generally educated (freshers) persons registered with the Employment Exchanges in the State. There was greater increase in unemployment among generally educated persons (8.90 per cent) than among technical personnel (4.04 per cent) during the period of one year ending on 31st December, 1981. Unemployment decreased only in the case of agricultural graduates/post-graduates and trained teachers during this period. However, there was insignificant increase in unemployment among paramedical personnel and engineering graduates. The problem was particularly serious among non-allopathic doctors and non-ITI trained craftsmen as their number on the Live Register increased by 45.03 per cent and 33.07 per cent respectively in one year.

Total Direct Employment Generation

16.14. Earlier the State Planning Department used to collect information regarding additional (direct) employment generated/to be generated under the Plan programmes. However, it was observed that the concept of 'additional employment' was not uniformly interpreted by the State Government departments. Some-times the decrease in employment was also not reflected. It was, therefore, decided to collect the information regarding total (direct) employment generation as relevant to total expenditure incurred/total outlay provided under the Plan programmes. The concept of 'total employment' has helped in getting information both about the increase as well as the decrease in employment. Direct employment estimates given in annexures VII and VIII, therefore, reflect fluctuations in employment in each sector during different Annual Plan periods. The estimates are tentative due to gaps in information. An effort has been made to work out rough estimates to fill up the gaps in information wherever possible.

16.15. According to present estimates, the State Annual Plan, 1982-83 is expected to generate a total of 45.46 million person-days of construction employment and 43,111 person-years of continuing employment. On the other hand the total direct employment to be generated under the Annual Plan, 1981-82 is anticipated at 42.30 million person-days of construction employment and 40,287 person-years of continuing employment. In other words the level of construction employment is expected to be stepped up by 3.16 million person-days under the Annual Plan, 1982-83. Similarly the continuing employment is expected to increase by 2,824 person-years during the next year. As would be seen from annexure VII, Power, Major, Medium and Minor Irrigation and Housing are the major sectors contributing to the growth of direct employment in the construction phase in the State. Sub-heads of development having programmes with significant content of continuing employment are Power, General Education, Medical and Public Health, Road Transport, Agriculture, Animal Husbandry, Cooperation, Industry and Urban Development (See annexure-VIII).

Employment Strategy

16.16. The employment policy of the State Government was spelt out in the State's Sixth

Five Year Plan, 1980-85 Framework. That policy is being vigorously pursued through the Annual Plan Programmes. Under the Annual Plan, 1982-83 efforts would be continued to create not only direct employment opportunities but also to step up the self-employment avenues in village and small industries, agriculture and allied activities and non-farm occupations, particularly for economically weaker sections of society. Growth of employment is primarily viewed as an integral part of the process of economic development in the State. However, after conducting a state-wide survey regarding identification of weaker sections of the society a massive loaning programme to raise the people above the poverty line has been launched in the State. These loans are being advanced by the nationalised banks with the active participation of District Rural Development Agencies, Punjab Scheduled Castes Land Development and Finance Corpn., Punjab Backward Classes Land Development and Finance Corpn. etc. under various employment oriented and income generating schemes.

16.17. As a part of the strategy for promoting self-employment a comprehensive National Scheme of Training Rural Youth for Self-employment (TRYSEM) is being implemented in the Punjab State as in other parts of the country. Besides the Operation-Flood II Dairy Development Project would also benefit the basically milk producing families in the State.

16.18. The State Government is particularly concerned with the problem of growing unemployment among educated persons. It is hoped that with the implementation of Annual Plan, 1982-83 programmes there would be gradual reduction in unemployment. Industrial growth both in the public and private sectors would also help to generate additional jobs for educated persons. The educated youth are expected to take benefit from the self-employment opportunities being offered by the State Government. The District Industries Centres would also be involved in assisting these people to set up self-employment ventures. A Working Group on Scientific and Technical Personnel has been constituted to go into the problem of unemployment among qualified S & T personnel in the State and suggest short term strategy for effectively utilising their services.

ANNEXURE—I

Main Workers, Marginal Workers and Non-Workers classified by Sex and Residence in Punjab, 1981

Residence/Sex	Main Workers	Marginal Workers	Non-workers	Total Population
1	2	3	4	5
Rural—				
Males ..	3336458	140124	2881269	6357851
Females ..	144000	410227	5137182	5691409
Persons ..	3480458	550351	8018451	12049260
Urban—				
Males ..	1261635	52240	1168508	2482383
Females ..	97723	65149	1975240	2138112
Persons ..	1359358	117389	3143748	4620495
Total —				
Males ..	4598093	192364	4049777	8840234
Females ..	241723	475376	7112422	7829521
Persons ..	4839816	667740	11162199	16669755

Source—Census of India, 1981—Series 17—Punjab, Paper-I of 1981—Supplement, Provisional Population Totals

ANNEXURE—II

Distribution of Workers by Cultivators, Agricultural Labourers, Household Industries and other Workers in Punjab

Category	1971			1981*			Increase during 1971—81 decade					
							Total			Percentage increase		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
1	2	3	4	5	6	7	8	9	10	11	12	13
Cultivators ..	1661020 (43.27)	4133 (5.58)	1665153 (42.56)	1732819 (37.69)	25195 (10.42)	1758014 (36.32)	71799	21062	92861	4.32	509.60	5.58
Agricultural Labourers..	778613 (20.29)	8092 (10.92)	786705 (20.11)	1039683 (22.61)	65138 (26.95)	1104821 (22.83)	261070	57046	318116	33.53	704.97	40.44
Household Industries ..	118764 (3.09)	5338 (7.21)	124102 (3.17)	150573 (3.27)	15796 (6.53)	166369 (3.44)	31809	10458	42267	26.78	195.92	34.06
Other Workers ..	1280120 (33.35)	56512 (76.29)	1336632 (34.16)	1675018 (36.43)	135594 (56.10)	1810612 (37.41)	394898	79082	473980	30.85	139.94	35.46
Total Main Workers ..	3838517 (100.00)	74075 (100.00)	3912592 (100.00)	4598093 (100.00)	241723 (100.00)	4839816 (100.00)	759576	167648	927224	19.79	226.32	23.70

Note.—Figures in brackets show percentages to total.

*Source: —Census of India, 1981—Series-17-Punjab, Paper 1 of 1981—Supplement, Provisional Population Totals.

ANNEXURE—III(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 1982-83
	1980	1981	1982	1983	
1	2	3	4	5	6
Rural—					
Males	28.45	29.01	29.58	30.16	0.58
Females	1.23	1.25	1.29	1.31	0.02
Persons	29.68	30.26	30.87	31.47	0.60
Urban—					
Males	9.02	9.81	10.00	10.20	0.20
Females	0.81	0.84	0.85	0.86	0.01
Persons	10.43	10.65	10.85	11.06	0.21
Total—					
Males	38.07	38.82	39.58	40.36	0.78
Females	2.04	2.09	2.14	2.17	0.03
Persons	40.11	40.91	41.72	42.53	0.81

ANNEXURE—III(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 1982-83
	1980	1981	1982	1983	
1	2	3	4	5	6
Rural—					
Males ..	28.25	28.81	29.38	29.95	0.57
Females ..	1.20	1.22	1.24	1.27	0.03
Persons ..	29.45	30.03	30.62	31.22	0.60
Urban—					
Males ..	9.53	9.72	9.92	10.11	0.19
Females ..	0.81	0.82	0.83	0.86	0.03
Persons ..	10.34	10.54	10.75	10.97	0.22
Total—					
Males ..	37.78	38.53	39.30	40.06	0.76
Females ..	2.01	2.04	2.07	2.13	0.06
Persons ..	39.79	40.57	41.37	42.19	0.82

ANNEXURE—IV(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 1982-83
	1980	1981	1982	1983	
1	2	3	4	5	6
Rural—					
Males	27.77	28.31	28.87	29.44	0.57
Females	1.16	1.18	1.21	1.23	0.02
Persons	28.93	29.49	30.08	30.67	0.59
Urban—					
Males	9.29	9.47	9.66	9.85	0.19
Females	0.68	0.70	0.71	0.72	0.01
Persons	9.97	10.17	10.37	10.57	0.20
Total—					
Males	37.06	37.78	38.53	39.29	0.76
Females	1.84	1.88	1.92	1.95	0.03
Persons	38.90	39.66	40.45	41.24	0.79

ANNEXURE—IV (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 1982-83
	1980	1981	1982	1983	
1	2	3	4	5	6
Rural—					
Males	26.90	27.43	27.97	28.52	0.55
Females	1.11	1.13	1.15	1.18	0.03
Persons	28.01	28.56	29.12	29.70	0.58
Urban—					
Males	9.13	9.31	9.50	9.68	0.18
Females	0.67	0.68	0.69	0.71	0.02
Persons	9.80	9.99	10.19	10.39	0.20
Total—					
Males	36.03	36.74	37.47	38.20	0.73
Females	1.78	1.81	1.84	1.89	0.05
Persons	37.81	38.55	39.31	40.09	0.78

ANNEXURE—V(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 1982-83
	1980	1981	1982	1983	
1	2	3	4	5	6
Rural—					
Males ..	68.28	69.62	70.99	72.38	1.39
Females ..	7.27	7.41	7.55	7.71	0.16
Persons ..	75.55	77.03	78.54	80.09	1.55
Urban—					
Males ..	33.05	33.71	34.37	35.04	0.67
Females ..	13.33	13.59	13.86	14.13	0.27
Persons ..	46.38	47.30	48.23	49.17	0.94
Total—					
Males ..	101.33	103.33	105.36	107.42	2.06
Females ..	20.60	21.00	21.41	21.84	0.43
Persons ..	121.93	124.33	126.77	129.26	2.49

ANNEXURE-V (b)

Estimates of Unemployed (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 1982-83
	1980	1981	1982	1983	
1	2	3	4	5	6
Rural—					
Males	135.25	137.91	140.62	143.39	2.77
Females	8.73	8.90	9.07	9.25	0.18
Persons	143.98	146.81	149.69	152.64	2.95
Urban—					
Males	40.38	41.17	41.98	42.81	0.83
Females	13.71	13.98	14.26	14.54	0.28
Persons	54.09	55.15	56.24	57.35	1.11
Total—					
Males	175.63	179.08	182.60	186.20	3.60
Females	22.44	22.88	23.33	23.79	0.46
Persons	198.07	201.96	205.93	209.99	4.06

ANNEXURE—VI

Statement showing the number of work-seekers (categorywise) on the Live Register of Employment Exchanges in Punjab.

Serial No.	Category	Number of work-seekers as on		Percentage increase/decrease during the year
		31st December, 1980	31st December, 1981	
1	2	3	4	5
1	Graduate Engineers	290	294	1.38
2	Diploma Engineers	2,374	2,502	5.39
3	I.T.I. trained Craftsmen	18,756	19,603	4.52
4	Other Craftsmen	7,739	10,298	33.07
5	Allopathic Doctors	64	69	7.81
6	Doctors—Others	302	438	45.03
7	Para-medical Personnel	1,820	1,830	0.55
8	Agricultural Specialists	301	284	(—)5.65
9	Veterinary Graduates	44	30	13.64
10	Dairy Graduates	—	1	—
11	Teachers (B.Ed. & M.Ed.)	18,853	18,661	(—)1.02
12	Teachers (JBT)	9,796	9,790	(—)0.06
13	Teachers—Others	22,655	22,529	(—)0.56
14	Total Technical Personnel Unemployed	82,994	86,349	4.04
15	Graduate freshers	31,296	33,558	7.23
16	Post-Graduate freshers	6,385	6,944	8.75
17	Matriculate and below Graduate freshers	1,17,019	1,27,974	9.36
18	Total Educated unemployed freshers (Matric and above) Total 15 to 17	1,54,700	1,68,476	8.90
19	Live Register other than covered under items 1 to 17 above	2,14,902	2,31,256	7.61
20	Total Live Register	4,52,596	4,86,081	7.40

ANNEXURE—VII

TENTATIVE ESTIMATES OF CONSTRUCTION EMPLOYMENT (LAKH PERSON-DAYS)

Total direct employment generated/to be generated under Annual Plans, 1979-80 to 1982-83 and the Sixth Five-Year Plan 1980—85

Sub-head of Development	1979-80 (Actual)	1980-81 (Actual)	1981-82 (Anticipated)	1982-83 (Target)	1980—85 (Target)*
1	2	3	4	5	6
1. Agriculture ..	0.78	0.48	1.89	2.02	6.89
2. Minor Irrigation ..	32.76	37.54	38.15	60.02	285.35
3. Soil Conservation ..	10.62	5.50	9.37	10.45	84.24
4. Dairying and Milk Supply	0.46	0.74	1.01	1.01	5.88
5. Forests ..	8.79	19.37	18.64	23.68	98.90
6. Community Development and Pauchayats ..	4.84	14.79	20.55	13.21	85.16
7. Co-operation ..	0.46	1.80	4.63	5.10	22.90
8. Irrigation ..	51.10	70.27	91.65	80.13	663.31
9. Anti-Water Logging, Drainage and Flood Control ..	46.49	22.93	20.00	16.00	70.00
10. Power ..	83.09	64.05	99.14	122.39	504.77
11. Roads and Bridges ..	13.65	11.00	11.45	8.58	67.15
12. Tourism ..	0.14	0.82	0.84	1.04	4.85
13. Rural Water Supply ..	4.90	6.24	9.71	9.71	122.86
14. Housing ..	12.16	21.81	68.67	68.67	226.20
15. Urban Development ..	9.60	14.50	14.80	11.02	60.00
16. Public Works ..	18.69	21.27	12.50	21.57	80.28
Total ..	298.53	313.11	423.00	454.60	2388.74

*Aggregate of five years of the Sixth Five-Year Plan.

ANNEXURE—VIII

TENTATIVE ESTIMATES OF CONTINUING EMPLOYMENT (PERSON-YEARS)

Total direct employment generated/to be generated under Annual Plans, 1979-80 to 1982-83 and the Sixth Five-Year Plan 1980—85

Head & Sub-head of Development	1979-80 (Actual)	1980-81 (Actual)	1981-82 (Anticipated)	1982-83 (Target)	1980—85 (Target)*
1	2	3	4	5	6
1. Agriculture and Allied Sectors—					
(i) Agriculture ..	2,191	2,560	2,634	3,027	3,179
(ii) Minor Irrigation ..	600	653	673	693	733
(iii) Soil Conservation ..	887	529	614	845	1,350
(iv) Animal Husbandry ..	754	1,083	2,449	2,591	5,307
(v) Dairying and Milk Supply ..	14	14	60	60	193
(vi) Fisheries ..	96	101	104	120	177
(vii) Forests ..	564	591	646	646	697
(viii) Community Development and Panchayats ..	21	21	21	23	23
Total ..	5,127	5,552	7,201	8,005	11,659
2. Co-operation :					
(i) Co-operation ..	2,218	2,284	2,729	2,759	8,341
Total ..	2,218	2,284	2,729	2,759	8,341
3. Irrigation and Power :					
(i) Irrigation ..	—	—	—	—	—
(ii) Anti-Water Logging, Drainage and Flood Control ..	—	—	—	—	—
(iii) Power ..	8,804	8,747	8,778	9,106	11,387
Total ..	8,804	8,747	8,778	9,106	11,387
4. Industry and Minerals					
(i) Industry and Minerals ..	784	994	1,903	2,069	3,266
Total ..	784	994	1,903	2,069	3,266
5. Transport and Communication :					
(i) Civil Aviation ..	—	2	17	28	28
(ii) Roads and Bridges ..	—	—	—	—	—
(iii) Road Transport ..	619	2,482	3,162	4,056	5,924
(iv) Tourism ..	—	—	30	60	120
Total ..	619	2,484	3,209	4,144	6,072
6. Social and Community Services :					
(i) General Education ..	3,056	5,855	7,576	7,611	8,168
(ii) Technical Education ..	—	—	17	243	811
(iii) Medical and Public Health ..	3,676	5,144	6,468	6,938	7,791
(iv) Rural Water Supply ..	155	91	109	109	312
(v) Housing ..	—	—	—	—	—
(vi) Urban Development ..	1,090	1,640	1,671	1,250	1,000

ANNEXURE—VIII—concl'd.

1	2	3	4	5	6
(vii) Information and Publicity ..	22	34	152	152	195
(viii) Labour and Labour Welfare ..	114	94	338	338	338
(ix) Welfare of Scheduled Castes and Backward Classes	—	—	—	—	—
(x) Social Welfare ..	—	6	6	6	6
Total ..	8,113	12,864	16,337	16,647	18,621
7. Economic Services					
(i) Other General Economic Services ..	10	58	112	250	278
Total ..	10	58	112	250	278
8. General Services					
(i) Printing and Stationery ..	12	13	18	131	173
(ii) Public Works ..	—	—	—	—	—
Total ..	12	13	18	131	173
Grand Total ..	25,687	32,996	40,287	43,111	59,797

*Progressive total to be achieved by the end of the Sixth Five-Year Plan.

CHAPTER XVII

Revised Minimum Needs Programme

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) Houses for homeless labour ;
- (7) Environmental Improvement of Urban slums ;
- (8) Rural Roads ;
- (9) Rural Electrification .

General Education :

17.2 Previously Elementary education (Primary and Middle) was included in the Minimum Needs Programme. Since 1979-80, Adult Education has also been added. An outlay of Rs. 379.41 lakhs has been provided in 1982-83 against the anticipated expenditure of Rs. 348.62 lakhs during 1981-82. The programme-wise details are given below :—

(i) Primary Education (Class I—V) Age-group 6—11:

17.3. During 1981-82 a sum of Rs. 120.00 lakhs was provided under this programme. During 1982-83 an outlay of Rs. 114.40 lakhs has been provided which is inclusive of Rs. 2.50 lakhs for Non-formal education in this age-group. A large number of primary schools are without buildings. A provision of Rs. 100.00 lakhs has been provided for this purpose. During 1980-81 the State had achieved an enrolment of 20.68 lakh children in this age-group. The likely achievement during 1981-82 is 19.75 lakhs children. 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 age group 6-11 who are unable to attend classes due to socio-economic reasons, a scheme was formulated during the Annual Plan 1979-80 for starting 250 part-time non-formal Education Centres. These centres will be continued during the year 1982-83.

(ii) Middle Education (Classes VI—VIII) Age-group 11—14 :

17.4. Under this programme the actual expenditure incurred during 1980-81 was Rs. 144.24 lakhs. During 1981-82 a sum of Rs. 213.02 lakhs was provided. During 1982-83 an outlay of Rs. 256.61 lakhs has been provided which also comprises of Rs. 2.50 lakhs for the Non-formal Education in the age-group 11—14. During 1981-82, a provision of Rs. 77.26 lakhs has been made for the continuance of 146 schools upgraded during 1979-80 and 1980-81. There is a programme to upgrade 60 more new primary schools to middle standard during the current year. A sum of Rs. 128.24 lakhs has been provided in the Annual Plan 1982-83, for these upgraded schools. In this age-group an enrolment of 7.02 lakhs children was achieved by the end of 1980-81. The likely achievement by the end of 1981-82 is 7.50 lakhs children, while the target for 1982-83 is 8.10 lakhs children.

Rural Health Services :

17.5. The major portion of the expenditure on rural health care services (Allopathic) fall 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. 1317.00 lakhs has been provided under R.M.N.P. for the Sixth Five Year Plan. For 1982-83 an outlay of Rs. 341.70 lakhs has been provided against the approved outlay of Rs. 261.55 lakhs during the current year.

17.6. 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 of 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. 5.45 lakhs has been provided for the on-going works during 1982-83.

(ii) Completion and Improvement of Sub-Centres :

17.7. In order to provide basic health services to the rural population, 2593 sub-centres were opened in the State by the end of the year 1979-80. Out of which 1,000 sub-centres were established under M.P.W. Scheme during 1979-80. These 1,000 sub-centres could not be provided with medicines, equipment, staff, etc. During the year 1982-83, 512 sub-centres are proposed to be provided with medicines. For this purpose an outlay of Rs. 11.25 lakhs has been provided for the year 1982-83.

(iii) Opening of Subsidiary Health Centres in Rural Areas :

17.8. The base of the structure is the Subsidiary Health Centre (Rural Dispensary). It has one doctor, one dispensar, 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 providing one such dispensary per 10,000 rural population has already been achieved. 1,296 subsidiary health centres would be established by the end of the year 1981-82. An outlay of Rs. 325.00 lakhs has been provided for the year 1982-83 against the provision of Rs. 222.60 lakhs for the year 1982-83 for the subsidiary health centres opened during 1979-80, 1980-81 and 1981-82. 50 more subsidiary health centres are proposed to be set up during 1982-83.

Rural Water Supply :

17.9. There are 3,712 scarcity villages in the State. Out of these villages, 2,025 villages have been provided piped water supply by the end of 1980-81. In 1976., the criteria were revised to 15 gallons (70 litres) per head per day and a terminal pressure of 8 metres. According to the revised criteria, the augmentation of water supply to the already commissioned villages also requires an additional sum of Rs. 40.00 crores.

Expenditure incurred since 1979-80 is given below :—

Year	Expenditure
	(Rs. in crores)
Upto 1979-80 ..	38.57
During 1980-81 ..	3.36
Total (a) ..	41.93

Expenditure under Accelerated Rural Water Supply Scheme (Government of India Scheme)

Year	Expenditure
Upto 1979-80 ..	3.20
During 1980-81 ..	0.48
Total (b) ..	3.68
Total (a+b)	45.61

Physical progress is given in the following table :—

Year	No. of Villages	
	Commis- sioned	In progress at the end of year
Upto 1979-80 ..	1945	430
During 1980-81 ..	80	444
Total	2025	..

17.10. By March, 1981, water supply was commissioned in 2025 villages a revised a cost of Rs. 45.61 crores. During 1981-82 a revised outlay of Rs. 5.00 crore has been provided to cover 50 additional villages. An outlay of Rs. 5.00 crores has been provided for 1982-83 to commission water supply in additional 70 villages.

Nutrition :

17.11. This programme includes Special Nutrition Programme and Integrated Child Development Services (I.C.D.S.). Under the Special Nutrition Programme nutritional diet is provided at the rate of 30 paise per head per day for 300 days in a year. This programme covers 5 districts of Kapurthala, Hoshiarpur, Gurdaspur, Ferozepur and Faridkot. Under the I.C.D.S. Projects a package of health nutrition is provided to expectant and nursing mothers and pre-school children below six years. These projects are being run in block of Nurpur Badi of Roper District, Nathana of Bhatinda District, Lambi of Faridkot District, Balachaur of Hoshiarpur District, Narot Jaimal Singh of Gurdaspur District and Mangat in Ludhiana 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 met by the Government of India. An outlay of Rs. 16.00 lakhs has been provided to cover 15,000 beneficiaries during 1982-83

Rural Roads :

17.12 Under this programme, the following two schemes are being implemented:—

(i) **Village Link roads.**—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 this period. During 1974—79, the expenditure incurred was Rs. 38.78 crores and during this period 6652 Kms. of road length was completed bringing the total road kilometrage 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 515Kms. 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. In the Annual Plan 1980-81, an expenditure of Rs. 425.54 lakhs was incurred on this programme and during this period 596 Kms. of link roads were constructed. The number of villages not connected by road which stood at 364 as on 31st March, 1980 was reduced to 191 as on 31st March, 1981 by connecting 173 villages during 1980-81. In the Annual Plan 1981-82 an outlay of Rs. 410.00 lakhs has been provided for this purpose. It has been anticipated that 100 Kms. of road length will be added to the village roads net work and surfacing of roads already metalled will also be done. In the Annual Plan 1982-83 a sum of Rs. 407.00 lakhs has provided for this scheme for carrying out this programme.

(ii) **Zila Parishad Roads.**—Under this programme, the Zila Parishad roads have been taken over by the State Government for bringing them upto P.W.D. standard. A sum of Rs. 51.08 lakhs was spent during 1974—79. In the Annual Plan 1979-80, an expenditure of Rs. 23.35 lakhs was incurred on this programme. Provision for carrying out this programme has been made under the programme of village link roads.

Houses for the Rural Homeless :

17.13. The Revised Minimum Needs Programme places a high priority on the provision of house-sites and assistance for the construction of

houses for the rural homeless workers. About 3 lakh families of landless workers mostly belonging to Scheduled Castes were allotted free house sites, each site measuring 100 sq. yards 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 Board during the previous years, progress of construction work was slow. During 1978-79 Rs. 100.00 lakhs were provided to the Housing Development Board for the construction of 5,000 houses. The Board received matching loan assistance of Rs. 100.00 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. 70.00 lakhs was provided for the construction of 3,500 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. 70.00 lakhs from HUDCO during 1979-80 for this purpose.

17.14. A review of the programme of housing for the homeless revealed that there is a need to push up its execution at a faster rate. Accordingly, a sum of Rs. 170.00 lakhs was earmarked for this scheme in 1980-81 against a provision of Rs. 70.00 lakhs in 1979-80. Matching assistance from HUDCO supplemented this amount. With this additional provision and the spill over funds available with Housing Development Board for the construction of houses under this programme, the construction of 9,919 houses (with a revised cost of Rs. 6,500 per house) was completed against the target of 3,389 during 1980-81. With this achievement the entire backlog of the last 3 years was wiped out in a single year. To maintain the tempo of development under this scheme, an outlay of Rs. 285.00 lakhs has been provided during 1981-82. The revised target of construction of 10,000 additional houses during this year is envisaged against the original target of 4,000 house. During 1982-83 an outlay of Rs. 285.00 lakhs has been provided for the construction of 5,400 additional houses and for meeting the repayment liability of HUDCO loan.

Environmental Improvement of slums :

17.15 For environmental improvement of slum such as drinking water, pavement of streets,

pucca drains, street lights, public urinals and latrines, etc. an expenditure of Rs 19.00 lakhs was incurred during 1980-81. For 1981-82, a provision for this purpose has been raised to Rs 80.00 lakhs. The same provision of Rs 80.00 lakhs has been made for 1982-83 for this purpose.

Rural Electrification

17.16. Now that all the 12,126 inhabited villages have been electrified, atleast in a formal sense, next step is to intensify and improve use of power in the rural areas. The most important activities under the programme would be:—

- (i) the energisation of tubewells/pump sets and replace of diesel engines by electric motors;
- (ii) electrification of post-harvest operations and cottage and small industries;
- (iii) more intensive coverage of rural households including Harijan Bastis; and
- (iv) improvement of supply conditions and by augmentation and improvement works.

An outlay of Rs 12.00 crores has been provided for this programme for 1982-83.

Development of Backward Areas—Sub-Plan—1982-83

The Punjab Government declared some areas as backward in 1956. Additions to these areas were made from time to time. These were demarcated into three different regions namely (i) sub-montane areas (ii) border areas and (iii) bet areas. Areas not covered by these categories but otherwise declared backward are known as 'other backward areas.'

18.2. Three separate Advisory Councils each for submontane, border and bet areas have been set up with the Chief Minister as Chairman. The concerned Heads of Departments, Members of the Legislative Assembly and Members of Parliament who represent these areas have been included as members as they have a thorough knowledge of the local conditions and problems prevailing in these areas. The main functions of these Councils are to advise the Government in drawing up schemes for the development of these areas, to undertake area planning and ensure integrated development, to fix the priorities of various works, to coordinate and review the activities of various departments with a view to removing the bottlenecks for speedy implementation of programmes and taking effective measures not only to coordinate various schemes but to cut red tape and to quicken the process of removal of its backwardness.

18.3. As per decision of the Government, 40% of the funds allocated under various divisible plan schemes would be earmarked for backward areas. Allocations for different areas under various schemes vary depending on the nature of the scheme and its utility. Funds earmarked for these areas are not to be diverted without the approval of the Government. The number of villages, area and population category-wise is as below :—

Category	No. of inhabited villages	Area (Hects)	Population (1971)
Sub-montane	1,585	4,55,691	10,09,527
Border	1,746	6,77,057	12,72,612
Bet	1,219	3,73,889	6,43,248
Other backward	1,938	7,74,880	16,64,277
Total	6,488	22,81,517	45,89,664

I. Sub-montane Areas :

18.4. The sub-montane region is the Dera Bassi block of Patiala and all areas lying to the right side of the road from Chandigarh to Pathankot via Ropar, Hoshiarpur and Dasuya. It consists of 1,585 villages with an area of 4,55,691 hectares and 10,09,527 persons live in this region according to the 1971 census.

18.5. Government has decided to allocate 9% fund under divisible Plan Scheme to this area. The actual expenditure incurred in 1980-81 was Rs. 1293.75 lakhs and an expenditure of Rs. 1623.66 lakhs is anticipated during 1981-82. During Annual Plan 1982-83, an amount of Rs. 1460.61 lakhs is proposed to be spent in this region.

II. Border Areas :

18.6. The border belt which is 16 Kms. deep along the inter-national border has 1746 villages spread over an area of 6,77,057 hectares. Its population in 1971 was 12,72,612.

18.7. Government has decided to allocate 15% funds under divisible Plan Schemes to this area. The actual expenditure incurred in 1980-81 was Rs. 1077.71 lakhs and an expenditure of Rs. 831.46 lakhs is anticipated during 1981-82. During Annual Plan 1982-83, an amount of Rs. 816.79 lakhs is proposed to be spent in this region.

III. Bet Areas :

18.8. The areas falling within 5 Kms. from the centre of the bed of each river on either side has been declared as bet areas. It consists of 1219 villages with an area of 3,73,889 hectares populated by 6,43,248 persons according to the 1971 census.

18.9. Government has decided to allocate 4% funds under divisible Plan Schemes to this area. The actual expenditure incurred in 1980-81 was Rs. 516.10 lakhs and an expenditure of Rs. 317.93 lakhs is anticipated during 1981-82. A sum of Rs. 328.88 lakhs is proposed to be spent during Annual Plan 1982-83 in this region.

IV. Other Backward Areas :

18.10. Areas declared backward by the Punjab Government from time to time and not covered by

the aforementioned categories are known as other backward areas, the bulk of which lie in Hoshiarpur and Kapurthala Districts, Nathana sub-tehsil and Mansa Tehsil of Bhatinda District, Sunam Tehsil of Sangrur District and Samana tehsil of Patiala District etc. In all there are 1938 villages with an area of 7,74,880 hectares. The population as per census 1971 was 16,64,277. The development needs of these areas differ from block to block and even from village to village.

18.11. Government has decided to earmark 12% funds under divisible Plan Schemes to these areas. The actual expenditure incurred in 1980-81 was Rs. 934.00 lakhs and an anticipated expenditure of Rs. 1155.58 lakhs during 1981-82. During Annual Plan 1982-83, an amount of Rs. 1153.06 lakhs is proposed to be spent in this region.

Given below is a description of the main programmes of development in these areas during Annual Plan 1982-83 :—

I. Agriculture and Allied Sectors :

18.12. The Department of Agriculture proposes to reclaim Kallar lands by distributing 18500 tonnes of gypsum in sub-montane areas, 31,000 tonnes in border areas, 7800 tonnes in bet areas and 27000 tonnes in other backward areas. The other major programme is ground spraying of crops under which spraying will be done in 12,800 hectares in sub-montane, 20,400 hectares in border, 5400 hectares in bet and 12,400 hectares in other backward areas.

18.13. Department of Horticulture has proposed an allocation of Rs. 31.28 lakhs, Rs. 4.40 lakhs, Rs. 4.90 lakhs and Rs. 14.15 lakhs for the development of Horticulture activities in sub-montane, border, bet and other backward areas of the State respectively during the Annual Plan 1982-83.

18.14. The Soil Conservation Department has formulated exclusive schemes, viz. Soil and water Conservation on Water-shed basis and Pilot Project on development of Kandi areas with World Bank Assistance for sub-montane areas and Soil and Water Conservation Scheme in Border and Bet areas. 3600, 350 and 500 hectares of land is proposed to be covered under various soil conservation measures in sub-montane, border and bet areas respectively during 1982-83.

18.15. The main emphasis of the Department of Animal Husbandry is on the improvement of breed of cows/buffaloes and development of Poultry in sub-montane areas where Rs. 40.41 lakhs under the Kandi Water shed and Area Development Project are proposed to be earmarked. In bet areas, there are also three exclusive schemes namely, Expansion of Government Holstein Friesian Cattle Breeding Farm Mattewara (Rs. 4.05 lakhs), setting up of Bull stations-cum-Semen Banks and L.N. Plants (Rs. 21.80 lakhs) and Expansion of Government Sheep Breeding Farm Mattewara (Rs. 2.00 lakhs).

18.16. The whole amount of Rs. 32.50 lakhs under divisible Plan allocation under Dairying and Milk Supply is proposed to be earmarked for different backward areas. Work on construction and installation of machinery in 2 Milk Chilling Centres each in sub-montane, bet and other backward areas and 3 milk Chilling Centres in Border area is propose to be continued.

18.17. For augmenting fish production, a sum of Rs. 10.10 lakhs in sub-montane and Rs. 5.00 lakhs in border areas is proposed to be earmarked under different schemes during the Annual Plan 1982-83.

18.18. The Forest Department proposes to develop forests in 3849, 676, 397, and 827 hectares of land in sub-montane, border, bet and other backward areas respectively. Under the scheme, 'Farm Forestry' 6.00, 16.78, 6.35 and 22.00 lakhs plant are proposed to be planted in sub-montane, border, bet and other backward areas respectively.

18.19. Under the scheme Pavement of Streets and Construction of Drains and Assistance to Panchayats for expenditure on Panchayat Works (Panchayat Ghars) 45 villages in sub-montane, 75 villages in Border, 20 villages in bet and 60 villages in other backward areas are proposed to be covered during 1982-83.

II. Co-operation :

18.20. The Co-operation Department proposes to assist Co-operative Societies/Banks and construct godowns during the Annual Plan 1982-83 for which provision of Rs. 19.06 lakhs, Rs. 64.77 lakhs, Rs. 8.47 lakhs and Rs. 51.82 lakhs under various schemes is proposed to be made in sub-montane, border, bet and other backward areas respectively.

III. Irrigation and Power :

18.21. For construction of check Dams on Choes, a sum of Rs. 685.00 lakhs is proposed to be spent in sub-montane areas. Similarly, Rs. 400.00 lakhs are proposed to be spent for Expansion and Improvement of Shah Nahar Canal System in other backward areas during Annual Plan 1982-83. In addition to this some projects like Thein Dam are also coming up in sub-montane areas and they will also play their own role in creating some economic activity in that area.

Under various Flood Control, Drainage and Anti-Water Logging Schemes, it is proposed to spend Rs. 50.00 lakhs in sub-montane areas of the State.

18.22. The Punjab State Electricity Board (P.S.E.B.) proposes to give connections to 820, 218 and 659 tubewells in border, bet and other backward areas respectively. General connections and Small Industrial connections are also proposed to be given in all backward areas of the State.

IV. Industries :

18.23. For promoting small industries and handicrafts, the Department of Industries proposes to allocate Rs. 12.28 lakhs to different backward areas out of the total divisible Plan outlay of Rs. 38.70 lakhs. The industries most likely to be benefitted by the various incentives proposed to be provided by the Department are Sericulture, Handloom, Handicrafts and Weaving which are the main stay of the poor artisans living in the rural areas.

V. Transport and Communications :

18.24. For providing link roads in backward areas, the B. & R. Department proposes to allocate Rs. 37.00 lakhs in sub-montane, Rs. 61.00 lakhs in border, Rs. 41.00 lakhs in bet and Rs. 49.00 lakhs in other backward areas during the Annual Plan 1982-83.

The Pepsu Road Transport Corporation (PRTC) is expected to provide additional kilometrage of 22.56 lakhs to different backward areas in the State during 1982-83 on new route permits and extension of existing route permits.

VI. Social and Community Services :

18.25. For expanding educational facilities in the backward areas, the Department of Education

proposes to allocate Rs. 58.25 lakhs in sub-montane, Rs. 97.09 lakhs in border, Rs. 25.89 lakhs in bet and Rs. 77.64 lakhs in other backward areas during the Annual Plan 1982-83. The main programmes included in the sub-Plan are improvement of primary education, upgrading of Government Primary Schools to Middle Standard and of upgrading of Government Middle Schools to High Standard.

18.26. For providing better health facilities in the backward areas, the department proposes to earmark Rs. 48.21 lakhs in sub-montane areas, Rs. 81.68 lakhs in border areas, Rs. 22.20 lakhs in bet areas and Rs. 66.22 lakhs in other backward areas. The amount is proposed to be expended on schemes like Establishment of 25 Bedded Block Rural Hospitals, opening of Subsidiary Health Centres in rural areas, National Malaria Eradication Programme (Rural), and opening of I.S.M and Homoeopathic Dispensaries.

18.27. Out of Divisible Plan outlay of Rs. 500.00 lakhs, Rs. 163.44 lakhs have been earmarked for providing drinking water facilities to 35 scarcity villages in different backward areas of the State.

18.28. The Housing Department proposes to construct 10 houses in sub-montane areas, 17 in border areas, 5 in bet areas and 14 in other backward areas during 1982-83 under Low Income Group Housing scheme, Middle Income Group Housing Scheme and Village Housing Project Scheme.

18.29. The Welfare of Scheduled Castes and Backward Classes Department has proposed an outlay of Rs. 22.08 lakhs in sub-montane areas, Rs. 39.80 lakhs in border areas, Rs. 9.82 lakhs in bet areas and Rs. 29.45 lakhs in other backward areas during 1982-83. The main schemes proposed to be implemented are land purchase scheme, Dharmshala scheme, Environmental improvement of Harijan Bastis and Construction of Houses for Sweepers and Vimukat Jatis.

18.30. Summary of Head-wise allotment during Annual Plan 1982-83 is given at Annexure-I. Schemewise allocation, both financial and physical under divisible plan schemes for different backward areas during Annual Plan 1982-83 is given in Annexure-II.

ANNEXURE-I

Allocation under different Heads of Development for Backward Areas of Punjab during Annual Plan 1982-83

(Rs in lakhs)

Serial No.	Sector of Development	Divisible State Plan Outlay	Flow to				Total	Remarks
			Sub-Montane	Border	Bet	Othe Backward		
1	2	3	4	5	6	7	8	9
1	Agriculture and Allied Sectors							
	(i) Agriculture	500.00	45.54 (9.11)	75.40 (15.08)	19.99 (4.00)	60.72 (12.14)	201.65 (40.33)	
	(ii) Horticulture	74.95	31.28 (41.73)	4.40 (5.87)	4.90 (6.54)	14.15 (18.88)	54.73 (73.02)	
	Sub-Total	574.95	76.82 (13.36)	79.80 (13.88)	24.89 (4.33)	74.87 (13.02)	256.38 (44.59)	
2	Soil Conservation	134.66	118.16 (87.74)	10.00 (7.43)	4.00 (2.97)	..	132.16 (98.14)	
3	Animal Husbandry	112.12	49.31 (43.98)	9.80 (8.74)	34.71 (30.96)	2.05 (1.83)	95.87 (85.51)	
4	Dairying and Milk Supply	32.50	4.50 (13.85)	17.95 (55.23)	4.00 (12.31)	6.05 (18.61)	32.50 (100.00)	
5	Fisheries	22.60	10.10 (44.69)	5.00 (22.12)	..	..	15.10 (66.81)	
6	Forest	338.00	116.06 (34.34)	20.87 (6.17)	62.06 (18.36)	24.40 (7.22)	223.39 (66.09)	
7	Community Development and Panchayats	386.50	34.79 (9.00)	57.97 (15.00)	15.46 (4.00)	46.38 (12.00)	154.60 (40.00)	
	Total	1601.33	409.74 (25.59)	201.39 (12.58)	145.12 (9.06)	153.75 (9.60)	910.00 (56.83)	
II	Co-operation	443.50	19.06 (4.30)	64.77 (14.60)	8.47 (1.91)	51.82 (11.69)	144.12 (32.50)	
III	Irrigation & Power							
	(i) Irrigation	1085.00	685.00 (63.13)	..	..	400.00 (36.87)	1085.00 (100.00)	
	(ii) Flood Control	50.00	50.00 (100.00)	..	..	..	50.00 (100.00)	
	(iii) Power	1301.00	65.70 (5.05)	195.15 (15.00)	52.08 (4.00)	156.12 (12.00)	469.05 (36.05)	
	Total	2436.00	800.70 (32.87)	195.15 (8.01)	52.08 (2.14)	556.12 (22.83)	1604.05 (65.85)	
IV	Industries	38.70	2.90 (7.49)	2.84 (7.34)	0.10 (0.26)	6.44 (16.64)	12.28 (31.73)	
V	Transport & Communications							
	(1) Roads and Bridges	407.00	37.00 (9.09)	61.00 (14.99)	41.00 (10.07)	49.00 (12.04)	188.00 (46.19)	
	(2) Road Transport—							
	(i) P.R.T.C.	389.80	35.08 (9.00)	58.47 (15.00)	15.59 (4.00)	46.78 (12.00)	155.92 (40.00)	
	(ii) Punjab Roadways	..	..	..	..	..	..
	Total	796.80	72.08 (9.05)	119.47 (14.99)	56.59 (7.10)	95.78 (12.02)	343.92 (43.16)	

Serial No	Sector of Development	Divisible State Plan Outlay	Flow to				Total	Remarks
			Sub-Montane	Border	Bet	Other Backward		
1	2	3	4	5	6	7	8	9
VI Social & Community Services								
(1) General Education								
	(i) Primary	5.40 (9.26)	0.50 (9.26)	0.81 (15.00)	0.22 (4.08)	0.65 (12.03)	2.18 (40.37)	
	(ii) Schools	641.65 (9.00)	57.75 (9.00)	96.28 (15.00)	25.67 (4.00)	76.99 (12.00)	256.69 (40.00)	
	Sub-Total	647.05 (9.00)	58.25 (9.00)	97.09 (15.00)	25.89 (4.00)	77.64 (12.00)	258.87 (40.00)	
	(2) Health	543.10 (8.88)	48.21 (8.88)	81.68 (15.03)	22.20 (4.09)	66.22 (12.20)	218.31 (40.20)	
	(3) Rural Water Supply	500.00 (5.37)	26.87 (5.37)	13.40 (2.68)	8.29 (1.66)	114.88 (22.98)	163.44 (32.69)	
	(4) Housing	8.00 (9.00)	0.72 (9.00)	1.20 (15.00)	0.32 (4.00)	0.96 (12.00)	3.20 (40.00)	
	(5) Welfare of Scheduled Castes and Backward Classes	246.60 (8.96)	22.08 (8.96)	39.80 (16.14)	9.82 (3.98)	29.45 (11.94)	101.15 (41.02)	
	Total	1944.75 (8.43)	156.13 (8.43)	233.17 (11.99)	66.52 (3.42)	289.15 (14.87)	744.97 (38.31)	
	Grand Total	7261.08 (20.11)	1460.61 (20.11)	816.79 (11.25)	328.88 (4.53)	1159.06 (15.88)	3759.34 (51.77)	

Note : Figures in brackets are percentages to Divisible Plan Outlay (Col. 3).

ANNEXURE-II

Schemewise allocation/Physical Targets for Backward Areas of Puhjab during Annual Plan 1982-83

(Rs. in lakhs)

Serial No.	Name of the Scheme	State Plan Divisible outlay	Flow to				Unit	Physical Targets			
			Sub-Mon-tane	Border	Bet	Other Back-ward		Sub-Mon-tane	Border	Bet	Other Back-ward.
1	2	3	4	5	6	7	8	9	10	11	12
I AGRICULTURE AND ALLIED SECTORS :											
1. (i) Agriculture											
A(P) 5.2	Demonstration on Kallar reclamatin and Reclamation of Kallar lands in Punjab	400.00	36.00	60.00	16.00	48.00	Gypsum	18500	31000	7800	27000
							M.T.				
A(P) 9.1	Ground Spraying of Crops/ Mobile Ground Spray Units	90.00	8.64	14.40	3.84	11.52	000' Hects.	12.80	20.40	5.40	12.40
A(P) 9.3	Intensification of Plant Protection Work	10.00	0.90	1.00	0.15	1.20	000' Hects	425	360	125	320
	Sub-total	500.00	45.54	75.40	19.99	60.72					
(ii) Horticulture											
A(P) 19.1	Development of Horticulture and setting up of garden and nurseries on the seed farms.	42.50	19.00	1.00	1.50	2.10	Hects.	1200	80	150	350
A(P) 19.2	Development of Horticulture in Kandi Area Watershed	8.63	8.63	..	..	..	Hects.	150	..	..	..
A(P) 20.1	Production and multiplication of Potato Seed-Development of vegetables and grant of cold storages	7.00	..	..	..	7.00	Hects.	..	..	..	10000
A(P) 21.1	Demonstration-cum-Fruit Preservation Labs. and Community Canning Centres	7.37	2.25	2.50	..	1.75	Fruit Kg.	130	1000	..	1000
A(P) 23.1	Subsidizing the rate of interest on Horticulture loan from Commercial Banks	2.00	0.40	0.40	0.40	0.80	..	..	..	..	..
A(P) 23.2	Cultivation of mushroom, aromatic and medicinal plants.	3.00	0.50	0.50	1.00	1.00	Hects.	5	5	5	5
A(P) 23.3	Beutification of Public places	4.45	0.50	..	2.00	1.50	..	..	..	..	..
	Sub-Total	74.95	31.28	4.40	4.90	14.15					

Serial No.	Name of the Scheme	State Plan Divisible Outlay	Flow to				Unit	Physical Targets			
			Sub-Mon-tane	Border	Bet	Other Back-war		Sub-Mon-tane	Border	Bet	Other Back-ward
1	2	3	4	5	6	7	8	9	10	11	12
2. SOIL CONSERVATION :											
SC(A) 3.1	Soil and Water Conservation on watershed basis	56.16	56.16	—	—	—	Hects. 2000	—	—	—	—
SC(A) 3.2	Pilot Project on Development of Kandi Area with World Bank Assistance	62.00	62.00	—	—	—	Hects. 1600	—	—	—	—
SC(A) 3.3.	Soil and Water Conservation Programme in other areas of the State	16.50	..	10.00	4.00	—	Hects.	—	350	500	—
Sub-Total		134.66	118.16	10.00	4.00	..					
3. Animal Husbandry											
AH 2.1	Opening of new Veterinary Dispensaries and strengthening and improvement of existing ones.	15.00	1.35	2.55	1.01	1.35	Dispensaries (No.) (New) (contd.)	—	—	—	—
								9	17	7	9
AH 2.2	Upgrading of Veterinary Dispensaries units into Hospitals	2.35	0.35	0.35	0.35	0.35	Hospitals (New) (Contd.)	1	1	1	1
								1	1	1	1
AH 5.5.	Expansion of Government Holstein Friesian Cattel Breeding Farm, Mattewara	4.05	—	—	4.05	—	Expansion of Farm (No.)	—	—	1	—
AH 5.6	Setting up of Bull Stations-cum-Semen Banks & L.N. Plants	21.80	—	—	21.80	—	Bull Station	—	—	1	—
AH 6.1	Additional production of day old pullets at State Poultry Farms	5.00	—	3.00	—	—	Expansion of Farm. (No.)	—	1	—	—
AH.7.2	Supply of exotic/ Cross-bred rams for cross-breeding at Sheep and Extension Centres and to bonafide Sheep breeders.	1.10	—	0.30	..	0.35	Units of 7 Corriedale rams (Nos.)	—	2	—	—
AH 7.5	Expansion of Government Sheep Breeding Farms, Mattewara	2.00	—	—	2.00	—	Farm expansion	—	—	1	1

Serial No.	Name of the Scheme	State Plan Divisible outlay	Flow to				Unit	Physical Targets			
			Sub-Montane	Border	Bet	Other Backward		Sub-Montane	Border	Bet	Other Backward
1	2	3	4	5	6	7	8	9	10	11	12
AH 8.1.	Expansion of Pig Breeding Farms/Units	4.00	2.00	—	—	—	Farm Expansion	1	—	—	—
AH 8.2	Establishment of Pig Breeding Farms,	7.60	—	3.60	4.00	—	Pig Farm (Nos.)	—	1	1	—
AH 8.3.	Establishment of Fattening Units at the Pig Breeding Farm, Kharar	2.20	2.20	—	—	—	Fattening Unit (No.)	1	—	—	—
AH 9.2	Kandi Watershed and Area Development Project, Livestock Development Programme	40.41	40.41	—	—	—	(i) Cross-Bred Heifers/Cows/Bufs	500	—	—	—
AH 9.6	Establishment of Mule Breeding Centres	3.00	3.00	—	—	—	Mule Breeding Centres	8	—	—	—
AH 10.1.	Intensification of existing Forage Planting Material Production Farms.	3.61	—	—	1.50	—	(i) Reclamation of additional land (acres) (ii) Fodder seed (quintals)	—	—	10	—
	Sub-Total	112.12	49.31	9.80	34.71	2.05					

4. DAIRYING AND MILK SUPPLY

DM 2.6	Establishment of Milk Chilling-cum-Demonstration Centres in the border, sub-montane, bet and backward areas of the State	32.50	4.50	17.95	4.00	6.05	Milk Chilling Centres	2	3	2	2
	Sub Total	32.50	4.50	17.95	4.00	6.05					

5. FISHERIES

FH 3.1	Completion of Fish Seed Nurseries/Farms and construction of fish seed farms in the remaining districts.	0.50	—	0.50	—	—	Estt. of Fish seed Nurseries.	—	1	—	—
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Serial No	Name of the Scheme	State Plan Divisible Out lay	Flow to				Unit	Physical Targets			
			Sub-Montane	Border	Bet	Other Backward		Sub-Montane	Border	Bet	Other Backward
1	2	3	4	5	6	7	8	9	10	11	12
FH 3.2	Fish Culture in Shahnehar Reservoir	0.10	0.10	..	..	..	Estt. of fish seed farms.	1	—	—	—
FH 3.4	Development of Fisheries in Kandi Watershed and Area Development Project (World Bank Assisted)	10.00	10.00	—	—	—	Do	2	—	—	—
FH 6.1	Promotion of Intensive Fish Culture by providing assistance to Private/ Co-op. Sector.	4.00	—	0.50	—	—	Area to be renovated/ Excavated (Hect.)	—	10	—	—
FH 6.3	Assistance to Fish Farmers Development Agency, Gurdaspur, Jullundur, Amrits and Ludhiana	8.00	—	4.00	—	—	Area to be brought under Fish Culture (Hect.)	—	200	—	—
Sub-Total		22.60	10.10	5.00	..	..			
C. FORESTS											
FT 3.1	Raising of Industrial Plantations On Community lands	8.00	0.80	0.40	0.30	0.80	Hects.	8	20	15	40
FT 3.2	Raising of Fuelwood Plantations (Centrally Sponsored)	35.00	0.65	11.00	6.00	3.50	Hects.	25	500	250	175
FT 3.3	Plantation of Sissoo, Babul, Eucalyptus, Chil/ Poplar etc.	90.00	7.00	3.00	3.00	12.00	Hects.	250	150	130	600
FT 3.4	Soil Water and Tree Conservation in Himalayas (Centrally Sponsored)	25.00	25.00	—	—	—	Hects.	1250	—	—	—
FT 3.6	Environmental Forestry	5.00	0.11	0.07	0.21	0.30	Hects.	16	6	2	12
FT 3.7	Farm Forestry	16.00	2.00	1.40	0.85	1.80	No. of Plants (lakhs)	1.50	1.78	1.25	4.00
FT 5.2	Establishment of Zoological Park at Chhat Bir	50.00	—	—	50.00	—	—	—	—	—	—
SC(F) 1	Soil and Water Conservation on watershed basis in Kandi Areas	79.00	79.00	—	—	—	Hect.	2300	—	—	—
NREP 1.1	Farm Forestry	30.00	1.50	5.00	1.70	6.00	No. of plants lakhs	4.50	15.00	5.10	18.00
Sub-Total		338.00	116.06	20.87	62.06	24.40					

Serial No.	Name of Scheme	State Plan Divisible Outlay	Flow to				Unit	Physical Targets			
			Sub-Montane	Border	Bet	Other Backward		Sub-Montane	Border	Bet	Other Backward
1	2	3	4	5	6	7	8	9	10	11	12
7. Community Development and Panchayats :											
CD 3.1	Financial Assistance to Panchayats/Panchayat Centres and Zila Parishads for expenditure on Revenue Earning Schemes	36.50	3.29	5.47	1.46	4.38	Panchayats	14	22	6	18
CD 3.3	Pavement of streets and construction of drains including NREP	330.00	29.70	49.50	13.20	39.60	Villages	24	41	11	32
CD 3.4	Assistance to Panchayats for expenditure on Panchayat Works (Panchayat Ghars/Community Halls)	20.00	1.80	3.00	0.80	2.40	Villages	7	12	3	10
Sub-Total		386.50	34.79	57.97	15.46	46.38					
II. Cooperation :											
CN 2.2	Assistance to Cooperative Primary Agricultural Service Societies for construction of godowns	111.84	10.06	16.77	4.47	13.42	No.	35	10	8	62
CN 2.3	Share Capital Contribution to—										
	(ii) Central Cooperative Banks	5.00	0.45	0.75	0.20	0.60	No.	1	1	1	1
	(v) Primary Cooperative Land Mortgage Banks	8.00	0.72	1.20	0.32	0.96	No.	2	1	1	2
	(vi) Primary Agriculture Service Societies	72.00	6.48	10.80	2.88	8.64	No.	82	36	9	45
CN 2.7	Assistance to Central Co-operative Banks for Agricultural Stabilisation Fund	5.00	0.45	0.75	0.20	0.60	No.	1	1	1	1
CN 2.8	Assistance to Primary Agricultural Service Societies as bad debt reserves (risk fund)	10.00	0.90	1.50	0.40	1.20	No.	25	45	2	40
CH 6.1	Assistance to Agricultural Processing Units other than Sugar Mills (by Spinfed).	231.66	—	33.00	—	26.40	No.	—	1	—	2
Sub-Total		443.50	19.06	64.77	8.47	51.82					

Serial No.	Name of the Scheme	State Plan Divisible Outlay	Flow to				Unit	Physical Targets			
			Sub-Montane	Border	Bet	Other Backward		Sub-Montane	Border	Bet	Other Backward
1	2	3	4	5	6	7	8	9	10	11	12
III. Irrigation and Power :											
1. Irrigation :											
	Dholbaha Dam	200.00	200.00	—	—	—	—	—	—	—	—
	Diversion Weir of Shahnehar*	283.00	283.00	—	—	—	—	—	—	—	—
	Low Dams in Kandi Area	100.00	100.00	—	—	—	—	—	—	—	—
	Extension of Kandi Canal Reoriented with light Irrigation Schemes	102.00	102.00	—	—	—	—	—	—	—	—
	Extension and Improvement of Shahnehar Canal Systems *	400.00	—	—	—	400.00	—	—	—	—	—
	Sub-Total	1085.00	685.00	—	—	400.00	—	—	—	—	—
2. Flood Control :											
	Dholbaha Dam (Protection Work Kandi Watershed area Development Component)	50.00	50.00	—	—	—	New Embankment (Km.) Raising and Strengthening of Embankment (Km.)	1.00	—	—	—
								8.00	—	—	—
3. Power :											
1. Normal Development—											
	(i) General Connections	730.00	65.70	109.50	29.20	87.60	No.	8190	13650	3640	10920
	(ii) Industrial Connections						No.	243	405	108	324
2. Rural Electrification Normal State Plan (Tubewells)											
		571.00	—	85.65	22.88	68.52	No.	—	820	218	656
	Sub-Total	1301.00	65.70	195.15	52.08	156.12					
IV. Industries :											
IN 4.6	Seven New Industrial-cum-Service Centres	10.00	—	2.50	—	2.50	Nos.	—	2	—	2
IN 4.7	Five New Quality Marketing Centres	2.00	—	—	—	1.00	Nos.	—	—	—	1
IN 6.1	Programme for the Development of Handloom Textile Industries	20.00	0.20	0.34	0.10	2.28	Nos.	12	19	6	16
IN 8.1	Development of Handicraft Industries	4.00	—	—	—	0.66	Nos.	—	—	—	—
IN 9.1	Development of Sericulture Industries	2.70	2.70	—	—	—	Parties	20	—	—	—
	Sub-Total	38.70	2.90	2.84	0.10	6.44					

Serial No.	Name of the Scheme	State Plan Divisible Outlay	Flow to				Unit	Physical Targets			
			Sub-Montane	Border	Bet	Other Backward		Sub-Montane	Border	Bet	Other Backward
1	2	3	4	5	6	7	8	9	10	11	12
V. Transport and Communications :											
1. Roads and Bridges :											
RD 3.1	Village Roads ..	407.00	37.00	61.00	41.00	49.00	Kms	24	41	28	33
	Sub-Total ..	407.00	37.00	61.00	41.00	49.00					
2. Road Transport :											
	(i) P.R.T.C. ..	389.80	35.08	58.47	15.59	46.78	Kms. in lakhs	5.07	8.48	2.25	6.76
	(ii) Punjab Roadways ..	—	—	—	—	—					
	Sub-Total ..	389.80	35.08	58.47	15.59	46.78					
VI. Social and Community Services											
1. General Education—											
(i) Elementary Education Classes I—V											
ED 1.1	Expansion of facilities for full time schools—										
	(a) Opening of Single Teacher Primary Schools ..	2.00	0.18	0.30	0.08	0.24					
	(c) Improvement of Primary Schools ..	2.20	0.21	0.33	0.09	0.26					
	(d) Lavatories and drinking water facilities ..	0.80	0.07	0.12	0.03	0.10					
	(e) Library Services ..	0.40	0.04	0.06	0.02	0.05					
	Sub-Total ..	5.40	0.50	0.81	0.22	0.65					
(ii) Middle School Education (Class VI to VIII)											
ED 2.1	Expansion of facilities for full time Schools										
	(b) Upgradation of Government Primary Schools to Middle Standard ..	130.44	11.74	19.57	5.22	15.65					
	(c) Posts of PTIs for Government Middle Schools and Middle Department of High/Higher Secondary Schools ..	19.92	1.79	2.99	0.80	2.39					
	(d) Additional posts of masters/mistresses on account of additional enrolment ..	70.20	6.32	10.53	2.81	8.42					

Serial No.	Name of the Scheme	State Plan Divisible Outlay	Flow to				Unit	Physical Targets			
			Sub-Montane	Border	Bet	Other Backward		Sub-Montane	Border	Bet	Other Backward
1	2	3	4	5	6	7	8	9	10	11	12
ED 2.2	Non-Formal Education ..	2.50	0.23	0.38	0.10	0.30	—	—	—	—	—
ED 2.5	Qualitative Improvements—										
	(ii) Strengthening of Science Education—										
	(a) Additional post of Science Master/Mistresses	25.92	2.33	3.89	1.04	3.11	—	—	—	—	—
	(iii) Introduction of Domestic Science in Government Middle Schools and Middle Departments of High/Higher Secondary Schools	0.86	0.08	0.13	0.03	0.10	—	—	—	—	—
	(iii) Secondary Education (High/Higher Secondary Schools):										
ED 3.1	Upgradation of Government Middle Schools to High Standard ..	268.89	24.20	40.33	10.76	32.27	—	—	—	—	—
ED 3.4	Improvement of Programme—										
	(i) Strengthening of Science Education—										
	(b) Creation of posts of Laboratory Attendants	15.12	1.36	2.27	0.60	1.81	—	—	—	—	—
	(ii) Work Experience (Vocationalisation of Education at Secondary Stage)	76.34	6.87	11.45	3.05	9.16	—	—	—	—	—
	(iii) Other Improvement in (Schools)										
	(a) Introduction of Library Science in Government High/Higher Secondary Schools	7.92	0.71	1.19	0.32	0.95	—	—	—	—	—
	(iv) Diversification of Courses—										
	(a) Introduction of Home Science in Government High/Higher Secondary Schools	1.11	0.10	0.17	0.04	0.13	—	—	—	—	—
	(b) Introduction of the subject of Music	1.83	0.17	0.29	0.08	0.23	—	—	—	—	—
ED 6.2	Creation of posts of DPES'	20.60	1.85	3.09	0.82	2.47	—	—	—	—	—
	Sub-Total ..	641.65	57.75	96.28	25.67	76.99	—	—	—	—	—

((Rs in lakhs)

Serial No	Name of the Scheme	State Plan Divisible Outlay	Flow to				Unit	Physical Targets			
			Sub-Montane	Border	Bet	Other Back-Ward		Sub-Montane	Border	Bet	Other Back-ward
1	2	3	4	5	6	7	8	9	10	11	12
2. Health											
PH 1.1	Completion and Improvement of Primary Health Centres	5.45	0.49	0.82	0.22	0.65	—	—	—	—	—
PH 1.2	Completion and Improvement of Sub-Centres	11.25	1.01	1.69	0.45	1.35	—	—	—	—	—
PH 1.3	Opening of Subsidiary Health Centres in Rural Areas	325.00	29.25	48.75	13.00	39.00	No.	5	8	2	6
PH 2.1	Establishment of 25 bedded Block level Hospitals	50.00	4.50	7.50	2.00	6.00	—	—	—	—	—
PH 2.2	Establishment of Dental Clinics	8.50	0.76	1.27	0.34	1.02	—	—	—	—	—
H 3.1	Opening of new dispensaries in Slum Areas/suitable urban places	12.00	1.08	1.80	0.48	1.44	—	—	—	—	—
H 3.3	Provincialisation of Local Bodies Hospitals/Dispensaries	11.50	1.01	1.72	0.46	1.38	—	—	—	—	—
H 3.4	Upgradation of existing Hospitals	25.00	2.25	3.75	1.00	3.00	—	—	—	—	—
H 4.1	National Malaria Eradication Programme (Rural)	60.00	5.40	9.00	2.40	7.20	—	—	—	—	—
H 4.3	National T.B. Control Programme	7.00	0.63	1.05	0.28	0.84	Microscopy Centres in PHC	24	33	9	27
H 5.2	Strengthening of State Health and District Laboratories	0.75	0.07	0.11	0.03	0.09	—	—	—	—	—
H 5.10	Hospital Treatment of Diarrhoea diseases by Oral Rehydration Therapy	1.50	0.13	0.20	0.06	0.18	—	—	—	—	—
Y 1.1	Strengthening of existing I.S.M. Dispensaries	1.00	0.10	0.10	0.05	0.15	Nos.	1	2	1	2
Y 1.2	Opening of I.S.M. Dispensaries	18.75	1.41	3.48	1.11	3.48	Nos.	3	4	1	4
IM 1.2	Opening of Homoeopathy Dispensaries	5.40	0.12	0.44	0.32	0.44	Nos.	1	1	1	1
	Sub-Total	543.10	48.21	81.68	22.20	66.22	—	—	—	—	—
3	Rural Water Supply	500.00	26.87	13.40	8.29	114.88	Village	8	4	4	19
	Sub-Total	500.00	26.87	13.40	8.29	14.88	—	—	—	—	—

Serial No	Name of the Scheme	State Plan Divisible Outlay	Flow to				Unit	Physical Targets			
			Sub-Montane	Border	Bet	Other Backward		Sub-Montane Rs.	Border	Bst	Other Backward
1	2	3	4	5	6	7	8	9	10	11	12
4. Housing											
HG 2.3	Loans for Low Income Group Houses ..	3.00	0.27	0.45	0.12	0.36	Loanee	5	9	2	7
HG 2.6	Middle Income Group Houses ..	3.00	0.27	0.45	0.12	0.36	do	1	2	1	2
HG 2.7 ..	Village Housing Project Scheme ..	2.00	0.18	0.30	0.08	0.24	do	4	6	2	5
	Sub-Total ..	8.00	0.72	1.20	0.32	0.96		—	—	—	—
5. Welfare of Scheduled Castes and Backward Classes											
SC 2.1	Subsidy for the purchase of agricultural land ..	12.40	1.11	1.85	0.50	1.49	Beneficiaries	18	30	8	24
S.C. 3.2	Construction of Dharmshalas/Chauplas ..	45.00	4.05	9.75	1.80	5.40	Project	40	97	18	54
SC 3.3	Environmental improvement of Harijan Basties including drinking Water units ..	106.20	9.45	15.75	4.20	12.60	do	50	90	40	65
SC 3.4	Construction of houses for scavengers' flayers and tanners ..	38.00	3.42	5.70	1.52	4.56	Families	171	285	76	228
SC 3.5	Assistance to Scheduled Castes for development of manurial pits ..	25.00	2.25	3.75	1.00	3.00	do	450	750	200	600
SC 4.1 ..	Construction of houses for vimukat jaties ..	20.00	1.80	3.00	0.80	2.40	do	90	150	40	120
	Sub-Total ..	246.60	22.08	39.80	9.82	29.45		—	—	—	—

CHAPTER XIX

Special Component Plan for Scheduled Castes

The Special Component Plan for Scheduled Castes consists of those programmes and schemes of the general sectors of development which can be identified and quantified for the benefit of scheduled castes. In Punjab, the scheduled castes constitute about 25% of the total population of the State. Other characteristics of this population are given below:—

(a) Population of Scheduled Castes (1971 Census)	33.48 lakhs
(b) Literacy rate	16%
Male	22.94%
Female	.. 8.10%
(c) Occupational classification— (Percentage)	
(i) Cultivators	.. 10.66
(ii) Agricultural Labour	.. 57.99
(iii) Engaged in livestock, forest, fisheries plantation and other activities	.. 1.78
(iv) Mining and quarrying	.. —
(v) Manufacturing, processing and repair	.. 11.29
(vi) Constructions	2.30
(vii) Trade and Commerce	.. 2.19
(viii) Transport and Communi- cation	2.61
(ix) Other Services	11.18

19.2. The strategy has been to identify the scheduled castes households in the poverty zone and evolve programmes and schemes which will help them to crossing the poverty line. With this end in view, a State-wide survey was conducted between September-December, 1980. The results of the survey are summarised below:—

	(In lakhs)
(a) No. of Scheduled Castes House- holds surveyed	5.54
(i) Rural	5.03 (90.79%)
(ii) Urban	.. 0.51 (9.21%)
(b) No. of households with Annual income upto Rs 3,600 (Poverty Zone)	.. 4.19
(i) Rural	.. 3.84
(ii) Urban	.. 0.35

(c) No. of households with Annual Income from Rs 3,601 to Rs 6,000	1.00
(i) Rural	.. 0.84
(ii) Urban	.. 0.16
(d) Households with Annual income more than Rs 6,000 (rural areas)	0.35

Out of the surveyed households, 55,499 households were identified as owing land upto 5 acres. Another 4.48 lakh families are reported to be landless.

19.3. The main aim during the Sixth Five-Year Plan is to help 4.19 lakh identified households to cross the poverty line. For this purpose economically viable schemes have been formulated. During the 1980-81, the number of families helped to cross the poverty line was 58,064. In 1981-82 it is expected that 90,000 households would be helped in similar manner. The targets for 1982-83 has been fixed at 1.05 lakh households.

19.4. A part from the benefits flowing to the scheduled castes households from the identified schemes of the Special Component Plan and those under the Special Central Assistance for scheduled castes, main operational thrust has been through three major agencies viz Rural Development agencies Punjab Scheduled Castes Land Development and Finance Corporation and BACKFINCO. These agencies have now been given distinct areas for operation, RDA would cover identified households in the rural sector. The other two agencies have been asked to cover households in the urban areas of the State.

19.5. The main programme of these agencies consists of advancement of loans for bankable schemes which will assist the households in proving the present level of income. The loans are raised from commercial banks. Interest rates are wholly subsidized by the State Government but for that the burden of repayment liability is considerably reduced. Coverage of households under various economic programmes are as under:—

	1981-82	1982-83
(A) Special Component Plan	97,27	15,784
(B) Special Central Assistance	.. 80,273	89,710
Total	.. 90,000	1,05,494

STATEMENT
Special Component Plan for Scheduled Castes
Outlay and

Name of the Head of development	1980-81 Actuals	1981-82		
		Approved Outlay	Divisible Plan outlay	SCP outlay
1	2	3	4	5
Agriculture	29.71	1,116.92	1070.97	193.96
Minor Irrigation	35.90	735.00	735.00	36.70
Soil Conservation	4.72	285.00	285.00	28.50
Animal Husbandry	53.84	118.00	21.35	10.00
Dairying and Milk Supply	2.86	22.50	14.00	8.25
Fisheries	0.46	1.00	1.00	0.75
Forests	5.34	30.00	26.50	2.00
Community Development and Panchayats	263.56	365.25	365.25	199.31
Co-operation	20.47	9.75	9.75	4.00
Irrigation and Flood Control	172.41	—	—	—
Power	279.57	1354.50	1354.50	164.50
Industries and Mineral	41.39	462.00	424.00	130.00
Roads and Bridges	106.39	—	—	—
General Education	0.41	21.55	21.55	5.80
Technical Education	0.25	0.50	0.50	0.25
Public Health and Sanitation	65.74	269.25	269.25	131.55
Rural Water Supply	83.87	800.00	800.00	200.00
Housing	254.13	405.00	405.00	330.20
Urban Development	386.00	280.00	280.00	108.00
Information and Publicity	—	2.00	2.00	1.00
Welfare of Schedule Castes and Backward Classes	335.16	414.60	414.60	388.35
Social Welfare	12.94	—	—	—
Nutrition	6.90	16.00	16.00	8.00
Stationery and Printing	—	—	—	—
National Rural Employment Programme	—	—	—	—
Total	2,162.02	6,708.82	6,516.22	1,951.12

I

1982-83

Expenditure

(Rs in lakhs)

1982-33							
% to total outlay Col. 5 to Col. 3	% to Divisible plan outlay Col. 5 to Col. 4	SCP Ant. expenditure	Approved outlay	Divisible outlay	SCP outlay	% to total outlay Col. 11 to Col. 9	% to divisible outlay Col. 11 to Col. 10
6	7	8	9	10	11	12	13
17.37	18.11	193.96	1,096.82	977.37	165.70	15.11	16.95
4.99	4.99	36.70	815.00	815.00	40.75	5.00	5.00
10.00	10.00	28.50	261.00	238.66	22.32	8.55	9.35
8.47	46.83	10.00	94.44	44.58	21.40	22.65	48.00
36.67	58.93	8.25	22.50	14.00	8.58	37.78	60.71
75.00	75.00	0.75	4.00	4.00	3.00	75.00	75.00
6.56	7.55	2.00	8.00	4.50	1.12	14.00	25.00
54.57	54.57	199.31	685.30	685.30	389.48	56.76	56.76
41.02	41.02	4.00	8.75	8.75	3.20	36.37	36.37
—	—	—	—	—	—	—	—
12.14	12.14	164.50	1309.00	1309.00	198.00	15.13	15.13
28.14	31.40	130.00	220.00	191.00	63.50	28.86	33.25
—	—	—	—	—	—	—	—
26.91	26.91	5.80	15.40	13.60	4.17	27.07	30.66
50.00	50.00	0.25	0.40	0.40	0.20	50.00	50.00
48.86	48.86	131.55	369.65	207.15	182.69	49.42	88.19
25.00	25.00	200.00	500.00	500.00	125.00	25.00	25.00
81.53	81.53	330.20	328.00	328.00	299.23	91.23	91.23
38.57	38.57	108.00	305.00	305.00	111.50	36.56	36.56
50.00	50.00	1.00	8.30	8.30	2.35	28.31	28.31
93.67	93.67	388.35	500.00	485.00	473.75	94.75	97.68
—	—	—	—	—	—	—	—
50.00	50.00	8.00	16.00	16.00	11.20	70.00	70.00
—	—	—	—	—	—	—	—
—	—	—	260.00	162.00	35.50	13.65	21.91
29.08	29.94	1951.12	6827.56	6317.61	2162.64	31.67	34.23

STATEMENT
DRAFT SPECIAL
(Rs. in lakhs)

Name of the Scheme	1981-82				
	1980-81 Actuals	Approved outlay	Divisible Outlay 1981-82	SCP Outlay	
1	2	3	4	5	
HEAD : AGRICULTURE					
A(P)3.4	Training of Farmers (Indivisible scheme) ..	0.20	—	—	—
A(P)3.5	Farmers Training and Education in H.Y.V.P. training of farmers training centres in the State ..	0.75	16.60	16.60	1.66
A(P)5.2	Demonstration on Kallar reclamation and reclamation of Kallar land in Punjab ..	23.47	460.41	460.41	115.10
A(P)7.2	Fertilizers demonstration and Training in cultivators fields ..	0.16	—	—	Indivisible
A(P)9.1	Ground spraying of crops mobile ground spraying units ..	2.72	100.00	100.00	10.00
A(P)9.3	Scheme for the intensification of Plant Protection work ..	—	—	—	—
A(P)9.4	Control of Weeds and Loose Smut (sharing basis) ..	1.40	30.00	30.00	1.50
A(P)10.1	Development of Sugarcane ..	0.99	19.35	13.20	1.95
A(P)10.3	Intensive Cotton District Programme including scheme for production of nucleous seed of cotton (Sharing basis) ..	—	46.64	46.64	8.25
A(P)10.4	Intensive oil seed Development Programme (Sharing basis) ..	—	3.22	3.22	0.30
A(P)15.1	Support to ordinary and special debentures—				
	(i) Agriculture Department ..	—	104.50	104.50	10.45
	(ii) Soil Conservation Department ..	—	10.00	10.00	1.00
A(P)15.2	Purchase of debentures of SCLMB for the purchase of tractors and agricultural implements ..	—	162.50	162.50	16.25
A(P)15.3	ARC scheme for the reclamation of alkaline/saline soils ..	—	15.00	15.00	1.50
A(P)15.4	Grant of loans for grape cultivation and construction of bowers under ARC scheme debenture support for horticulture ..	—	8.00	8.00	0.80
A(P)15.5	Gobar Gas Plant debenture support ..	—	—	—	—
A(P)15.6	Dairy Development ..	—	25.00	25.00	2.50
A(P)15.7	Poultry, Piggery, Sheep breeding cattle feed processing unit and camel carts etc. ..	—	25.00	25.00	2.50
A(P)15.8	Fish culture ..	—	—	—	—
A(P)16.1	Setting up of 300 Agro-service centres ..	—	35.00	35.00	17.50
A(P)17.3	Scheme regarding bee-keeping ..	—	2.70	0.50	0.50
A(P)19.1	Development of Horticulture and setting up of garden and nurseries on the seed farm ..	0.02	41.00	10.00	1.00
A(P)19.2	Development of Horticulture in the Kandi Area Water-shed (World Bank) ..	—	12.00	6.00	1.20
Total ..		29.71	1116.92	1070.97	193.95

COMPONENT, PLAN : 1982-83

(Rs. in lakhs)

1982-83							
Percentage to total outlay (Col. 5 to 3)	Percentage to divisible outlay (Col. 5 to 4)	S.C.P. expenditure Antd	Approved outlay	Divisible outlay	S.C.P. outlay	Percentage to total outlay (Col. 11 to 9)	Percentage to divisible outlay (Col. 11 to 10)
6	7	8	9	10	11	12	13
—	—	—	—	—	—	—	—
10.00	10.00	1.66	24.00	24.00	2.40	10.00	10.00
25.00	25.00	115.10	433.54	400.00	100.00	23.07	25.00
scheme							
10.00	10.00	10.00	110.00	90.00	9.00	8.18	10.00
—	—	—	10.00	10.00	1.65	16.50	16.50
5.00	5.00	1.50	30.00	30.00	1.50	5.00	5.00
10.08	14.77	1.95	23.30	13.20	1.98	8.50	15.00
17.69	17.69	8.25	37.30	22.44	3.40	9.12	15.15
9.32	9.32	0.30	3.85	3.85	0.38	9.87	9.87
10.00	10.00	10.45	77.50	77.50	7.50	9.68	9.68
10.00	10.00	1.00	10.00	10.00	1.00	10.00	10.00
10.00	10.00	16.25	225.00	225.00	22.50	10.00	10.00
10.00	10.00	1.50	9.50	9.50	0.95	10.00	10.00
10.00	10.00	0.80	6.50	6.50	0.65	10.00	10.00
—	—	—	2.00	2.00	0.50	25.00	25.00
10.00	10.00	2.50	12.00	10.00	1.20	10.00	10.00
10.00	10.00	2.50	11.50	11.50	1.15	10.00	10.00
—	—	—	2.00	2.00	0.50	25.00	12.50
50.00	50.00	17.50	15.00	15.00	7.50	50.00	50.00
18.52	100.00	0.50	2.70	0.50	0.50	18.52	100.00
2.43	10.00	1.00	42.50	10.00	1.00	2.35	10.00
10.00	20.00	1.20	8.63	4.38	0.44	5.10	10.05
17.37	18.11	193.96	1096.82	977.37	165.70	15.11	16.95

Name of the Scheme	1980-81 Actuals	1981-		
		Approved Outlay,	Divisible Outlay	S.C.P Outlay
1	2	3	4	5
HEAD : MINOR IRRIGATION				
M(I)3.1 Punjab State Tubewell Corporation :-				
(i) Tubewells ..	35.90	130.00	130.00	6.50
(ii) C.A.D. ..	—	605.00	605.00	30.20
Total ..	35.90	735.00	735.00	36.70
HEAD : SOIL CONSERVATION				
SC(A)3.1 Soil and Water conservation on water-shed basis ..	2.72	116.50	116.50	11.65
SC(A)3.2 Pilot Projects for development of Kandi areas with World Bank assistance ..	—	48.00	48.00	4.80
SC(A)3.3 Soil & Water Conservation Prog. in State ..	2.00	40.50	40.50	4.05
SC(F)-4.1 Soil & Water Conservation on water-shed basis	}	80.00	80.00	8.00
SC(F)-4.2 Kandi water-shed and Area Deve. Project (World Bank)				
Total ..	4.72	285.00	285.00	28.50
HEAD : ANIMAL				
AH-2.1 Opening of new Veterinary Dispensaries and strengthening and improvement of existing ones ..	6.56			Dropped from S.C.P.
AH-2.4 Prophylactic vaccination against foot and mouth disease	—	—	—	—
AH-2.7 Foot and Mouth disease control prog. vaccination of cattle and buffalo in selected areas ..	—	—	—	—
AH-5.2 Training of farmers in the technique of rearing, feeding, breeding and management of exotic/crossbred cattle	0.31	—	—	—
AH-5.3 Assistance to Small/Marginal Farmers and Agricultural labourers for rearing of cross-bred heifers (State Share) ..	8.57	—	—	—
AH-5.8 Implementation of poultry, piggery, sheep production programme through Small/Marginal Farmers and Agricultural Labourers (State share) ..	4.32	—	—	—
AH-8.2 Establishment of new pig breeding farms ..	4.03			Dropped from
AH-9.2 Kandi Water-shed and development project ..	0.29	109.00	19.00	9.50
AH-9.4 Opening of Veterinary Hospitals ..	24.60			Dropped from
AH-10.3 Production and Popularisation of newly evolved fodder varieties ..	5.16	9.00	2.35	0.50
	53.84	118.00	21.35	10.00
HEAD : DAIRYNIG AND				
DM-2.2 Establishment of dairy extension units for intensification of milk production ..	0.11			Dropped from
DM-2.4 Special employment drive introduction of scientific and commercial Milk production ..	0.25	12.00	3.50	1.75
DM-3.1 Training of technical personnel ..	—	0.50	0.50	0.25
DM-4.1 Supply of subsidised milk to weaker sections ..	2.50	5.00	5.00	3.75
DM-4.2 Intensification of milk production providing of subsidy for the construction of model cattle sheds to small and marginal farmers (IRDP) ..	—	5.00	5.00	2.50
Total ..	2.86	22.50	14.00	8.25

OUTLAYS AND EXPENDITURE

PUNJAB STATE

Statement SCP—I
(Rs. in lakh)

82

1982-83

Percentage to total outlay* (Col. 5 to 3)	Percentage to divisible Outlay** (Col. 5 to 4)	SCP Exp. Antd.	Approved Outlay	Divisible Outlay	SCP Outlay	Percentage to total Outlay (Col. 11 to 9)	Percentage to divisible Outlay (Col. 11 to 10)
6	7	8	9	10	11	12	13
5.00	5.00	6.50	85.00	85.00	4.25	5.00	5.00
4.99	4.99	30.20	730.00	730.00	36.50	5.00	5.00
4.99	4.99	36.70	815.00	815.00	40.75	5.00	5.00
10.00	10.00	11.65	74.16	56.16	5.62	7.58	10.00
10.00	10.00	4.80	57.00	57.00	6.00	10.53	10.53
10.00	10.00	4.05	46.50	46.50	2.80	6.02	6.02
10.00	10.00	8.00	83.34	79.00	7.90	9.48	10.00
10.00	10.00	28.50	261.00	238.66	22.32	8.55	9.35
HUSBANDRY							
being indivisible in nature							
—	—	—	5.00	5.00	2.50	50.00	50.00
—	—	—	5.92	4.59	2.30	38.85	50.00
—	—	—	—	—	—	—	—
—	—	—	20.37	19.80	9.80	48.11	50.00
—	—	—	11.74	8.70	4.35	37.05	50.00
Special Component Plan being indivisible in nature							
8.71	50.00	9.50	40.41	3.29	1.65	4.08	50.00
Special Component Plan being indivisible in nature							
5.56	21.27	0.50	11.00	3.20	0.80	7.27	25.00
8.47	46.83	10.00	94.44	44.58	21.40	22.65	48.00
MILK SUPPLY							
Special Component Plan being indivisible in nature							
14.58	50.00	1.75	12.00	3.50	1.75	14.58	50.00
50.00	50.00	0.25	0.50	0.50	0.25	50.00	50.00
75.00	75.00	3.75	5.00	5.00	4.08	81.60	81.60
50.00	50.00	2.50	5.00	5.00	2.50	50.00	50.00
36.67	58.93	8.25	22.50	14.00	8.58	37.78	60.71

SPECIAL COMPONENT PLAN

PUNJAB

Statement

STATEMENT

Name of the Scheme		1981-				
		1980-81 Actuals	Approved Outlay	Divisible Outlay	SCP Outlay	
		1	2	3	4	5
HEAD :						
FH-6.1	Promotion of intensive Fish culture by providing Assistance to Private/Co-operative Sectors ..	0.15	1.00	1.00	0.75	
FH-6.2	Demonstration of Fish culture ..	0.05				Dropped from
FH-6.3	Assistance to fish farmers development agencies, Gurdaspur, Jullundur, Ludhiana and Amritsar (State Share) ..	0.26				
Total ..		0.46	1.00	1.00	0.75	
HEAD :						
FT-3.8	Raising of industrial plantation on Community lands	5.34	30.00	26.50	2.00	
Total ..		5.34	30.00	26.50	2.00	
HEAD : COMMUNITY DEVELOPMENT						
CD-2.1	Study tours of non-official ..	0.01	0.25	0.25	0.06	
CD-3.2	Composite programme for women and pre-school children strengthening of craft centres ..	5.50				Dropped from
CD 3.3	Pavement of streets and construction of drains ..	115.00	125.00	125.00	31.25	
CD 3.5	Development of Model Villages ..	2.50				Dropped
CD 3.6	Underground water sewerages ..	1.74				
CD 3.7	Matching grants to Panchayats and Local Bodies for development works ..	12.50				
CD 4.1	Assistance to District Rural Development Agencies under IRDP (State share) ..	126.31	240.00	240.00	168.00	
CD 4.3	Interest subsidy on loans to be advanced to economically weaker sections in Rural Areas ..					
Total ..		263.56	365.25	365.25	199.31	
HEAD :						
CN 2.3(vi)	Share capital contribution to Primary Agricultural Service Societies ..	19.00				Dropped
CN 9.1	Participation in the share capital of industrial co-operatives including federations/unions and projects in the cooperation sector ..	—	5.00	5.00	1.00	
CN 9.3	Assistance to handloom weavers cooperatives interest concession ..	0.20	1.25	1.25	1.00	
CN 9.5	Development of Handloom Weavers industry supply of improved appliances ..	0.75				Dropped
CN 9.8	Contribution to share capital to Primary Model Handloom weavers cooperative societies ..	—	2.00	2.00	1.00	
CN 9.9	Managerial subsidy to industrial cooperatives including Handloom weavers cooperative ..	—	1.50	1.50	1.00	
CN 11.1	Member of education and leadership training of non-official through Punjab Cooperative Union ..	0.52				Dropped
Total ..		20.47	9.75	9.75	4.00	

1982-83 OUTLAYS AND EXPENDITURE

STATE
SCP-I
(Rs. in lakh)

82								
1982-83								
%age to total Outlay (col. 5 to 3)	%age to divisible Outlay col. 5 to 4)	SPC Exp. Antd.	Approved Outlay	Divisible Outlay	SCP Outlay	%age to total Outlay (col. 11 to 9)	%age to divisible Outlay (col. 11 to 10)	
6	7	8	9	10	11	12	13	
FISHERIES								
75.00	75.00	0.75	4.00	4300	3.00	75.00	75.00	
Special Component Plan being indivisible in nature								
Ditto								
75.00	75.00	0.75	4.00	4.00	3.00	75.00	75.00	
FORESTS								
6.56	7.55	2.00	8.00	4.50	1.12	14.00	25.00	
6.56	7.55	2.00	8.00	4.50	1.12	14.00	25.00	
AND PANCHAYATS								
24.00	25.00	0.06	0.30	0.30	0.08	26.70	26.70	
Special component Plan being indivisible in nature								
25.00	25.00	31.25	200.00	200.00	50.00	25.00	25.00	
from Special Component Plan being indivisible in nature.								
Ditto								
Ditto								
70.00	70.00	168.00	472.00	472.00	330.40	70.00	70.00	
..	..	..	13.00	13.00	9.00	69.23	69.23	
54.57	54.57	199.31	685.30	685.30	389.48	56.76	56.76	
COOPERATION								
being individual in nature								
20.00	20.00	1.00	5.00	5.00	1.00	20.00	20.00	
80.00	80.00	1.00	0.25	0.25	0.20	80.00	80.00	
from Special Component Plan being indivisible in nature.								
50.00	50.00	1.00	2.00	2.00	1.00	50.00	50.00	
67.00	67.00	1.00	1.50	1.50	1.00	67.00	67.00	
from Special Component Plan.								
41.02	41.02	4.00	8.75	8.75	3.20	36.57	36.57	

Name of the Scheme	1980-81 Actuals	1981-82				
		Approved outlay	Divisible outlay	SCP outlay		
1	2	3	4	5		
HEAD : IRRIGATION						
IR 2.9	Lift and flow Irrigation scheme—					
	(i) Garshankar Lift Irrigation Scheme	172.41		Dropped		
	(ii) Lohat and Garhi lift Irrigation scheme					
	Anti-water logging drainage and flood control					
	Total	172.41				
HEAD :						
3.1	Normal Development and Distribution—					
	(i) Provision of General connections	..	750.00	750.00	56.17	
	(ii) Electrification of Harijan Basties	..	4.50	4.50	4.50	
	Rural Electrification —					
	(i) Electrification of Tubewells—Plan	..	600	600	103.83	
	(ii) Electrification of Harijan Basties—REC	..			Not	
	Total	..	279.57	1354.50	164.50	
HEAD : INDUSTRIES						
IN 2.6	Punjab State Leather Development Corporation	..	21.00	50.00	50.00	
IN 4.1	Credit facilities for the development of Small scale industries	..	2.59			
IN 4.2	Subsidy	..	0.55			
IN 4.5	Out right subsidy	..	—	25.00	25.00	5.00
IN 4.14	Modernisation of small scale industries	..	0.16			
IN 4.19	District-Industries centres	..	—	50.00	18.00	9.00
IN 4.20	Shoes and Leather Goods Training Centre Longowal	..	0.40			
IN-4.24	Training of Staff employment	..	0.01			
IN-4.25	Promotion of self-Employment through seed/capital margin money assistance	..	2.88			
IN-5.1	Industrial Estates Incentives to new industries	..				
	(i) Interest free loan	..	—	175.00	175.00	17.50
	(ii) Investment loans	..	—	—	—	—
	(iii) Land subsidy	..	—	100.00	100.00	10.00
IN-6.1	Programme for the handloom industry	..	1.90			
	(iii) Interest free loan for margin money	..	0.38			
	(iv) Training of weavers	..	0.35	0.50	0.50	0.50
	(vi) Training-cum-production centre in Sub-mountane areas	..	0.13	2.50	0.13	0.13
	(vii) Construction of work	..	1.70			
	(viii) Special Training Scheme for Handloom Weavers	..	—	20.00	20.00	20.00
IN-7.1	Integrated Rural Development Programme	..	8.66	35.00	35.00	17.50
IN-8.1	Development of Handicraft industries	..	0.30	4.00	0.37	0.37
IN-9.1	Development of Sericulture Industries	..	0.38			
	Total	..	41.39	462.00	424.00	130.00

OUTLAYS AND EXPENDITURE

PUNJAB STATE

Statement SCP-I

(Rs. in lakh)

1982-83							
Percentage to total outlay (col. 5 to 3)	Percentage to divisible outlay (col. 5 to 4)	SCP Exp. Antd.	Approved outlay	Divisible outlay	SCP Outlay	Percentage to total outlay (col. 11 to 9)	Percentage of divisible outlay (col. 11 10)
6	7	8	9	10	11	12	13
AND FLOOD CONTROL							
from Special Component Plan being indivisible in nature.							
OWER							
7.49	7.49	56.17	730.00	730.00	70.00	9.59	9.59
100.00	100.00	4.50	8.00	8.00	8.00	100.00	100.00
17.31	17.31	103.83	571.00	571.00	120.00	21.02	21.02
Available							
12.14	12.14	164.50	1309.00	1309.00	198.00	15.13	15.13
AND MINERAL							
100.00	100.00	50.00	10.00	10.00	10.00	100.00	100.00
Dropped from Special Component Plan being indivisible.							
Ditto							
20.00	20.00	5.00	50.00	50.00	10.00	20.00	20.00
Dropped from Special Component Plan being indivisible.							
18.00	50.00	9.00	38.00	15.00	7.50	19.74	50.00
Dropped from Special Component Plan.							
Dropped from Special Component Plan.							
Dropped from Special Component Plan.							
10.00	10.00	17.50	70.00	70.00	10.00	14.29	14.29
Dropped							
10.00	10.00	10.00	10.00	10.00	2.50	25.00	25.00
Dropped							
Dropped							
100.00	100.00	0.50	0.50	0.50	0.50	100.00	100.00
5.20	100.00	0.13	2.50	0.13	0.13	5.20	100.00
Dropped							
100.00	100.00	20.00	10.00	10.00	10.00	100.00	100.00
50.00	50.00	17.50	25.00	25.00	12.50	50.00	50.00
9.25	100.00	0.37	4.00	0.37	0.37	9.25	100.00
Dropped							
28.14	30.66	130.00	220.00	191.00	63.50	28.56	33.25

SPECIAL COMPONENT PLAN, 1982-83

STATE-

Name of the Scheme	1980-81 Actuals	1981-82		
		Approved Outlay	Divisible Outlay	S.C.P. Outlay
1	2	3	4	5
HEAD : ROADS				
RD 3.1 Village Road—				
(i) Link Roads	.. 106.39			Dropped from
Total	.. 106.39			
HEAD : GENERAL				
ED 1.1 Expansion of facilities for full time schools—				
(a) Opening of single teacher primary schools	.. 0.41	1.45	1.45	0.15
ED 1.1 1.B Non-Formal Education (6—11 age group)	.. —	2.50	2.50	1.25
ED 2.2 Non-Formal Education	.. —	2.00	2.00	0.50
ED 5.1 Introduction of social-education programme	.. —	15.60	15.60	3.90
Total	.. 0.41	21.55	21.55	5.80
HEAD :				
TE 5.5 Book Bank for poor students	.. 0.25	0.50	0.50	0.25
Total	.. 0.25	0.50	0.50	0.25
HEAD : PUBLIC				
PH 1.3 Opening of subsidiary Health Centres in rural areas	59.70	222.60	222.60	111.30
PH 3.10 Opening of new dispensaries in Urban Slum areas/ suitable urban places	.. 2.33	9.50	9.50	4.75
PH-4.6 Training and employment of Multipurpose Workers (State share)	3.38	12.10	12.10	3.00
AY-1.2 Opening of I.S.M., dispensaries	.. 0.33	20.00	20.00	10.00
HM-1.2 Opening of Homoeopathic dispensaries	.. —	5.05	5.05	2.50
Total	.. 65.74	269.25	269.25	131.55
HEAD : RURAL				
Rural Water-Supply	.. 83.87	800.00	800.00	200.00
Total	.. 83.87	800.00	800.00	200.00
HEAD :				
HG-2.2 Houses for rural homeless	.. 170.00	285.00	285.00	285.00
HG-2.3 Loans for Low-Income Group Houses	.. 32.50	40.00	40.00	20.00
HG-2.5 Loans for building houses in urban estates	.. 7.63	30.00	30.00	10.00
HG-2.6 Middle Income Group Housing	.. —	10.00	10.00	1.50
HG-2.7 Village Housing Project Schemes	.. 24.00	20.00	20.00	8.00
HG-3.1 Contribution of Housing Board	.. 20.00	20.00	20.00	5.70
Total	.. 254.13	405.00	405.00	330.20

OUTLAYS AND EXPENDITURE
MENT—II

PUNJAB STATE

Statement SCP-1

(Rs. in lakhs)

1982-83							
Percentage to total Outlay Cols. 5 to 3	Percentage to divisible Outlay Col. 5 to 4	S.C.P. Exp. Antd.	Approved Outlay	Divisible Outlay	S.C.P. Outlay	Percentage to total outlay (Cols. 11 to 9)	Percentage to divisible Outlay (Cols. 11 to 10)
6	7	8	9	10	11	12	13
ROADS AND BRIDGES							
Special Component Plan being indivisible.							
EDUCATION							
10.00	10.00	0.15	2.00	0.20	0.20	10.00	10.00
50.00	50.00	1.25	2.50	2.50	1.25	50.00	50.00
25.00	25.00	0.50	2.50	2.50	0.62	24.80	24.80
25.00	25.00	3.90	8.40	8.40	2.10	25.00	25.00
26.91	26.91	5.80	15.40	13.60	4.17	27.07	30.66
TECHNICAL EDUCATION							
50.00	50.00	0.25	0.40	0.40	0.20	50.00	50.00
50.00	50.00	0.25	0.40	0.40	0.20	50.00	50.00
HEALTH AND SANITATION							
50.00	50.00	111.30	325.00	162.50	162.50	50.00	100.00
50.00	50.00	4.75	12.00	12.00	6.00	50.00	50.00
23.81	27.83	3.00	8.50	8.50	2.11	24.82	24.82
50.00	50.00	10.00	18.75	18.75	9.36	50.03	50.03
49.50	49.50	2.50	5.40	5.40	2.70	50.00	50.00
48.86	48.86	131.55	369.65	207.15	182.69	49.42	88.19
WATER SUPPLY							
25.00	25.00	200.00	500.00	500.00	125.00	25.00	25.00
25.00	25.00	200.00	500.00	500.00	125.00	25.00	25.00
HOUSING							
100.00	100.00	285.00	285.00	285.00	285.00	100.00	100.00
50.00	50.00	20.00	3.00	3.00	1.50	50.00	50.00
33.00	33.00	10.00	25.00	25.00	8.33	33.00	33.00
15.00	15.00	1.50	3.00	3.00	0.75	25.00	25.00
40.00	40.00	8.00	2.00	2.00	0.80	40.00	40.00
28.50	28.50	5.70	10.00	10.00	2.85	28.50	28.50
81.53	81.53	330.20	328.00	328.00	299.23	91.23	91.23

MENT-II

OUTLAYS AND EXPENDITURE

PUNJAB STATE
Statement SCP-I
(Rs. in lakhs)

1982-83

Percentage to total outlay Col. 5 to 3	Percentage to total outlay col. 5 to 4	SCP Exp. Antd.	Approved outlay	Divisible Outlay	SCP Outlay	Percentage to total outlay col. 11 to 9	Percentage to divisible outlay cols. 11 to 10
6	7	8	9	10	11	12	13
DEVELOPMENT							
14.00	14.00	28.00	225.00	225.00	31.50	14.00	14.00
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
100.00	100.00	80.00	80.00	80.00	80.00	100.00	100.00
—	—	—	—	—	—	—	—
38.57	38.57	108.00	305.00	305.00	111.50	36.56	36.56
AND PUBLICITY							
50.00	50.00	1.00	1.15	1.15	0.60	50.00	50.00
—	—	—	3.15	3.15	0.75	23.81	23.81
—	—	—	4.00	4.00	1.00	25.00	25.00
50.00	50.00	1.00	8.30	8.30	2.35	28.31	28.31
AND BACKWARD CLASSES							
—	—	—	—	—	—	—	—
100.00	100.00	40.00	45.00	45.00	45.00	100.00	100.00
100.00	100.00	2.75	4.75	4.75	4.75	100.00	100.00
100.00	100.00	2.00	2.00	2.00	2.00	100.00	100.00
100.00	100.00	15.00	15.00	15.00	15.00	100.00	100.00
100.00	100.00	5.00	5.00	5.00	5.00	100.00	100.00
100.00	100.00	12.00	13.00	13.00	13.00	100.00	100.00
100.00	100.00	1.50	1.50	1.50	1.50	100.00	100.00
100.00	100.00	0.75	0.75	0.75	0.75	100.00	100.00
100.00	100.00	1.00	10.80	10.80	10.80	100.00	100.00
—	—	—	14.40	14.40	14.40	100.00	100.00
100.00	100.00	11.40	12.40	12.40	12.40	100.00	100.00
25.00	25.00	5.00	20.00	5.00	5.00	25.00	25.00

STATE
SPECIAL COMPONENT PLAN, 1982-83

Name of the Scheme	1980-81 Actuals	1981-82		
		Approved Outlay	Divisible) Outlay	S.C.P. Outlay
1	2	3	4	5
SC-2.3 Punjab Scheduled Castes Land Development and Finance Corporation—Share Capital (State share)	51.00	51.00	51.00	51.00
SC-2.4 Interest subsidy—				
(a) Scheduled Castes ..	45.00	45.00	45.00	45.00
(b) Backward Classes ..	3.75	15.00	15.00	3.75
SC-2.5 Issue of Yellow Cards ..	—	—	—	—
SC-3.1 Legal Aid ..	0.04	0.20	0.20	0.20
SC-3.2 Construction of dharamshala/chupals ..	30.00	30.00	30.00	30.00
SC-3.3 Environmental Improvement of Harijan bastis including drinking water wells	70.00	95.00	95.00	95.00
SC-3.4 Construction of houses for sweepers, scavengers, flayers and tanners	28.00	28.00	28.00	28.00
SC-3.5 Assistance to Scheduled Castes for development of manurial pits	3.53	25.00	25.00	25.00
SC-4.1 Construction of houses for Vimukhat Jatis ..	14.00	14.00	14.00	14.00
Total ..	3,35.16	4,14.60	4,14.60	3,88.35
			HEAD : SOCIAL	
Social Welfare ..	12.94	—	—	—
Total ..	12.94	—	—	—
			HEAD	
..	6.90	16.00	16.00	8.00
Total ..	6.90	16.00	16.00	8.00
			HEAD : NATIONAL RURAL	
..	—	—	—	—
Total ..	—	—	—	—
Grand Total ..	2162.02	6,708.82	6,516.22	1,951.12

MENT II
OUTLAYS AND EXPENDITURE

PUNJAB STATE
Statement SCP-1
(Rs. in lakhs)

1982-83							
Percentage to total outlay Col. 5 to 3	Percentage to divisible outlay Col. 5 to 4	S.C.P. Expenditure anticipated	Approved Outlay	Divisible Outlay	S.C.P. Outlay	Percentage to total outlay (Col. 11 to 9)	Percentage to divisible outlay (Col. 11 to 10)
6	7	8	9	10	11	12	13
100.00	100.00	51.00	51.00	51.00	51.00	100.00	100.00
100.00	100.00	45.00	45.00	45.00	45.00	100.00	100.00
25.00	25.00	3.75	15.00	15.00	3.75	25.00	25.00
—	—	—	1.20	1.20	1.20	100.00	100.00
100.00	100.00	0.20	0.20	0.20	0.20	100.00	100.00
100.00	100.00	30.00	45.00	45.00	45.00	100.00	100.00
100.00	100.00	95.00	115.00	115.00	100.00	100.00	100.00
100.00	100.00	28.00	38.00	38.00	38.00	100.00	100.00
100.00	100.00	25.00	25.00	25.00	25.00	100.00	100.00
100.00	100.00	14.00	20.00	20.00	20.00	100.00	100.00
93.67	93.67	388.35	500.00	485.00	473.75	94.75	97.68
WELFARE							
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
NUTRITION							
50.00	50.00	8.00	16.00	16.00	11.20	70.00	70.00
50.00	50.00	8.00	16.00	16.00	11.20	70.00	70.00
EMPLOYMENT PROGRAMME							
—	—	—	260.00	162.00	35.50	13.65	21.91
—	—	—	260.00	162.00	35.50	13.65	21.91
29.08	29.94	1951.12	6827.56	6317.61	2162.64	31.67	34.23

1982-83 STATEMENT No. III

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES—PUNJAB STATE

Statement S.C.P.—II

Name of the Department	Unit	1980-81 Achievement	1981-82 Anticipated achievement	1982-83 Proposed Targets	
A(P) 3.5	Farmers training and Education in HYVP running of farmers training centres in the State	No. of Families	2350	5200	7000
A(P)5.2	Demonstration on Kallar and reclamation of Kallar Land in Punjab	No/Family Gypsem/tonnes	1712 12500	6102 60000	9080 52000
A(P)9.1	Ground spraying of crops—mobile ground spraying unit	No. of Families	3985 2500	5000 7700	4000 6500
A(P)9.3	Scheme for the intensification of Plant Protection Work	Hect.	—	—	—
(i)	Purchase of pesticides for issue free of cost for control of epidemic pests	..	—	—	382500
(ii)	25 % Subsidy on sale of pesticides to the state cultivators of the Border areas of the State	..	—	—	29750
(iii)	50 % subsidy on Plant Protection equipment for sale to the cultivator of the border area of Punjab States	..	—	—	12750
A(P) 9.4	Control of Weeds and Loose Smut	Families	1177	1180	1180
		Hect.	N.A.	2700	2700
A(P)10.1	Development of Sugarcaae	.. quintals	9000	12000	12000
	Demonstration	.. Hect.	—	24	24
	Plots	.. Hect.	239	320	320
A(P)10.3	Intensive Cotton District Programme including scheme for production of nucleous seed of cotton (Sharing basits)	No. of Families	—	44	20
A(P)10.4	Intensive Oil Seeds Development Programme (Sharing Basic)	Families (No.)	—	120	120
		Mini Kits (No.)	—	—	—
	(i) R.S.M.	—	100	100	
	(ii) Ground Nut	—	13	13	
	Demonstration plots	—	—	—	
	R.S.M.	—	59	59	
	Groundnut	—	50	50	
A(P)15.1	Support to ordinary and Special Debentures	.. Families	—	960	2000
	(i) Agriculture Department	Tubewells	—	960	700
	(ii) Soil Conservation Department	Families	—	300	300
A(P) 15.2	Purchase of debenture of S.C.L.M.B. for purchase of Tractors and Agricultural implements	Tractors	—	217	300
		Families	—	217	300
A(P) 15.3	A.R.C. scheme for the reclamation of alkaline/saline soils	Families	—	200	200
		Hect.	—	1500	1500
A(P)15.4	Grant of loan for grape cultivation and construction of bewers under A.R.C. Scheme debenture support for horticulture	Acres	—	128	220
		Families	—	150	250
A(P) 15.5	Gobar Gas Plant (debenture support)	.. No.	—	—	10
		Families	—	—	10
A(P) 15.6	Dairy Development	Families	—	133	133
		No.	—	133	133
A(P) 15.7	Poultry, Piggery, sheep breeding, cattle, seed processing unit and camel carts etc.	No.	—	100	80
		Families unit of 500 birds each	—	100	80

1982-83 STATEMENT No. III
SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES—PUNJAB STATE
Statement S.C.P.—II

Name of the Department		Unit	1980-81 Achievement	1981-82 Anticipated achievement	1982-83 Proposed Targets
A(P)15.8	Fish Culture	No. of Ponds	—	—	10
A(P)16.1	Setting up of Agro-Service Centres	—	—	N.F.	N.F.
A(P)17.3	Scheme regarding bee keeping	No. of persons	—	50	50
A(P)19.1	Development of Horticulture and Setting up of garden and nurseries and seed farm	Families	5	250	150
		Hectares	N.A.	100	60
A(P)19.2	Development of Horticulture in the Kandi Area Water shed (World Bank)	Families	—	150	70
		Hect.	—	60	28
S.C. (A)3.1	Soil and Water Conservation on watershed basis	Families	N.A.	200	133
		Hect.	—	300	200
S.C.(A)3.2	Pilot project for development of Kandi Areas with World Bank Assistance	Families	N.A.	120	106
		Hect.	—	172	160
S.C.(A)3.3	Soil and water conservation Programme in State	Families	N.A.	700	760
		Hect.	—	1000	1140
S.C.(F)1.1	Soil and Water conservation on water shed basis	Families	—	120	156
		Hect.	—	180	235
A.H.5.3	Assistance to small Marginal Farmers and Agricultural labourers for rearing cross-bred (heifers 50:50 sharing scheme)	Families	1325	—	1750
		Calves	1325	—	1750
A.H.5.8	Implementation of Poultry/Piggery and Sheep production Programme through small/marginal Farmers and Agricultural Labourer	(i) Poultry Unit/Families	370	Scheme under IRDP	371
		(ii) Piggery Unit/Family	48	—	48
A.H.9.2	Kandi water shed and Development Project	Family	6	190	33
A.H.10.3	Production and Popularisation of newly evolved fodder varieties	Production of seed (Hec)	N.A.	71	80
		Seed production	N.A.	350	450
		Demonstration Plots No.	N.A.	375	550
A.M.2.4	Special Employment drive introduction of scientific and commercial milk production	No. of Families	83	N.A.	360
A.M.3.1	Training of Technical Personnel	No. of Trainees	—	3	3
A.M.4.1	Supply of the subsidised milk to weaker sections	No. of persons	4105	5800	5900
A.M.4.2	Intensification of milk production providing of subsidy for the construction of model cattle sheds of small and marginal farmers (I.R.D.P.)	No. of families	—	125	125
A.H.6.1.	Promotion of intensive fish culture by providing assistance to private Co-operative sectors	Hect. Number	N.A.	12	46
A.H.6.2.	Assistance to fish farmers development agency Gurdaspur Jullundur, Ludhiana and Amritsar (State Share)	Families Number	4	6	12
T.3.8.	Raising of Industrial Plantations on community land	Hect.	N.A.	160	75
I.D.2.1.	Study tour of non-officials	No. of persons	3	20	25
I.D.3.3	Pavement of streets and construction of drains	No. of villages	N.A.	400	N.A.
I.D.4.1	Assistance to Distt. Rural Development Agencies under I.R.D.P.	No. of families	26796	—*	—*
IN.9.1	Participation in the share capital of Industrial co-operatives including federations/unions and projects in the Co-operative sector	No. of persons	—	50	50

* Families under these programme are Counted under SCA and other programmes.

1982-83 STATEMENT No. III
SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES—PUNJAB STATE
Statement S.C.P.—III

	Name of the Department	Unit	1980-81 Achievement	1981-82 Anticipated achievement	1982-83 Proposed Targets
C.N.9.8	Assistance to Hand-loom weavers co-operative interest concession	No. of family members	70	350	50
C.N.9.8	Contribution to share capital of primary Model Hand-loom Weavers co-operatives	No. of members of Co-operatives	..	80	80
C.N.9.9.	Managerial subsidy to Industrial Co-operatives including Handloom Weavers Co-operatives	No. of members of Co-operatives	..	95	95
POWER					
	Normal Development Works Provision of General Connections		N.A.	20,000	10,000
	(1) Industrial supply connections	..	N.A.	200	200
	Electrification of Harijans Bastis	.. N.A.	17	193	10
	Rural electrification—Electrification of tubewells	.. N.A.	N.A.	1470	1500
I.N.2.6	Punjab State Leather Development Corporation	.. No.	N.A.	N.A.	N.A.
I.N.4.5.	Out-right subsidy	.. No.	N.A.	N.A.	N.A.
I.N.4.19	District Industries Centres	.. No.	—	40	25
LN.5.1.	Industrial Estates/Incentives to New Industries	.. No.	N.F.	N.F.	N.F.
I.N.6.1(iv)	Training of Weavers	.. No of persons	70	100	100
I.N.6.1.(vi)	Training-cum-Production centres in sub-montane areas	No. of persons	N.A.	10	10
I.N.6.1.(vii)	Special Training Schemes for Handloom Weavers	.. No. of persons	—	600	300
I.N.7.1	Integrated Rural Development programme	.. ..	119	167	125
I.N.8.1	Development of Handicraft Industries	.. ..	50	60	60
E.D.1.1	Opening of single Teacher Primary Schools	.. Maintenance of 20 schools opened in 1979-80 and 1980-81			
E.D.2.2	Non-Formal Education (Age-Group 11-14)	.. No. of students	—	4500	4500
E.D.5.1.	Introduction of Social Education Programme (Adult Education)	Enrolment	—	21,000	10500
T.E.5.5.	Book Bank for Poor Students	..	—	—	—
PH.1.3.	Opening of Subsidiary Health Centres in Rural Areas	No. of Dispensaries	100	—	—
Ph.3.10	Opening of new dispensaries in urban slums areas/ suitable Urban places	Do	N.A.	2	—
Ph.4.6	Training and employment of Multipurpose Workers (State shares)	No. of trainees	N.A.	122	N.A.
AY.1.2	Opening of I.S.M. dispensaries	.. No. of Dispensaries	5	2	—
H.M.1.2	Opening of Homoeopathic dispensaries	.. Do	8	4	—
	Rural Water Supply	.. No. of Villages	48	80	70
H.G.2.2	Houses for rural homeless	.. No. of Families	9919	10,000	10,000
H.G.2.3.	Loans for Low Income Group houses	.. No. of houses	N.A.	200	300
H.G.2.5.	Loans for building houses in urban estates	.. Do	25	30	25
H.G.2.6.	Middle Income Group housing	.. Do	—	8	4
H.G.2.7.	Village Housing Project	.. No. of houses/ persons	N.A.	160	150
H.G.3.1	Contribution to Housing Board	.. ..	N.A.	N.A.	N.A.

1982-83 STATEMENT No. III

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES PUNJAB STATE

Statement S.C.P.—II

Name of the Department		Unit	1980-81 Achievement	1981-82 Anticipated Achievement	1982-83 Proposed Targets
1		2	3	4	5
UD 1	Urban Estate	—	—	N.A.	N.A.
UD 6	Environmental Improvement of Slums	—	N.A.	N.A.	N.A.
SC 1.0	Grants for the purchase of books and stationery to the students	No. of Students	136641	150000	180,000
SC 1.2	Grants for the purchase of a Medical and Engineering books	—	N.A.	N.A.	N.A.
	(b) Law Books	—	N.A.	N.A.	N.A.
SC 1.4	Training in Stenography	No. of Trainees	N.A.	100	100
SC 1.5	Technical Training in Industrial Trades	No. of Trainees	N.A.	460	460
SC 1.6	B.Ed. and J.B.T. Training to S.Cs. Graduates and Matriculates	No. of students B.Ed.	N.A.	460	460
SC 1.7	Grants to S.Cs. girls graduates studying in post-matric and post-graduate classes	No. of Students	N.A.	N.A.	N.A.
SC 1.8	I.A.S. Coaching Centre Patiala	No. of Trainees	N.A.	50	50
SC 1.10	Imparting of Industrial Training to Scheduled Castes Women	—	N.A.	3600	3600
SC 1.11	Special Grant to S.Cs. students studying in Medical and Engineering classes	No. of Students	—	—	600
SC 2.1	Grant for the purchase of agricultural land, construction of houses/wells thereon and stamp duty	No. of persons	100	184	200
SC 2.2	Capital contribution to Punjab Backward Classes Land Development Corporation	Families	N.A.	—*	—*
SC 2.3	Capital contribution to Punjab Scheduled Castes Land Development and Finance Corporation (State Share)	Beneficiaries	20108	—*	—*
SC 2.4	Interest Subsidy (a) Scheduled Castes (b) Backward Classes	Families benefited Ditto	20108 N.A.	14000 N.A.	12000 6000
SC 2.5	Issue of Yellow Identity Cards	—	N.A.	N.A.	N.A.
SC 3.2	Construction of Dharamshalas/Chupals	Dharamshalas Chupals	594	300	350
SC 3.3	Environmental Improvement of Harijan Basties including drinking water	No. of Basties	54	140	100
SC 3.4	Construction of houses for sweepers, scavengers, flayers and tanners	Houses	1400	1400	1550
SC 3.5	Assistance to Scheduled Castes for Development of manurial pits		776	5000	5000
SC 4.1	Construction of houses for Vimukat Jatias	Houses	700	700	800
	Nutrition		N.A.	7500	10500
	National Rural Employment Programme				
	Farm Forestry	Plants in lakhs	—	—	150

*Families under these programmes will be counted under Special Central Assistance programme.

STATEMENT IV

SPECIAL COMPONENT PLAN 1982-83

Number of Scheduled Caste families proposed to be drawn out of poverty line under various programmes of Special Component Plan

Head of Development/Name of Scheme		Unit	1981-82 Achievements	1981-82 Anticipated achievements	1982-83 Proposed Target
1		2	3	4	5
Agriculture					
A(P) 5.2	Demonstration on Kallar and Reclamation of Kallar land in Punjab ..	No. of families	1712	6102	9080
A(P) 15.1	Spurt to ordinary and Special debentures—				
	(i) Agriculture Department ..	..	—	960	700
	(ii) Soil Conservation Department ..	..	—	300	300
A(P) 15.2	Purchase of debentures of SLMB for the purchase of tractors and agricultural implements ..	..	—	217	217
A(P) 15.3	A.R.C. Scheme for the reclamation of alkaline/saline soils ..	..	—	200	200
A(P) 15.4	Grant of loans for grape cultivation and construction of bowers under A.R.C. Scheme debenture support for horticulture ..	..	—	150	250
A(P) 15.6	Dairy Development ..	..	—	133	133
A(P) 15.7	Poultry, Piggery, Sheep breeding, cattle feed processing unit and camelcarts, etc. ..	..	—	100	80
A(P) 15.8	Fishculture ..	..	—	—	10
A(P) 17.3	Beekeeping ..	..	—	50	50
	Total ..	..	1712	8212	11020
Soil Conservation					
SC(A) 3.1	Soil and Water Conservation on watershed basis ..	..	—	200*	133*
SC(A) 3.2	Pilot Project for development of Kandi Areas with World Bank assistance ..	..	—	120*	106*
SC(A) 3.3	Soil and Water Conservation programme in State ..	..	—	700*	760*
SC(F) 1.1	Soil and Water Conservation on watershed basis ..	..	—	120*	156*
	Total ..	..	—	1140*	1155*
Animal Husbandry					
AH 5.3	Assistance to small/marginal farmers and agricultural labourers for rearing crossbred heifers (50 : 50 share scheme) ..	..	1325	—	1750
AH 5.8	Implementation of Poultry/Piggery and sheep production programme through small/marginal farmers and agricultural labourers ..	..	410	—	419
AH 9.2	Kandi Watershed and Development Project ..	..	6	190	33
	Total ..	..	1741	190	2202
Dairying and Milk Supply					
DM 2.4	Special employment drive, introduction of scientific and commercial milk production ..	..	83	—	360
	Total ..	..	83	—	360

*Beneficiaries/households will be counted in next year.

STATEMENT IV
SPECIAL COMPONENT PLAN 1982-83

Number of Scheduled Caste families proposed to be drawn out of poverty line under various programmes of Special Component Plan

Head of Development/Name of Scheme		Unit	1980 Achievements	1981-82 Anticipated achievements	1982-83 Proposed Target
1		2	3	4	5
Fisheries					
PH 6.1	Promotion of intensive fish culture by providing assistance to private/co-operative sectors	No. of families	—	24	92
FH 6.2	Assistance to Fish Farmers Developing Agency	..	4	—	—
	Total	..	—	24	92
Forests					
IT 3.8	Raising of Industrial Plantations on community land	..	—	150**	75**
	Total	..	—	150**	75**
Community Development and Panchayats					
CD 4.1	Assistance to District Rural Development Agencies under LR,D.P.	..	—	—***	—***
	Total	..	—	—***	—***
Cooperation					
CN 9.8	Assistance to Handloom Weavers	..	70	—	—
	Total	..	—	70	—
Industries and Minerals					
IN 4.2	Grant of Subsidy	..	43	—	—
IN 4.19	District Industries Centres	..	—	350	345
IN 6.1	Training of Weavers	..	70	600	300
IN 6.1(vii)	Special Training Scheme for Handloom Weavers	..	84	—	—
	Interest Free loans for margin money	..	—	—	—
7.1	Integrated Rural Development Programme	..	119	167	125
	Total	..	316	1117	770
Welfare of Scheduled Castes and Backward Classes					
C 2.1	Subsidy for the purchase of agricultural land, construction of houses/wells thereon and stamp duty	..	180	184	200
C 2.2	Contribution to Punjab Backward Classes Land Development and Finance Corporation	..	—	—***	—***
C 2.3	Contribution to Punjab Scheduled Castes Land Development and Finance Corporation (State Share)	..	—	—***	—***
	Total	..	180	184	200
	(a) Total of (Special Component Plan Schemes)	..	4106	9727	15784
	(b) Other Programmes and Special Central Assistance Schemes	..	58064	80273	89710
	Grand Total	..	62170	90000	105494

**Beneficiaries/households will be counted when they are finally benefited.

***Beneficiaries/households have been counted under other programmes (b).

STATEMENT V

Schemes under the Special Central Assistance

Outlays and Expenditure

(Rs. in lakhs)

Name of the Sub-head/Scheme	1980-81 Actuals	1981-82 Outlay	1982-83 Outlay
1	2	3	4
I Animal Husbandry :			
1. Cross-bred calf rearing ..	—	33.93	37.50
2. Setting up of poultry units ..	—	50.42	18.00
3. Setting up of piggery units ..	—	5.98	5.98
4. Sheep production units ..	—	8.40	8.40
5. Supply of cross-bred calf rearing ..	—	33.47	18.00
6. Expansion and strengthening of Government cattle breeding, poultry, pig breeding and sheep production farms ..	—	—	1.00 (Token)
Total ..	—	112.20	88.88
II Fisheries			
Assistance to scheduled caste families for setting up of fish farms ..	—	—	1.00 (Token)
Total ..	—	—	1.00
III Soil Conservation			
1j Soil conservation on land belonging to scheduled castes ..	—	10.00	25.00
Total ..	—	10.00	25.00
IV Forests			
1. Raising of forests on land belonging to scheduled castes ..	—	9.00	10.00
Total ..	—	9.00	10.00
V Cooperation			
1. Shoe-making and other leather goods cooperative industrial societies ..	—	—	5.50
2. Handloom weavers including model handloom weavers cooperative societies ..	—	—	7.60
3. Soap making cooperative societies ..	—	—	2.80
Total ..	—	—	15.90
VI. Industries			
1. Training of flaying in the hide flaying and carcass utilisation ..	—	1.00	2.00
2. Training of tanners ..	—	2.00	4.00
3. Supply of improved tools and equipments to artisans engaged in the manufacturing of footwear ..	—	5.00	10.00
4. Setting up of handloom training-cum-production centres for scheduled castes ..	—	—	2.16 (Token)
Total ..	—	8.00	18.16

STATEMENT V

Schemes under the Special Central Assistance
Outlays and Expenditure

(Rs. in lakh)

Name of the Sub-head/Scheme	1980-81 Actuals	1981-82 Outlay	1982-83 Outlay
1	2	3	4
VII. Health and Family Welfare			
1. Training of ANMs (Health and Family Workers)	—	—	1.30
2. Training of Staff Nurses	—	—	0.13
3. Training of Radiographers	—	—	0.31
4. Training of Laboratory Technicians	—	—	0.27
5. Training of Ophthalmic Assistants	—	—	0.40
6. Opening of school for training to Pharmacists	—	—	3.90
7. Training to scheduled caste women to convert into trained 'daies'	—	—	9.75
Total	—	—	16.06
VIII. Welfare of Scheduled Castes and Backward Classes:			
1. Margin money/Capital subsidy to the—			
(a) Punjab Scheduled Castes Land Development and Finance Corporation	175.00	180.00	200.00
(b) Punjab Backward Classes Land Development and Finance Corporation	100.00	103.00	75.00
2. Formulation of Economic Programme-enumeration and identification of scheduled caste families	3.37	—	—
Total	278.37	283.00	275.00
Grand Total	278.37	422.20	450.00

STATEMENT VI
Schemes under the Special Central Assistance—
Targets and Achievements

Name of the sub-head/scheme	Unit	1980-81 Achievements	1981-82 Targets	1982-83 Targets
I. Animal Husbandry				
1. Cross bred calf rearing	.. Families	—	4524*	4524 (+500*)
2. Setting up of poultry units	.. Do	—	338	200
3. Setting up of piggery units	.. Do	—	260	260
4. Sheep production units	.. Do	—	200	200
5. Supply of Cross bred calf rearing	.. Do	—	2725	1200
.. Total	..		3523	6384
II. Fisheries—				
Assistance to scheduled caste families for setting up of fish farms	* Do	—	**	**
.. Total	..		**	**
III. Soil Conservation				
1. Soil conservation on land belonging to scheduled castes	.. Do	—	270	836
.. Total	..		270	836
IV. Forests				
1. Raising of forests on land belonging to scheduled castes	.. Do	—	550*	605*
.. Total	..		550*	605*
V. Cooperation.				
1. Shoe-making and other leather goods cooperative industrial societies	.. Do	—	—	165
2. Handloom weavers including model hand-loom weavers co-operative societies	.. Do	—	—	625
3. Soap-making cooperative societies	.. Do	—	—	55
.. Total	..		—	845
VI. Industries.				
1. Training of flaying in the hide flaying and carcass utilisation	.. Do	—	200	400
2. Training of tanthers	.. Do	—	80	220
3. Supply of improved tools/equipments to artisans engaged in the manufacturing of footwear	.. Do	—	250	500
4. Setting up of handloom training cum-production centres for scheduled castes	.. Do	—	—	**
.. Total	..		530	1120
VII. Health and Family Welfare				
1. Training of A.N.M. (Health and Family Workers)	.. Do	—	—	60*
2. Training of Staff Nurses	.. Do	—	—	10*
3. Training of Radiographers	.. Do	—	—	10*

STATEMENT VI
Scheme under the Special Central Assistance—
Targets and Achievements

(Rs. in lakhs)

Name of the Scheme	Unit	1980-81 Achievement	1981-82 Targets	1982-83 Targets
4. Training of laboratory technicians ..	Families	—	—	10*
5. Training of Ophthalmic Assistants ..	Do	—	—	10*
6. Opening of school for training to Pharmacists ..	Do	—	—	25+ 25*
7. Training to scheduled castes women to convert into trained dals ..	Do	—	—	500
Total ..		—	—	525
VIII. Welfare of Scheduled Castes and Backward Classes				
1. Margin money/ Capital subsidy to the				
(a) Punjab Scheduled Castes Land Development and Finance Corporation	Do	—	*	*
(b) Punjab Backward Classes Land Development and Finance Corporation ..	Do	—	*	*
Total ..		—	*	*
Grand total ..		—	4323	9710

*Beneficiaries/households will be counted when they are finally benefited.

**Targets are to be fixed.

STATEMENT VII

Statement showing efforts based programmes towards raising income level of various categories of Scheduled Castes families under Special Component Plan 1981-82 and 1982-83 (Estimated)

Targeted	Scheme	Incremental income (Rs.)	No. of families to be covered	
			1981-82	1982-83
1	2	3	4	5
Cultivators	1. Agriculture (Under agriculture credit/IRD/other schemes/Corp.)			
	(i) Agricultural implements :			
	(a) Tractors	2,100	75	88
	(b) Tubewells/Pump sets		8,535	10,005
	(ii) Land levelling with irrigation facilities or brought under irrigation laying of underground pipe line & other soil conservation measures etc.	1,500	155	182
	(iii) Bullock/Bullock with cart or cart etc.	1,100	1,940	2,274
	2. Horticulture	No income during the first year	160	187
	3. Dairying	2,000	2,292	2,686
	4. Animal Husbandry		1,100	1,289
	(a) Poultry	2,890		
	(b) Piggery	2,000		
	(c) Goat & Sheep	1,800		
	(d) Cattle rearing	1,500		
	5. Commerce/small business	3,200	320	376
	6. Servicing units & transport	3,600	471	552
	Total Cultivators		15,048	17,639
Agricultural Labourers	1. Agriculture Purchase of agricultural land or taking of land on lease etc.	1,500	1,992	2,335
	2. Dairying	2,000	9,337	10,944
	3. Animal Husbandry--			
	(a) Poultry	2,890	12,692	14,877
	(b) Piggery	2,000		
	(c) Goat/sheep rearing	1,800		
	(d) cattle rearing	1,500		
	4. Fisheries	1,900	158	189
	5. Weaving	3,300	644	755
	6. Leather Workers	5,400 (consolidated)	616	722
	7. Midwifery	2,800	381	447
	8. Cottage Industries	3,300	1,640	1,923
	9. Small business and trades	3,500 (consolidated)	8,234	9,651
	10. Transport & Servicing	3,600 (consolidated)	3,834	4,494
	Total : Agricultural Labourers		39,528	46,333

STATEMENT VII

Statement showing efforts based programmes towards raising income level of various categories of Scheduled Caste families under Special Component Plan 1981-82 and 1982-83 (Estimated)

Targeted Group	Scheme	Incremental Income (Rs.)	No of families to be covered	
			1981-82	1982-83
1.	2	3	4	5
Leather Workers	Leather goods tanning & flaying	3,500 to 5,400 (consolidated)	6,934	8,127
	Selling of leather goods	3,500 (consolidated)	770	903
	Total : Leather Workers		7,704	9,030
Weavers	Hathkhadi	3,300 (consolidated)	10,296	12,069
	Dairying & Poultry etc.	2,000 (addition)	657	770
	Total : Weavers		10,953	12,839
Small manufacture/industrialist/small business	Cottage Industries	4,000 (consolidated)	7,975	9,348
	Artisans engaged in selling of goods (trade)	4,000 (consolidated)	2,249	2,636
	Total : Small manufacturers Industrialists/Small business		10,224	11,984
Others (Small transporters/ rickshaw pullers/sweepers/ scavengers etc.	1. Dairying	5,000	143	168
	2. Trade shops	3,500	5,300	6,213
	3. Cart/rickshaw pullers	3,600	1,100	1,288
	Total		6,543	7,669
Grand Total			90,000	1,05,494

CHAPTER XX

World Bank Aided Projects in Punjab

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 Seeds Corporation ;
- (d) Integrated Cotton Development Project ;
- (e) Irrigation Projects of Punjab.

20.1 Against the total provision of Rs. 4383.48 lakhs for all these projects in the year 1981-82 an outlay of Rs 3901.53 lakhs has been provided in the Annual Plan 1982-83 for all these projects. For the Sixth Five-Year Plan 1980—85, the total outlay is of the order of Rs. 23988.01 lakhs. Against the provided outlay of Rs. 3901.53 lakhs in the Annual Plan 1982-83, a sum of Rs. 1279.42 lacs would be available to the State Government as World Bank Assistance. Likewise, out of the total outlay of Rs. 23988.01 lakhs as provided in the Sixth Five Year Plan 1980—85, an amount of Rs 8395.81 lakhs would accrue to the State as world Bank Assistance. Salient features of these projects are given below :—

(I) Water Supply and Sewerage I.D.A. Project

20.2 Due to rapid haphazard urban development, there has been a considerable deterioration in the living environments in the urban towns of the State. The situation has been further accentuated due to the inability of 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 practice of the carrying of night-soil as head loads by the sweepers and scavengers. For the implementation of this programme, the Punjab Water Supply and Sewerage Board came to existence in

September, 1976. This ambitious programme could not be 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 Plans of the State Government. It is with this background that the Punjab Government formulated a scheme "Water Supply and Sewerage Project" for implementation in eight 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 is to be borne by the following agencies as under :—

	(Rs. in crores)	
1. IDA through Government of India	35%	22.61
2. State Government	15%	10.07
3. L.I.C.	20%	13.00
4. Municipal Corporations Municipal Committees concerned	30%	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. Provision of Rs. 3494 lakhs has been made for this project in the Sixth Five-Year Plan against which the amount reimbursable by the World Bank would come to Rs. 1222.90 lacs 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 sections 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 the Sewerage Charges from the beneficiaries.

The project provides for consultancy services to prepare feasibility reports in respect of sewerage treatment plants in all the 8 towns for which the World Bank has agreed to provide loan.

20.4 This project was started during 1978-79 and was scheduled to be completed by March,

1982 But due to delay in signing of various agreements and shortage of inputs the completion of project is likely to be extended up to March, 1983. During 1980-81 an expenditure of Rs. 11.60 crores was incurred and the expenditure during 1981-82 is estimated to be Rs. 13.00 crores. An outlay of Rs. 9.29 crores has been provided for this project in the Annual Plan 1982-83. The statement below gives information regarding provision of funds during 1981-82 vis-a-vis funds provided against the requirement of funds for the year 1982-83.

(Rupees in lakhs)

Name of the Project	Provision for 1981-82	Provided outlay for 1982-83	Requirement for 1981-82 according to the Project report	Amount reimbursable against provision for 1981-82	Amount reimbursable against provision for 1982-83
1	2	3	4	5	6
	(*)	(**)			
Punjab Water Supply and Sewerage Project-- IDA Project	1300.00	929.00	1610.00	658.00	450.00

(*) It includes L.I.C. loan of Rs. 360.00 lacs.

(**) It includes L.I.C. loan of Rs. 270.00 lacs and Rs. 20.00 lacs as loan to weak M. C's.

The details of contributions by Municipal Committees for I.D.A. Project are given as under :—

(Rupees in lacs)

Town	Total contribution as per project	Received upto December, 1981	Anticipated from January, 1982 to March, 1982	Total Anticipated contribution upto March, 1982	Balance Due
1	2	3	4	5	6
Jullundur	456.20	172.70	21.37	194.07 (43.52%)	262.13
Amritsar	496.36	204.48	20.74	225.22 (45.37%)	271.14
Ludhiana	612.49	203.10	3.08	206.18 (33.66%)	406.31
Patiala	168.79	27.75	8.07	35.82 (21.22%)	132.97
Rajpura	101.82	35.49	5.00	40.49 (39.77%)	61.33
Bhatinda	117.68	41.50	2.00	43.50 (36.96%)	74.18
Pathankot	73.43	30.50	1.00	31.50 (42.95%)	41.93
Moga	75.33	35.78	1.22	37.00 (49.11%)	38.33
Total	2102.00	751.30	62.48	813.78 (38.71%)	1288.22

Physical Progress :

20.5 Achievements in regard to water supply distribution lines, lateral sewers W. C. connections, water connections and metering of unmetered connections are given below :—

1. Water Supply distribution lines	436.37 Kms	82.43%
2. Lateral Sewers	554.31 Kms	92.86%
3. WC Connections	68235	71.08%
4. Water Connections	21330	47.77%
5. Metering of unmetered connections	21799	43.78%

II. Kandi Watershed and Area Development Project:

20.6 The largest under-developed area of Punjab State lies in the Himalayan sub-montaneous Zone known as Kandi area tract. This tract includes all land within Punjab adjoining Shivalik hills together with a narrow band of largely under-developed farm land. This band of under-developed farm land lies immediately below the hills and to the north of the 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.

20.7 The project area comprises 5 water-sheds (Dholbaha, Januari, Chohal, Maili and Patiala-Ki-Rao) 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 which lies

The funding pattern of the project is as under :-

(Rs. in lacs)

	Actuals 1980-81	Outlay 1981-82	Amount reimburs- able by the World Bank 1981-82	Outlay 1982-83	Amount reimburs- able by the World Bank 1982-83	Sixth Five- Year Plan Outlay 1980-85	Reimburse- ment by the World Bank 1980-85
KANDI WATERSHED AND AREA DEVELOPMENT							
Punjab Agriculture University ..	5.16	5.30	1.86	39.40	13.79	25.53	8.94
Horticulture ..	8.22	12.00	4.20	8.63	3.02	70.00	24.50
Soil Conservation ..	24.07	48.00	16.80	82.00	28.70	296.00	103.60
Animal Husbandry ..	2.93	63.18	22.11	40.41	14.14	406.30	142.21
Forests (including PPCU) ..	18.07	80.00	28.00	75.34	26.37	643.00	225.05
Fisheries ..	0.95	8.00	2.80	10.00	3.50	64.00	22.40
Total ..	59.40	216.48	75.77	255.78	89.52	1504.85	526.70

within the administrative districts of Hoshiarpur and Ropar. It covers an area of about 4500 Sq. Kms. (9% of the total area of the State) and contains some 6% of the Punjab's population.

20.8 The State resources are inadequate to take up this work of 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 implementation of this project started w.e.f. 1st April, 1980 although a few of the departments were allowed to execute works even during the year 1979-80 under retroactive financing. This project is likely to be completed by 31st March, 1985. The total cost of the project is estimated at Rs. 51.05 crores out of which the World Bank will provide about Rs. 17.87 crores. The proposed project is an integrated development project involving various disciplines and it would be a first comprehensive attempt to tackle the problem of the Himalayan Sub-mountainous Zone.

20.9 The work on the construction of Dholbaha Dam has been started during 1981-82. Construction work of Dholbaha Dam to a certain level is likely to be completed during 1982-83.

20.10 Other Watersheds :—The feasibility reports for Maili Watershed and Patiala-Ki-Rao have been prepared and submitted to the World Bank authorities. The construction work on Maili Dam is proposed to be taken up in the year 1982-83 and the Project is scheduled to be completed within two years. The preliminaries will be done on Patiala-Ki-Rao so as to start construction of Dam on Patiala-Ki-Rao during the year 1983-84. The feasibility report on two more Water-sheds i.e. Januari and Chohal are likely to be submitted by the end of the year 1981-82.

	Actuals 1980-81	Outlay 1981-82	Amount reimburs- able by the World Bank 1981-82	Outlay 1982-83	Amount reimburs- able by the World Bank 1982-83	Sixth Five Year Plan outlay 1980-85	Reimburse- ment by the World Bank 1980-85
Irrigation Portion							
Dholbaha Dam (Irrigation) ..	57.68	150.00	52.50	200.00	70.00	584.00	204.40
Dholbaha (Flood Control) ..	..	50.00	17.50	50.00	17.50	996.00	348.60
Other Watersheds ..	1.97	50.00	17.50	100.00	35.00	996.00	348.60
Technical Assistance (Water Resources) ..	46.29	85.00	29.75	75.00	26.25	265.00	92.75
Project Administration Monitoring Evaluation ..	..	8.00	2.80	..	..	32.00	11.20
Total Irrigation Portion	105.94	343.00	120.05	425.00	148.75	2873.00	1005.55
G. Total	165.34	559.48	195.82	680.78	232.32	4377.85	1532.25

III. Punjab State Seeds Corporation :

20.11 The Punjab State was selected for participation in the first phase of the National Seed Programme alongwith 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 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 form a part of the National Seed Programme and for the purpose of undertaking production of certified seeds in sufficient quantities 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 Seed Corporation ..	30%

The issued capital of the Corporation is Rs. 200.00 lakhs consisting of equity capital of Rs. 150.00 lakhs and preference capital of Rs. 50.00 lakhs. The State Government is committed to contribute Rs. 70.00 lakhs towards the share capital of the Corporation. Out of this Rs. 59.00

lakhs has already been contributed by the end of 1980-81 and a sum of Rs.11 lacs stands provided during 1981-82. In view of the commitments of the State Government accruing from the World Bank Seeds Project, a sum of Rs. 20.00 lakhs has been further provided for the year 1982-83.

20.13 The Punjab State Seeds Project envisages a total area of around 16,000 hectares to be brought under seed production out of a total cultivated area of about 80,000 hectares in Ludhiana District (Parts of Ludhiana and Mangat Blocks), Jullundur District (Jullundur East, Jullundur West and parts of Adampur and Nawanshahar Blocks) and Faridkot District (Parts of Muksar, Malout and Kotkapura Blocks).

20.14 The likely supply of certified seeds and the targets for 1982-83 are as follows :—

Seed	Unit	1981-82	1982-83
		Estimates	Targets
Wheat	Qtls.	50,000	110,000
Paddy	"	13,823	35,000
Gram	"	1,405	5,000
Maize	"	1,200	5,000
Groundnut	"	..	3,000
Cotton	"	681	6,500

20.15 The Corporation has taken over three processing Plants at Kartarpur, Ludhiana and Kotkapura where the work is in progress. It is anticipated that these will be commissioned during 1982-83,

IV. 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 for a period of five years. Its total estimated cost is Rs. 2.5 crores. The objectives of the project are :—

- (i) to increase productivity of cotton from 12½ quintals to 20 quintals per hectare ;
- (ii) to produce long staple 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 crops.

20.17 Fifty per cent of the cost of Civil Works, machinery and equipment is reimbursable by IDA to Government of India who passes on to the State Government 35 percent 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 is considering for the setting up of one Cotton Seed Processing Plant and one Cotton Ginning and Pressing Factory at a total cost of Rs. 260 lacs provided the World Bank agrees to provide 75 percent funds for the two units. 20% funds have been provided by the State and 5 percent will be met by the Markfed itself. The progress made under the Project is indicated below :—

Item	Unit	Achievement 1979-80	Achievement 1980-81	1981-82		1982-83
				Target	Anticipated Achievements	Targets
1. Cotton Area to be sown/Sown	.. (Hectares)	23,000	24,515	27,000	27,300	27,000
2. Fertilizers Consumption (N 20%)	.. (Tonnes)	10,715 2,269	12,230 2,356	13,500	13,500	13,000
3. Ground Spray	.. (Gross Hect.)	59,988	80,576	68,000	64,348	70,000
4. Aerial Spray	.. "	34,714	27,473	30,400	24,339	30,000
5. Incremental Credit	.. (Rs. In lakhs)	..	104	150	130	150

20.20 *Plant Protection.*—Need based Spraying was carried out with the help of Scouts engaged for the purpose. This helps in the right use of pesticides at the right time.

Demonstration Plots :

20.21 3,200 Demonstration Plots of one hectare each were arranged with acid delinted seed and new recommended Spacing of 2½' x 6". In addition 90 demonstration plots of one hectare each were arranged where all the recommended practices were demonstrated.

20.22 As a result of the work done in the project the average yield of cotton in the project area is about 20 per cent more as compared to the neighbouring blocks.

20.23 The plan provision for the Annual Plan 1982-83 is Rs 2.75 lacs which is only for the continuance of the existing staff against the anticipated expenditure of Rs 2.16 lacs for the year 1981-82.

V. Irrigation Projects of Punjab

20.24 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.

20.25 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 requirements of funds					
	1979-80	1980-81	1981-82	1982-83	1983-84	Total
1	2	3	4	5	6	7
8. Modernisation of canals ..	12.03	18.40	21.70	23.20	24.76	100.09
2. Pilot demonstration ..	0.73	1.21	0.58	0.28	—	2.80
3. Modernisation of water courses ..	16.25	22.90	24.50	26.25	28.05	117.95
4. Project Preparation Facilities (IDA) ..	0.12	0.12	0.12	0.12	0.12	0.60
Total ..	29.13	42.63	46.90	49.85	52.93	221.44

20.26 The various components of Irrigation Projects of Punjab are discussed below :—

(i) Modernisation of Canals

This component is being implemented by the Irrigation Department of the State. It is by far the most important Programme of the Department. The Project estimated for lining 4,060 Kms. of channels at an estimated cost of Rs 100.09 crores had been approved by the World Bank and these estimates now stand revised to Rs 152.03 crores. The Project would be completed in five years period beginning from 1979-80. During the two years period of 1979-80 and 1980-81 length of 1310 Kms. of channels has been completed at a cost of Rs 26.68 Crores. Against the anticipated expenditure of Rs 19.51 crores during the year 1981-82 an outlay of Rs 16.29 crores has been provided for the Annual Plan 1982-83 for lining 500 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. The Government of India, would, however, get 50 per cent of the cost of works completed, from the World Bank.

(ii) Pilot Demonstration

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 280.00 lakhs is scheduled to be completed in a period of four years.

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 an anticipated expenditure of Rs. 36.03 lakhs during 1981-82, Rs. 60.00 lakhs have been provided in the Annual Plan 1982-83.

(iii) Lining of Water Courses

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 2,820 outlets having total

length of 16,735 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	1979-80	1980-81	1981-82	1982-83	1983-84	Total
1	2	3	4	5	6	7
8. 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	28.65	117.95
4. State's share at 20 percent 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) (in crores of Rs.) ..	13.00	18.32	19.60	21.00	22.44	94.36

During the first two years of the Project against the target to line 6235 Kms of water courses the State Tubewell Corporation could line only 3819 Kms due to inadequate supply of cement. The Corporation, however, hopes to make up the short-falls during the remaining period of the Project if sufficient supplies of cement are made available to it. Against a target of lining 3500 Kms. of water courses during 1981-82 for which State share amounting to Rs. 6.05 crores has been provided it is targeted to line further 3500 Kms of water courses during 1982-83. For this purpose State share

amounting to Rs. 5.80 crores has been provided in the Annual Plan 1982-83

Project Preparation facilities

IV. The work is to be undertaken and financed wholly by I.D.A. The provision of funds for the various World Bank Aided Projects undertaken by the Punjab State in the Annual Plan and the provision in the Annual Plan 1982-83 and the provision for Sixth Five-Year Plan 1980-85 is given in Annexure which explains the financing pattern of these projects.

ANNEXURE

ANNUAL PLAN 1982-83 AND SIXTH FIVE YEAR PLAN 1980-85

Projects assisted by IDA/World Bank

(Rupees in lacs)

Name of the Project	Actual 1980-81	Outlay 1981-82	Amount reimbur- sable by World Bank against the provision of 1981- 82	Anticipat- ed Ex- penditure 1981-82	Outlay 1982-83	Amount reimbur- sable by the World Bank against provision for 1982-83	Outlay for the Sixth Five Year Plan 1980-85	Amount reim- bursable by the World Bank against the pro- vision 1980-85
1	2	3	4	5	6	7	8	9
I. Water Supply and Sewerage—								
IDA Project in 8 selected Towns—								
(i) IDA Loans ..		658.00	658.00	940.00	929.00	450.00	1,685.60	589.96
(ii) State Government share ..	1,475.00	282.00		(IDA & GOP)	(This includes		722.40	252.84
(iii) LIC loans ..	(This includes contributions of M.Cs.)	360.00		692.00 (LIC & MCs contribution)	Loan of Rs 270.00 and Rs 20.00 lacs for weak MCs		1,086.00	380.10
Total ..	1,475.00	1,300.00	658.00	1,632.00	929.00	450.00	3,494.00	1,222.90
II. Kandi Watershed and Area Development—								
Agriculture Portion—								
(i) Punjab Agriculture University ..	5.16	5.30	1.86	16.80	39.40	13.79	25.55	8.94
(ii) Horticulture ..	8.22	12.00	4.20	11.10	8.62	2.00	70.00	...
(iii) Fisheries ..	0.95	8.00	2.80	12.00	10.00	3.50	64.00	22.40
Total Agriculture Portion ..	59.40	216.48	75.77	180.94	255.78	89.52	1,504.85	526.70
Irrigation Portion—								
(i) Dholbaha Dam (Irrigation) ..	57.63	150.00	52.50	186.20	200.00	70.00	584.00	204.40
(ii) Dholbaha (Flood Control) ..	—	50.00	17.50	50.00	50.00	17.50	included under flood control	..
(iii) Other Watersheds ..	1.97	50.00	17.50	19.50	100.00	35.00	996.00	348.60
(iv) Technical Assistance (Water Resources) ..	46.29	85.00	29.75	63.57	75.00	26.25	265.00	92.75
(v) Project Administration Monitoring Evaluation ..	..	8.00	2.80	9.92	..	..	32.00	11.20
Total Irrigation Portion ..	105.94	343.00	120.05	329.19	425.00	148.75	1,877.00	656.95
Grand Total ..	165.34	559.48	195.82	510.13	680.78	238.27	3,381.85	1,183.65

ANNEXURE
ANNUAL PLAN 1982-83 AND SIXTH FIVE YEAR PLAN 1980-85

Projects Assisted by IDA/World Bank

(Rs. in lakhs)

Name of the Project	Actual Outlay 1980-81	Outlay 1981-82	Amount reimbur- sable by World Bank against the provision of 1981- 82	Anticipat- ed Ex- penditure 1981-82	Outlay 1982-83	Amount reimbur- sable by the World Bank against provision for 1982-83	Outlay for the Sixth Year Plan 1980-85	Amount reim- bursable by the World Bank against the pro- vision 1980-85
1	2	3	4	5	6	7	8	9
III. Punjab State								
Seeds Corporation ..	10.00	11.00	**	11.00	20.00	**	54.00	18.90**
Total III ..	10.00	11.00	**	11.00	20.00	**	54.00	18.90**
IV. Integrated Cotton Development								
..	13.34	2.00 (Token)	..	2.16	2.75	..	17.16	6.01
Total IV. ..	13.34	2.00 (Token)	..	2.16	2.75	..	17.16	6.01
V. Punjab Irrigation Projects—								
(i) Modernisation of canals ..	1556.04	1,848.00	646.80	1,951.00	1629.00	570.15	11887.00	4,160.45
(ii) Pilot Demonstration ..	15.47	58.00	20.30	36.03	60.00	21.00	279.00	97.65
(iii) Lining of Water Courses ..	582.00	605.00	No direct reimburse- ment being received by the State Govt.	605.00	580.00	No direct reimburse- ment being received by the State Govt.	3,881.00	No direct reim- burse- ment is being receiv- ed by the State Govt.
Total V ..	2153.51	2511.00	667.10	2592.03	2269.00	591.15	16047.00	4258.20
Grand total IV ..	3817.19	4383.48	1520.92	4747.32	3901.53	1279.42	23990.01	7037.46

£ Outlay is included in the total outlay provided for the Sub-head Flood Control.

* 50% cost of civil works and equipment incurred by P.A.U.

** No direct reimbursement from World Bank. The assistance is to come through NSC to the Punjab State Seed Corporation.

PART II
STATEMENT

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ANNUAL PLAN 1982-83
STATEMENT I
HEADS OF DEVELOPMENT
OUTLAYS AND EXPENDITURE

(Rs. in lakhs)

Head of Development	1980-81 Actuals	Five- Year Plan (1980- 85) Outlay	1981-82		1982-83	
			Approved Outlay	Anticipated Expenditure	Total	Of which Capital content
1	2	3	4	5	6	7
I. AGRICULTURE AND ALLIED SECTORS						
Agriculture	1475.61	10110.00	1845.00	1627.70	1755.24	736.00
Minor Irrigation	763.79	4824.00	805.00	786.93	850.00	840.00
Soil Conservation	248.79	2060.00	300.00	293.02	304.00	146.16
Food	5.25	17.00	12.00	12.00	9.00	9.00
Animal Husbandry	269.36	1349.00	314.00	321.54	450.00	31.66
Dairying & Milk Supply	61.80	236.00	51.00	50.63	65.00	41.50
Fisheries	29.31	175.00	25.00	29.00	45.00	26.00
Forests	290.14	1290.00	240.00	254.58	250.00	25.00
Community Development & Panchayats	972.01	5415.00	705.00	1154.69	806.76	301.50
National Rural Employment Programme	—	—	—	—	260.00	—
Total I	4116.06	25476.00	4297.00	4530.09	4795.00	2156.82
II. CO-OPERATION						
Total II	544.88	4150.00	820.00	820.00	900.00	787.82
III. IRRIGATION AND POWER						
Irrigation	3938.89	32729.00	4823.00	4641.07	4520.00	4520.00
Anti-water logging, drainage & Flood Control	573.48	2100.00	350.00	550.00	400.00	400.00
Power	10310.05	73294.00	13360.00	13736.00	18918.00	18918.00
Total III	14822.42	108123.00	18533.00	18927.07	23838.00	23838.00
INDUSTRY AND MINERALS						
Large and Medium Industries	972.64	6087.00	1059.00	1209.88	749.00	721.50
Village & Small Scale Industries	247.26	2061.00	410.00	311.96	550.00	498.95
Mines and Minerals	3.00	20.00	7.00	9.00	1.00	..
Weights & Measures	0.96	15.00	3.00	1.50	2.00	1.29
Total IV	1223.86	8183.00	1479.00	1532.34	1302.00	1221.74
V. TRANSPORT AND COMMUNICATION						
Roads & Bridges	1301.22	7000.00	1300.00	1200.00	900.00	900.00
Roads Transport	1787.00	4000.00	800.00	800.00	761.00	761.00
Civil Aviation	29.50	70.00	14.00	14.00	14.00	7.00
Tourism	45.00	255.00	45.00	30.00	25.00	25.00
Total V	3162.72	11325.00	2159.00	2044.00	1700.00	1693.00

ANNUAL PLAN 1982-83

STATEMENT I

HEADS OF DEVELOPMENT

OUTLAYS AND EXPENDITURE

(Rs. in lakhs)

Head of Development	1980-81 Actuals	Five- Year Plan (1980- 85) Outlay	1981-82		1982-83	
			Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content
1	2	3	4	5	6	7
VI. SOCIAL AND COMMUNITY SERVICES						
General Education ..	626.60	5300.00	933.00	928.00	935.00	126.95
Technical Education ..	15.01	300.00	60.00	40.12	60.00	31.70
Public Health & Sanitation ..	816.15	4900.00	900.00	982.94	900.00	64.00
Rural Water Supply ..	335.47	6800.00	800.00	500.00	500.00	500.00
Housing ..	1027.84	5735.00	1000.00	1153.00	900.00	900.00
Urban Development including Urban Water Supply & Sewerage ..	2371.97	9654.00	2060.00	1653.25	1527.00	1518.00
Information & Publicity ..	27.87	180.00	37.00	52.80	40.00	5.00
Labour and Labour Welfare ..	35.86	245.00	53.00	40.56	57.00	19.00
Welfare of Schedule d Castes and Backward Classes	481.51	3200.00	425.00	425.00	500.00	71.00
Social Welfare ..	107.85	507.00	161.00	109.00	165.00	74.00
Nutrition ..	10.56	80.00	16.00	16.00	16.00	—
Total VI ..	5856.69	36901.00	6445.00	5900.67	5600.00	3309.65
VII. ECONOMIC SERVICES						
Statistics ..	3.41	85.00	17.00	13.93	17.00	—
Planning Machinery ..	2.04	50.00	10.00	5.55	10.00	—
Total VII ..	5.45	135.00	27.00	19.48	27.00	—
VIII. GENERAL SERVICES						
Stationery and Printing ..	7.17	60.00	11.00	7.74	39.00	34.74
PUNSUP ..	10.00	50.00	10.00	10.00	—	—
Public Works ..	186.20	1247.00	250.00	235.00	290.00	290.00
Administrative Training Institute ..	9.32	50.00	9.00	9.00	9.00	9.00
Total VIII ..	212.69	1407.00	280.00	261.74	338.00	333.74
Grand Total ..	29944.77	195700.00	34040.00	34035.39	38500.00	33340.77

ANNUAL PLAN, 1982-83
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Name of Scheme/Project	Sixth	1980-81	1981-82		Outlay 1982-83		
	Year Plan, 1980-85 Approved Outlay	Actual Expendi- ture	Approved Outlay	Antici- pated Expendi- ture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
PUNJAB AGRICULTURAL UNIVERSITY							
1. Research	}	1000.00	183.76	190.00	217.50	240.00	60.50
2. Agricultural Education, Extension and Farmers Training							
Total -	..	1000.00	183.76	190.00	217.50	240.00	60.50
AGRICULTURE DEPARTMENT							
3. Extension and Farmers Training							
(P) 3-1 Higher Training of selected village level workers	}	2.00	0.31	—	—	—	—
(P) 3-2 Deputation of village level workers							
(P) 3-3 Foreign/In-service Training	..	1.70	0.43	—	1.40	1.00	—
(P) 3-4 Higher Training and Condensed Course of In-service A.S.Is. and C.I.s	..	1.81	2.31	1.30	1.30	0.50	—
(P) 3-5 (a) Farmers Training and Education in H.Y.V.P. running of Farmers Training Centres in the State	..	81.80	13.33	16.60	16.90	24.00	—
(b) Training Schemes—Grant to Institutions for organising Training Camps	..	17.80	3.88	3.60	4.47	4.30	—
Total	..	105.11	20.26	21.50	24.67	29.80	—
4. Direction and Administration							
(P) 4-1 Reorganisation of Agricultural Extension/ Administration/Re-organisation of Agriculture Department	..	77.50	12.07	12.00	12.74	14.00	—
(P) 4-2 Strengthening of Planning Machinery at Head-quarter-level	..	4.00	—	0.80	—	0.80	—
Total	..	81.50	12.07	12.80	12.74	14.80	—
5. Land Reclamation							
(P) 5-1 Reclamation of culturable waste land	..	2.50	0.48	17.51	16.15	0.55	—
(P) 5-2 Demonstration on Kallar reclamation and Reclamation of Kallar Lands in Punjab	..	2618.50	451.80	460.41	460.41	433.54	—
Total	..	2621.00	452.28	477.92	476.56	434.09	—

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Name of Scheme/Project	Sixth Five Year Plan, 1980-85 Approved Outlay	1980-81		1981-82		Outlay 1982-83	
		Actual Expendi- ture	Approved Outlay	Antici- pated Expendi- ture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
6. Multiplication and Distribution of Seeds							
A(P) 6-1	Seed Certification Authority	10.00	2.05	2.00	1.50	1.21	—
A(P) 6-2	Seed Production and Distribution	5.00	0.65	—	—	—	—
A(P) 6-3	Contribution to Land Development and Reclama- tion Corporation	90.00	—	15.00	—	—	—
A(P) 6-4	World Bank, Seed Project/Establishment of Punjab State Seeds Corporation	54.00	10.00	11.00	11.00	20.00	20.00
A(P) 6-5	Expansion of Seed Testing Laboratory	22.00	1.05	8.70	7.82	5.00	2.00
Total		181.00	13.75	36.70	20.32	26.21	22.00
7. Manures and Fertilizers							
A(P) 7-1	Establishment of Soil Testing Laboratories including Mobile Testing Laboratories	135.00	13.77	21.30	19.50	28.30	—
A(P) 7-2	Fertilizer Demonstration and Training on' Cultivators' Field	1.50	1.39	—	—	—	—
A(P) 7-3	Subsidy for the off-time Storage of fertilizers (Imported Zinc Sulphate)	65.00	17.99	2.50	0.65	0.20	—
A(P) 7-4	Scheme for providing incentives to farmers	510.00	—	—	—	—	—
A(P) 7-5	Fertilizers Quality Control Laboratory	54.00	5.67	10.00	8.63	10.05	1.00
A(P) 7-6	Subsidy on Phosphatic Fertilizers to Small and marginal farmers	—	—	—	3.00	—	—
Total		765.50	38.82	33.80	31.78	38.55	1.00
8. High Yielding Varieties Programme							
A(P) 8-1	Intensive High Yielding Varieties Programme	220.00	42.16	45.00	47.70	46.11	—
Total		220.00	42.16	45.00	47.70	46.11	—
9. Plant Protection							
A(P) 9-1	Ground Spraying of Crops/Mobile Ground Spray Units	460.00	57.50	100.00	80.00	110.00	90.00
A(P) 9-2	Loans for Aerial Spraying of Crops	1025.00	124.24	190.00	110.00	120.00	120.00
A(P) 9-3	Intensification of Plant Protection Work	50.00	9.35	10.00	10.00	10.00	—
A(P) 9-4	Control of Weeds and Loose Smut (Sharing basis)	150.00	20.16	30.00	21.15	30.00	—
A(P) 9-5	Quality Control of Inputs—Insecticides Testing Laboratory	52.00	7.00	9.00	3.36	9.06	1.00
A(P) 9-6	Construction of Helipads for aerial spray of cotton	20.00	—	—	—	—	—
A(P) 9-7	Scheme to enable the small Farmers in eradication of Pests/diseases in endemic areas by Aero— Chemical Operation (Sharing basis)	5.00	0.31	1.00	—	0.50	—
Total		1762.00	218.56	340.00	224.51	279.56	211.00

ANNUAL PLAN, 1982-83
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Name of Scheme/Project	Sixth Five Year Plan 1980-85 Approved Outlay	1980-81		1981-82		Outlay 1982-83	
		Actual Expenditure	Approved outlay	Anticipated Expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
10. Commercial Crops							
A(P) 10-1	Development of Sugarcane	98.43	25.44	19.35	20.54	23.30	—
A(P) 10-2	Integrated Cotton Development Project, Muktsar	17.16	13.34	2.00	2.16	2.75	—
A(P) 10-3	Intensive Cotton District Programme including scheme for production of Nucleous Seed of Cotton (Sharing basis)	250.00	28.94	46.64	28.39	37.30	—
A(P) 10-4	Intensive Oil-seed Development Programme (Sharing basis)	25.00	2.18	3.22	2.75	3.85	—
A(P) 10-5	Intensive Pulses Development Programme (Sharing basis)	20.00	0.86	3.27	3.36	3.12	—
Total		410.59	70.76	74.48	57.20	70.32	—
11. Agricultural Engineering							
A(P) 11-1	Establishment of Testing, Maintenance and Standard Certification of Agricultural Machinery	6.00	—	—	—	—	—
A(P) 11-2	Agro-Industries Corporation	160.00	6.00	40.00	20.00	30.00	30.00
A(P) 11-3	Intensification of Farm Mechanisation and Popularisation of Improved Agricultural Implements	54.00	7.19	10.00	9.60	12.00	—
A(P) 11-4	Provision of supply of improved Farm Storage to the Farmers	5.00	—	—	—	—	—
A(P) 11-5	Import of two rice Trans-Planters from the Democratic Peoples Republic of Korea	—	—	—	0.50	—	—
Total		225.00	13.19	50.00	30.10	42.00	30.00
12. Agricultural Economics and Statistics							
A(P) 12-1	Field staff of Statistical Wing of Agriculture Department	5.35	—	0.60	0.14	0.60	—
A(P) 12-2	Timely reporting revised Calendar Operation of Improved Crops Statistics (Sharing basis)	10.20	1.93	2.00	2.36	2.50	—
Total		15.55	1.93	2.60	2.50	3.10	—
13. Warehousing							
A(P) 13-1	Construction and Operation of Warehouses	120.00	20.00	25.00	22.00	25.00	25.00
Total		120.00	20.00	25.00	22.00	25.00	25.00

ANNUAL PLAN, 1982-83
STATEMENT II : SCHEMES
HEAD: AGRICULTURE

(Rs. in lakhs)

Name of Scheme/Project	Sixth	1980-81	1981-82		Outlay 1982-83		
	Five Year Plan, 1980-85 Approved outlay	Actual Expendi- ture	Approved Outlay	Antici- pated Expendi- ture	Total	Of which capital content	
1	2	3	4	5	6	7	
14. Agricultural Marketing and Quality Control							
A(P) 14-1	Grading of foodgrains and oilseeds in regulated markets	4.75	3.97	4.00	4.18	4.00	—
A(P) 14-2	Development of Mandis	25.00	33.38	Shifted to Marketing Board			—
Total		29.75	37.35	4.00	4.18	4.00	—
15. Agricultural Credit							
A(P) 15-1	Support to Ordinary and Special Debentures—						
	(i) Agriculture Department	556.00	65.00	104.50	37.75	77.50	77.50
	(ii) Soil Conservation Department	92.00	7.40	10.00	10.00	10.00	10.00
A(P) 15-2	Purchase of debenture of SCLMB for the purchase of Tractors and Agricultural implements	800.00	187.50	162.50	214.50	225.00	225.00
A(P) 15-3	A.R.C. Scheme for the reclamation of Alkaline/Saline Soils	135.00	1.00	15.00	4.00	9.50	9.50
A(P) 15-4	Grant of loans for Grape cultivation and construction of Bowers under ARC Scheme-debenture support for Horticulture	13.00	—	8.00	8.00	6.50	6.50
A(P) 15-5	Gobar Gas Plants Debenture Support	2.00	—	—	—	2.00	2.00
A(P) 15-6	Dairy Development	50.00	10.00	25.00	25.00	12.00	12.00
A(P) 15-7	Poultry, Piggery, Sheep Breeding, Cattle Feed Processing Units and Camel Carts, etc.	75.00	8.00	25.00	25.00	11.50	11.50
A(P) 15-8	Fish Culture	—	—	—	—	2.00	2.00
A(P) 15-9	Farm Forestry	—	—	—	—	2.00	2.00
Total		1,723.00	278.90	350.00	324.25	358.00	358.00
16. Employment Promotion Programme							
A(P) 16.1	Setting up of Agro-Service Centres under employment promotion programme	100.00	7.00	35.00	15.00	15.00	—
Total		100.00	7.00	35.00	15.00	15.00	—
17. Others							
A(P) 17-1	Gobar Gas Plants	30.00	4.00	7.00	10.00	15.00	—
A(P) 17-2	Scheme for the award of Prizes to the best farmers	50.00	—	10.00	—	—	—
A(P) 17-3	Scheme regarding Bee-Keeping	20.00	—	2.70	0.80	2.70	—
Total		100.00	4.00	19.70	10.80	17.70	—
Total—Agriculture Department		8,460.00	1,231.03	1,528.50	1,303.71	1,404.24	647

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Name of the scheme/Project	1980-81	1981-82		Outlay 1982-83		
	Sixth Five Year Plan 1980-85 Approved Outlay	Actual Expenditure	Approved Outlay	Anticipated Expenditure	Total	Of which capital content
1	2	3	4	5	6	7
Horticulture Department						
18. Direction and Administration—						
A(P) 18-1 Creation of Department of Horticulture and strengthening thereof	25.00	2.91	5.00	3.45	3.25	—
Total	25.00	2.91	5.00	3.45	3.25	—
19. Development of Horticulture—						
A(P) 19-1 Development of Horticulture and setting up of garden and nurseries on the seed farms	195.00	32.30	41.00	40.30	42.50	—
A(P) 19-2 Development of Horticulture in Kandi Area Watershed (World Bank)	70.00	8.20	12.00	11.10	8.63	3.50
A(P) 19-3 Development of Pear and Bar cultivation in Central districts	30.00	2.63	6.00	5.40	Merged in A(P) 19-01	—
Total	295.00	43.13	59.00	56.80	51.13	3.50
20. Vegetables						
A(P) 20-1 Production and multiplication of Potato seed— Development of vegetables in rural areas and grant of cold storages	60.00	—	11.50	8.47	7.00	—
A(P) 20-2 Cultivation of vegetables around cities and autumn onions in the State	—	—	—	—	5.00	—
Total	60.00	—	11.50	8.47	12.00	—
21. Preservation of Fruits—						
(P) 21-1 Demonstration-cum-Fruit Preservation Laboratories and Community Canning Centres	80.00	4.94	16.00	7.75	7.37	—
Total	80.00	4.94	16.00	7.75	7.37	—
22. Marketing of Horticulture Produce—						
(P) 22-1 Share capital to entrepreneur for setting up Punjab Horticulture Corporation	50.00	—	5.00	5.00	25.00	25.00
Total	50.00	—	5.00	5.00	25.00	25.00
23. Others—						
(P) 23-1 Subsidizing the rate of interest on Horticulture loan from commercial Banks	65.00	5.00	15.00	15.00	2.00	—
(P) 23-2 Cultivation of aromatic and medicinal plants	25.00	1.98	4.50	3.77	3.00	—
(P) 23-3 Beautification of public places	35.00	2.67	7.00	6.15	4.45	—
(P) 23-4 Popularisation of Mushroom cultivation in Punjab	15.00	0.10	3.50	0.10	2.80	—
Total	140.00	9.84	30.00	25.02	12.25	—
Total—Horticulture Department	650.00	60.82	126.50	106.49	111.00	28.50
Total—Sub-head 'Agriculture'	1,01,10.00	1,475.61	1,845.00	1,627.70	1,755.24	736.00

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD — MINOR IRRIGATION

(Rs in lakhs)

Serial No.	Name of the Scheme/Project	Sixth Five- Year Plan, 1980-85 Approved Outlay	1981-82		Outlay 1982-83		
			Approved Outlay	Anticipated expenditure	Total	Of which capital content	
1		2	3	4	5	6	7
1 Agriculture Department							
MI(A) 1.1	Ground Water Cell (Strengthening of Ground Water and surface water Organisation) ..	50.00	6.39	10.00	10.00	10.00	—
MI(A) 1.2	Grant of subsidy for sinking/repair of wells.	0.20	0.04	—	—	—	—
MI(A) 1.3	Grant of subsidy for sinking/repair of tubewells/ pumpsets ..	0.30	0.15	—	—	—	—
	Total ..	50.50	6.58	10.00	10.00	10.00	—
2. Irrigation Department							
MI(I) 2.1	Integrated Utilisation of water resources ..	100.00	20.23	20.00	22.93	25.00	25.00
MI(I) 2.2	Sinking of tubewells in different blocks ..	20.00	6.95	15.00	15.00	—	—
MI(I) 2.3	Lift and Flow Irrigation Schemes ..	3.00	3.18	—	—	—	—
MI(I) 2.4	Construction of ghats on canals ..	2.00	1.64	—	—	—	—
MI(I) 2.5	Sprinkler Irrigation schemes ..	89.00	4.30	25.00	4.00	—	—
MI(I) 2.6	Strengthening of Surface/Ground Water (Minor Irrigation) Organisation ..	7.50	2.91	—	—	—	—
	Total ..	221.50	39.21	60.00	41.93	25.00	25.00
3. Punjab State Tubewell Corporation							
MI(I) 3.1	Punjab State Tubewell Corporation	4,358.00	718.00	735.00	735.00	815.00	815.00
	(i) Minor Irrigation ..	477.00	136.00	130.00	130.00	85.00	85.00
	(ii) C.A.D. ..	3,881.00	582.00	605.00	605.00	730.00	730.00
	Total Minor Irrigation (Agriculture Depart- ment plus Irrigation Department plus PSTC (Tubewell) ..	749.00	181.79	200.00	181.93	120.00	110.00
	4. Unallocated Provision* ..	194.00	—	—	—	—	—
	Grand Total (Minor Irrigation + C.A.D. + Unallocated Provision)	4,824.00	763.79	805.00	786.93	850.00	840.00

*The distribution of this provision among various programmes would be decided later.

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD : SOIL CONSERVATION

(Rs. in lakhs)

Name of Scheme/Project	Sixth Five Year Plan 1980-85 Approved Outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83	
			Approved Outlay	Anticipa- ted Ex- penditure	Total	Of which Capital Content
1	2	3	4	5	6	7
1. Soil Survey and Testing						
SC(A)1.1 Soil Survey in the State ..	62.00	9.40	11.00	11.65	13.00	—
Total ..	62.00	9.40	11.00	11.65	13.00	—
2. Training						
SC(A) 2.1 Training, Research and Demonstration ..	30.00	13.12	4.00	2.86	5.00	—
Total ..	30.00	13.12	4.00	2.86	5.00	—
3. Soil Conservation Schemes						
SC(A) 3.1 Soil and Water Conservation on watershed basis	675.00	122.93	116.50	116.50	74.16	56.16
SC(A) 3.2 Pilot Project on development of Kandi Area with World Bank Assistance	296.00	24.07	48.00	41.51	82.00	62.00
SC(A) 3.3 Soil and Water Conservation Programme in other areas of the State	354.00	57.87	40.50	40.50	46.50	28.00
Total ..	1,325.00	204.87	205.00	198.51	202.66	146.16
Total Soil Conservation & Eng. Deptt. ..	1,417.00	227.39	220.00	213.02	220.66	146.16
Forest Department—Soil Conservation Scheme						
SC(F)1.1 Soil and Water Conservation on water-shed basis	32.00	3.22	8.36	8.36	8.00	—
SC(F)1.2 Kandi Watershed and Area Development Project (World Bank)	611.00	18.18	71.64	71.64	75.34	—
Total Forest Department ..	643.00	21.40	80.00	80.00	83.34	—
Grand Total ..	2,060.00	248.79	300.00	293.02	304.00	146.16

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES

HEAD: FOOD

(Rs. in lakhs)

Name of Scheme/Project	Sixth Five Year Plan 1980-85 Approved outlay	1980-81 Actual expendi- ture	1981-82		Outlay 1982-83	
			Approved Outlay	Anticipa- ted Expen- diture	Total	Of which capital content
1	2	3	4	5	6	7
FD. 1 Acquisition of land for open plinths ..	11.00	—	11.00	11.00	—	—
FD. 2 Construction of storage godown at Dhuri ..	6.00	5.25	1.00	1.00	9.00	9.00
Total ..	17.00	5.25	12.00	12.00	9.00	9.00

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan 1980-85 Approved Outlay	1980-81 Actual Expenditure	1981-82 Approved Outlay	Anticipated Expenditure	Outlay 1982-83		
	2	3	4	5	Total	Of which Capital Content	
1	2	3	4	5	6	7	
1. Direction and Administration							
AH 1-1	Strengthening and Expansion of Directorate of Animal Husbandry	14.40	0.83	2.20	1.60	2.20	—
AH 1-2	Directorate of Animal Husbandry—Creation of Information and Publicity Cell	—	—	—	—	—	—
AH 1-3	Strengthening of office of District Animal Husbandry Officers and Project Officers—Int. Cattle Development Project, Punjab	20.00	1.14	5.80	2.95	2.24	—
Total		34.40	1.97	8.00	4.55	4.44	—
2. Veterinary Services and Animal Health							
AH 2-1	Opening of new Veterinary Dispensaries and strengthening and improvement of existing ones	80.00	13.13	9.40	9.40	19.40	—
AH 2-2	Upgrading of Veterinary Dispensaries units into Hospitals	33.93	—	2.15	1.85	2.35	—
AH 2-3	Expansion of Punjab Veterinary Vaccine Institute, Ludhiana	30.00	5.97	4.25	4.25	5.25	—
AH 2-4	Prophylactic Vaccination against Foot and Mouth	25.00	8.98	5.00	5.00	5.00	—
AH 2-5	Expansion of State Veterinary Medical Store	7.85	0.87	3.09	3.09	1.37	0.10
AH 2-6	All-India Co-ordinated Res. Project for Epidemiological Studies on Foot and Mouth	0.79	0.16	0.15	0.27	0.27	—
AH 2-7	Foot and Mouth Disease Control Programme—Project for Vaccination of Cattle and Buff in selected areas	28.00	4.45	5.59	5.59	5.92	—
AH 2-8	Establishment of Veterinary Poly Clinics at District Headquarters	10.00	—	2.40	0.95	5.00	2.00
AH 2-9	Setting up of State Veterinary Council	1.00	—	0.20	0.20	0.23	—
AH 2-10	Establishment of Check Posts under R.E. Programme	0.20	0.48	0.20	0.11	—	—
AH 2-11	Providing Veterinary aid at the door of the farmers	10.00	—	—	—	—	—
Total		226.77	34.04	32.43	30.71	44.79	2.10
3. Veterinary Education and Research							
AH 3-1	Grant-in-aid to the P.A.U. Ludhiana for Veterinary Education and Research Schemes	275.00	54.60	50.00	65.24	60.00	—
Total		275.00	54.60	50.00	65.24	60.00	—
4. Investigation and Statistics							
AH 4-1	Integrated Survey in Livestock Number and Livestock Products	11.00	1.92	2.00	2.60	2.50	—
AH 4-2	Estimation of production, assessment of livestock and development programme of cultivated fodder	7.00	0.14	1.50	0.70	1.25	—
Total		18.00	2.06	3.50	3.30	3.75	—

ANNUAL PLAN 1982-83

STATEMENT II : SCHEMES

HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan 1980-85 Approved Outlay	1980-81	1981-82		Outlay 1982-83		
		Actual Expenditure	Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content	
1	2	3	4	5	6	7	
5. Cattle Development							
AH 5-1	Indo-Swiss Project Patiala—Expansion and strengthening	20.00	0.31	0.50	10.42	10.50	2.00
AH 5-2	Training of farmers in the technique of rearing, breeding, management of exotic/crossbred cattle	1.25	1.25	—	—	—	—
AH 5-3	Assistance to Small/Marginal Farmers and Agri-Labourers for rearing of cross-bred heifers	—	12.08	—	—	20.37	—
AH 5-4	Rounding up of wild and stray cattle in Punjab	9.00	0.80	2.90	2.90	2.00	—
AH 5-5	Expansion of Government Holste in Friesian Cattle Breeding Farm, Mattewara/Ropar	7.65	2.22	1.60	1.57	4.05	0.50
AH 5-6	Setting up of Bull Stations-cum-Semen Banks and L.N. Plants	50.00	0.26	2.00	2.00	21.80	5.00
AH 5-7	Kule Majra Co-op. Farm	25.00	2.78	0.10	5.10	6.00	2.00
AH 5-8	Implementation of Poultry, Piggery and Sheep Production Programme through Small/Marginal Farmers and Agricultural Labourers	—	7.97	—	—	11.74	—
Total		112.90	27.67	7.10	21.99	76.46	9.50
6. Poultry Development							
AH 6-1	Additional Production of day-old pullets at State Poultry Farms	30.00	1.67	4.00	4.00	5.00	1.50
AH 6-2	Establishment of Poultry Estates in selected localities for providing employment to educated unemployed	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.	20.00	10.00	—	10.00	10.00	—
AH 6-4	Establishment of a Broiler Project for production of day-old hybrid broiler chicks	15.00	—	3.50	3.40	3.80	1.00
Total		65.10	11.67	7.50	17.40	18.80	2.50
7. Sheep and Wool Development							
AH 7-2	Supply of exotic/cross bred rams for cross-breeding at Sheep and Extension Centres and to bonafide sheep breeders	6.80	0.20	1.50	0.95	1.10	—
AH 7-3	Provision of Intensive Health-cover through Sheep and Wool Extension Centres	6.00	1.68	1.00	1.00	0.50	—
AH 7-4	Setting up of a Sheep Farm for Fat Lamb production	5.08	—	—	—	—	—
AH 7-5	Expansion of Government Sheep Breeding Farms, Mattewara	5.63	—	0.74	0.74	2.00	—
AH 7-6	Sheep Breeding Farm, Dhar	—	0.20	—	—	—	—
Total		23.51	2.08	3.24	2.69	3.60	—

ANNUAL PLAN 1982-83
STATEMENT ; II SCHEMES
HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved Outlay	1980-81	1981-82		Outlay 1982-83		
		Actual Expendi- ture	Approved Outlay	Anticipa- ted Expen- diture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
8. Piggery Development							
AH 8-1	Expansion of Pig Breeding Farms/Units	16.00	3.30	3.67	3.53	4.00	1.00
AH 8-2	Establishment of new Pig Breeding Farms	25.00	4.03	5.00	3.79	7.60	3.50
AH 8-3	Establishment of Fattening Units at the Pig Breeding Farm, Kharar	8.40	0.94	1.57	1.46	2.20	1.00
	Total	49.40	8.27	10.24	8.78	13.80	5.50
9. Other Livestock Development							
AH 9-1	Evaluation of performance of Buff Bulls in field conditions	15.00	0.56	1.50	1.50	2.00	—
AH 9-2	Kandi Watershed and Area Development Project, Livestock Development Programme	406.30	2.94	63.18	27.89	40.41	8.06
AH 9-3	Setting up of Polytechnics for Animal Husbandry and Agricultural Training	20.00	2.33	3.38	2.79	5.00	2.00
AH 9-4	Opening of Veterinary Hospitals	—	107.60	109.00	114.36	156.40	—
AH 9-5	Expansion of Buffalo Breeding Farm, Bir Dosanj, Nabha	10.00	—	1.50	1.28	2.24	1.00
AH 9-6	Establishment of Mule Breeding Centres	5.00	—	0.10	2.89	3.00	—
AH 9-7	Maintenance of Herd-Books of selected buffaloes	10.00	—	0.10	—	—	—
	Total	466.30	113.43	178.76	150.71	209.05	11.06
10. Feed and Fodder Development							
AH 10-1	Intensification of existing Forage Planting Material Production Farms	14.18	2.82	3.66	3.71	3.61	1.00
AH 10-2	Creation of Cell for Feed and Fodder at State Level	2.90	0.43	0.57	0.38	0.70	—
AH 10-3	Production and Popularisation of newly evolved fodder varieties	60.54	10.32	9.00	12.08	11.00	—
	Total	77.62	13.57	13.23	16.17	15.31	1.00
	Grand Total	1349.00	269.36	314.00	321.54	450.00	31.66

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD : DAIRYING AND MILK SUPPLY

(Rs. in lakhs)

Name of the Scheme/Project	1980-81		1981-82		Outlay 1982-83		
	Sixth Five-Year Plan 1980-85 Approved outlay	Actual Expenditure	Approved outlay	Anticipated Expenditure	Total	Of which Capital Content	
1	2	3	4	5	6	7	
1. Direction and Administration							
DM 1-1	Strengthening of Headquarters staff	5.00	—	1.00	—	1.00	—
	Total	5.00	—	1.00	—	1.00	—
2. Dairy Development							
DM 2-1	Establishment of cattle feed factory	5.00	2.00	1.00	—	1.00	1.00
DM 2-2	Establishment of Dairy Extension Units for intensification of milk production	20.00	0.44	3.00	0.44	3.00	—
DM 2-3	Strengthening of Punjab Dairy Development Corporation	3.00	12.00	1.00	1.00	5.00	5.00
DM 2-4	Special Employment Drive—Introduction of Scientific/commercialised milk production	50.00	8.00	12.00	12.00	12.00	3.00
DM 2-5	Establishment of Milk Plant, Gurdaspur	16.00	—	1.00	—	—	—
DM 2-6	Establishment of Milk Chilling-cum-Demonstration Centres in the border, sub-montane, bet and backward areas of the State	92.00	34.00	20.00	27.04	32.50	32.50
DM 2-7	Establishment of Cheese Plant	1.00	—	0.50	—	—	—
	Total	187.00	56.44	38.50	40.48	53.50	41.50
3. Education and Training							
DM 3-1	Training of Technical Personnel	2.00	0.36	0.50	0.15	0.50	—
	Total	2.00	0.36	0.50	0.15	0.50	—
4. Others							
DM 4-1	Supply of subsidised milk to the weaker sections of the society	25.00	5.00	5.00	5.00	5.00	—
DM 4-2	Intensification of milk production—providing of subsidy for the construction of model cattle sheds to small and marginal farmers	15.00	—	5.00	5.00	5.00	—
DM 4-3	Establishment of Government Laboratory for testing milk products	2.00	—	1.00	—	—	—
	Total	42.00	5.00	11.00	10.00	10.00	—
	Grand Total	236.00	61.80	51.00	50.63	65.00	41.50

ANNUAL PLAN : 1982-83

STATEMENT II : SCHEMES

HEAD : FISHERIES

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved Outlay	1980-81		1981-82		Outlay 1982-83	
		Actual Expendi- ture	Approved outlay	Antici- pated Expendi- ture	Total	Of which 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	5.00	0.31	0.75	0.75	1.50	—
	Total	5.00	0.31	0.75	0.75	1.50	—
2. Extension							
FH 2.1	Creation of Information and Extension Division ..	5.00	1.74	1.00	1.00	2.00	—
FH 2.2	Pilot Project for Cage Fish Culture ..	5.00	0.60	0.50	—	—	—
	Total	10.00	2.34	1.50	1.00	2.00	—
3. Fish Farms							
FH 3.1	Completion of Fish Seed Nurseries/Farms and Construction of Fish Seed Farms in the remaining District	40.00	18.28	7.00	7.00	17.00	17.00
FH 3.2	Fish Culture in Shah Nehar Reservoir ..	6.00	—	0.10	0.10	0.10	—
FH 3.3	Pilot Project for Bundh Breeding ..	5.00	—	0.25	—	—	—
FH 3.4	Development of Fisheries in Kandi Watershed and Area Development Project (World Bank Assisted)	64.00	1.89	8.00	12.00	10.00	9.00
	Total	115.00	20.17	15.35	19.10	27.10	26.00
4. Research							
FH 4.1	Mobile Fisheries Field Laboratory ..	5.00	—	0.75	—	—	—
FH 4.2	Grant-in-aid to PAU for Fisheries Education and Research ..	—	—	—	—	1.00	—
	Total	5.00	—	0.75	—	1.00	—
5. Education and Training							
FH 5.1	Training of Fisheries Personnel ..	2.00	—	0.40	0.40	0.50	—
FH 5.2	Training in Fishing and in Fishing Crafts and Gear ..	2.50	—	0.50	—	0.25	—
	Total	4.50	—	0.90	0.40	0.75	—
6. Inland Fisheries							
FH 6.1	Promotion of Intensive Fish Culture by providing assistance to Private/Co-operative Sector	10.00	2.00	1.00	3.25	4.00	—
FH 6.2	Demonstration of Fish Culture ..	2.50	0.30	0.25	—	—	—
FH 6.3	Assistance to Fish Farmers Development Agency Gurdaspur, Jullundur, Amritsar and Ludhiana	20.00	4.00	4.00	4.00	8.00	—
	Total	32.50	6.30	5.25	7.25	12.00	—
7. Others							
FH 7.1	Creation of Economic and Statistical wing in the Fisheries Department	3.00	0.19	0.50	0.50	0.65	—
	Total	3.00	0.19	0.50	0.50	0.65	—
	Grand Total	175.00	29.31	25.00	29.00	45.00	26.00

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : FORESTS

(Rs. in lakhs)

Name of the Scheme/Project		Sixth Five Year- Plan (1980-85) Approved outlay	1980-81		1981-82		Outlay 1982-83	
			Actual Expendi- ture	Approved outlay	Antici- pated Expendi- ture	Total	Of which Capital Content	
1		2	3	4	5	6	7	
1. Forest Research								
FT. 1.1	Forest Research	15.00	2.50	3.50	3.50	3.50	—	
	Total	15.00	2.50	3.50	3.50	3.50	—	
2. Education and Training								
FT. 2.1	Training of Staff	5.00	1.00	1.00	1.00	1.00	—	
	Total	5.00	1.00	1.00	1.00	1.00	—	
3. Plantation Schemes								
FT. 3.1	Raising of Industrial Plantation on Community lands	170.00	69.00	30.00	30.00	8.00	—	
FT. 3.2	Raising of fuelwood Plantations (Centrally Sponsored)	100.00	—	20.00	34.92	35.00	—	
FT. 3.3	Plantation of Sissoo, Babul, Eucalyprus, Chil Poplar, etc.	410.00	124.00	70.00	70.00	90.00	—	
FT. 3.4	Soil Water and Tree Conservation in Himalayas (Centrally Sponsored)	110.00	9.95	25.00	25.00	25.00	—	
FT. 3.5	Integrated Watershed Management in the catchment of flood prone rivers (Centrally Sponsored)	25.00	—	—	—	—	—	
FT. 3.6	Environmental Forestry	20.00	—	5.00	5.00	5.00	—	
FT. 3.7	Farm Forestry	160.00	27.00	30.00	17.40	16.00	—	
	Total	995.00	229.95	180.00	182.32	179.00	—	
4. Communication and Buildings								
FT. 4.1	Construction of Buildings	27.00	5.00	5.00	4.66	5.00	5.00	
	Total	27.00	5.00	5.00	4.66	5.00	5.00	
5. Preservation of Wild Life								
FT. 5.1	Preservation of Wild Life	45.00	5.31	10.00	10.00	10.00	—	
FT. 5.2	Establishment of Zoological Park at Chhat Bir	200.00	44.41	40.00	40.00	50.00	20.00	
	Total	245.00	49.72	50.00	50.00	60.00	20.00	
6. Survey of Forests Resources								
FT. 6.1	Establishment of Planning and Statistical Cell	3.00	0.19	0.50	0.50	0.50	—	
	Total	3.00	0.19	0.50	0.50	0.50	—	
7. Other Expenditure								
FT. 7.1	Demarcation of Forests	—	1.78	—	—	—	—	
FT. 7.2	State Share Capital of the equity in Forest Development Corporation	—	—	—	—	1.00	—	
FT. 7.3	National Rural Employment Programme	—	—	—	12.60	—	—	This scheme has been shown under separate sub-head.
	Total	—	1.78	—	12.60	1.00	—	
	Grand Total	1290.00	290.14	240.00	254.58	250.00	25.00	

ANNUAL PLAN 1982-83

STATEMENT II : SCHEMES

HEAD : COMMUNITY DEVELOPMENT AND PANCHAYATS

(Rs in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980-85) Approved, outlay	1980-81		1981-82		Outlay 1982-83	
		Actual Expendi- ture	Approved outlay	Antici- pated Expendi- ture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
1. Direction and Administration							
CD 1.1	Staff for Integrated Rural Development Programme and publicity through audio-visual aids	20.00	3.73	4.25	4.25	4.50	—
CD 1.2	Additional staff at head-quarters	10.00	—	2.00	—	—	—
	Total	30.00	3.73	6.25	4.25	4.50	—
2. Training							
CD 2.1	Study tours of non-officials	1.20	0.20	0.25	—	0.30	—
CD 2.2	Promotion and strengthening of Mahila Mandals	40.00	8.00	8.00	8.00	8.00	—
CD 2.3	Intensive Development Programme in selected ANP Blocks	—	—	—	0.64	0.46	—
	Total	41.20	8.20	8.25	8.64	8.76	—
3. Assistance to Panchayati Raj Institutions							
CD 3.1	Financial Assistance to Panchayats/Panchayat Samitis and Zila Parishads for expenditure on Revenue Earning Schemes	271.30	42.80	38.00	38.00	38.00	36.50
CD 3.2	Composite programme for women and pre-school children-strengthening of Craft Centres	27.50	5.50	5.50	5.50	5.50	—
CD 3.3	Pavement of streets and construction of drains	1004.00	450.00	125.00	440.00	200.00	200.00
CD 3.4	Assistance to Panchayats for expenditure on Panchayat works (Panchayat Ghars/Community Halls)	100.00	70.00	20.00	20.00	20.00	20.00
CD 3.5	Development of Model Villages	20.00	10.00	5.00	5.00	—	—
CD 3.6	Under-ground water sewerage	60.00	6.95	7.00	—	—	—
CD 3.7	Matching grants to Panchayats and Local Bodies for development works	240.00	50.00	40.00	40.00	40.00	40.00
CD 3.8	Grant-in-aid to Zila Parishads/Panchayat Samitis for integrated development of villages of historical/religious importance	21.00	1.00	5.00	—	5.00	5.00
	Total	1743.80	636.25	245.50	548.50	308.50	301.50
4. Special programme for Rural Development							
CD 4.1	Assistance to Rural Development Agencies for Integrated Rural Development Programme	1975.00	323.83	240.00	354.00	472.00	—
CD 4.2	National Rural Employment Programme	1625.00	—	205.00	226.80	This scheme has been shown under separate sub-head. 13.00 —	
CD 4.3	Interest subsidy on loans to be advanced to the economically weaker sections under IRD in rural areas	—	—	—	12.50		
	Total	3600.00	323.83	445.00	593.30	485.00	—
	Grand Total	5415.00	972.01	705.00	1154.69	806.76	301.50

ANNUAL PLAN : 1982-83

STATEMENT-II—SCHEMES

HEAD : NATIONAL RURAL EMPLOYMENT PROGRAMME

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980—85) approved outlay	1980-81	1981-82		Outlay 1982-83	
		Actual Expenditure	Approved outlay	Anticipated expenditure	Total	Of which capital content
1	2	3	4	5	6	7
NATIONAL RURAL EMPLOYMENT PROGRAMME						
NREP 1·1 Farm Forestry	—	—	—	—	30·00	—
NREP 2·1 Drainage and Anti-Water-logging	—	—	—	—	100·00	—
NREP 3·1 Pavement of streets and construction of drains	—	—	—	—	130·00	—
Total	—	—	—	—	260·00	—

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : CO-OPERATION

(Rs. in lakhs)

Name of Scheme/Project	Sixth Five Year Plan (1980-85) Approved outlay	1980-81	1981-82		Outlay 1982-83		
		Actual Expendi- ture	Approved outlay	Antici- pated Expendi- ture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
1. Direction and Administration							
CN 1-1	Additional departmental staff	300.00	51.70	50.00	55.00	60.00	—
	Total	300.00	51.70	50.00	55.00	60.00	—
2. Credit Co-operatives							
CN 2-1	Assistance to Central Co-operative Banks for opening new branches	16.66	10.47	—	—	—	—
CN 2-2	Assistance to Co-operative Primary Agricultural Service Societies for construction of godowns	515.28	37.23	171.94	105.87	111.84	98.06
CN 2-3	Share Capital contribution to :	(590.00)	(90.00)	(117.00)	(117.00)	(86.00)	(86.00)
	(i) Punjab State Co-operative Land Mortgage Bank	5.00	—	1.00	1.00	1.00	1.00
	(ii) Central Co-operative Banks	25.00	5.00	5.00	5.00	5.00	5.00
	(iii) Urban Co-operative Banks	15.00	—	2.00	1.50	—	—
	(iv) Punjab State Co-operative Bank	5.00	—	1.00	—	—	—
	(v) Primary Co-operative Land Mortgage Banks	40.00	7.60	8.00	8.00	8.00	8.00
	(vi) Primary Agriculture Service Societies	500.00	77.40	100.00	101.50	72.00	72.00
CN 2-4	Reorganisation and revitalisation of Central Co-operative Banks	4.75	—	0.95	—	—	—
CN 2-5	Assistance to reorganised Primary Agricultural Service Societies as managerial subsidy	91.41	66.41	23.00	23.00	—	—
CN 2-6	Subsidy for building premises of new branches of Central Co-operative Banks at focal points	6.00	—	—	—	—	—
CN 2-7	Assistance to Central Co-operative Banks for Agricultural stabilisation fund	40.00	10.00	5.00	5.00	5.00	—
CN 2-8	Assistance to Primary Agricultural Service Societies as bad debt reserves (risk fund)	50.00	5.00	10.00	10.00	10.00	—
	Total	1,314.10	219.11	327.89	260.87	212.84	184.06
3. Housing Co-operatives							
CN 3-1	Share capital contribution to Housing Societies/Housing Federation as margin money	25.00	5.00	5.00	5.00	10.00	10.00
CN 3-2	Assistance to Housing Societies/Federation as managerial subsidy	0.50	0.50	—	—	—	—
	Total	25.50	5.50	5.00	5.00	10.00	10.00
4. Labour Co-operatives							
CN 4-1	Assistance for technical cell in District Co-operative Labour Unions and State level Federation	5.00	1.00	1.00	0.75	1.00	—
	Total	5.00	1.00	1.00	0.75	1.00	—

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : CO-OPERATION

		(Rs in lakhs)					
Name of Scheme/Project	Sixth Five Year Plan (1980-85) Approved outlay	1980-81	1981-82		Outlay 1982-83		
		Actual Expenditure	Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content	
1	2	3	4	5	6	7	
5. Warehousing and Marketing							
CN 5-1	Share capital contribution to Co-operative Marketing Societies	20.00	—	4.00	—	—	—
CN 5-2	Assistance for development of export of vegetables, fruits and other products by Markfed	(9.50)	(9.50)	(—)	(—)	(—)	(—)
	(i) Share capital as margin money	9.00	9.00	—	—	—	—
	(ii) Subsidy for technical and Marketing cell	0.50	0.50	—	—	—	—
CN 5-3	Share capital to Markfed for purchase of Fertilizers and harvest combines	85.20	35.20	50.00	—	—	—
CN 5-4	Construction of Markfed wheat storage godowns	442.42	59.50	49.81	52.50	56.00	56.00
CN 5-5	Assistance to Markfed for contribution as share capital to KRIBHCO fertilizers	25.00	—	5.00	5.00	5.00	5.00
	Total	582.12	104.20	108.81	57.50	61.00	61.00
6. Processing Co-operatives							
CN 6-1	Assistance to Agriculture Processing units (other than Sugar Mills)	(805.60)	(90.00)	(240.00)	(220.00)	(231.66)	(231.66)
	(i) New Spinning Mills	700.00	90.00	240.00	220.00	230.00	230.00
	(ii) Spinning Mills Expansion	90.00	—	—	—	—	—
	(iii) Cotton Waste Spinning Mills	15.60	—	—	—	1.66	1.66
CN 6-2	Assistance to State Level Federation of Agricultural Processing Societies	21.00	11.00	10.00	10.00	—	—
CN 6-3	Assistance to Markfed for setting up processing units	136.33	—	—	112.62	80.00	80.00
	Total	962.93	101.00	250.00	342.62	311.66	311.66
7. Dairy Co-operatives							
CN 7-1	Share capital contribution to Primary Co-operative Milk Societies, Unions and Milk Federation	15.00	9.81	4.00	4.00	47.00	47.00
CN 7-2	Assistance for payment of audit fee by Milk Producers Co-operative Societies/Unions and Milk Federation	1.00	1.00	—	—	—	—
CN 7-3	Assistance as revolving fund for the Milk Federation/Milk Unions and Milk Societies	2.85	2.85	—	—	—	—
	Total	18.85	13.66	4.00	4.00	47.00	47.00
8. Co-operative Sugar Mills							
CN 8-1	Share capital contribution for installation of new co-operative Sugar Mills	200.00	—	1.00	1.00	50.00	50.00
CN 8-2	Share Capital contribution for expansion of existing Co-operative Sugar Mills	250.00	—	1.00	—	1.00	1.00
	Total	450.00	—	2.00	1.00	51.00	51.00

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD : CO-OPERATION

(Rs. in lakhs)

Name of Scheme/Project	Sixth Five Year Plan (1980-85) Approved outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83		
			Approved outlay	Anticipa- ted Expen- diture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
9. Industrial Co-operatives							
CN 9.1	Participation in the share capital of Industrial Co-operatives including Federation/ Unions and Projects in Co-operative sector	25.00	5.00	5.00	5.00	5.00	5.00
CN 9.2	Subsidy to CCB's for advancing loans to Industrial Co-operatives at 2½ per cent rate of interest	5.00	0.50	1.00	1.00	0.20	—
CN 9.3	Assistance to Handloom Weavers Co-operatives— Interest concession	5.00	0.20	1.25	0.25	0.20	—
CN 9.4	Assistance to Handloom Weavers Co-operatives for rebate on cloth sale	10.00	1.00	1.50	1.50	1.50	—
CN 9.5	Development of handloom industry—supply of improved appliances	1.00	1.50	—	—	—	—
CN 9.6	Share capital contribution to Punjab Handloom Weavers Apex Co-operative Society	35.00	6.25	7.00	7.00	7.00	7.00
CN 9.7	Managerial subsidy to the Punjab Handloom Weavers Apex Co-operative Society	5.00	0.70	1.00	1.00	1.00	—
CN 9.8	Contribution to share capital of Primary Model Handloom Weavers Co-operative Societies	9.00	0.10	2.00	2.00	2.00	2.00
CN 9.9	Managerial subsidy to Industrial Co-operatives including Handloom Weavers Co-operatives	7.00	1.35	1.50	1.50	1.50	—
CN 9.10	Subsidy to Industrial Co-operatives for employing craft teachers	4.25	1.25	0.75	1.00	1.00	—
CN 9.11	Assistance as loan and share capital for setting up processing units by Handloom Apex	50.00	7.60	10.00	10.00	10.00	10.00
CN 9.12	Assistance as share capital for setting up Handloom Weavers Co-operative Spinning Mills	—	—	—	20.00	49.60	49.60
Total		156.25	25.45	31.00	50.25	79.00	73.60
10. Consumers Co-operatives							
CN 10.1	Contribution to share capital of Central Consumer Stores	5.00	1.00	1.00	1.00	1.00	1.00
CN 10.2	Share capital contribution in State Co-operative Consumers Federation	15.00	9.00	3.00	3.00	3.00	3.00
CN 10.3	Subsidy to State Co-operative Consumers Federation for business and Financial Management Cell	0.50	—	—	—	—	—
CN 10.4	Subsidy for rehabilitation of weak Central Stores/ Federation	5.00	5.00	—	—	—	—
Total		25.50	15.00	4.00	4.00	4.00	4.00
11. Co-operative Education							
CN 11.1	Member education and leadership training of non-officials through Punjab Co-operative Union	3.50	3.50	—	—	—	—
Total		3.50	3.50	—	—	—	—

ANNUAL PLAN 1982-83

STATEMENT II: SCHEMES

HEAD: CO-OPERATION

(Rs. in lakhs)

Name of Scheme/Project	Sixth Five Year plan (1980-85) Approved outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83	
			Approved outlay	Anticipa- ted Expendi- ture	Total	Of which Capital Content
1	2	3	4	5	6	7
12. Co-operative Research and Training						
CN 12-1 Training of Co-operative subordinate personnel	7.50	0.95	2.50	1.00	1.00	—
CN 12-2 Study Tours	0.50	0.12	—	—	—	—
CN 12-3 Subsidy for research and case studies through Punjab Co-operative Union	0.50	0.50	—	—	—	—
Total	8.50	1.57	2.50	1.00	1.00	—
13. Co-operative Information and Publicity						
CN 13-1 Publicity through Punjab Co-operative Union	2.00	2.00	—	—	—	—
Total	2.00	2.00	—	—	—	—
14. Other Co-operatives						
CN 14-1 Share capital contribution to Co-operative Cold Storages	191.25	—	15.30	32.34	45.50	45.50
CN 14-2 Assistance to Co-operative Cold Stores Federation	14.50	—	2.50	—	—	—
Total	205.75	—	17.80	32.34	45.50	45.50
Total Co-operative Department	4,060.00	543.69	804.00	814.33	884.00	787.82
15. Co-operative Audit						
CN 15-1 Staff for Audit of Credit Co-operatives	65.00	—	11.50	3.85	11.15	—
CN 15-2 Staff for Audit of Societies other than credit Co-operatives	6.00	1.14	1.09	1.31	1.17	—
CN 15-3 Training and education of audit staff	0.25	0.05	0.05	0.05	0.05	—
CN 15-4 Direction and Administration of Co-operative Audit	18.75	—	3.36	0.46	3.63	—
Total	90.00	1.19	16.00	5.67	16.00	—
Grand Total	4,150.00	544.88	820.00	820.00	900.00	787.82

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD :—IRRIGATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980—85) Approved outlay	1980-81 Actuals	1981-82		Outlay 1982-83		
			Approved Outlay	Antici- pated expendi- ture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
1. Multipurpose Projects							
MP 1-1	Beas project Unit-I	22-00	19-27	7-00	24-00	27-00	27-00
MP 1-2	Beas project Unit-I (Extension)	100-00	20-22	40-00	32-00	46-00	46-00
MP 1-3	Beas project Unit-II	188-00	51-63	38-00	33-00	76-00	76-00
MP 1-4	Beas project Unit—II (Extension)	470-00	164-16	160-00	188-00	133-00	133-00
MP 1-5	Thein Dam	5300-00	1196-22	1200-00	1201-00	1200-00	1200-00
MP 1-6	Diversion weir of Shahnehar canal	1384-00	445-88	450-00	333-25	283-00	283-00
MP 1-7	Dholbaha Dam	584-00	57-68	150-00	186-20	200-00	200-00
MP 1-8	Shahpur kandi project	5000-00	2-50	20-00	4-92	20-00	20-00
MP 1-9	Low Dams in kandi area	996-00	1-97	50-00	19-50	100-00	100-00
	Total	14044-00	1959-53	2115-00	2021-87	2085-00	2085-00
2. Major and Medium Irrigation Schemes							
IR 2-1	Extension of non-perennial Irrigation to areas in UBDC tract	98-00	18-04	20-00	20-00	20-00	20-00
IR 2-2	Utilisation of surplus Ravi Beas waters	394-00	72-35	90-00	91-02	50-00	50-00
IR 2-3	Extension and Improvement of Shahnehar Canal	2951-00	218-72	350-00	354-11	400-00	400-00
IR 2-4	Lining of Channels	11887-00	1556-04	1848-00	1951-00	1629-00	1629-00
IR 2-5	Pilot Demonstration	279-00	15-47	58-00	36-03	60-00	60-00
IR 2-6	Construction of New disty., minors and bridges	270-00	11-56	30-00	30-00	20-00	20-00
IR 2-7	Sirhind Feeder Scheme	1-00	—	—	—	—	—
IR 2-8	Modernisation of existing canals	50-00	3-91	1-00	1-00	25-00	25-00
IR 2-9	Extension of kandi canal re-oriented with Lift schemes	1078-00	7-49	130-00	12-00	102-00	102-00
IR 2-10	Directorate of Water Resources (kandi water shed & Area Development project)—						
	(i) Technical Assistance, Research and Training	265-00	46-29	85-00	63-57	75-00	75-00
	(ii) Project Administration, Monitoring and Evaluation	32-00	—	8-00	9-92	—	—
IR 2-11	Raising lining of Bhakra Main Canal for providing free board.	20-00	—	1-00	—	1-00	1-00
IR 2-12	Construction of new lined combined Channel of Bikaner Canal and main branch of eastern canal	480-00	—	20-00	—	1-00	1-00
IR 2-13	Providing irrigation facilities to areas left side of Narwana Branch	500-00	—	20-00	—	1-00	1-00
IR 2-14	Providing irrigation facilities to areas of Erstwhile Malerkotla State	150-00	—	2-00	—	1-00	1-00
	Total	18455-00	1949-87	2663-00	2568-65	2385-00	2385-00

ANNUAL PLAN 1982-83
STATEMENTS II—SCHEMES
HEAD : IRRIGATION

(Rs. in lakhs)

Name of the scheme/project	Sixth Five Year Plan (1980—85) Approved Outlay	1980-81 Actuals	1981-82		Outlay 1982-83	
			Approved outlay	Antici- pated ex- penditure	Total	Of which Capital content
1	2	3	4	5	6	7
3. Water Development						
WD 3-1 Investigation of schemes	.. 180.00	22.10	35.00	40.55	40.00	40.00
WD 3-2 Research schemes	.. 50.00	7.39	10.00	10.00	10.00	10.00
Total	.. 230.00	29.49	45.00	50.55	50.00	50.00
Grand Total	.. 32729.00	3938.89	4823.00	4641.07	4520.00	4520.00
Anti-water logging, Drainage and Flood Control						
(i) Flood Control and drainage schemes	.. 2100.00	573.48	350.00	350.00	200.00	200.00
(ii) Anti water logging and drainage schemes for lowering the water table of Faridkot and Muktsar areas.	.. —	—	—	200.00	150.00	150.00
(iii) Dholbaha Dam (Drainage portion)	.. —	—	—	—	50.00	50.00
Total Anti-waterlogging, drainage and flood control	.. 2100.00	573.48	350.00	550.00	400.00	400.00

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : POWER

Name of the Scheme/Project		1980-81		1981-82		(Rs. in lakhs)	
		Sixth Five Year Plan (1980-85) Approved Outlay	Actual Expenditure	Approved Outlay	Anticipated Expenditure	Total	Of which capital content
1		2	3	4	5	6	7
1. GENERATION							
(a) Multipurpose Projects							
MP 1.1	Beas Project Unit-I	324.00	284.24	101.00	354.00	405.00	405.00
MP 1.2	Beas Project Unit-I(Exten.)	1477.00	298.03	590.00	476.00	677.00	677.00
MP 1.3	Beas Project Unit-II	58.00	15.86	11.00	10.00	23.00	23.00
MP 1.4	Beas Project Unit-II (Extension)	143.00	50.43	49.00	58.00	41.00	41.00
MP 1.5	Thein Dam and UBDC Stage-II	7700.00	..	1000.00	..	1000.00	1000.00
Total (a)		9702.00	648.56	1751.00	898.00	2146.00	2146.00
(b) Power Projects							
PP 1.1	Shanan Renovation Project	163.00	52.08	58.00	98.00	35.00	35.00
PP 1.2	Shanan Extension Project	314.00	33.14	210.00	300.00	100.00	100.00
PP 1.3	G.N.D.T.P. Extension Unit-III & IV	872.00	25.21	225.00	225.00	142.00	142.00
PP 1.4	Anandpur Sahib Hydel Project	4169.00	1746.67	1500.00	2924.00	1734.00	1734.00
PP 1.5	Mukerian Hydel Project	10004.00	1116.84	2500.00	2076.00	2266.00	2266.00
PP 1.6	U.B.D.C. Project Stage-I	73.00	8.76	19.00	19.00	25.00	25.00
PP 1.7	Ropar Thermal Project Stage-I	16000.00	1373.87	1800.00	2184.00	7631.00	7631.00
PP 1.8	Participation in Hydel Project with neighbouring States	..	..	..	..	25.00	25.00
PP 1.9	Micro-Hydel Schemes	..	..	..	..	70.00	70.00
PP 1.10	Renovation/Modification of GNDTP Bhatinda	..	..	..	..	200.00	200.00
PP 1.11	Lumpsum Unallocable provision for Generation Projects	763.00	..	..	..	..	..
Total (b)		32358.00	4356.57	6312.00	7826.00	12228.00	12228.00
Total Generation		42060.00	5005.13	8063.00	8724.00	14374.00	14374.00
2. Transmission							
PP 2.1	Beas Transmission Project	(i) BCB 49.00 (ii) PSEB 1050.00	25.72 1099.66	23.00 180.00	16.00 175.00	2.00 186.00	2.00 186.00
PP 2.2	U.B.D.C. Project	331.00	39.67	38.00	21.00	18.00	18.00
PP 2.3	Bhakra Right Bank : PSEB	51.00	20.59	10.00	5.00	5.00	5.00
PP 2.4	G.N.D.T. Project	273.00	46.90	118.00	50.00	53.00	53.00
PP 2.5	G.N.D.T. Extension Project	449.00	53.68	140.00	133.00	181.00	181.00
PP 2.6	Shanan Extension Project	77.00	58.45	30.00	45.00	17.00	17.00
PP 2.7	220/132/66 KV works of 5th Plan connected with new scheme	2686.00	694.32	745.00	860.00	635.00	635.00
PP 2.8	220/132/66 KV works of 6th Plan connected with new schemes	5853.00	171.85	358.00	701.00	1140.00	1140.00
PP 2.9	Transmission lines for Dehar Extension Project	842.00	91.92	308.00	44.00	10.00	10.00
PP 2.10	Sub-Transmission Lines and Sub-Stations	3300.00	289.57	600.00	500.00	441.00	441.00
Total Transmission		14961.00	2592.33	2550.00	2550.00	2688.00	2688.00

ANNUAL PLAN, 1982-83
STATEMENT II : SCHEMES
HEAD : POWER

(Rs. in lakhs)

Name of Scheme/Project	Sixth Five Year Plan (1982-85) Approved Outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83		
			Approved Outlay	Antici- pated Ex- penditure	Total	Of which capital content	
1	2	3	4	5	6	7	
3. Normal Development Works							
PP 3.1	Normal Development and Distribution ..	5594.00	663.70	750.00	750.00	730.00	730.00
PP 3.2	System Improvement and Improvement of T & D System ..	2945.00	280.37	500.00	500.00	582.00	582.00
	Total (3) ..	8539.00	944.07	1250.00	1250.00	1312.00	1312.00
	Total (2+3) ..	23500.00	3536.40	3800.00	3800.00	4000.00 (3300.00)*	4000.00 (3300.00)*
4. Rural Electrification							
PP 4.1	Rural Electrification						
	(i) REC ..	3174.00	1250.83	572.00	572.00	629.00	629.00
	(ii) Plan ..	3960.00	494.86	600.00	600.00	571.00	571.00
	Total (4) ..	7134.00	1745.69	1172.00	1172.00	1200.00	1200.00
5. Power Development							
PP 5.1	Survey and Investigation ..	68.00	16.34	13.00	13.00	13.00	13.00
PP 5.2	Research Station ..	100.00	0.14	12.00	12.00	16.00	16.00
PP 5.3	Load Despatch Centre ..	432.00	6.35	300.00	15.00	15.00	15.00
	Total (5) ..	600.00	22.83	325.00	40.00	44.00	44.00
	Grand Total ..	73294.00	10310.05	13360.00	13736.00	18918.00	18918.00

*Out of the Outlay of Rs 4000.00 lakhs for Trans. & Distribution Works, Rs. 3300.00 lacs would be met from Plan Budget while Rs 700.00 lakhs would be met by reducing the inventory by C.E./T. & S.

ANNUAL PLAN 1982-83

STATEMENT II:—SCHEMES

HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980—85) Approved Outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83		
			Approved Outlay	Anticipa- ted Expendi- ture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
1. Industrial and Financial Institutions							
IN 1-1	Punjab Financial Corporation	100.00	10.00	15.00	15.00	30.00	30.00
IN 1-2	Industrial Financial Corporation of India	1.00	..	..	..	..	..
	Total	101.00	10.00	15.00	15.00	30.00	30.00
2. Investment in Public Undertakings							
IN 2-1	Punjab State Industrial Development Corporation	2950.00	421.00	565.00	420.00	226.50	226.50
IN 2-2	Punjab State Small Industries Corporation	80.50	0.50	20.00	..	..	..
IN 2-3	Punjab State Electronics Development and Production Corporation	200.00	30.00	50.00	50.00	60.00	60.00
IN 2-4	Punjab State Handloom and Textile Development Corporation	100.00	9.00	25.00	25.00	325.00	325.00
IN 2-5	Punjab State Hosiery and Knitwear Development Corporation	125.00	16.00	30.00	23.00	15.00	15.00
IN 2-6	Punjab State Leather Development Corporation	200.00	21.00	50.00	27.90	10.00	10.00
IN 2-7	Punjab Goindwal Industrial and Investment Corporation	..	..	..	128.00	100.00	100.00
	Total	3,655.50	497.50	740.00	673.90	736.50	736.50
3. Direction and Administration							
IN 3-1	Cell for Non-resident Indians	1.06	..	..	..	..	..
IN 3-2	Development of Agro-based Industries and Provision for specific studies feasibility reports, survey research and development	1.00	0.53	..	..	..	..
IN 3-3	Industrial Promotion Cell	10.00	..	3.00	2.38	1.00	..
	Total	12.06	0.53	3.00	2.38	1.00	..
4. Small Scale Industries							
IN 4-1	Credit facilities for the development of Small Scale Industries	40.00	9.99	10.00	10.00	..	..
IN 4-2	Subsidy	1.00	1.00	..	..	..	..
IN 4-3	Grant of 1 per cent subsidy to PFC concessional finances in selected backward districts	0.80	1.03	..	..	..	..
IN 4-4	Grant of 2 per cent subsidy in the rate of interest in loans by PFC for the purchase of generating sets	0.50	0.07	0.10	0.01	0.05	0.05

ANNUAL PLAN 1982-83

STATEMENT II: SCHEMES

HEAD : INDUSTRY AND MINERALS

(Rs in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83		
			Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content	
1	2	3	4	5	6	7	
IN 4.5	Outright Subsidy	225.00	30.00	25.00	25.00	50.00	50.00
IN 4.6	Seven New Industrial Development-cum-Service Centres	100.00	8.65	30.00	26.53	10.00	5.50
IN 4.7	Five New Quality Marking Centres	39.00	3.62	5.00	4.02	2.00	..
IN 4.8	Tool Room, Ludhiana	22.00	24.82	10.00	10.00	5.00	5.00
IN 4.9	Sewing Machine Development Centre, Ludhiana	60.00	..	15.00	14.00	10.00	10.00
IN 4.10	Handtool Designs Institute, Jullundur	22.00	7.80	8.00	7.70	6.00	6.00
IN 4.11	Punjab Test House, Ludhiana	35.00	8.14	5.00	3.34	5.00	5.00
IN 4.12	Machine Tool and Design Development Centre, Batala	1.50	2.08	1.00	..	..	..
IN 4.13	Training of Technical Staff and visit to Industries in other States	2.30	0.15	0.50	0.20	0.25	..
IN 4.14	Modernisation of Small Scale Industries	40.00	6.94	7.00	1.96	0.50	..
IN 4.15	Research and Development Centre for Bicycle, Ludhiana	80.00	..	20.00	18.95	10.00	10.00
IN 4.16	Electronic Development and Testing Laboratory at S.A.S. Nagar	30.00	7.95	5.00	3.13	2.50	..
IN 4.17	Development of Leather Industry	15.00	9.97	..	2.10	..	..
IN 4.18	Consultancy-Technical Services and Testing Facility Centres for Chemical Industries	0.50	..	..	..	..	..
IN 4.19	District Industries Centres	250.00	15.20	50.00	38.33	38.00	23.00
IN 4.20	Shoe and Leather Goods Training Centre, Longowal	0.40	0.92	..	..	..	..
IN 4.21	Interest Subsidy	30.00	1.00	5.00	1.00	..	..
IN 4.23	Extension of existing building of CFTRI at Ludhiana	12.00	6.52	5.00	5.00	2.50	2.50
IN 4.24	Training of Self-employment	5.00	0.43	1.00	1.00	..	..
IN 4.25	Promotion of Self-Employment through Seed/Capital/Margin money	12.00	11.72	..	..	..	..
IN 4.26	Establishment of Industrial/Commercial Estates	5.00	..	..	..	..	..
IN 4.29	Sports Goods Complex	40.00	..	1.00	..	0.10	0.10
IN 4.30	Surgical Instruments Complex	45.00	..	1.00	..	0.10	0.10
IN 4.32	Subsidy for the purchase of generating sets	2.50	2.50	..	..	..	..
IN 4.33	Publicity	15.00	1.39	3.00	3.00	1.00	..
IN 4.34	Decentralised Leather Workers	30.00	..	..	..	..	..
IN 4.35	Marketing Assistance Programme—						
	(i) Export Award	2.30	0.30	0.50	0.50	0.50	..
	(ii) Participation in Industrial Fairs	21.00	1.50	3.00	3.00	1.80	..
	(iii) Trade Centres	16.00	..	3.00	..	..	..
	(iv) Export Assistance including aid for registration with Export Promotion Council	3.20	1.50	0.50	0.50	0.50	..
	(v) Dis-semination of Marketing Intelligence	4.00	..	1.00	..	..	..

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan 1980-85 Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83	
			Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content
1	2	3	4	5	6	7
IN 4-36 Implementation of Quality Control ..	8.00	..	2.00	2.00	2.00	..
IN 4-37 Incentives for Project report for installation of effluent treatment Plant ..	25.00	..	3.00	2.43	1.00	..
IN 4-38 Chief Inspector of Boilers ..	6.50	..	1.25	—	1.00	..
Total ..	1247.50	165.19	221.85	184.30	149.80	117.25

5. Industrial Estates

N 5-1 Industrial Estates/Incentives to New Industries—

(i) Acquisition of Land—

(a) Focal Growth Points ..	850.00	212.00	100.00	108.00	15.00	15.00
(b) D.C.W. Patiala ..	..	..	..	230.00	100.00	100.00
(c) Goindwal Complex ..	..	..	..	42.00	100.00	100.00
(ii) Loans to PSSIC ..	195.00	35.00	25.00	..	10.00	10.00
(iii) Interest free loans ..	1015.00	179.68	175.00	175.00	70.00	70.00
(iv) Maintenance charges ..	12.00	5.00	1.75	1.75	2.00	..
(v) Electricity charges of street light at Focal Points ..	13.50	1.58	2.00	2.00	2.00	..
(vi) Investment loans ..	7.00	..	0.25	—	..	..
(vii) Land Subsidy ..	621.00	8.09	100.00	15.00	10.00	10.00
(viii) Reimbursement of Octroi/Terminal tax ..	35.00	0.50	5.00	5.00	5.00	..
(ix) Feasibility Report ..	8.00	0.34	1.00	1.00	1.00	..
(x) Subsidy on Electricity tariff ..	49.50	61.50	14.00	14.00	15.00	..
Total ..	2806.00	503.69	424.00	593.75	330.00	305.00

6. Handloom Textile Industries

N 6-1 (i) Programme for the Handloom Industry ..	12.00	..	3.00	3.00	3.00	3.00
(ii) Installation of Jacquard machines ..	2.50	2.50	..	..	..	..
(iii) Interest free loan for margin money ..	0.50	0.50	..	..	..	..
(iv) Training of Weavers ..	2.50	0.50	0.50	0.50	0.50	..
(v) Rebate on Sale of Cotton Handloom Cloth ..	18.00	2.00	4.00	4.00	4.00	..
(vi) Training-cum-Production Centre in Sub-mountain area ..	12.50	1.76	2.50	2.19	2.50	..
(vii) Construction of Workshop for Weavers ..	2.00	2.00	..	..	..	..
(viii) Special Training Scheme for Handloom Weavers ..	..	..	..	20.00	10.00	3.00
Total ..	50.00	9.26	10.00	29.69	20.00	6.00

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : INDUSTRY AND MINERALS

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five- Year Plan 1980-85 Approved Outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83		
			Approved Outlay	Anticipa- ted Expendi- ture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
7. Village Industries							
IN 7-1	Integrated Rural Development Programme	175.00	29.17	35.00	18.00	25.00	25.00
	Total	175.00	29.17	35.00	18.00	25.00	25.00
8. Handicrafts							
IN 8-1	Development of Handicraft Industries	20.00	1.71	4.00	2.78	4.00	..
IN 8-2	Carpet Weaving Training Centres to be set up by PSSIC	50.00	..	10.00	..	..	..
	Total	70.00	1.71	14.00	2.78	4.00	..
9. Sericulture							
IN 9-1	Development of Sericulture Industries	30.00	2.85	6.00	2.04	2.70	0.70
	Total	30.00	2.85	6.00	2.04	2.70	0.70
10. Statistics							
IN 10-1	Statistical Cell	1.00	..	0.15	..	..	..
	Total	1.00	..	0.15	..	..	..
11. Mines and Minerals							
IN 11-1	Development of Mines and Minerals	20.00	3.00	7.00	9.00	1.00	..
	Total	20.00	3.00	7.00	9.00	1.00	..
12. Weights and Measures							
IN 12-1	Implementation of Weights and Measures Act	15.00	0.96	3.00	1.50	2.00	1.29
	Total	15.00	0.96	3.00	1.50	2.00	1.29
Grand Total		8183.00	1223.86	1479.00	1532.34	1302.00	1221.74

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : ROADS AND BRIDGES

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five- Year Plan (1980-85) Approved outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83		
			Approved outlay	Anticipa- ted ex- penditure	Total	Of which Capital content	
1	2	3	4	5	6	7	
1. State Highways, District and Other Roads							
RD 1-1	Main Roads and Missing links	120.00	29.06	50.00	20.00	30.00	30.00
RD 1-2	Improvement/Widening and providing additional crust on existing roads	1850.00	555.26	400.00	385.00	100.00	100.00
RD 1-3	Arboriculture and landscaping of roads	15.00	—	5.00	—	—	—
2. Machinery and Equipment							
RD 2-1	Machinery	250.00	0.69	50.00	33.14	8.00	8.00
3. Minimum Needs Programme							
RD 3-1 (I)	Village Roads	2000.00	425.54	410.00	410.00	407.00	407.00
	(ii) Zila Parishad Roads	80.00	—	20.00	20.00	—	—
4. Safety Works including Bridges							
RD 4-1	Bridges	1745.00	155.13	200.00	200.00	250.00	250.00
5. Other Expenditure							
RD 5-1	Central Road Fund	300.00	75.74	60.00	40.12	40.00	40.00
RD 5-2	Improvement of Roads within M.C. limits	230.00	41.99	50.00	50.00	45.00	45.00
RD 5-3	Bye-passes	360.00	17.81	50.00	41.74	20.00	20.00
RD 5-4	Research and Development, field training, Labs. & purchase of equipment	50.00	—	5.00	—	—	—
Total		7050.00	1301.22	1300.00	1200.00	900.00	900.00

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD : ROAD TRANSPORT

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five- Year Plan (1980-85) Approved outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83	
			Approved outlay	Anticipa- ted Ex- penditure	Total	Of which Capital content
1	2	3	4	5	6	7
RT 1 Pepsu Road Transport Corporation (share capital contribution)	1025.00	305.00	305.00	305.00	305.00	305.00
RT 2 Punjab Roadways :						
(i) Land & Building	178.00	185.14	30.00	30.00	141.00	141.00
(ii) Acquisition of fleet—						
(a) Addition	1154.00	305.24	200.00	200.00	—	—
(b) Replacement	1609.00	894.21	260.00	260.00	312.00	312.00
(iii) Workshop facilities	25.50	27.64	3.50	3.50	2.00	2.00
(iv) Other Expenditure	8.50	1.03	1.50	1.50	1.00	1.00
(v) Refabrication of bus bodies	—	68.74	—	—	—	—
Total (i) to (v)	2975.00	1482.00	495.00	495.00	456.00	456.00
Total RT 1 & RT 2	4000.00	1787.00	800.00	800.00	761.00	761.00

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD : CIVIL AVIATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980-85) Approved outlay	1980-81 Actual expen- diture	1981-82		Outlay 1982-83		
			Approved outlay	Anticipa- ted ex- penditure	Total	Of which Capital content	
1	2	3	4	5	6	7	
CIVIL AVIATION							
1. Training & Education							
AV 1.1	(i) Provision for aircraft Maintenance Engineering School at Patiala	28.00	8.00	5.00	5.00	5.00	—
	(ii) Provision for Simulator Training	8.00	—	2.00	2.00	2.00	—
2. Aerodromes and Air Route Services							
AV 2.1	Extension of hostel building and construction of canteen, Rest House, VIP lounge etc.	5.00	2.50	1.00	1.00	—	—
3. Machinery and Equipment							
AV 3.1	Advanced training of pilots	29.00	19.00	6.00	6.00	7.00	7.00
	Total	70.00	29.50	14.00	14.00	14.00	7.00
	Tourism Corporation (Share capital contribution)	255.00	45.00	45.00	30.00	25.00	25.00

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980-85) Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83		
			Approved outlay	Anticipated expenditure	Total	Of which Capital Content	
1	2	3	4	5	6	7	
GENERAL EDUCATION							
SCHOOL EDUCATION							
A. Elementary Education Classes I-V							
ED 1-1	Expansion of facilities for full time schools : —						
	(a) Opening of single teacher Primary Schools	15.39	1.45	1.45	1.86	2.00	—
	(b) Furniture for Government Primary Schools	47.00	7.17	—	—	5.00	—
	(c) Improvement of Primary Schools	18.00	0.49	1.80	2.05	2.20	—
	(d) Lavatories and drinking water facilities	20.40	1.88	0.80	0.80	0.80	—
	(e) Library services	8.79	3.07	1.70	1.70	0.40	—
B. Non-formal Education							
	Part time Classes 1 to 6 (6-11) introduction of Non-formal Education Programme.	17.00	2.20	2.50	2.49	2.50	—
ED 1-2	Construction of Class Rooms/School Buildings	510.00	49.72	100.00	84.33	100.00	100.00
ED 1-3	Replenishment/provision of Science kits for Primary Schools,	15.27	1.88	—	—	—	—
ED 1-4	Administration and Supervision additional staff	70.15	—	11.25	—	1.00	—
ED 1-5	Inservice Training of J.B.T. Teachers	4.00	—	0.50	0.50	0.50	—
	Total : Primary Education	726.00	67.86	120.00	93.73	114.40	100.00
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	—	—	—	—	—	—
	(b) Upgradation of Primary Schools to Middle standard	504.53	46.24	77.26	114.28	128.24	—
	(c) Posts of P.T.I's for Government Middle Schools and Middle Department of High/Higher Secondary Schools	69.40	13.91	16.28	17.08	19.52	—
	(d) Additional posts of Masters/Mistresses on account of additional enrolment	342.90	53.20	60.79	67.05	70.20	—
ED 2-2	Non-Formal Education	15.00	0.84	2.00	1.00	2.50	—
ED 2-3	Children Theatre Group : —						
	(i) Children Theatre Group	14.20	1.29	2.50	1.38	—	—
	(ii) Integrated Education for physically handicapped children,	8.52	—	0.77	0.77	0.77	—

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD :—GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Year Plan (1980-85) Approved Outlay	Five 1980-81 Actual Expenditure	1981-82		Outlay	1982-83
			Approved outlay	Anticipated expenditure	Total	Of which Capital Content
1	2	3	4	5	6	7
ED 2.4 Construction of Buildings :—						
(i) Class Rooms/School buildings	11.00	2.32	2.00	2.00	1.00	1.00
(ii) Science rooms for Government Middle Schools	19.00	—	10.00	7.68	1.00	1.00
(iii) Integrated Education for physically handicapped children	4.20	—	1.40	1.40	0.50	0.50
ED 2.5 Qualitative Improvements—						
(i) Works experience (Vocationalisation of Education)	126.23	—	—	—	—	—
(ii) Strengthening of Science Education :—						
(a) Additional post of Science Master's/Mistress	126.60	19.01	22.18	21.60	25.92	—
(b) Supply of Science Kits for Government Middle Schools	13.39	1.38	12.00	12.00	—	—
(c) Replacement of Science Kits for Government Middle Schools.	—	—	—	—	—	—
(iii) Introduction of Domestic Science in Government Middle Schools and Middle Departments of High/Higher Secondary Schools.	4.00	0.45	0.77	0.70	0.86	—
ED 2.6 Additional Staff for Supervision	127.08	5.60	5.07	6.43	5.70	—
Total	1386.05	144.24	213.02	252.77	256.61	2.50
3. Secondary Education (High/Higher Secondary Schools)						
ED3.1 Upgradation of Government Middle Schools to high standard	750.18	121.85	207.39	226.28	276.15	—
ED3.2 Scholarships for poor but brilliant students	33.24	5.35	6.56	5.56	6.56	—
ED 3.3 Construction of buildings :—						
(i) Science Laboratories	22.50	1.26	10.00	10.00	2.00	2.00
(ii) Extension of existing buildings/construction of new buildings	159.36	37.27	21.72	21.72	5.00	5.00
ED 3.4 Improvement of programme :—						
(i) Strengthening of Science Education :—						
(a) Holding of Science Talent Search Examination	2.92	0.18	0.68	0.68	0.68	—
(b) Creation of posts of Laboratory Attendants	82.01	9.61	14.04	14.77	15.12	—
(ii) Work experience(vocationalisation of Education at Secondary Stage)	254.21	28.82	36.37	34.58	36.34	—
(iii) Other improvement in Schools :—						
(a) Introduction of Library Service in Govt. High/Higher Secondary Schools	38.81	5.95	7.02	7.46	7.92	—
(b) Improvement of High Schools	—	—	—	—	—	—

ANNUAL PLAN, 1982-83
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan, (1980-85) Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83	
			Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content
1	2	3	4	5	6	7
(iv) Diversification of Courses :-						
(a) Introduction of Home Science in Govt. High/Higher Secondary Schools	5.46	0.76	1.00	1.00	1.11	—
(b) Introduction of the subject of Music	9.28	0.94	1.71	1.48	1.83	—
(v) Lavatory and drinking water facilities for Girls students	—	—	—	—	—	—
Total	1357.97	211.99	306.49	323.53	352.71	7.00
4. Teachers Education—						
ED 4.1 Secondary stages :						
(i) Inservice Training of Teachers	50.00	10.00	10.00	8.94	8.00	—
(ii) SCERT	20.50	—	3.00	3.00	3.00	—
(iii) Technology Cell	—	2.44	—	1.91	2.21	—
(iv) Population Education Project (state share)	—	—	—	—	0.11	—
Total	70.50	12.44	13.00	13.85	13.32	—
5. Adult Education—						
ED 5.1 Introduction of Social Education Programme						
	100.00	—	15.60	10.60	8.40	—
Total	100.00	—	15.60	10.60	8.40	—
6. Physical Education, Games and Sports and Youth Services :-						
ED 6.1 Holding of Coaching Camps and competitions	1.50	1.46	—	—	—	—
ED 6.2 Creation of posts of D.P. Es.	102.20	16.69	19.32	19.32	20.60	—
ED 6.3 Starting of Sportes Wings	27.64	2.62	5.40	3.90	4.56	—
Total	131.34	20.77	24.72	23.22	25.16	—
7. Additional Staff for Direction and Administration and Supervision :-						
ED 7.1 Additional Inspection Staff						
	20.14	2.76	3.67	3.15	4.15	—
Total	20.14	2.76	3.67	3.15	4.15	—
Total School Education	3066.00	392.20	576.50	627.12	660.35	9.50
II. COLLEGE AND UNIVERSITY EDUCATION						
8. Direction, Administration and Supervision :-						
ED 8.1 Strengthening of Education Administration						
	18.50	—	2.25	1.20	1.00	—
ED 8.2 Strengthening of Planning Machinery in the Directorate						
	3.50	—	0.65	—	—	—
Total	22.00	—	2.90	1.20	1.00	—

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five year Plan, (1980-85) Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83	
			Approved Outlay	Anticipated Expenditure	Total	Of which capital content
1	2	3	4	5	6	7
9. Assistance to Universities :—						
ED 9.1 Grant-in-aid to Universities	275.00	55.00	40.00	40.00	10.00	—
Total	275.00	55.00	40.00	40.00	10.00	—
10. Government Colleges :—						
ED 10.1 Expansion of facilities	191.50	8.31	48.85	31.19	10.04	5.00
ED 10.2 Improvement of existing colleges	263.00	26.36	39.00	33.75	32.00	5.00
ED 10.3 Development of College Education under U.G.C. sharing scheme	37.00	—	2.00	2.00	5.00	—
ED 10.4 Strengthening of College Administration	5.00	—	1.00	—	—	—
ED 10.5 Opening of Careers Wings in Govt. Colleges	2.00	—	2.00	7.19	6.17	—
Total	498.50	28.67	92.85	74.13	53.21	10.00
11. Assistance to Non-Government Colleges :—						
ED 11.1 Grant-in-aid to Non-Government Colleges	12.00	—	—	—	—	—
Total	12.00	—	—	—	—	—
12. Students Welfare :—						
ED 12.1 Hostels for Government Colleges	25.50	4.27	3.75	3.55	3.75	3.00
Total	25.50	4.27	3.75	3.55	3.75	3.00
13. Scholarships :—						
ED 13.1 State Merit Scholarships	25.00	5.00	5.00	5.00	5.26	—
Total	25.00	5.00	5.00	5.00	5.26	—
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 & Strengthening of District Libraries	37.00	2.49	3.50	3.37	6.03	2.00
Total	37.00	2.49	3.50	3.37	6.03	2.00
Total University and Higher Education	900.00	95.43	148.00	127.25	79.25	15.00
16. Languages :—						
ED 16.1 Development of Languages—Hindi, Punjabi and Urdu	58.38	5.82	12.31	8.61	9.79	—
ED 16.2 Promotion of Regional Languages (State share for Punjab University Text Book Board)	44.62	5.90	6.04	6.04	7.21	—
Total	103.00	11.72	18.35	14.65	17.00	—

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD: GENERAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980-85) Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83		
			Approved outlay	Anticipated expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
17. Youth Services							
ED 17-1	Punjab Inter-University youth Festivals	2.50	—	0.50	0.48	0.50	—
ED 17-2	Teachers Training Camp for College/Higher Secondary/High Schools	1.73	0.09	0.35	0.12	0.12	—
ED 17-3	(a) Youth Leadership Training Campus	8.00	0.81	1.45	0.95	0.20	—
	(b) Hiking, Trekking, Mountaineering in High altitude Areas	4.78	0.72	0.90	0.90	0.70	—
ED 17-4	Grant-in-aid to village youth Clubs	2.99	0.20	0.55	0.52	0.50	—
ED 17-5	Inter-State Tours	7.40	1.00	1.55	1.55	0.21	—
ED 17-6	Grant-in-aid to College/Schools Youth Clubs	3.50	0.28	0.65	0.60	0.60	—
ED 17-7	N.S.S. (State share)	45.85	7.56	8.75	7.93	9.17	—
	Total	76.75	10.66	14.65	13.05	12.00	—
18. Sports and Games							
ED 18-1	Coaching Schemes	42.75	5.80	5.75	5.45	6.00	—
ED 18-2	Competition Scheme	27.00	4.58	5.00	4.00	4.50	—
ED 18-3	Scholarships	14.25	2.60	2.60	2.60	2.60	—
ED 18-4	Purchase of Sports Equipment	31.55	5.90	5.75	5.75	6.00	—
ED 18-5	State Sports Academy	27.10	0.10	1.00	0.93	1.40	—
ED 18-6	Sports Hostels	32.35	4.87	4.90	4.90	5.50	—
ED 18-7	Construction of Sports Complexes (Grant-in-aid)	55.00	10.89	10.00	10.00	8.00	—
	Total	230.00	34.74	35.00	33.63	34.00	—
19. Archives							
ED 19-1	Opening of State Archives Repository at Chandigarh	5.00	—	0.50	—	0.50	—
ED 19-2	Opening of Regional Archives Centre at Divisional level, Ferozepur and Jullundur	—	—	—	—	0.50	—
	Total	5.00	—	0.50	—	1.00	—
20. Archaeology and Museum							
ED 20-1	Conservation of Ancient and Historical Monuments (Office expenses)	30.00	4.00	7.00	7.00	4.00	—
ED 20-2	Excavation and Exploration	2.00	0.30	0.50	0.50	0.30	—
ED 20-3	Display Equipment for Museum including purchase of Art Objects and Antiques	5.00	0.90	1.50	1.50	2.00	—

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs in lakhs)

Name of the Scheme/Project	Sixth Five- Year Plan 1980-85 Approved outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83	
			Approved outlay	Anticipa- ted Expendi- ture	Total	Of which capital content
1	2	3	4	5	6	7
ED 20.4 Development of Arch. Lib.	1.00	0.06	0.10	0.10	0.20	—
ED 20.5 Equipment and Machinery	3.00	0.42	0.50	0.50	0.50	—
ED 20.6 Transplantation of Paintings	3.00	—	0.50	0.50	0.50	—
ED 20.7 Strengthening of Archaeology and Museum Department, administrative and other staff	3.00	—	0.50	0.20	0.60	—
ED 20.8 Publication of Arch. Reports	3.00	0.01	0.10	0.10	0.20	—
ED 20.9 Setting up of Arch. Lab.	3.00	0.11	0.50	0.50	0.70	—
ED 20.10 Opening of New Museums	4.00	—	0.80	0.80	1.00	—
ED 20.11 Canon Park Shed	3.00	—	0.50	0.45	0.50	—
ED 20.12 Landscaping/beautification around monuments	3.00	—	0.50	0.50	0.50	—
Total	63.00	5.80	13.00	12.65	11.00	—
21 Promotion of Art and Culture :—						
ED 21.1 Revival of Folk Songs and Dances	10.00	0.51	1.50	1.00	0.50	—
ED 21.2 Setting up of Punjabi Culture Centre at Delhi	50.00	—	0.05	0.05	0.45	0.45
ED 21.3 Setting up of Punjab Culture Village at Chhat Bir	5.00	—	0.05	0.05	0.05	—
ED 21.4 Sponsoring of Cultural Troups to other States	7.00	1.25	1.50	1.50	1.00	—
ED 21.5 Grant-in-aid to the institutes engaged in the Promotion of Art and Culture	10.00	6.00	1.00	1.00	1.00	—
ED 21.6 Holding of Musical and Cultural Conference/ Seminar and Celebration	3.00	—	0.40	0.40	0.50	—
ED 21.7 Strengthening of Cultural Affairs Wing Administrative and Technical Staff	5.25	—	1.00	0.50	0.50	—
Total	90.25	7.76	5.00	5.00	4.00	0.45
22. Chhatbir Complex						
ED 22.1 Setting up of International Children Home at Chhatbir	40.00	0.43	2.00	0.92	2.00	2.00
Total	40.00	0.43	2.00	0.92	2.00	2.00
Grand Total	5,300.00	626.60	933.00	928.00	935.00	126.95

ANNUAL PLAN, 1982-83

STATEMENT II: SCHEMES

HEAD : TECHNICAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved outlay	1980-81 Actual expenditure	1981-82		Outlay 1982-83		
			Approved outlay	Anticipated expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
1. Direction and Administration							
TE 1.1	Strengthening of directorate	10.00	—	1.00	0.15	2.00	—
	Total	10.00	—	1.00	0.15	2.00	—
Engg. Colleges							
(a) Private Engg. Colleges—							
TE 2.1	Diversified degree courses in industrial design (Mech. Engg.) at T.I.E.T. Patiala	6.00	—	1.00	1.50	1.00	—
TE 2.2	Diversified degree course in electronics & electrical communication at GNEC, Ludhiana and T.I.E.T., Patiala	10.00	0.10	3.00	3.00	0.50	—
TE 2.3	Part-time degree course in engg. colleges	3.00	—	—	—	1.00	—
TE 2.4	Consultancy services in GNEC, Ludhiana	3.00	0.20	0.50	0.50	—	—
TE 2.5	Development funds for the G.N.E.C., Ludhiana	22.50	7.50	7.50	7.50	7.50	—
TE 2.6	Development of Metrology and Heat Transfer at G.N.E.C., Ludhiana	1.00	—	1.00	1.00	—	—
	Total	45.50	7.80	13.00	13.50	10.00	—
(b) Govt. Engg. Colleges—							
TE 2.7	Setting up of a Govt (New) Engg. College	86.00	—	5.00	—	14.50	14.50
TE 2.8	Setting up an Institute of Enterprenural Development and Management	—	—	—	—	0.40 (Token)	—
	Total	86.00	—	5.00	—	14.90	14.50
3. Polytechnics							
(a) Govt. Polytechnics							
TE 3.1	Diploma course in electronics and electrical communication and commercial practices at Govt. Poly., Hoshiarpur	—	0.11	—	—	—	—
TE 3.2	Production-cum-training centre at Govt. Poly., Amritsar	5.00	—	1.00	—	0.50	—
TE 3.3	Service-cum-training centre at Poly., Batala	5.00	—	0.50	—	0.50	—
TE 3.4	Setting up of a new Govt. Poly. at Bhatinda	65.00	—	18.00	12.00	20.00	15.00
TE 3.5	Part-time Civil/Elect./Mech. diploma course at Govt. Poly., Hoshiarpur/Batala/Amritsar	5.00	0.40	2.50	1.35	1.00	—
	Total	80.00	0.51	22.00	13.35	22.00	15.00

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : TECHNICAL EDUCATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved outlay	1980-81 Actual expenditure	1981-82		Outlay 1982-83		
			Approved outlay	Anticipated expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
(b) Private Polytechnics							
TE 3.6	3-Years Architectural Assistantship course at Thapar Poly., Patiala	5.00	—	1.00	—	0.05 (Token)	—
TE 3.7	3-Years diploma course in electronics at M. C. Poly., Jullundur	1.00	—	1.00	1.00	1.00	—
TE 3.8	1-Year-Post diploma course in Hospital Engg. at Thapar Poly., Patiala	2.50	—	2.25	2.25	0.05 (Token)	—
TE 3.9	Part-time diploma course at Jullundur & Ludhiana	1.00	—	0.50	0.25	0.50	—
	Total	9.50	—	4.75	3.50	1.60	—
Industrial Training Wing							
TE 4.1	Introduction of new courses at Govt. Poly. for women, Jullundur	7.00	0.11	1.00	0.64	1.50	1.00
TE 4.2	Starting of 2nd shift at Punjab Institute of Textile Technology, Amritsar	3.00	0.10	0.50	0.76	0.50	—
TE 4.3	Modernisation of building/machinery/equipment/library in special trade diploma level institutes	23.00	0.86	4.25	2.25	3.00	—
	Total	33.00	1.07	5.75	3.65	5.00	1.00
Other Programmes							
TE 5.1	Modernisation/strengthening of equipment in polytechnics	18.00	2.86	6.20	3.25	2.40	—
TE 5.2	Scholarships	1.00	—	—	—	0.10	—
TE 5.3	Student amenities and development of campus	6.00	1.24	0.90	0.90	0.80	0.80
TE 5.4	Development of libraries	3.00	0.50	0.40	0.40	0.40	—
TE 5.5	Book bank for poor students	3.00	0.50	0.50	0.50	0.40	—
TE 5.6	Staff quarters in Govt. Polytechnics	5.00	0.53	0.50	0.92	0.40	0.40
	Total	36.00	5.63	8.50	5.97	4.50	1.20
	Grand Total	300.00	15.01	60.00	40.12	60.00	31.70

ANNUAL PLAN 1982-83
STATEMENT II: SCHEMES
HEAD : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83		
			Approved Outlay	Anticipated expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
MEDICAL EDUCATION AND RESEARCH							
1. Direction and Administration							
MD-1.1	Strengthening of office of DRME, Punjab	6.00	0.63	1.50	1.00	1.25	—
	Total	6.00	0.63	1.50	1.00	1.25	—
2. Medical Relief							
MD 2.1	Expansion and Improvement of S.G.T.B. Hospital, Amritsar	220.00	80.13	39.00	34.00	33.00	10.00
MD 2.2	Expansion and Improvement of Rajindra Hospital, Patiala	210.00	39.69	37.10	52.02	35.00	10.00
MD 2.3	Expansion and Improvement of T. B. Hospital, Amritsar	26.00	3.44	3.00	2.75	2.00	—
MD 2.4	Expansion and Improvement of T. B. Hospital, Patiala	20.00	2.61	3.00	2.40	1.75	—
	Total	476.00	125.87	82.10	91.17	71.75	20.00
3. Medical Education							
MD 3.1	Expansion and Improvement of Medical College, Amritsar	85.00	7.52	14.00	13.00	15.00	3.00
MD 3.2	Expansion and Improvement of Medical College, Patiala	71.00	8.79	14.00	12.94	12.00	—
MD 3.3	Expansion and Improvement of Dental College, Amritsar	25.00	2.79	5.00	5.29	5.00	1.00
MD 3.4	Expansion and Improvement of Dental Wing, Patiala	20.00	2.18	3.00	3.22	2.00	—
MD 3.5	Extra Coaching to Scheduled Castes MBBS Students in Medical Colleges	2.00	—	0.40	—	—	—
MD 3.6	Taking over of Guru Gobind Singh Medical College, Faridkot	900.00	204.79	138.00	138.00	58.00	10.00
	Total	1,103.00	226.07	174.40	172.45	92.00	14.00
4. Research							
MD 4.1	Grant for Applied Research	10.00	2.00	2.00	2.00	2.00	—
	Total	10.00	2.00	2.00	2.00	2.00	—
5. Training							
MD5.1	Augmentation of training facilities for Para-Medical Staff	25.00	0.08	5.00	2.05	3.00	—
	Total	25.00	0.08	5.00	2.05	3.00	—
6. Operational Cost of Centrally-Sponsored Scheme							
MD 6.1	Reorientation of Medical Edu.	60.00	4.12	7.00	7.14	10.00	5.00
MD 6.2	Visual Impairment and prevention of Blindness	20.00	1.15	3.00	—	This scheme is now 100% Centrally Sponsored Scheme	
	Total	80.00	5.27	10.00	7.14	10.00	5.00
	Total : Medical Education and Research	1,700.00	359.92	275.00	275.81	180.00	39.00

ANNUAL PLAN 1982-83

STATEMENT II: SCHEMES

HEAD : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83		
			Approved Outlay	Anticipated expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
PUBLIC HEALTH							
1. Minimum Needs Programme							
PH 1.1	Completion and Improvement of Primary Health Centre's	48.00	25.94	3.95	3.95	5.45	4.00
PH 1.2	Completion and Improvement of Sub-Centres	273.00	—	35.00	25.24	11.25	1.00
PH 1.3	Opening of Subsidiary Health Centres in Rural Areas	995.00	119.40	222.60	247.00	325.00	15.00
PH 1.4	Improvement of Subsidiary Health Centres	1.00	—	—	—	—	—
PH 1.5	Establishment of Community Health Centres	—	—	—	—	0.10	—
Total		1,317.00	145.34	261.55	276.19	341.80	20.00
2. Other Rural Health Services							
PH 2.1	Establishment of 25 bedded Block Level Rural Hospitals	278.30	35.74	55.00	61.65	50.00	—
PH 2.2	Establishment of Dental Clinics	50.00	4.25	8.50	9.70	8.50	—
PH 2.3	Providing Specialist Teams in Rural Areas	22.00	—	4.00	—	—	—
Total		350.30	39.99	67.50	71.35	58.50	—
3. Hospitals/ Dispensaries							
PH 3.1	Opening of new Dispensaries in Slum Areas/ suitable urban places	50.00	4.67	9.50	9.50	12.00	—
PH 3.2	Improvement of Punjab Mental Hospital, Amritsar	4.00	0.01	1.00	1.00	1.00	1.00
PH 3.3	Provincialisation of Local Bodies Hospitals/ Dispensaries	40.00	4.68	7.00	7.00	11.50	—
PH 3.4	Upgradation of existing Hospital's	233.00	39.33	39.00	61.61	25.00	4.00
PH 3.5	Establishment of Intensive Care Unit in District Level Hospitals	7.00	0.71	1.30	6.50	1.45	—
Total		334.00	49.40	57.80	85.61	50.95	5.00
4. Control/Eradication of communicable diseases (50 : 50 sharing basis) State share							
PH 4.1	National Malaria Eradication Programme (Rural)	605.30	115.00	133.00	133.00	130.00	—
PH 4.2	National Malaria Eradication Programme (Anti-Larval)	77.20	15.00	17.75	17.75	18.00	—
PH 4.3	National T. B. Control Programme	58.00	3.60	6.75	6.75	7.00	—
PH 4.4	National Leprosy Control Programme	4.00	0.17	0.75	—	Converted into 100% Centrally Sponsored Scheme	—
PH 4.5	National Programme for Control of Visual Impairment and Blindness	22.50	—	2.00	—	Do	—
PH 4.6	Training and Employment of Multipurpose Workers Scheme	60.00	14.43	12.10	12.10	8.50	—
PH 4.7	Provision of additional laboratory technicians at each PHC	—	—	—	—	0.10	—
Total		827.00	148.20	172.35	169.60	183.60	—

ANNUAL PLAN 1982-83

STATEMENT H : SCHEMES

HEAD : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved Outlay	1980-81 Actual Expenditure	1981-82		Outlay 1982-83		
			Approved Outlay	Anticipated Expenditure	Total	Of which Capital Content	
1	2	3	4	5	6	7	
5. Other Programmes							
PH 5.1	Administrative Re-organisation of the Punjab Health Department	9.00	—	2.00	—	0.01	—
PH 5.2	Strengthening of State Health and District Laboratories	4.00	0.38	0.70	0.66	0.75	—
PH 5.3	Strengthening of Drug and Food Standard Control Organisation	14.50	0.19	2.50	0.81	2.50	—
PH 5.4	Strengthening of Health Statistics Organisation	10.50	1.71	2.00	2.00	2.50	—
PH 5.5	Multipurpose Workers Scheme	20.0	19.78	—	—	—	—
PH 5.6	Estt. of Central Medical Store, Punjab	2.70	0.73	—	—	—	—
PH 5.7	Estt. of Health Equipment and Maintenance Repair Unit	10.00	—	5.00	5.00	1.90	—
PH 5.8	Expansion of Immunisation Prog.	7.00	—	1.10	—	0.01	—
PH 5.9	Comprehensive Health Care Service Project	20.00	—	5.00	5.00	—	—
PH 5.10	Hospital Treatment of Diarrhoea diseases by Oral Rehydration Therapy	7.00	—	1.50	1.50	1.50	—
PH 5.11	Grant of additional incentives compensation out of State Funds to acceptors of sterilisation	—	—	—	33.00	21.00	—
PH 5.12	Pay of Dais	—	—	—	10.00	10.00	—
PH 5.13	Providing independent feeders to provide continue light in hospitals	—	—	—	—	0.70	—
PH 5.14	Setting up of Glucose Saline Manufacturing Unit, Ludhiana	—	—	—	—	1.78	—
Total		104.70	22.74	19.80	57.97	42.65	—
6. Employees State Insurance Corporation							
PH 6.1	E.S.I. Scheme	62.00	6.40	11.00	11.00	12.50	—
Total		62.00	6.40	11.00	11.00	12.50	—
Total : Public Health		2995.00	434.81	590.00	671.72	690.00	25.00
III. I.S.M.							
AY 1.1	Strengthening of existing I.S.M. Dispensaries	32.89	4.50	5.30	5.30	1.00	—
AY 1.2	Opening of I.S.M. dispensaries	107.40	12.09	20.00	19.13	18.75	—
AY 1.3	Improvement and Expansion of Govt. Ayurvedic College, Patiala	4.07	0.71	0.70	0.70	0.75	—
AY 1.4	Improvement and Expansion of Govt. Ayurvedic Hospital, Patiala	1.20	0.20	—	—	—	—
AY 1.5	Improvement and Expansion of Govt. Ayurvedic Pharmacy, Patiala	3.14	0.34	0.40	0.40	0.45	—
AY 1.6	Strengthening of Ayurvedic Headquarters Staff	3.70	1.19	0.70	0.70	0.55	—
AY 1.7	Strengthening of District Headquarters Staff	12.60	2.39	0.90	1.93	1.50	—
Total I.S.M.		165.00	21.42	28.00	28.16	23.00	—
IV. Homoeopathy							
HM 1.1	Strengthening of State Headquarter Staff	7.55	—	1.95	1.99	1.60	—
HM 1.2	Opening of Homoeopathy Dispensaries	32.45	—	5.05	5.26	5.40	—
Total		40.00	—	7.00	7.25	7.00	—
Grand Total		4900.00	816.15	900.00	982.94	900.00	64.00

ANNUAL PLAN : 1982-83
STATEMENT II : SCHEMES
HEAD : RURAL WATER SUPPLY

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980—85) Approved outlay	1980-81	1981-82		Outlay 1982-83	
		Actual expendi- ture	Approved outlay	Anticipat- ed expen- diture	Total	Of which capital content
1	2	3	4	5	6	7
Rural Water Supply	6800.00	335.47	800.00	500.00	500.00	500.00
Total	6800.00	335.47	800.00	500.00	500.00	500.00

ANNUAL PLAN, 1982-83
STATEMENT II : SCHEMES
HEAD : HOUSING

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved outlay	1980-81	1981-82		Outlay 1982-83		
		Actual Expendi- ture	Approved outlay	Anticipat- ed Expen- diture	Total	Of which Capital Content	
1	2	3	4	5	6	7	
HOUSING							
1. Government Residential Buildings :							
HG 1.1	At district/Tehsil Headquarters and at other places	900.00	168.84	140.80	140.80	154.75	154.75
HG 1.2	At focal point	200.00	45.00	28.32	28.32	34.25	34.25
HG 1.3	For Government employees at Chandigarh	300.00	80.00	30.00	30.00	65.00	65.00
	Total	1400.00	293.84	199.12	199.12	254.00	254.00
2. Other Housing Schemes :							
HG 2.1	Subsidized Industrial Housing	50.00	2.00	10.00	10.00	5.00	5.00
HG 2.2	Houses for rural homeless	1200.00	170.00	285.00	285.00	285.00	285.00
HG 2.3	Loans for Low-Income Group Houses	300.00	65.00	40.00	65.00	3.00	3.00
HG 2.4	Loans to Government Servants	900.00	150.00	200.88	253.88	159.00	159.00
HG 2.5	Loans for Building houses in Urban Estates	150.00	30.00	30.00	30.00	25.00	25.00
HG 2.6	Middle Income Group Houses	60.00	35.00	10.00	35.00	3.00	3.00
HG 2.7	Village Housing Project Scheme	170.00	62.00	20.00	70.00	2.00	2.00
	Total	2835.00	514.00	595.88	748.88	482.00	482.00
3. Other Programmes :							
HG 3.1	Contribution to Housing Board	520.00	70.00	20.00	20.00	10.00	10.00
4. Police Housing :							
HG 4.1	Houses for Police	985.00	150.00	185.00	185.00	154.00	154.00
	Grand Total	5735.00	1027.84	1000.00	1153.00	900.00	900.00

ANNUAL PLAN : 1982-83
STATEMENT II : SCHEMES

HEAD : URBAN DEVELOPMENT INCLUDING URBAN WATER SUPPLY AND SEWERAGE

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved outlay	1980-81	1981-82		Outlay 1982-83	
		Actual Expenditure	Approved outlay	Anticipated Expenditure	Total	Of which Capital Content
1	2	3	4	5	6	7
Urban Water Supply and Sewerage						
WS-1	Financial assistance to Municipal Committees (Water Supply and Sewerage Schemes)—					
	(a) I.D.A. Project ..	3494.00	1160.00	1300.00	940.00	929.00@ 929.00@
	(b) L.I.C. aided Project ..	1340.00*	310.00	210.00	142.00	150.00 150.00
	(c) Other Water Supply Schemes ..	800.00	60.00	45.00	45.00	25.00 25.00
	(d) Other Sewerage Schemes ..	799.00	20.00	30.00	30.00	20.00 20.00
	Total ..	6433.00	1550.00	1585.00	1157.00	1124.00 1124.00
Other Schemes						
WS-2	Sewage Sullage Utilisation Schemes ..	100.00	30.00	25.00	25.00	5.00 5.00
WS-3	Setting up of Compost Plants at Amritsar, Jullundur and Ludhiana ..	42.66	—	—	—	— —
WS-4	Urban Solid Waste Disposal ..	13.40	—	—	—	— —
WS-5	Water Supply and Sewerage Board ..	405.00	100.00	50.00	50.00	50.00 50.00
WS-6	Setting up of Sewage Treatment Plants ..	—	—	—	—	1.00 1.00
	Total ..	561.00	130.00	75.00	75.00	56.00 56.00
	Total Urban Water Supply and sewerage ..	6994.00	1680.00	1660.00	\$1242.00	1180.00 1180.00
Urban Development						
UD-1	Urban Estates ..	1450.00	477.97	200.00	217.00	180.00 180.00
UD-2	Financial Assistance to Improvement Trust—					
	(a) General Activities ..	50.00	10.00	10.00	10.00	6.00 6.00
	(b) Free house-sites to Urban homeless scheduled Castes ..	**	10.00	**	**	** **
	(c) Free house-sites to Urban homeless ..	**	25.00	**	**	** **
UD-3	Town & Regional Planning— Rural and Urban Sector Area Planning ..	60.00	—	10.00	4.25	9.00 —
UD-4	Integrated Urban Development Programme (Bigger towns) ..	200.00	35.00	35.00	35.00	6.00 6.00
UD-5	Integrated development of small & medium towns ..	400.00	65.00	65.00	65.00	65.00 65.00
UD-6	Environmental Improvement of slums ..	500.00	19.00	80.00	80.00	80.00 80.00
UD-7	Construction of temporary Project Office Building at Ranjitgarh ..	—	—	—	—	1.00 1.00
	Total ..	2660.00	641.97	400.00	411.25	347.00 338.00
	Total Urban Development including Urban Water Supply & Sewerage ..	9654.00	2371.97††	2060.00	1653.25	1527.00 1518.00

@Includes Rs. 20.00 lakhs as loan to weak I.D.A.M.C's

*Includes Rs. 1000.00 lakhs as L.I.C. loan.

**Merged in UD-1.

††Includes additional allocation of Rs. 50 lakhs as loans to Municipal Committees for other works.

§Includes allocation of Rs. 10.00 lakhs of lowering of water table of Muktsar Town

ANNUAL PLAN : 1982-83

STATEMENT II : SCHEMES

HEAD : INFORMATION AND PUBLICITY

(Rs. in lakhs)

Name of the Scheme/Project	1980-81		1981-82		Outlay 1982-83		
	Sixth Five-year Plan (1980-85) Approved outlay	Actual expenditure	Approved outlay	Anticipated expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
1. Direction and Administration							
IP 1-1	Strengthening of the Department of Public Relations	12.00	0.16	2.70	0.70	0.70	—
IP 1-2	Purchase of books for library at headquarters	2.00	0.38	0.50	0.50	0.50	—
IP 1-3	Feed back studies	0.80	0.07	0.20	0.20	0.20	—
	Total	14.80	0.61	3.40	1.40	1.40	—
2. Films							
IP 2-1	Purchase and production of films	14.00	5.04	3.00	5.19	3.00	—
	Total	14.00	5.04	3.00	5.19	3.00	—
3. Field Publicity :							
IP 3-1	Field publicity	50.20	4.60	10.00	12.00	11.00	—
IP 3-2	Television scheme	10.00	0.55	2.00	1.19	1.15	—
IP 3-3	Purchase and production of literature	10.00	0.85	2.00	2.15	3.15	—
	Total	70.20	6.00	14.00	15.34	15.30	—
4 Song and Drama Services :							
IP 4-1	Song and Drama	20.00	0.98	4.00	3.35	3.35	—
IP 4-2	Light and Sound	14.00	7.20	3.00	3.00	3.00	—
	Total	34.00	8.18	7.00	6.35	6.35	—
5 Advertising and Visual Publicity :							
IP 5-1	Community listening	0.50	0.09	0.10	0.10	0.10	—
IP 5-2	Exhibitions	14.00	3.27	3.00	18.00	3.00	—
IP 5-3	Display advertisement	15.00	3.00	3.00	4.00	4.00	—
IP 5-4	Wall paintings	2.50	0.11	0.50	0.50	0.50	—
	Total	32.00	6.47	6.60	22.60	7.60	—
6 Information Centres							
IP 6-1	Teleprinter lines	10.00	0.57	2.00	0.92	1.35	—
	Total	10.00	0.57	2.00	0.92	1.35	—
7 Film Corporation :							
IP 7-1	Share capital contribution to Punjab Films and News Corporation	5.00	1.00	1.00	1.00	5.00	5.00
	Total	5.00	1.00	1.00	1.00	5.00	5.00
	Grand Total	180.00	27.87	37.00	52.80	40.00	5.00

ANNUAL PLAN : 1982-83

STATEMENT II : SCHEMES

HEAD : LABOUR AND LABOUR WELFARE

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-Year Plan (1980-85) Approved outlay	1980-81		1981-82		Outlay 1982-83	
		Actual expenditure	Approved outlay	Anticipated expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
I. LABOUR WELFARE.							
LW 1-1	Setting up of enforcement machinery for the welfare of agricultural labour	3.43	—	0.50	0.75	2.60	—
	Total	3.43	—	0.50	0.75	2.60	—
2. Working Conditions and Safety							
LW 2-1	Strengthening of enforcement machinery for Minimum Wages Act, 1948	8.27	—	1.70	1.47	2.00	—
	Total	8.27	—	1.70	1.47	2.00	—
3. General Labour Welfare							
LW 3-1	Setting up of industrial hygiene laboratory	2.80	0.60	0.40	0.40	0.40	—
	Total	2.80	0.60	0.40	0.40	0.40	—
	Total Labour Welfare	14.50	0.60	2.60	2.62	5.00	—
II. EMPLOYMENT SERVICES							
EE 1-1	Expansion of employment services	6.00	1.30	1.00	1.74	1.70	—
	Total Employment Services	6.00	1.30	1.00	1.74	1.70	—
III. INDUSTRIAL TRAINING							
1. Craftsman Training							
IT(C) 1-1	Conversion of unpopular trades into popular ones	20.00	2.29	4.00	4.00	4.50	—
IT(C) 1-2	Addition to and replacement of tools and equipments	20.00	3.72	4.00	4.00	4.00	—
IT(C) 1-3	Training, seminar and study tours of staff	5.00	0.99	1.00	1.00	1.00	—
IT(C) 1-4	Completion of I.T.I. buildings and construction of I.T.I. building at Nabha	30.00	6.61	5.00	5.39	6.00	6.00
IT(C) 1-5	Training-cum-placement cell	4.00	0.47	0.80	0.40	0.80	—
IT(C) 1-6	Apprenticeship training wing	3.00	0.04	0.60	0.36	0.70	—
IT(C) 1-7	Mobile training centres in rural areas	0.50	—	—	—	—	—
IT(C) 1-8	Related Instructional Centre	5.00	0.23	1.00	0.45	0.60	—
IT(C) 1-9	Modernisation of Industrial Training Institutes under UNDP/ILO Programme	43.50	2.38	13.00	6.09	9.00	2.00
IT(C) 1-10	Conversion of RATCs/JTSS/GISs into I.T.Is.	40.00	5.45	8.00	5.18	8.70	3.00
	Total	171.00	22.18	37.40	26.87	35.30	11.00

ANNUAL PLAN : 1982-83
STATEMENT II : SCHEMES
HEAD : LABOUR AND LABOUR WELFARE

(Rs. in lakhs)

Name of the Scheme/Project	1980-81		1981-82		Outlay 1982-83		
	Sixth Five-year Plan (1980-85) Approved outlay	Actual expenditure	Approved outlay	Anticipated expenditure	Total	Of which capital content	
1	2	3	4	5	6	7	
2. Industrial Schools for Girls							
IT(S) 2.1	Completion of building of Government Industrial Teacher Training Institute, Jullundur	5.00	0.71	1.00	0.24	0.50	0.50
IT(S) 2.2	Construction of new buildings for schools	15.00	3.75	5.00	2.17	7.50	7.50
IT(S) 2.3	Opening of new industrial schools and introduction of additional seats in existing schools	10.00	2.82	2.00	2.00	2.00	—
IT(S) 2.4	Teachers training classes	5.00	1.47	1.00	1.50	1.00	—
IT(S) 2.5	Training-cum-production centre	5.00	1.21	1.00	1.22	1.00	—
IT(S) 2.6	Study tours, training and re-training, educational study tours and seminars and conferences	3.50	0.46	0.50	0.50	0.50	—
IT(S) 2.7	Modernisation and replacement of machinery in schools	9.00	1.36	1.50	1.70	2.50	—
	Total	52.50	11.78	12.00	9.33	15.00	8.00
3. Professional Training							
IT(P) 3.1	Construction of building for Arts and Crafts Teachers Training Institute at Amritsar	1.00	—	—	—	—	—
	Total Industrial Training	224.50	33.96	49.40	36.20	50.30	19.00
	Grand Total	245.00	35.86	53.00	40.56	57.00	19.00

ANNUAL PLAN : 1982-83

STATEMENT—II SCHEMES

HEAD : WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five-year Plan (1980—85) Approved outlay	1980-81 Actual expenditure	1981-82		Outlay 1982-83	
			Approved outlay	Anticipated expenditure	Total	Of which capital content
1	2	3	4	5	6	7
1. Education Programme—						
SC 1.1 Pre-matric coaching to students ..	103.75	9.89	10.00	4.00	—	—
SC 1.2 Grant for the purchase of stationery and books ..	238.28	22.00	40.00	40.00	45.00	—
SC 1.3 (a) Grant for the purchase of medical and engineering books (State share)	10.00	2.10	2.00	2.00	4.00	—
(b) Grant for the purchase of law books ..	2.90	—	0.75	0.75	0.75	—
SC 1.4 Training in stenography ..	12.20	—	2.00	2.00	2.00	—
SC 1.5 Technical training in industrial trades ..	94.53	9.00	15.00	15.00	15.00	—
SC 1.6 B.Ed. & JBT training to scheduled castes graduates and matriculates	61.05	1.18	5.00	—	5.00	—
SC 1.7 Grants to scheduled caste girls students studying in post-matric and post-graduate classes	72.00	7.24	12.00	12.00	13.00	—
SC 1.8 I.A.S. coaching centre, Patiala (State share) ..	9.10	1.50	1.50	1.50	1.50	—
SC 1.9 Girls hostels (State share) ..	4.55	0.75	0.75	0.75	0.75	—
SC 1.10 Imparting of industrial training to scheduled castes women	72.15	—	1.00	6.60	10.80	—
SC 1.11 Grants to Scheduled Caste students studying in medical and engineering colleges	—	—	—	—	14.40	—
Total ..	680.51	53.66	90.00	84.60	112.20	—
2. Economic Uplift—						
SC 2.1 Subsidy for the purchase of—						
(a) Agricultural land ..	61.00	5.00	9.20	6.45	10.00	—
(b) Houses/wells on land ..	12.20	1.00	1.84	1.29	2.00	—
(c) Stamp duty ..	2.50	0.18	0.36	0.26	0.40	—
SC 2.2 Punjab Backward Classes Land Development and Finance Corporation—share capital	80.00	120.00	20.00	20.00	20.00	20.00
SC 2.3 Punjab Scheduled Castes Land Development and Finance Corporation—share capital (State share)	204.00	102.00	51.00	51.00	51.00	51.00
SC 2.4 Interest subsidy for—						
(a) Scheduled Castes ..	574.65	45.00	45.00	45.00	45.00	—
(b) Backward Classes ..	190.60	9.10	15.00	15.00	15.00	—
SC 2.5 Issue of Yellow Cards ..	—	—	—	14.20	1.20	—
Total ..	1124.95	282.28	142.40	153.20	144.60	71.00

ANNUAL PLAN 1982-83

STATEMENT—II SCHEMES

HEAD : WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES

(Rs. in lakhs)

Name of the Scheme/Project	1980-81		1981-82		Outlay 1982-83	
	Sixth Five-Year Plan (1980-85) Approved outlay	Actual expenditure	Approved outlay	Anticipated expenditure	Total	Of which capital content
1	2	3	4	5	6	7
3. Health, Housing and Other Programmes—						
SC 3.1 Legal aid	1.50	0.04	0.20	0.20	0.20	—
SC 3.2 Construction of dharamshalas/chaupallis	258.30	30.00	30.00	30.00	45.00	—
SC 3.3 Environmental improvement of harijan basties including drinking water units	658.39	70.00	95.00	95.00	115.00	—
SC 3.4 Construction of houses for sweepers/scavengers, flayers and tanners	170.90	28.00	28.00	28.00	38.00	—
SC 3.5 Assistance to scheduled castes for development of manurial pits	150.00	3.53	25.00	20.00	25.00	—
SC 3.6 Supply of nutritive food to children belonging to scheduled castes balwadies	70.00	—	0.40	—	—	—
Total	1309.09	131.57	178.60	173.20	223.20	—
4. Welfare of Vimukat Jaties—						
SC 4.1 Construction of houses for vimukat jaties	85.45	14.00	14.00	14.00	20.00	—
Total	85.45	14.00	14.00	14.00	20.00	—
Grand Total	3200.00	481.51	425.00	425.00	500.00	71.00

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD : SOCIAL WELFARE

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five year Plan (1980-85) Approved outlay	1980-81 Actual expenditure	1981-82		Outlay 1982-83	
			Approved outlay	Anticipated expenditure	Total	Of which capital content
1	2	3	4	5	6	7
1. Direction and Administration						
SW 1.1 Research, training and administration	3.70	0.14	0.80	0.58	0.80	—
Total	3.70	0.14	0.80	0.58	0.80	—
2. Family and child welfare—						
SW 2.1 Assistance to dependent children	123.00	12.86	19.00	19.00	20.00	—
SW 2.2 Construction of certified school	31.20	3.80	5.00	2.60	5.00	5.00
SW 2.3 I. Y. C.	28.00	—	5.00	—	—	—
SW 2.4 Services for children in need of care and protection (State share)	8.00	0.20	1.50	1.50	1.50	—
Total	190.20	16.86	30.50	23.10	26.50	5.00
3. Women Welfare—						
SW 3.1 Assistance to widows and destitute women	195.00	20.60	33.30	33.30	35.45	—
SW 3.2 Home for widows and destitute women	4.00	0.15	0.70	0.22	0.30	—
Total	199.00	20.75	34.00	33.52	35.75	—
4. Welfare of handicapped—						
SW 4.1 Scholarships to the handicapped	1.10	0.08	0.20	0.10	0.20	—
SW 4.2 Supply of prosthetic aid to the handicapped	3.00	0.37	0.45	0.40	0.50	—
SW 4.3 Assistance to disabled persons	10.00	—	0.30	2.75	5.00	—
SW 4.4 IYDP—Vocational & rehabilitation centres	5.00	—	2.00	7.80	8.00	—
SW 4.5 Setting up of Braille Press for blind	—	—	—	—	0.50 (token)	—
Total	19.10	0.45	2.95	11.05	14.20	—
5. Other Programmes—						
SW 5.1 Grant-in-aid to voluntary welfare organisations	6.00	1.00	1.00	1.00	1.00	—
SW 5.2 Grant-in-aid to the P.G.I. for the blind	9.00	1.75	1.75	1.75	1.75	—
Total	15.00	2.75	2.75	2.75	2.75	—
6. Punjab Women and Children Development & Welfare Corporation—						
SW 6.1 Share capital contribution to the Corporation	80.00	20.00	50.00	15.00	44.00	44.00
SW 6.2 Interest subsidy to the Corporation	—	—	—	5.00	1.00	—
Total	80.00	20.00	50.00	20.00	45.00	44.00
7. Defence Services Welfare—						
SW 7.2 Share capital contribution to Punjab Ex-servicemen Corporation	—	41.00	40.00	18.00	25.00	25.00
SW 7.2 Interest subsidy to the Ex-servicemen	—	5.90	—	—	15.00	—
Total	—	46.90	40.00	18.00	40.00	25.00
Grand Total	507.00	107.85	161.00	109.00	165.00	74.00

ANNUAL PLAN 1982-83
STATEMENT II : SCHEMES
HEAD—NUTRITION

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980-85) outlay	1980-81 Actual expendi- ture	1981-82		Outlay 1982-83	
			Approved outlay	Antici- pated expendi- ture	Total	Of which capital content
1	2	3	4	5	6	7
1. Special Nutritio Programmes—						
N 1-1	Programme for pre-school children	}	5.00	5.00	5.00	—
N 1-2	Programme for pregnant and lactating mothers		80.00	10.56	1.70	1.70
2. I.C.D.S. Project—						
N 2-1	Nutritional diet under projects	}	9.30	9.30	9.30	—
Total			80.00	10.56	16.00	16.00

ANNUAL PLAN 1982-83

STATEMENT II : SCHEMES

HEAD:—ECONOMIC SERVICES AND GENERAL SERVICES

(Rs. in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980-85) Expenditure	1980-81 Actual Expenditure	1981-82		Outlay 1982-83		
			Approved outlay	Anticipated expenditure	Total	Of which Capital content	
1	2	3	4	5	6	7	
Economic Services							
Statistics							
ST 1-1	Estimation of Capital Formation	15.40	2.19	3.08	2.65	3.50	—
ST 1-2	Strengthening of District Statistical Offices and Head quarters in the State.	35.00	—	7.00	7.00	7.00	—
ST 1-3	Purchase of Computer Timings	1.00	—	0.20	0.10	0.20	—
ST 1-4	Surveys and Studies	10.00	—	2.04	0.94	1.70	—
ST 1-5	Strengthening & Evaluation Section	9.90	0.33	1.98	1.71	2.20	—
ST 1-6	Training of Statistical Personnel	8.50	0.89	1.70	1.53	2.40	—
ST 1-7	Economic Analysis Unit	5.00	—	1.00	—	—	—
	Total	85.00	3.41	17.00	13.93	17.00	—
Planning Machinery							
PT 2-1	Strengthening of Planning Machinery in the State	50.00	2.04	10.00	5.55	10.00	—
	Grand Total	135.00	5.45	27.00	19.48	27.00	—
GENERAL SERVICES							
Stationery and Printing							
PT 1-1	Opening of Typewriters Workshop at Faridkot, Ropar and Kapurthala.	11.00	1.09	1.50	1.97	2.00	—
PT 1-2	Strengthening of Central Typewriters Workshop	3.00	0.35	0.40	0.52	0.64	—
PT 1-3	(a) Extension in Press Building at Patiala	4.00	1.28	1.00	1.00	0.50	0.50
	(b) Construction of quarters for officers and staff at Patiala.	1.00	0.38	0.50	0.25	0.20	0.20
PT 1-4	(a) Construction of Government Press at SAS Nagar	4.00	2.11	2.00	2.00	1.00	1.00
	(b) Machinery and equipment for Government Press S.A.S. Nagar.	21.00	1.93	2.48	—	31.04	31.04
	(c) Staff required for Government Press at S.A.S. Nagar.	8.00	0.02	1.50	0.67	1.50	—
	(d) Construction of quarter for Caretaker and Chowkidar at S.A.S. Nagar.	1.40	—	0.50	0.25	—	—
PT 1-5	(a) Additional Machinery and equipment for Government Press, Patiala.	5.00	—	1.00	1.00	2.00	2.00
	(b) Machinery and equipment for Ticket Printing Press, Patiala.	1.00	—	—	—	—	—
PT 1-6	(a) Apprenticeship scheme for Typewriter mechanics	0.60	0.01	0.12	0.08	0.12	—
	Total	60.00	7.17	11.00	7.74	39.00	34.74

ANNUAL PLAN 1982-83

STATEMENT II : SCHEMES

HEAD :- ECONOMIC SERVICES AND GENERAL SERVICES

(Rs in lakhs)

Name of the Scheme/Project	Sixth Five Year Plan (1980-85) outlay	1980-81 Actual Expendi- ture	1981-82		Outlay 1982-83		
			Approved outlay	Antici- pated expend- ture	Total	Of which Capital content	
1	2	3	4	5	6	7	
Punjab State Civil Supplies Corporation							
PS 2-1	Share capital contribution to PUNSUP	50.00	10.00	10.00	10.00	—	—
Public works							
PW 3-1	Divisional Offices & Tehsil Buildings	510.00	72.48	89.00	84.19	99.00	99.00
PW 3-2	Courts	57.00	11.51	9.00	9.00	9.00	9.00
PW 3-3	Patwar Khanas	70.00	—	15.00	5.86	5.00	5.00
PW 3-4	Police Stations	150.00	33.50	42.00	40.95	42.00	42.00
PW 3-5	Jails	360.00	53.33	75.00	75.00	75.00	75.00
PW 3-6	Circuit Houses/Rest Houses	100.00	15.38	20.00	20.00	20.00	20.00
PW 3-7	Mini Secretariat Building at Chandigarh	—	—	—	—	40.00	40.00
Total		1247.00	186.20	250.00	235.00	290.00	290.00
Administrative Training Institute							
AI 4-1	Establishment of Administrative Training Institute	50.00	9.32	9.00	9.00	9.00	9.00

ANNUAL PLAN 1982-83
STATEMENT III
Targets of Production and Physical Achievements

Sr. No.	Item	Unit	Sixth Five Year Plan 1980-85		1980-81	1981-82		1982-83
			1979-80 Base Year Level	1984-85 Terminal Year Target	Achievement (Prov.)	Target (Revised)	Anti-cipated Achievement	Target
1	2	3	4	5	6	7	8	9
I. Agriculture and Allied Services								
1. Production of foodgrains .. 000' Tonnes								
(a)	Rice	.. ..	3052	4200	3228	3400	3650	3400
(b)	Wheat	.. ..	7868	9400	7674	8000	8000	8200
(c)	Jewar	.. ..	1	2	1	1	1	1
(d)	Bajra	.. ..	47	60	84	90	69	90
(e)	Maize	.. ..	677	950	613	700	600	710
(f)	Other cereals	.. ..	73	38	107	80	120	85
(g)	Pulses	.. ..	188	350	201	279	300	314
Total Foodgrains			11906	15000	11908	12550	12740	12800
2. Commercial Crops								
(a)	Cotton	.. 000' Bales	1207	1600	1176	1350	1300	1425
(b)	Jute and Mesta	.. ..	—	—	—	—	—	—
(c)	Sugarcane (cane)	.. 000' Tonnes	3930	8000	3930	6000	5550	6400
(d) Oil seeds—								
(1)	Major Oilseeds	.. ..	157	350	176	300	183	300
(i)	Groundnut	.. ..	81	175	103	150	85	150
(ii)	Castor Seed	.. ..	—	—	—	—	—	—
(iii)	Sesamum	.. ..	4	6	5	6	6	6
(iv)	Rapeseed and Mustard	.. ..	71	168	67	142	90	142
(v)	Linseed	.. ..	1	1	1	2	2	2
(2)	Others	.. ..	—	—	—	—	—	—
3. Chemical Fertilisers								
(a)	Nitrogenous (N)	.. ..	477	750	526	600	560	650
(b)	Phosphatic (P)	.. ..	179	300	207	250	225	260
(c)	Potassic (K)	.. ..	30	50	29	50	30	40
Total (NPK)			686	1100	762	900	815	950

Note: Targets of Agril. production for 1982-83 are provisional.

ANNUAL PLAN 1982-83

STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Sixth Five Year Plan 1980-85		1980-81	1981-82	1982-83	
			1979-80 Base year Level	1984-85 Terminal Year Target	Achievement (Prov.)	Target	Anticipated achievement	Target
1	2	3	4	5	6	7	8	9
	4. Plant Protection—	000 tonnes Of technical grade material	3.00	5.5	3.5	4.7	4.3	4.7
	5. Area under distribution of—							
	(a) Fertilizers	000 Hectares	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	(b) Pesticides							
	6. Area under High Yielding Varieties—							
	(a) Paddy	000 Hectares	1076	—	1109	1150	1125	1130
	(b) Wheat	—	2775	—	2757	2825	2800	2825
	(c) Bajra	—	21	—	33	35	40	42
	(d) Maize	—	71	—	127	105	120	125
	Total		3943	—	4026	4115	4085	4122
	7. Soil Conservation area covered	000 Hectares	19.43	25.00	12.60	14.40	14.40	14.00
	8. Cropped Area —							
	(a) Net	..	4180	4600	4300	4350	4350	4400
	(b) Gross	..	6.35	7250	6763	6850	6850	6900
	9. Agricultural Marketing—							
	(a) Total No. of Markets at Mandi level	Nos. (Cumulative)	113	—	118	—	—	—
	(b) Regulated markets	..	113	—	118	—	—	—
	Sub-market yards	..	472	—	494	—	—	—
	(d) Sub-market yards developed	..	472	—	494	—	—	—
	10. Storage—							
	Owned capacity with :							
	(i) State Warehousing Corporation	000 Tonnes (Cumulative) Prov.	336	835	475	535	535	642
	(ii) Cooperatives	..	1326	1766	1418	1501	1502	1590
	(iii) State Government	..	—	—	—	—	—	—
	II. Animal Husbandry Products							
	(i) Milk	000 tonnes	3059	4250	3221	3514	3514	3750
	(ii) Eggs	Millions	474	782	517	564	564	629
	(iii) Wool	Lakh kgs.	12.20	14.00	12.10	14.06	13.00	13.25
	11. Animal Husbandry Programme							
	(i) I.C.D.P. Projects	Nos. (Cumulative)	5	5	5	5	5	5
	(ii) No. of Frozen Semen (Bull) Stations	..	3	4	3	4	4	4

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Targets of Production and Physical Achievements

Sr. No	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82	1982-83	
			1979-80 Base Year Level	1984-85 Terminal Year Target	Achievement	Target	Anticipated Achievement	Target
1	2	3	4	5	6	7	8	9
(iii)	No. of inseminations performed with exotic bull semen (Annual)	In lakhs	3.74	6.00	4.45	5.00	5.00	5.50
(iv)	Estt. of Sheep Breeding Farms	Nos. (Cumulative)	2	3	2	2	2	2
(v)	Sheep and Wool Extension Centres	Do	38	38	38	38	38	38
(vi)	Intensive Sheep Dev. Projects	Nos. (Cumulative)	—	—	—	—	—	—
(vii)	Intensive Egg. and Poultry Production-cum-Marketing Centres	..	3	3	3	3	3	3
(viii)	Vety. Hospitals	..	656	811	761	766	766	766
(ix)	Vety. Dispensaries	..	360	460	460	455	455	465
(x)	Stockmen Centres	..	579	579	579	579	579	579
12.	Dairy Programmes—							
(i)	Fluid Milk Plants (including composite and Feeder balancing milk plants in operation)	Nos.	5	10	5	7	7	9
(ii)	Milk Products factories including creameries in operation	Nos.	2	2	2	2	2	2
(iii)	Dairy Cooperative Unions	Nos.	7	11	7	11	8	11
13.	Fisheries—							
(i)	Fish Production							
(a)	Inland	.. 000 tonnes	2.60	3.50	2.80	3.00	3.00	3.20
(b)	Marine	..	—	—	—	—	—	—
Total			2.60	3.50	2.80	3.00	3.00	3.20
(ii)	Mechanised Boats	.. No.	—	—	—	—	—	—
(iii)	Deep Sea Fisheries vessels	.. No.	—	—	—	—	—	—
(iv)	Fish Seed Produced—							
(a)	Fry	.. Million	—	—	—	—	—	—
(b)	Fingerlings	..	1.60	5.00	2.00	2.50	2.50	3.00
(v)	(a) Fish Seed Farms	.. No.	6	9	6	8	8	9
(b)	Nursery Area	.. Hectares	13.00	30.00	14.00	18.00	18.00	22.00

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STATEMENT III

Targets of Production and Physical Achievements

Sr. No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82		1982-83
			1979-80 Base year level	1984-85 Terminal year target	Achievement	Target	Anticipated Achievement	Target
1	2	3	4	5	6	7	8	9
14. Forestry—								
	(a) Plantation of quick growing species	000' Hectares	—	—	—	—	—	—
	(b) Economic and Commercial Plantation	Do	5.00	15.00	13.58	12.95	12.95	10.65
	(c) Farm Forestry	No. of Plants (in lakhs)	48.60	400.00	67.12	60.00	200.00	216.00
	(d) Communications—							
	(i) New Roads	Kms.	—	—	—	—	—	—
	(ii) Improvement of existing Roads	Do	—	—	—	—	—	—
15. Cooperation—								
	(a) Short term loans	Rs. crore	154.17	325.00	220.49	250.00	250.00	275.00
	(b) Medium term loans	„	—	6.00	—	4.50	—	2.00
	(c) Long term loans	„	22.97	62.00	36.01	51.90	41.45	44.00
	(d) Retail sale of fertilisers	„	92.88	171.50	89.95	150.00	150.00	200.00
	(e) Agricultural produce Marketed	„	125.81	270.75	174.77	230.00	274.80	310.00
	(f) Retail sale of consumer goods by urban consumer co-operatives	„	1.95	5.00	4.00	4.00	4.00	5.00
	(g) Retail sale of consumer goods through co-operatives in rural areas	„	20.58	50.00	26.09	40.00	40.00	45.00
	(h) Cooperative storage	Lac tonnes	13.26	17.66	14.18	15.01	15.02	15.90
	(i) Processing Units—							
	(1) Organised	No. Cumulative	42	49	46	49	49	55
	(2) Installed	„	42	49	42	44	48	50
Spécial Programme of Rural Development—								
V. Integrated Rural Development (IRD)								
	(1) Beneficiaries indentified	No.	—	—	—	—	—	—
	(2) Beneficiaries covered	No.	—	1,00,000	63,882	94,400	94,400	94,400

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STATEMENT : III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82	1982-83	
			1979-80 Base Year level	1984-85 Terminal year Targets	Achievements	Targets	Anticipated Achievements	targets
1	2	3	4	5	6	7	8	9
II IRRIGATION AND FLOOD CONTROL								
(b) Major and Medium Irrigation								
	* (i) Potential created	000 cumulative Hect.	405	603	416	455	455	484
	* (ii) Utilisation	"	401	603	411	447	447	476
(c) Flood Control—								
	Area Provided with protection	"	2520	2632	2550	2575	2575	2612
III. POWER—								
	(i) Installed Capacity (cumulative)	MW	1551	2450	1537	1599	1599	1774.5
	(ii) Electricity Generated (during the year)	MKwh.	5291	8923	5307	6677	6328	7031
	(iii) Electricity sold (during the year)	MKwh.	4084	7138	4244	5342	5062	5820
	(iv) Transmission lines (cumulative) (220 KV and above)	Km.	548	1347	NA	—	752	978.3
(v) Rural Electrification—								
	(a) Village Electrified	No.	All the 12126 inhabited villages of State stand electrified by 10th May, 1976.					
	(b) Pump sets energised by Electricity (during the year)	No.	29382	20000**	20979	17400	15500	15000
	(c) Tubewell energised by electricity (cumulative)	No.	262267	362267	283246	300646	298246	313246
IV. INDUSTRY AND MINERALS								
VILLAGE AND SMALL INDUSTRIES :								
1. Small Scale Industries—								
	(a) Unit functioning	Nos. 000	54.64	88.64	9.16	6.40	6.40	6.80
	(b) Production	Rs. Lakhs	59323.	109768	69420	81289	81289	90170
	(c) Persons Employed	No. 000	350	554	388	414	414	458
2. Industrial Estates/Areas—								
	(a) Estates/Area functioning	Nos.	13	21	15	18	18	20
	(b) No. of units	No. 000	242	2060	300	400	400	500
	(c) Production	Rs. lakhs	10450	25000	12000	15000	15000	18000
	(d) Employment	Nos. 000	11500	30900	13000	15000	15000	18000
3. Handloom Industries—								
	(a) Production	M. Meters	30	40	32	34	34	36
	(b) Employment	Nos. 000	20	27	22	23	23	24

*Does not including irrigation potential to be created under the scheme lining of channels as it is felt that the saving of water affected under this scheme would mostly be utilised for increasing the irrigation intensity and capacity factor of areas being irrigated under the command of canal system.

**The target during Sixth Plan 1980-85 is 100000

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TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENT

Serial No.	Item	Unit	Sixth Five-Year Plan 1980-85		Achievement	1981-82		1982-83
			1979-80 Base year level	1984-85 Terminal year target		Targets	Anticipated achievements	Targets
1	2	3	4	5	6	7	8	9
4. Powerloom Industries—								
	(a) Production	.. M. Meters	175	200	185	185	185	185
	(b) Employment	.. Nos. 000	51	59	53	54	54	54
5. Sericulture—								
	(a) Production of Raw Silk	.. (000 Kgs.)	2.5	3.5	3.0	3.1	3.1	3.3
	(b) Employment	.. No. 000	+0.075	0.0120	0.080	0.100	0.10	0.110
			†1.50	1.80	1.55	1.60	1.60	1.70
6. Village Industries (IRDP)—								
(a) Within purview of KVIC—								
	(i) Production	.. Rs. lakhs	400	1500	500	630	630	730
	(ii) Employment	.. No. 000	5.5	6.00	6.3	5.4	5.4	5.7
(b) Outside the purview of KVIC—								
	(i) Production	.. Rs. lakhs	300	2000	700	800	800	1200
	(ii) Employment	.. No. 000	3.8	5.00	5.00	5.00	5.00	5.00
V. TRANSPORT & COMMUNICATION :								
1. Roads at the end of the year								
(1) State Highway —								
	(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	.. Km.	2100	2100	2100	2100	2100	2100
	(b) Unsurfaced	.. "	—	—	—	—	—	—
	(c) Total	.. "	2100	2100	2100	2100	2100	2100
(3) Other District Roads—								
	(a) Surfaced	.. Km.	2388	2448	2394	2404	2404	2409
	(b) Unsurfaced	.. "	—	—	—	—	—	—
	(c) Total	.. "	2388	2448	2394	2404	2404	2409
(4) Village Roads—								
	(a) Surfaced	.. Km.	24524*	25824@	25120	25220	25220	25320
	(b) Unsurfaced	.. "	—	—	—	—	—	—
	(c) Total	.. "	24524*	25824@	25120	25220	25220	25320

*Includes 1374 Kms. of interlinks. + Full Time

@Includes 1938 Kms. of interlinks. †Part Time

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TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82	1982-83	
			1979-80 Base year Level	1980-85 Terminal year Target	Achieve- ment	Targets	Antici- pated Achieve- ment	Targets
1	2	3	4	5	6	7	8	9
(5) Total Roads—								
	(a) Surfaced	.. Km.	30912	32272	31514	31624	31624	31729
	(b) Unsurfaced	.. "	..	..	..	..	..	..
	(c) Total	.. "	30912	32272	31514	31624	31624	31729
Vehicles owned by State Undertakings								
(a) Pepsu Road Transport Corpora- tion—								
	(i) Fleet Strength at the end of the year	.. No.	898	1596	930	1019	1019	1168
	(ii) Route Kilometerage operated daily	.. Kms.	212134	359167	230837	318507	318507	333587
(b) Punjab Roadways—								
	(i) Fleet Strength at the end of the year	.. No.	1925	2436	2351	2451	2411	2411
	(ii) Route Kilometerage operated daily	.. Kms.	430214	523159	480903	514710	506310	506310
VI. EDUCATION :								
A. Elementary Education :								
1. Classes—I—V (age group 6—11)—								
(i) Enrolment—								
	(a) Boys	.. 000	1141	1064	1138	1078	1078	1050
	(b) Girls	.. "	926	907	930	897	897	875
	(c) Total		2067	1971	2068	1975	1975	1925
(ii) Percentage to age-group—								
	(a) Boys	.. %	116.07%	109.69%	116.00%	109.88%	109.88%	105.7%
	(b) Girls	.. %	103.69%	100.00%	103.91%	100.22%	100.12%	97.7%
	(c) Total	.. %	110.18%	105.00%	110.23%	105.55%	105.55%	103.49%
2. Classes VI—VIII (Age-Group 11—14)—								
(i) Enrolment—								
	(a) Boys	.. 000	407	565	429	462	465	502
	(b) Girls	.. "	254	345	273	288	285	308
	(c) Total	.. "	661	910	702	750	750	810
(ii) Percentage to age-group—								
	(a) Boys	.. %	67.72	95.60	77.85	75.34	75.34	82.56
	(b) Girls	.. %	48.20	65.63	51.33	53.20	53.20	57.39
	(c) Total	.. %	58.56	82.43	61.72	64.96	64.96	71.21

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STATEMENT III

TARGETS OF PRODUCTION AND PHYSICAL ACHIEVEMENTS

Serial No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82	1982-83	
			1979-80 Base year Level	1984-85 Terminal year Target	Achievement	Targets	Anticipated Achievement	Targets
1	2	3	4	5	6	7	8	9
B. Secondary Education :								
1. Classes IX—XI—								
	(a) Boys	.. 000	186	264	197	213	213	229
	(b) Girls	.. "	110	156	122	127	127	136
	(c) Total	.. "	296	420	319	340	340	365
2. Classes IX—XII (General Classes) Enrolment—								
	(a) Boys	.. "	—	—	—	—	—	—
	(b) Girls	.. "	—	—	—	—	—	—
	(c) Total	.. "	—	—	—	—	—	—
C. ENROLMENT IN VOCATIONAL COURSES—								
1. Post-elementary Stage—								
	(a) Total	.. No.	9187	10000	8596	9200	9200	9800
	(b) Girls	.. No.	—	—	336	—	—	—
2. Post High School Stage—								
	(a) Total	.. No.	2771	3200	3145	2800	2800	3000
	(b) Girls	.. No.	—	—	94	—	—	—
D. ENROLMENT IN NON-FORMAL (Part-time/continuation Classes)								
(i) Age-group 6—10—								
	(a) Total	.. No.	6476	7500	7085	7500	7500	7500
	(b) Girls	.. No.	2590	3375	2834	3375	3375	3375
(ii) Age-group 11—14								
	(a) Total	.. No.	N.A.	18000	145	18000	18000	18000
	(b) Girls	.. No.	—	—	—	—	—	—
E. ADULT EDUCATION—								
(a) Number of Participants—								
	(Age-group 15—35)	.. 000	1	84	26	84	84	84
(b) No. of Centres opened under—								
	(i) Central Programme	.. No.	40	2500	1244	2500	2500	2500
	(ii) State's Programme	.. No.	274	1790	241	1490	1490	1700
	(iii) Voluntary Agencies	.. No.	—	—	—	—	—	—

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Targets of Production and Physical Achievements

Serial No.	Item	Unit	Sixth Five-Year Plan		1980-81	1981-82	1982-83	
			1980-85					
			1979-80 Base year Level	1984-85 Terminal year Target				Achieve- ment	Targets	Anticipa- ted Achievements	Targets
1	2	3	4	5	6	7	8	9
F. TEACHERS								
	(i) Primary Classes (I—V)	.. No.	46523	46643	46533	46533	46533	46533
	(ii) Middle Classes (VI—VIII)	.. No.	23263	24499	23839	24199	24199	24199
	(iii) Secondary Classes (IX—XI)	.. No.	18013	20047	19357	19897	19897	19897
	(iv) Higher Secondary Classes (XI—XIII)	.. No.	—	—	—	—	—	—
VII. HEALTH AND FAMILY WELFARE								
1. Hospitals & Dispensaries—								
	(a) Urban	.. Nos.	320	334	6	5	5	—
	(b) Rural	.. "	1207	1607	200	—	200	—
2. Beds—								
	(a) Urban Hospitals and Dispensaries	.. "	11535	11830	39	20	116	—
	(b) Rural Hospitals and Dispensaries	.. "	7554	12079	800	—	1304	—
	(c) Bed population ration	.. "	1.17 (per)	1.28	1.20	1.26	1.26	1.29
3. Primary Health Centres—								
	(a) Main Centres	.. "	129	146	—	1	1	—
	(b) Sub-centres	.. "	2105	2602	200	488	488	—
	(c) Subsidiary Health Centres	.. "	1096	2096	200	200	200	—
4. Nurse Doctor Ratio								
		.. E. No.	1:2	1:49:3	1:2	1:2	1:2	—
5. Training of Auxiliary N. Midwives—								
	(a) Institute	.. Nos.	4	6	2	—	—	—
	(b) Annual Intake	.. "	160	240	—	80	80	—
	(c) Annual Outturn	.. "	160	240	—	80	80	—
6. Control of Dispensaries—								
	(a) T.B. Clinics	.. "	13	13	—	—	—	—
	(b) Leprosy Control Units	.. "	12	12	—	—	—	—
	(c) V.D. Clinics	.. "	—	—	—	—	—	—
	(d) Filaria Units	.. "	—	—	—	—	—	—
	(e) SET Centres	.. "	—	—	—	—	—	—
	(f) District T.B.	.. "	Included as above			—	—	—
	(g) T.B. Isolation Beds	.. "	848	848	—	—	—	—
	(h) Cholera Combat Teams	.. "	—	—	—	—	—	—
	(i) STD Clinic	.. No.	—	—	—	—	—	—

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STATEMENT III

Target of Production and Physical Achievements

Serial No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82		1982-83
			1979-80 Base year Level	1984-85 Terminal year Target	Achievement	Targets	Anticipated achievements	targets
1	2	3	4	5	6	7	8	9
Control of Dispensaries								
	(j) Filaria Control Units	No.	—	—	—	—	—	—
	(k) National Scheme for prevention of Blindness—							
	(i) Mobile Units set up	"	3	3	—	—	—	—
	(ii) P.H.Cs assisted	"	110	130	18	—	—	—
	(iii) Ophthalmic Department assisted	"	1	2	1	—	—	—
7.	Maternity and Child Welfare Centres	"	88	88	—	—	—	—
8.	Doctor population ratio	"	—	—	—	—	—	—
9.	Training and Employment of Multipurpose Workers—							
	(a) Districts covered	"	7	12	—	5	5	—
	(b) Trainee trained	"	1293	1741	1324	419	419	—
	(c) Workers trained	"	3548	5200	3718	1482	482	—
10.	Community Health Volunteers Scheme—							
	(a) Community Health volunteer selected	No.	2960	—	—	—	—	—
11.	No. of Voluntary Sterilisations done—							
	(a) Tubectomy		—	—	—	—	—	—
	(b) Vesectomy	000	65000	93011	40091	65700	65700	Not fixed
	(c) No. of IUD Insertions	"	44000	—	47369	25600	25600	do
	(d) Conventional Contraceptives—							
	(i) Free Supply	00 ies	1,22,000	2,33,170	1,08,798	1,00,700	1,00,700	do
	(ii) Commercial Supply	NA	—	—	—	—	—	do
12.	M.C.H. Benefits—							
	(a) Immunisation of No. infants and pre-cumulative-school children with DPI		*45,000	Yet to be fixed by G.O.I.	Primary 226011 Booster 51951	6,00,000 1,50,000	6,00,000 1,50,000	do do
	(b) Immunisation of school going Children with DPI	"	4,00,000	do	2,62,745	2,50,000	2,50,000	do

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Targets of Production and Physical Achievements

Serial No.	Item	Units	Sixth Five-year Plan 1980-85		1980-81	1981-82		1982-83
			1979-80 Base Year Level	1984-85 Terminal year Target	Achievement	Targets	Anticipated Achievement	Targets
1	2	3	4	5	6	7	8	9
(c)	Prophylaxia against Nutritional anaemia among—							
(i)	Mothers	No.	2,60,000	Yet to be fixed by G.O.I.	2,16,785	3,00,000	3,00,000	Not fixed
(ii)	Children	..	2,60,000	do	2,44,775	3,00,000	3,00,000	do
(d)	Prophylaxia against V. famin (percentage 'A' deficiency group)		4,00,000	do	7,43,758	5,00,000	5,00,000	do
13. Family Welfare—								
(a)	Rural F. W. Centres	Nos.	128	129	—	1	1	—
(b)	District F. W. Centres	..	12	12	—	—	—	—
(c)	City F. W. Centres	..	—	—	—	—	—	—
(d)	Urban F. W. Centres	..	14	51	—	20	20	10
(e)	Post Mortem Centres	..	16	2	—	6	6	3
(f)	Regional F. W. Training Centres	..	1	—	1	—	—	—
(g)	A.N.M. Training Schools	..	4	6	2	—	—	—
VIII I SEWERAGE AND WATER SUPPLY								
A. URBAN WATER SUPPLY								
(a) Corporation Towns								
(i) Ludhiana—								
(a)	Augmentation of water supply	Mld.	108.65	154.96	91.89	118.92	118.92	145.95
(b)	Population covered	.. Lacs	4.75	6.80	5.52	6.01	6.01	6.50
(ii) Amritsar—								
(a)	Augmentation of water supply	Mld.	100.00	118.74	100.00	107.02	107.02	114.04
(b)	Population covered	.. Lacs	3.48	4.66	3.90	4.19	4.19	4.48
(iii) Jullundur—								
(a)	Augmentation of water supply	Mld.	61.29	85.80	66.03	70.49	70.49	74.95
(b)	Population covered	.. Lacs	2.86	3.95	2.90	3.24	3.24	3.57

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Targets of Production and Physical Achievements

Sr. No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82		1982-83
			1979-80 Base year Level	1984-85 Terminal Year Target	Achievement	Targets	Anticipated Achievement	Target*
1	2	3	4	5	6	7	8	9
(b) Other Towns								
(i) Original Scheme —								
	(i) Towns covered	Nos.	76	79 (Commulative)	1 (Lehra-gaga (Partly))	3 (1. Lehra-gaga (LIC 1st Package) 2. Patran 2nd Pkg.) 3. Ahmed-garh (2nd Pkg.)	3 (Lehra-gaga will be completed Patran & Ahmed-garh will continue till 3/84)	2(i) Patran : LIC 2. Ahmed-garh : 2nd pkg.
	(ii) Population covered	Lacs	14.3	15.13	0.04	0.082	0.082	0.042
(ii) Augmentation Schemes :								
	(a) Towns covered	Nos.	70	91	14 (Partly) 5 IDA towns, 5 LIC " towns, 4 Other towns)	39 (LIC 1st & 2nd pkg. & HUDCO) 5 IDA towns 33 LIC II 1 HUDCO towns)	39 (Partly) (5, IDA towns 33 LIC " towns) 1 HUDCO towns)	31 (IDA—5 Towns LIC 2nd—15 Towns 1 HUDCO Towns)
	(b) Population covered	Lacs	(Part Population)		1.155	2.261	2.261	2.271
IX. URBAN SANITATION								
B. Sewerage								
1. Ludhiana—								
	(a) Augmentation Capacity Mld.		81.49	112.55	68.92	89.19	89.19	109.46
	(b) Population covered	Lacs	1.99	6.00	2.70	3.78	3.78	4.85
(ii) Amritsar—								
	(a) Augmentation Capacity Mld.		75.01	87.21	75.00	80.27	80.27	85.53
	(b) Population covered	Lacs	0.83	3.07	1.40	2.06	2.06	2.71
(iii) Jullundur—								
	(a) Augmentation capacity Mld.		45.97	64.35	49.52	52.87	52.87	56.21
	(b) Population covered	Lacs	0.84	2.82	1.47	1.99	1.99	2.50
Other Towns								
(i) Original Schemes:								
	(a) Towns covered	Nos.	52	58	—	—	—	—
	(b) Population covered	Lacs	8.27	15.57	—	—	—	—
(ii) Augmentation Schemes—								
	(a) Towns covered	Nos.	—	22 (5 IDA towns 11 LIC towns 1 HUDCO and 5 other towns)	6 (IDA 5 towns & 1 HUDCO Partly)	17 (LIC 2nd & IDA & HUDCO (Partly) (5 IDA towns 12 LIC 2nd Part)	17 (Partly) (5 IDA & 11 LIC 2nd Kkg. I 1 HUDCO)	17 (5 IDA & 11 LIC 2nd pkg 1 HUDCO)
	(b) Population covered	Lacs	Part Population		0.82	1.328	1.328	1.347

ANNUAL PLAN 1982-83

STATEMENT III

Targets of Production and Physical Achievements

Srl. No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82	1982-83	
			1979-80 Base year level	1984-85 Terminal year target	Achievements	Targets	Anticipated achievement	Targets
1	2	3	4	5	6	7	8	9
X. RURAL WATER SUPPLY								
I								
Under Minimum Needs Programme								
(State Sector Only)								
(a) Piped Water Supply—								
	(i) Villages covered	Nos.	77	597	48	80	45	55
	(ii) Population covered	Lakhs	1.03	6.91	0.92	0.944	0.56	0.65
Other Rural Water Supply								
Under A.R.P.—								
(a) Piped Water Supply—								
	(i) Villages covered	Nos.	58	90	32	20	5	15
	(ii) Population covered	Lakhs	0.75	1.06	0.37	0.236	0.04	0.18
XI. HOUSING								
A. Rural Housing								
1	Rural House-sites Scheme	No.	—	—	—	—	—	—
2	Houses for rural homeless	No.	778	24389+6611 (Spill over)	9919	4000	4000	5400
3	Village Housing Project Scheme	Loanees	5058	3400	1264	400	1400	40
B. Urban Housing								
1	Subsidised Industrial Housing Scheme—							
	(a) Government Sector	Houses	2440	228	—	40	40	—
	(b) Private Co-operative Sector	Houses	2463	384	32	64	64	80
	Total		10739	28401+6611 (Spill over)	11215	4504	5504	520
2	Low-Income Group Housing Scheme	Loanees	28992	6000	600	800	1300	60
3	Middle-Income Group Housing Scheme	Do	1283	300	175	50	175	15
4	Rental Housing Scheme— Houses for Government Employees—							
	(a) At District/Tehsil Head- quarters and other places		1658	1168+754 (Spill over)	1524 houses under construction	80	80	—
	(b) At Focal Points	Do	—	218+478 (Spill over)	376 houses under construction	—	—	—
	(c) At Chandigarh	Do	—	410+718 (Spill over)	64 completed 366 under construction	—	—	—
	Total		31933	8096+1950 (Spill over)	2266 houses under construction 739 completed-	930	1555	75

ANNUAL PLAN 1982-83

STATEMENT III

Targets of Production and Physical Achievements

Sr. No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82		1982-83
			1979-80 Base Year Level	1984-85 Terminal Year Target	Achievement	Target	Anticipated achievement	Target
1	2	3	4	5	6	7	8	9
5	Land Acquisition & area Development—							
	(a) Area acquired ..	Acres	—	1000	—	750	750	150
	(b) Area Developed ..	Do	430	600	255	500	500	2846
6	Environmental Improvement of Slums	NA	NA	NA	NA	NA	NA	NA
7	House Building Advance to Govt. Servants	Loanees	—	—	900	605	605	587
8	Loans for building houses in Urban Estates	Do	1491	450	104	90	90	75
9	Police Housing ..	Houses	2661 3330 Bar- racks)	4306 3880 Bar- racks)	734 Spill over)	200	200	(50 houses + Bar- rack accommo- dation for 200 persons)
XII. LABOUR AND LABOUR WELFARE								
A. Craftsmen Training								
1.	No. of Industrial Training Institutes (ITIs.)	Nos. (Commulative)	38	—	—	—	—	—
2	Intake capacity ..	„	12316	12316	—	—	—	—
3	No. of persons undergoing Training	„	12316	12316	—	—	—	—
4	Out-turn ..	„	12316	—	—	—	—	—
B. Apprenticeship Training								
1	Trg. places located ..	„	2451	4100	4000	4100	4150	4250
2	Apprentices trained ..	„	2451	4100	4000	4100	4150	4250
C. No. of Employment Exchanges								
1.	No. of Labour Welfare Centres	„	—	—	—	—	—	—
XIII WELFARE OF BACKWARD CLASSES								
1. Pre-matric education incentives—								
	(i) Scholarships/Stipends ..	Nos.	30,000	2,13,000	16,000	31,000	31,000	—
	(ii) Other incentives like boarding, grants, books/ stationery and uniforms	No. of students lakh	1.00	9.08	1.37	1.46	1.50	1.80
	(iii) Ashram Schools ..	Nos. (Commulative)	—	—	—	—	—	—

ANNUAL PLAN 1982-83

STATEMENT III

Targets of Production and Physical Achievements

Sr. No.	Item	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82		1982-83 Target
			1979-80 Base Year Level	1984-85 Terminal Year Target	Achievement	Targets	Anticipated Achievement	
1	2	3	4	5	6	7	8	9
2. Economic Aid—								
	(i) For Agriculture	No. of families	100	1220	100	184	184	200
	(ii) For Animal Husbandry	"	—	—	—	—	—	—
	(iii) For Cottage Industry	"	—	—	—	—	—	—
3.	(i) House-sites	"	—	—	—	—	—	—
	(ii) Drinking Water Wells/Tanks	Nos.	763	5563	698	1050	1050	1050
XIV. SOCIAL WELFARE								
1. Child Welfare—								
	(a) Schemes under IYC	x	—	—	—	—	—	—
	(b) ICDS	x	—	—	4000	NA	NA	6000
	(c) Balwadies	x	—	—	—	—	—	—
	(d) Creches	x	—	—	—	—	—	—
2. Women Welfare—								
	(a) Training-cum-Production	x	—	—	—	—	—	—
	(b) Hostels for working women	x	—	—	—	—	—	—
	(c) Bal wadies	x	—	—	—	—	—	—
3. Welfare of the Handicapped—								
	(a) Programme for the Blind	x	—	—	—	—	—	—
	(b) Programme for the Deaf	x	—	—	—	—	—	—
	(c) Programmes for the Orthopaedically handicapped	"	140	525	105	100	100	105
	(d) Programmes for the Mentally Retarded	"	—	—	—	—	—	—
4. Welfare of Destitute and Poor—								
	(a) Financial assistance to—							
	(i) Women	"	—	—	—	—	—	—
	(ii) Children	"	—	—	—	—	—	—
	(b) Old Age Pension	"	—	—	—	—	—	—

ANNUAL PLAN 1982-83

STATEMENT IV

REVISED MINIMUM NEEDS PROGRAMMES OUTLAYS AND EXPENDITURE

(Rs. in lakhs)

Name of the Programme	Sixth Five-year Plan 1980-85	1980-81 Actual expenditure	1981-82		Outlay 1982-83	
			Approved outlay	Anticipated expenditure	Total	Of which capital content
1	2	3	4	5	6	7
I. General Education :						
1. Elementary Education--						
(a) Classes I-V (age-group 6-11 years)	726.00	67.86	120.00	93.73	114.40	100.00
(b) Classes VI-VIII (age-group 11-14 years)	1386.05	144.24	213.02	252.77	256.61	2.50
2. Adult Education	100.00	—	15.60	10.60	8.40	—
Total	2212.05	212.10	348.62	357.10	379.41	102.50
II. Public Health :						
PH 1.1 Completion and Improvement of Primary Health Centres	48.00	25.94	3.95	3.95	5.45	4.00
PH 1.2 Completion and Improvement of Sub-Centres	273.00	—	35.00	25.24	11.25	1.00
PH 1.3 Opening of Subsidiary Health Centres in Rural Areas	995.00	119.40	222.60	247.00	325.00	15.00
PH 1.4 Improvement of Subsidiary Health Centres	1.00	—	—	—	—	—
PH 1.5 Establishment of Community Health centres	—	—	—	0.10	0.10	—
Total	1317.00	145.34	261.55	276.19	341.80	20.00
III Rural Water supply	6800.00	335.47	800.00	500.00	500.00	500.00
IV Nutrition	80.00	10.56	16.00	16.00	16.00	—
V Rural Roads	2000.00	425.54	410.00	410.00	407.00	407.00
Zila Parishad Roads	80.00	—	20.00	20.00	—	—
VI. Housing :						
HG 2.2 Houses for rural homeless	1200.00	170.00	285.00	285.00	285.00	285.00
VII. Urban Development :						
UD 6 Environmental Improvement of slums	500.00	19.00	80.00	80.00	80.00	80.00
Rural Electrification—						
(i) REC Plan	3174.00	1250.83	572.00	572.00	629.00	629.00
(ii) Normal State Plan	3960.00	494.86	600.00	600.00	571.00	571.00
Total	7134.00	1745.69	1172.00	1172.00	1200.00	1200.00

ANNUAL PLAN 1982-83

STATEMENT—V

TARGETS AND PHYSICAL ACHIEVEMENTS—PHYSICAL PROGRAMME—R.M.N.P.

(Rs. in lacs)

Head of Development	Unit	Sixth Five-Year Plan 1980-85		1980-81	1981-82		1982-83
		1979-80 Base Year Level	1984-85 Terminal Year Target	Achieve- ment.	Target	Achieve- ment	Target
1	2	3	4	5	6	7	8
I. Education :							
1. Elementary Education							
(a) Class I—V (Age-group 6—11 years) ✓	.. 000	2067	1971	2068	1975	1975	1925
(b) Class VI—VIII (Age-group 11—14 years)	..	661	910	702	750	750	810
2. Adult Education—							
(a) No. of participants (Age-group 15—35)	.. No	837	84000	26317	83700	83700	83700
(b) No. of Centres—							
(i) Centre	.. No	40	2500	1244	2500	2500	2500
(ii) State	.. No.	274	1790	241	1490	1490	1790
II. Rural Health :							
(a) Pry. Health Centres	.. No.	129	130	—	1	1	—
(b) Subsidiary Health Centres	.. No.	1096	2096	200	200	200	—
(c) Sub-Centre	.. No.	2105	2602	200	488	488	—
(d) Rural Hospital	.. No.	111	132	—	—	—	—
III. Rural Water Supply :							
(a) No. of problem villages	.. No	3712	—	—	—	—	—
(b) Villages covered	.. No.	135	687	80	100	50	70
(c) Population in all problem villages	.. 000's thousands	4071	4071	—	—	—	—
(d) Population covered in villages at (b)	.. 000's thousands	178	79	129	118	60	83
(e) No. of villages covered by—							
(i) Piped Water Supply							
(ii) Dug Wells							
(iii) Hand Pump Tubewells					Nil		
(iv) Power Pump Tubewells							
(v) Others (specify)							
(f) Total number of Schemes—							
(i) Piped Water Supply							
(ii) Hand Pump Tubewells							
(iii) Power Pump Tubewells					Nil		
(iv) Dug Wells							
(v) Others (Please specify)							

ANNUAL PLAN: 1982-83

STATEMENT—V

TARGETS AND PHYSICAL ACHIEVEMENTS—PHYSICAL PROGRAMME—RMNP

(Rs. in lakhs)

Serial No.	Head of Development	Unit	Sixth Five-Year Plan 1980-85		1980-81 Achievement	1981-82		1982-83 Target	
			1979-80 Base year Level	1984-85 Terminal year target		Target	Anticipated Achievement		
1		2	3	4	5	6	7	8	
V. Rural Roads :									
(a)	Length	Kms	24524	25824	25120	25220	25220	25320	
(b)	Total No. of villages linked in the State	No.	11824	*12113	11997	12001	12001	12001	
(c) Villages connected—									
(i)	With a population of 1500 and above	No.	1689	1689	1689	1689	1689	1689	
(ii)	With a population between 1000.—1500	No.	1657	1657	1657	1657	1657	1657	
(iii)	With a population below 1000	No.	8478	8767	8651	8655	8655	8655	
V. Nutrition :									
(a)	Beneficiaries under Special Nutrition Programme in ICDS	}							
	Children 0—6 years								
	Women		17000	75000	15000	15000	21000	15000	
(b)	Beneficiaries under special Nutrition Programme outside ICDS								
	Children 0—6 years								
	Women								
VI Housing									
(a)	Rural House-sites	No.	*						
(b)	Houses for rural homeless	No.	778	24389** 6611 (Spill over)	9919	4000	4000	5400	
VII. Urban Development									
	Environmental Improvement of Urban Slums		N.A.	NA	NA	NA	NA	NA	
VIII. Rural Electrification—									
	Villages Electrified	No.	All the 12126 inhabited villages in the State have been Electrified by 10th May, 1976.						

*The target is subject to availability of land etc.

**All the eligible persons (About 3 lakhs) were provided free house sites.

ANNUAL PLAN 1982-83

STATEMENT VI

CENTRALLY SPONSORED SCHEMES OUTLAY

(Rs in lakhs)

Name of the scheme	Sixth Plan outlay 1980-85	Actual Expenditure 1980-81	Allocation 1981-82	Anticipated Expenditure 1981-82	1982-83 Outlay	
1	2	3	4	5	6	
I AGRICULTURE						
C.S. 1	Timely reporting revised calendar operation and improved Crops/Statistics	10.20	1.93	2.00	2.36	2.50
C.S. 2	Scheme to enable the Small Farmers in eradication of Pests/disease in endemic area by Aero-Chemical Operations	5.00	0.31	1.00	—	0.50
C.S. 3	Intensive Cotton District Programme including scheme for Production of Nucleous seed of Cotton	250.00	28.94	46.64	28.39	37.30
C.S. 4	Intensive oil seed Development Programme ..	80.00	11.05	16.78	13.65	25.85
C.S. 5	Intensive Pulses Development Programme ..	35.00	4.81	6.73	5.36	6.88
C.S. 6	Scheme for control of weeds and Lobse smut ..	150.00	20.16	30.00	21.15	30.00
C.S. 7	Scheme for the provision of improved grain storage bins (100% C.S.)	75.00	—	—	10.00	—
C.S. 8	Scheme for the Development of rural regulated market-grant-in-aid to Marketing Board (100 % C.S.)	—	50.00	—	—	—
C.S. 10	Agricultural Census (100 % C.S.) ..	—	—	—	0.65	10.85
C.S. 11	Creation of Biogas Cell (100% CS)	—	—	—	—	0.90
	Total ..	605.20	117.20	103.15	81.56	114.78
II. MINOR IRRIGATION						
C.S. 1	Strengthening of ground water surface water (Minor Irrigation) organisation (Irrigation Department)	7.50	2.71	—	—	—
C.S. 2	Strengthening of ground water/surface water (Minor Irrigation) organisation (Agriculture Department)	50.00	6.39	10.00	10.00	10.00
C.S. 3	Strengthening of Ground water/surface water (Minor Irrigation) organisation (Punjab State Tubewell Corporation)	15.00	3.00	3.00	3.00	3.00
C.S. 4	Scheme for the Improvement of Irrigation Statistics (100% C.S.) (Agriculture Deptt.)	5.70	—	1.30	—	1.30
	Total	78.20	12.10	14.30	13.00	14.00
III. ANIMAL HUSBANDRY						
C.S. 1	Foot and Mouth Disease Control programme Project for vaccination of cattle and Buffaloes in selected areas	13.00	1.49	2.59	1.50	2.84
C.S. 2	ICAR Scheme— All India Coordinated Res-Project on Epidemiological studies on Foot and Mouth	2.41	0.49	0.46	0.60	0.79
C.S. 3	Assistance to Small/Marginal Farmers and Agri-Labourers for rearing of crossbred heifers	72.00	12.08	—	14.00	20.37
C.S. 4	Implementation of Poultry, Piggery and sheep Production through Small/Marginal Farmers and Agri. Labourers	70.00	7.97	—	11.65	11.74
C.S. 5	Sample Survey on estimation of production of major livestock products	—	—	—	—	6.23
	Total ..	157.41	22.03	3.05	27.75	41.97

ANNUAL PLAN 1982-83
STATEMENT VI
CENTRALLY SPONSORED SCHEMES OUTLAYS

(Rs. in lakhs)

1	Name of the scheme	Sixth Plan Outlay 1980-85	Actual Expenditure 1980-81	Allocation 1981-82	Anticipated Expenditure 1981-82	1982-83 Outlay
1	2	3	4	5	6	6
IV FORESTS						
C.S. 1	Raising of fuelwood plantations	100.00	—	20.00	34.92	35.00
C.S. 2	Soil Water and Tree conservation in Himalayas	110.00	9.95	25.00	25.00	25.00
C.S. 3	Integrated Watershed management in the catchment of flood-prone rivers	25.00	—	—	—	—
	Total	235.00	9.95	45.00	59.92	60.00
V. COMMUNITY DEVELOPMENT AND PANCHAYATS						
C.S. 1	Assistance to Rural Development Agencies for Integrated Rural Development Programme	1975.00	270.00	240.00	354.00	472.00
	Total	1975.00	270.00	240.00	354.00	472.00
VI. NATIONAL RURAL EMPLOYMENT PROGRAMME						
	Total	—	—	—	—	260.00
VII. CO-OPERATION						
C.S. 1	Agriculture Credit Stabilisation Fund	50.00	—	10.00	10.00	10.00
C.S. 2	Assistance for construction of Rural Godowns by Reorganised Primary Agriculture Service Societies	504.20	55.70	204.77	204.77	143.59
C.S. 3	Assistance for distribution of consumer articles in Rural Areas	414.58	15.93	51.62	51.62	20.00
C.S. 4	Margin money as share capital contribution to Punjab H/Loom Weavers Apex Co-operative Society for setting up of show room-cum-sale centres	5.40	3.00	1.20	1.20	1.20
C.S. 5	Assistance for technical and promotional cell of various Apex Federations					
	(i) Spinfed	5.00	—	1.00	1.00	1.00
	(ii) Handloom Apex	3.70	0.26	0.90	0.90	0.90
C.S. 6	Assistance for preparation of project reports/feasibility studies to Milkfed and other State Federations					
	(i) Spinfed	2.50	0.50	1.00	1.00	1.00
	(ii) Handloom apex	—	—	—	—	0.30
C.S. 7	Share Capital participation in Cooperative Sugar Factories and Cooperative Spinning Mills					
	(a) Spinfed					
	(i) New Spinning Mills					
	(a) Cotton Growers	1016.32	110.00	349.41	281.17	350.00
	(b) Handloom Weavers	—	—	—	—	100.00
	(ii) Spinning Mills Expansion	90.00	—	—	—	—
	(iii) Cotton Waste Processing and Spinning Mills	39.00	—	—	—	52.00
	(b) Assistance for installation of new Sugar Mills	1485.00	—	742.00	15.00	44.05
C.S. 8	Assistance as loan for construction of cold storages	595.00	—	47.60	34.12	34.12

ANNUAL PLAN 1982-83

STATEMENT VI

CENTRALLY SPONSORED SCHEMES OUTLAYS

(Rs. in lakhs)

Name of Scheme	Sixth Plan Outlay 1980-85	Actual Expenditure during 1980-81	Allocation 1981-82	Anticipated Expenditure 1981-82	1982-83 Outlay
1	2	3	4	5	6
C-S. 9 Share capital contribution to Co-operative Handloom Apex Society					
(i) Strengthening of share capital base of the Primary Socs. including Industrial Weavers Co-op. Socs.	35.00	—	7.00	7.00	7.00
(ii) Strengthening of equity base of Apex Socs.	25.00	6.00	5.00	5.00	7.00
C.S. 10 Managerial subsidy to Handloom Apex/Primary Societies	25.35	1.24	3.00	1.50	1.50
C.S. 11 Assistance to Handloom processing units for modernisation/setting up of Handloom units	5.00	1.00	1.00	1.00	1.00
C.S. 12 Assistance to Handloom Apex/ Primary Socs. as sale subsidy/Rebate	10.00	1.00	1.50	1.50	1.50
C.S. 13 Rehabilitation of weak Central Co-operative Banks	4.75	—	0.95	0.95	—
C.S. 14 Assistance to Central Coop. Banks as Bad Debt Reserves (Risk Fund)	50.00	—	10.00	—	—
C.S. 15 Construction of Markfed Wheat Storage Godowns	7065.00	74.37	723.75	65.67	70.00
C.S. 16 Assistance as loan and share capital for setting up processing units by Handloom apex	108.00	—	27.00	27.00	21.70
C.S. 17 Assistance to Markfed for Setting up processing units	604.34	—	—	—	392.83
Total	12143.14	269.00	2188.70	710.40	1260.69
VIII. POWER					
220 KV Dasuya Switching Substation	—	124.00	35.00	35.70	38.00
IX INDUSTRY AND MINERALS					
C.S.1 10-15 Per cent Central Investment Subsidy	550.00	60.00	85.00	60.00	60.00
C.S.2 Engineer Entrepreneur Training programme (Interest subsidy)	10.00	0.76	2.00	2.00	2.00
C.S.7 Setting up of Nucleus Cell for updating the Census Data	5.50	0.45	—	0.70	1.00
C.S.8 Export Production Project	12.02	12.02	—	—	—
C.S.9 Census-dum-Survey	11.00	—	2.00	1.60	3.00
C.S.11 Setting up of Processing House for Power-loom	69.83	69.83	—	—	—
C.S.12 District Industries Centres	250.00	10.11	50.00	38.83	38.00
C.S. 13 Rebate on sale of Handloom cloth	—	—	—	—	4.00
C.S. 14 Punjab State Handloom and Textile Development Corporation	—	—	—	—	50.00
Total	908.35	153.17	139.00	102.63	158.00

ANNUAL PLAN 1982-83

STATEMENT VI
CENTRALLY SPONSORED SCHEMES

(Rs in lakhs)

Name of Scheme		Sixth plan outlay 1980-85	Actual Expenditure during 1980-82	Allocation 1981-82	Anticipated Expenditure 1981-82	1982-83 outlay
1		2	3	4	5	6
X. EDUCATION						
C.S.1	Taking over of N.E.C. Scheme ..	121.00	35.92	48.89	48.89	52.26
C.S.2.	Social Education Programmse—					
C.S.2.	(a) Non-formal Education in the Age-group 15-35 ..	—	—	—	—	—
C.S.2	(b) Creation of Administrative Structure for Adult Education at State level ..	17.50	—	3.00	3.00	3.50
C.S.3	Setting up of an Educational technology cell ..	3.01	2.55	—	—	—
C.S.4	Setting up of State Survey Unit ..	0.09	0.07	—	—	—
C.S.5	integrated Education for Physically Handicapped children ..	8.52	—	2.17	2.17	1.27
C.S.6	Vocationalisation of Higher Secondary Education conduct of District Vocational Survey ..	—	—	0.40	0.40	—
C.S.7	Scholarship ..	N.A.	2.22	0.50	5.00	5.90
C.S.8	Scholarships for the study of Hindi in Non-Hindi speaking areas ..	N.A.	1.05	1.40	1.40	1.50
C.S.9	National Loan Scholarships ..	N.A.	1.69	5.00	5.00	3.00
C.S.10	National Service schms (N.S.S.) ..	64.15	10.58	12.25	12.25	12.83
C.S.11	Promotion of Regional languages (Punjab State University Text book Board) ..	60.65	5.52	11.86	11.86	12.46
	Total ..	274.92	59.60	89.97	89.97	92.72
XI PUBLIC HEALTH AND SANITATION						
C.S.1	Visual impairment and prevention of Blindness (DRME)	20.00	1.15	3.00	3.00	8.52
C.S.2	National Malaria Eradication Programme (Rural)	605.30	111.48	133.00	133.00	1150.00
C.S.3	National Malaria Eradication Programme (Anti- Larvel) (50 per cent Centrally sponsored scheme)	77.20	14.16	17.75	17.75	18.00
C.S.4	National T.B. Control Programme ..	58.00	1.39	6.75	6.75	7.00
C.S.5	National Leprosy Control Programme ..	8.00	0.17	1.50	1.50	1.00
C.S.6	National Programme for control of visual impair- ment and Blindness including Trachoma (100 per cent C.S.) (DHS) ..	45.00	—	4.00	4.00	4.00
C.S.7	Training and Employment of Multipurpose workers scheme ..	60.00	13.43	12.10	12.10	8.50
CS.8	Family Welfare Programme (100 per cent C.S.)	2092.96	337.45	359.35	469.29	555.55
CS.9	Assistance to Post-graduate in I.S.M. ..	25.75	3.32	3.80	3.80	7.50
CS.1	Establishment of Pharmacies including Herbal Farms and Drugs Testing Laboratory ..	13.25	0.43	4.00	2.80	2.80
CS.1	USAID Assisted Area Project (100 per cent C.S.)	789.72	0.16	50.00	50.00	3357.00
CS.1	Community Health guides ..	387.42	—	—	—	63.24
	Total ..	4182.60	483.14	599.85	708.59	11183.11

ANNUAL PLAN :1982-83

STATEMENT VI

CENTRALLY SPONSORED SCHEMES

(Rupees in lakh)

Name of Scheme/Project	Sixth Five Year Plan 1980-85	Actual expenditure during 1980-81	1981-82 Allocation	Anticipated expenditure 1981-82	1982-83 Proposed outlay	
1	2	3	4	5	6	
XII RURAL WATER SUPPLY						
C.S.1	Accelerated Rural Water Supply Programme (100 per cent C.S.)	900.00	47.79	76.50	76.50	200.00
XIII WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES						
C.S.1	IAS coaching centre	9.10	—	1.50	1.50	1.50
C.S.2	Girl hostels	4.55	0.75	0.75	0.75	0.75
C.S.3	Share assistance to Punjab Scheduled Castes Land Development and Finance Corp.	196.00	98.00	49.00	49.00	49.00
C.S.4	Grants for the purchase of medical and engineering books	10.00	—	2.00	2.00	4.00
C.S.5	Post-matric Scholarships (100 per cent C.S.)	42.50	8.50	8.50	8.50	8.50
Total		262.15	107.25	61.75	61.75	63.75
XIV SOCIAL WELFARE						
C.S.1	Children in the need of care and protection	8.00	0.20	1.50	1.50	1.50
C.S.2	Functional literacy	76.11	2.63	14.00	14.00	16.00
Total		54.11	2.83	15.50	15.50	17.50
XV. ECONOMIC SERVICES						
	Economic census and survey	—	2.55	3.75	3.57	5.00
XVI. URBAN DEVELOPMENT						
	Integrated Development of Small and Medium towns	400.00	65.00	65.00	65.00	65.00

Sub. National Services Unit,
National
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