



DRAFT ANNUAL PLAN 1979-80

GOVERNMENT OF PUNJAB
DEPARTMENT OF PLANNING

DRAFT ANNUAL PLAN

1979-80



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DEPARTMENT OF PLANNING

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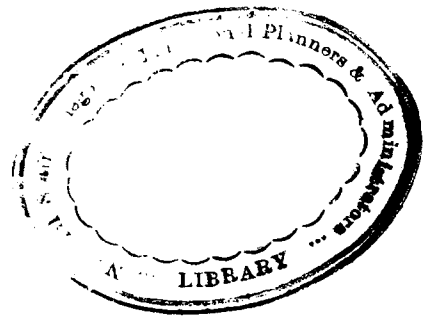
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PART I

Approach to the Annual Plan 1979-80

The overall strategy and objectives of the Draft Annual Plan 1979-80 are in conformity with those laid down in the Sixth Five Year Plan 1978-83 : Framework. The objectives and strategy have been derived from the basic goal of developing Punjab into a Model State during the next ten years. The main elements of this strategy are :

Accelerated growth.

Diversification of the economy.

Fuller employment.

Reduced rural-urban disparity in health, education and other social services.

Welfare of the weaker sections.

Integrated Rural Development.

Emphasis on improvement in the quality of life.

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

1.3. Over the period 1965-66 to 1975-76, the Punjab economy has grown at the rate of 4.78 percent per annum. This rate, though substantially higher than the national average of around 3.5 percent, is, nevertheless, inadequate both in relation to the growth potential of the State and the fulfilment of the Plan objectives. Increase in the average family income to higher than Rs. 15,000 per annum, significant progress towards industrialisation and diversification of the economy, removal of poverty from the State, reduction of unemployment and underemployment to acceptable proportions, significant improvement in the economic and social condition of the weaker sections, universalisation of school education and literacy, reduction in the rural-urban disparity with regard to living standards, social services and civic amenities, economic development of backward areas and all round improvement in the quality of life, all call for accelerated pace of development. An annual 7 per cent rate of growth for 1979-80 has been considered the minimum necessary for progress towards the long-term goal for a Model State.

1.4. The size of the State's Annual Plan 1979-80 is proposed at Rs. 260.57 crores. The details of outlays by sub-head are shown in Annexure-I. The size of the State's Annual Plan 1979-80 is of the same order as the Annual Plan 1978-79 as originally proposed. Taking into account the substantial transfer of committed expenditure from 'Plan' to 'Non-Plan', the total effective developmental outlay in 1979-80 will be substantially higher at Rs. 299.57 crores than in the previous year.

1.5. The Physical Targets for 1979-80 of selected items are shown in Annexure II.

1.6. The overall strategy and objectives of the Annual Plan 1979-80 are in conformity with those laid down in the Sixth Five Year Plan 1978-83 : Framework, which has already been approved by the State Planning Board.

Agriculture :

1.7. With the concerted efforts of the Government and the farmers of the State, record agricultural production was achieved in 1977-78. The output of rice was 2494 thousand tonnes in 1977-78. Similarly the production of wheat was 6639 thousand tonnes in 1977-78. The production of total foodgrains went upto 10346 thousand tonnes in 1977-78 as against 9215 thousand tonnes in 1976-77. The targets for total foodgrains for 1979-80 has been set at 10,700 thousand tonnes.

1.8. The Annual Plan 1979-80 contemplates some adjustments in the pattern of development of crop production. The output of cotton is expected to increase from the current year estimates of 1300 thousand bales to 1350 thousand bales in 1979-80 and oil-seeds from 300 thousand tonnes to 310 thousand tonnes in 1979-80. The increase in potato production is expected to be about 7 percent during 1979-80.

1.9. The main thrust in agriculture is towards intensification, diversification, integrated rural development and post-harvest technology. The Plan includes a comprehensive package of programmes to achieve these objectives and rural development.

1.10. An outlay of Rs. 1800.00 lakhs is provided for the sub-head of development 'Agriculture' for 1979-80 as against an anticipated expenditure of

Rs. 1807.67 lakhs for the current year. It may be added that effective Plan size for 1979-80 of this sub-head will be much more as out of the current anticipated expenditure of the current year are about Rs. 1 crore has been taken on the non-plan side as committed expenditure and a programme relating to providing subsidy on non-nitrogenous fertilizers amounting to Rs. 2 crores is proposed to be discontinued from the Annual Plan 1979-80. Thus, there will be a step up of about Rs. 3 crores in the allocation of this sub-head for the next year as compared to the anticipated expenditure of the current year.

1.11. Stress has been laid to reclaim alkaline and saline lands in the State. It is proposed to reclaim an area of 80,000 hectares during 1979-80 against an anticipated achievement of 18,000 hectares during 1978-79. A sum of Rs. 50.00 lakhs has been provided as subsidy to Markfed and Agro Industries Corporation for off-time storage of fertilizer for making timely supply of fertilizer to farmer.

Animal Husbandry

1.12. Viewing the role of cattle wealth in the State economy for increasing milk production and supplementary food, the entire programme of cattle development has been scientifically organised with the thrust towards increased milk production. Animal Husbandry as been accorded a high priority. The main ingredients include breed improvement, development of feed and fodder, a provision of effective health cover and strengthening the infra-structures conducive for cattle wealth. During 1979-80, milk production will increase from the level of 2729 thousand tonnes in 1977-78 to 3059 thousand tonnes. For the improvement of buffaloes, selective breeding and progeny testing programmes will be implemented in field conditions. 400-500 buffaloes will be identified for providing maintenance subsidy of Rs. 1000 per buffalo. 117 veterinary hospitals-cum-artificial insemination centres will be openend.

Soil Conservation

1.13. An outlay of Rs. 300.00 lakhs has been allocated in the Annual Plan 1979-80 for Soil Conservation Works. Effective expenditure will, however, be higher as staff schemes involving an outlay of Rs. 75.00 lakhs will be funded on the Non-Plan side from 1979-80 onwards. During 1979-80, it is proposed to cover an area of 1,23,000 hectares under

various Soil Conservation and Water Management works. Major thrust of the Plan of Soil Conservation and Engineering Department is on Soil and Water Conservation works, viz. contour bunding, bench terracing/land levelling, dams, storage tanks, gully reclamation and installation of underground pipelines over an area of 8500 hectares in sub-montane and adjoining plain areas. An outlay of Rs. 130 lakhs has been provided for this purpose. A sum of Rs. 33.00 lakhs is proposed to be utilised for treatment of 1210 hectares in the sub-mountainous tract of the State with World Bank assistance. It is also proposed to carry out lining of 2500 kms. of canals water course and land levelling works over an area of 1.01 lakhs hectares with an outlay of Rs. 45 lakhs provided for the purpose. An outlay of Rs. 42 lakhs has been provided for Soil Conservation works an area of 8000 hectares in Central districts. Institutional finance of Rs. 11.52 crores is proposed to be raised for implementing various programmes like lining of canal water courses and other soil conservation works.

Integrated Rural Development

1.14. The most significant programme of rural development is the Integrated Rural Development Programme. The programme launched in October, 1977, aims at improving the material well-being of the people of the rural areas. Special efforts will be made under this programme to provide full and gainful employment to scheduled castes and other economically weaker sections like agricultural labourers, village artisans and other unemployed educated persons. From these classes the poorest families will be identified. The un-employed persons of these households will be assisted through the grant of subsidies, loans and provision of other necessary facilities to set up cottage industries, repair and service shops, enter into retail trade and establish small dairy, piggery and poultry units. Thus in this comprehensive programme of rural development main focus in 1979-80 will be on the economic betterment of the poorest section of the rural population. A total amount of Rs 554.72 lakhs has been provided for various schemes of agriculture, soil conservation, animal husbandry, dairy, fisheries, community development and panchayat, co-operation and industries under IRDP.

Cooperation

1.15. An outlay of Rs. 475 lakhs has been allocated for this sub-head of development for the Annual Plan 1979-80. The main emphasis in the Plan of the Co-operation Department has been laid on the reorganisation and revitalisation of credit structure in the State. Out of a total outlay of Rs. 4.75 crores, provision of Rs. 2.75 crores has been made for the programme of credit co-operatives. The major schemes in this programme relate to construction of rural godowns at focal points and in other areas, strengthening of reorganised primary agricultural service societies through grant of managerial subsidy and contribution of Government share capital by availing loan assistance from the R.B.I. to primary co-operative agricultural service societies and co-operative banks. The number of bank branches are proposed to be increased from 365 in 1977-78 to 750 by 1979-80. It is proposed to advance short and medium-term loans to the extent of Rs. 143.50 crores during 1979-80 against anticipated amount of Rs. 113.00 crores during the current year. Advancement of long term loans will suitably be stepped up from estimated Rs. 35.60 crores during 1978-79 to Rs. 44 crores during 1979-80.

1.16. The programme of development of Dairy Cooperative and their Unions is another major sector on which significant stress is being laid in the Plan. Out of the outlay of Rs. 85 lakhs provided under the programme, a sum of Rs. 61 lakhs will be expended in strengthening eight Milk Unions for streamlining the work of milk procurement and processing. Provision of Rs. 11 lakhs has been made in the Annual Plan for strengthening consumers stores in Urban areas. The programme of distribution of consumer articles in rural areas has been given desired importance. It is proposed to establish 130 projects which would cater to the requirements of 670 new retail outlets to be set up with assistance to be raised from the National Cooperative Development Corporation.

Irrigation

1.17. For the Irrigation sector, a provision of Rs. 39.70 crores (Rs. 34.50 crores for Major and Medium Irrigation and Rs. 5.20 crores for Minor Irrigation) has been made for the year 1979-80 as against an anticipated expenditure of Rs. 29.17 crores (Rs. 24.36 crores for Major and Medium Irrigation and Rs. 4.81 crores for Minor Irrigation) during the current year.

1.18. The major programmes under the Irrigation sector include Lining of Channels and Their Dam. The provision for Lining of Channels has been stepped up from Rs. 7.05 crores during 1978-79 to Rs. 12.50 crores during 1979-80 and for Their Dam from Rs. 5.40 crores during 1978-79 to Rs. 13.50 crores for 1979-80. The project 'Diversion Weir of Shahnehar Canal' is likely to be completed during the year 1979-80 affording regular and regulated water supplies to the existing shahnehar canal system.

1.19. It is envisaged to create an additional Irrigation potential of 46500 hectares by implementing various major and medium irrigation schemes during the next year as against an additional irrigation potential of 26000 hectares likely to be created during the current year.

1.20. It is targetted to line 730 Kms. of canal distributaries/minors during the Annual Plan 1979-80 against 370 Kms. likely to be lined during 1978-79. Similarly 4300 Kms. of water courses would be lined during the next year as against 5000 Kms. anticipated to be lined during the current year.

Power

1.21. The provision for power has been increased to Rs. 98.00 crores for 1979-80 as against a sum of Rs. 82.17 crores likely to be spent during the current year. The main thrust will be on accelerating the work of Anandpur Sahib and Mukerian Hydel Projects and the completion of Shanan Renovation Projects. An outlay of Rs. 23.55 crores, Rs. 11.00 crores and Rs. 1.37 crores have been provided for these Projects for the year 1979-80 as against Rs. 17.62 crores, Rs. 2.70 crores and Rs. 1.94 crores likely to be spent on these projects respectively during the current year. It is anticipated that the work relating to Beas Project Units I and II and Guru Nanak Dev Thermal Project Extension-I, Bhatinda would be completed during the current year.

1.22. Efforts are being made to impress upon the Government of India to accord clearnace for the Ropar Thermal Project and Guru Nanak Dev Extension Stage-II, Bhatinda so that the execution of these projects may be taken up next year.

1.23. With the completion of the Shanan Renovation Project the installed capacity generation will further move up from 15 MW during 1978-79

to 1556 MW in 1979-80. As a consequence the power generation would increase to 5433 MKWH in 1979-80 as compared to 4749 MKWH during 1978-79.

1.24. It is targetted to energise 30,000 tube-wells/pumping sets, give 125000 general connections and 3000 Industrial connections during 1979-80.

Industry and Minerals

1.25. The outlay during 1978-79 for the sub-head industry and Minerals was originally provided at Rs. 1295.32 lakhs which subsequently had to be revised, in view of constraint on the resources of the State, to Rs. 1165.79 lakhs. For the year 1979-80 an outlay of Rs. 1250.00 lakhs has been proposed.

1.26. The Plan for 1979-80 has been prepared keeping in view the main elements of the strategy for Sixth Five Year Plan of the State, such as, accelerated growth, diversification of the economy and full employment. The State has now reached a stage where sustained accelerated progress calls for a diversification approach particularly lying greater emphasis on industrial development. The main emphasis during the year will, therefore, be for setting up village and Small industries and tiny units in villages so as to create maximum employment. In addition to this, agro-based industries like Sugar Mills, Cotton Spinning Mills, Cotton Seed processing and Maize products etc. in the medium and large scale sectors will be encouraged. During the current year, eight projects sponsored by PSIDC are likely to go in to production and in the year 1979-80, eight more projects are targetted to go into production which includes Punjab Khand Udyog Ltd., Punjab Maize Products Ltd., Electronic Wrist Watches, Portable Electric Tools etc. The overall target for disbursement of loans during 1978-79 was fixed at Rs. 525.00 lakhs. The target for 1979-80 will be Rs. 650.00 lakhs. Besides, five District Industries Centres are proposed to be established as seven such centres are to be started during the current year. In addition 15000 village industry units and 1715 small scale industry units are likely to be set up in I.R.D.P. areas.

Roads and Bridges

1.27. In pursuance of the decision to provide first links to all the 12188 villages by Baisakhi 1979., the emphasis during the last few years has been on the construction of village link roads. During 1974-78, the expenditure incurred on this was as

much as Rs. 29.26 crores out of total expenditure of Rs. 39.63 crores on roads and bridgzs. In the Annual Plan 1978-79, Rs. 15.50 crores out of a total of Rs. 20.00 crores have been provided for this scheme. As on April, 1978, 1785 villages were left unlinked with roads which required construction of 2640 Kms. of link roads. It was proposed to provide links to all villages by the end of the current year. Due to certain unforeseen circumstances like shortage of bricks, non-availability of required width of land and situation of certain villages in different areas viz., Kandi, Bet and Border areas, proposed targets are not likely to be achieved. It is anticipated that 2000 kms. of road length will be added to the village roads network, metalled links to 1400 villages. The number of villages left unlinked at the beginning of 1979-80 would be 385 which would require construction of 640 Kms. In the Annual Plan 1979-80 Rs 5.00 crores out of a total of Rs. 15.00 crores have been proposed for these schemes. It is proposed to construct the balance of 640 Kms. of road length required to provide links to the remaining 385 villages. The concentration on village roads has brought the villages into intimate contact with the mandis and the rest of the urban areas in the State. But this has been achieved at the cost of other roads. In the meantime, in the absence of any further extension of the railway system, there has been sharp increase in the goods and passenger traffic, on state Highways, and District and other Roads. In the 6th Plan, therefore, high priority has been given in the next four years to improvement and widening of these roads, providing additional of crust and missing links. In the Annual Plan 1979-80, an outlay of Rs. 350.00 lakhs has been proposed. Similarly, a number of bridges on important Highways are needed to provide all weather transport facilities. In the Annual Plan 1979-80 a sum of Rs. 200.00 lakhs has been proposed for the construction of bridges. Under this scheme, a bridge on river Beas near Goindwal is to be completed during 1979-80.

1.28. The growth of internal traffic in a number of towns calls for bye-passes to enable smooth and un interrupted flow of thorough traffic. There is a sharp step up in the provision of bridges, bye-passes and road building machinery.

1.29. In this sector there is also a large scope for supplementing plan funds by the Central aid available under the Food for Works Programme. Under this programme, 18530 metric tonnes of wheat

has been allocated to the Department of Public Works during the current year. Out of this allocation, the department so far utilized 3000 metric tonnes of wheat costing Rs. 3.15 lakhs resulting in generation of 53850 man days of employment.

Road Transport

1.30. The goods transport is almost entirely in the private sector. The passenger transport is shared between the two public undertakings and the private sector, the desired ratio being 60 :40. In the Plan, provision has been made only for the two public sector undertakings. Their urgent requirements for the the next four years include construction of additional depots so as to work towards the norm of 100 buses to a depot ; replacement of old buses addition to the fleet, and provision of workshop facilities. In the Annual Plan 1979-80, a sum of Rs. 600.00 lakhs has been proposed as against 495.00 lakhs during the current year. This provision if judiciously and effectively spent, will go a longway towards meeting their urgent requirements. The Punjab Roadways accounts for the provision of Rs. 495.00 lakhs. Being a departmental undetaking, it has no access to institutional finance. Its requirements have been met entirely from the State Plan. The PRTC will have, besides the plan provision, the construction of Railways and the funds expected to be available from banks.

Tourism

1.31. In order to remove the difficulties inherent in the departmental operation of the tourist facilities and to avail of institutional finance for tourist development, it has been decided to set up a Tourism Development Corporation. To the extent feasible and desirable, the existing tourist facilities will be incorporated. A sum of Rs. 45.00 lakhs has been proposed as share capital for 1979-80. However, the implementation of the schemes proposed for the Sixth Plan could be entrusted to the Corporation which is likely to start functioning by the year end. It is hoped that by mobilising institutional finance and by carefully husbanding its own internal resources, it will be possible for the Corporation to undertake its projected programme of development.

Urban Development

1.32. A provision of Rs. 12 crores has been made for the sub-head 'Urban Development, during 1979-80. It is expected that this provision

will be supplemented with institutional funds, including municipal committees/corporations and other resources to provide substantial urban facilities/civic amenities. Major programme under this sub-head of development is Rs. 66.7 crores IDA (World Bank) urban Water Supply and Sewerage Project to be implemented in 8 major cities. A tentative provision of Rs. 7 crores has been made for this purpose during 1979-80 which will be supplemented by direct loans from LIC and contribution of beneficiary municipal committees/corporations. Another important scheme to be implemented under this sub-head of development is Urban Estates for which a provision of Rs 4 crores have been made for the year 1979-80. Under this scheme 7000 acres of land was acquired upto 31st March, 1978 and an additional area of 200 acres is likely to be acquired by 31st March, 1980 Another provision of Rs. 1.00 crore is for other minor schemes of this sub-head of development like Urban Water Spply and Sewerage Board (Rs. 50.00 lakhs), assistance to Improvement Trusts (Rs 15.00 lakhs) allotment of plots to urban Harijans (Rs. 15.00 lakhs) for town and regional planning (Rs 18.00 lakhs)and environmental Improvement of slums (Rs. 2.00 lakhs).

Housing

1.33. A provision of Rs. 10 crores has been made for the sub-head Housing during 1979-80, out of which a provision of Rs. 390 lakhs is proposed for houses for Government employees at various places including focal points. This will be supplemented with loan assistance from HUDCO. With this outlay it will be possible to construct 2204 houses. In addition Rs 160 lakhs have been provided for police houses and this provision will also be supplemented with loan from HUDCO and also central assistance to be received from Government of India. Another provision of Rs. 150 lakhs have been made for advancing loans to Government employees for constructing their houses themselves. For constructing houses at house sites allotted to landless workers a provision of Rs. 70 lakhs has been made and a Matching assistance is likely to be received from HUDCO by the Housing Board. With this provision 5000 houses are likely to be constructed. A provision of Rs. 40 lakhs has been made for 1979-80 to construct 360 houses. Other schemes to be implemented under this sub-head of development are loans for LIG Houses (Rs 60.00 lakhs), contribution to Housing Board (Rs. 70.00 lakhs), loans for building houses in urban estates (Rs. 60.00 lakhs).

General Education

1.34. During the Fifth Five Year Plan, the actual expenditure incurred in four years (1974-78) on various schemes works out to be Rs. 3055.72 lakhs. While in the year 1978-79 the approved outlay is Rs. 1541.98 lakhs, during 1979-80 an outlay of Rs. 595.00 lakhs has been proposed. This outlay should be considered along with the Committed expenditure of Rs. 12.75 crores, to have a complete picture of the provision for education. The Department-wise details are as below :—

	(Rs. in lakhs)
1. Primary Education (Directorate of Primary education) ..	56.00
2. School Education (D.P.I. Schools)	301.00
3. College and University Education ..	170.00
4. Languages ..	9.00
5. Sports ..	35.00
6. Youth Services (including N.S.S. & Planning Forums) ..	13.00
7. Archeology and Museums ..	7.50
8. Promotion of Arts and Culture ..	3.00
9. Archives ..	0.50
Total ..	595.00

1.35. The main objectives set out for 1979-80 is maintenance and the expansion of educational facilities in Elementary & Secondary Education, streamlining of the present education system by Job Oriented Courses with a view to providing full employment opportunities to the coming generation. The main thrust during the year, would be in the following sectors :—

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

Public Health and Sanitation :

1.36. The most important objective of the Plan is to correct the imbalance in the structure of health care services. In the past the outlays have concentrated heavily on providing health facilities in urban areas. In the Annual Plan 1979-80, there is a shift to providing health facilities in rural areas. The major thrust of the Public Health Programme is towards creating comprehensive and well structured rural health services in the State.

Medical Education and Research

1.37. The out-turn of 5 medical colleges is sufficient to meet the requirement of public services and the private sector. This programme envisages improvement and expansion of teaching and other physical facilities in the medical colleges and teaching hospitals. Shri Guru Gobind Singh Medical College, Faridkot was taken over by the State in 1977-78. Outlay has been proposed for providing staff and the construction of the building of the medical college and hospital. It is also proposed to increase the out-turn of Para-medical staff which will fall short of the requirement due to anticipated expansion of health services in the State.

1.38. An outlay of Rs. 225 lakhs has been proposed for 1979-80 against the anticipated expenditure of Rs. 181 lakhs during the current year.

Public Health

1.39. An outlay of Rs. 424 lakhs is proposed for 1979-80 against the anticipated expenditure of Rs. 438.32 lakhs during the current year.

1.40. The ultimate target is to provide one dispensary per 5000 population. In the current year 200 dispensaries are targetted to be opened. During 1979-80, 250 new dispensaries shall be opened raising the total number to 1166. With this, there will be one such dispensary per 10,000 population.

1.41. In 1979-80, 30 new 25-bedded hospitals shall be established raising the total number to 90. The final target is to provide one hospital in each block.

Rural Water Supply

1.42. 3000 villages have been identified as scarcity villages in the State according to the criteria laid down by Government of India. The

total cost of providing piped water supply to all these villages is Rs. 142.00 crores. At the end of the current year an expenditure of Rs. 35.78 crores would have been incurred on this project. An outlay of Rs. 5 crores is proposed for 1979-80. The total number of villages covered under this scheme at the end of 1979-80 shall be 1954.

Development of Scheduled Castes and Backward Classes

1.43. During 1974-78 Rs. 1284.60 lakhs were spent for the development of Scheduled Castes and Backward Classes and an outlay of Rs. 229.50 lakhs is expected to be spent during the year 1978-79. An outlay of Rs. 275.00 lakhs is proposed for the year 1979-80 mainly to continue to existing schemes. During 1979-80 a new scheme 'Interest free loans/subsidy to scheduled castes going abroad for employment' has been included, under which Rs. 5000 will be given to a scheduled caste who wants to go abroad for seeking employment. An outlay of Rs. 50.40 lakhs is proposed under "Education Programme" under which pre-matric coaching to 31000 students of 9th to 11th classes and free books and stationery to one lakh students of 6th to 8th classes will be given. Grants will also be given to the law, medical and engineering institutions for the purchase of books for further distribution to the scheduled castes students. The training in stenography will be also be imparted to the members of scheduled castes. Under the programme "Economic uplift" an outlay of Rs. 58.60 lakhs is proposed against the anticipated expenditure of Rs. 46.10 lakhs in 1978-79. Under this programme subsidy/loan assistance is provided to the scheduled castes. Rs. 18.60 lakhs are proposed under the scheme "Subsidy for the purchase of agricultural land, houses and wells on land and also to defray the stamp-duty charges. Rs. 30.00 lakhs are proposed as the share capital contribution to the Punjab Backward Classes Land Development and Finance Corporation. A sum of Rs. 8.00 lakhs is proposed for the I.T.I.s, being run only for the scheduled castes.

1.44. Under 'Health, housing and other programmes' for scheduled castes and Backward classes an outlay of Rs. 44 lakhs is proposed to construct 440 dharamshalas. An outlay of Rs. 76 lakhs is proposed under the Scheme 'Environmental improvement of harijan basties including drinking water wells' under which environmental improvement will be done in 300 villages by providing the

facilities of pacca streets, drains and drinking water. An outlay of Rs. 30 lakhs is proposed for providing subsidy at the rate of Rs. 2000 per beneficiary under the scheme "Construction of houses for sweepers/scavengers/flayers and Tanners" to construct 1500 houses. Under another similar scheme 'Construction of houses for vimukat jaties' an outlay of Rs. 15.00 lakhs is proposed to provide subsidy at the rate of Rs. 2000 per beneficiary of vimukat jaties for the construction of 750 houses. Rs. 1.00 lakh is also proposed under the scheme 'Legal Aid' to the scheduled castes in the form of lawyers fees to enable them to protect themselves against the forcible eviction from land and to pursue other allied cases.

Social Welfare

1.45. An amount of Rs. 211.84 lakhs was spent during 1974-79 under various programmes for the welfare of children, women the destitutes, the old and the infirm, the mentally retarded, the orthopaedically handicapped, the blind, the deaf and dumb and other under-privileged and mal-adjusted groups. During 1978-79 an outlay of Rs. 63.90 lakhs is expected to be spent under these programmes. An outlay of Rs. 80 lakhs is proposed to cover more such beneficiaries during 1979-80.

1.46. Under the scheme "Assistance to dependent children" an outlay of Rs. 10.00 lakhs is proposed to cover 2000 new beneficiaries and Rs. 50 per month will be given to each. Under the scheme 'Assistance to widows and destitute women', an outlay of Rs. 12.66 lakhs is proposed to cover 2500 new beneficiaries. Each beneficiary will be provided Rs. 50 per month. 30 new widows and destitute women will be added in the 'Home for widow and destitute women' for which Rs. 0.30 lakhs is proposed. Rs. 8.00 lakhs are also earmarked to construct the building of the certified school at Hoshiarpur. Under the welfare programme of handicapped Rs. 0.54 lakh is earmarked under which artificial limbs will be provided to 90 orthopaedically handicapped and also to provide stipends to students under this category. Rs. 1.76 lakhs is proposed for providing grant-in-aid to P.G.I., Chandigarh which is launching the programme for rehabilitation of the blind. Rs. 1.50 lakhs is also earmarked to provide grant-in-aid to voluntary organisations undertaking such programmes. An outlay of Rs. 44 lakhs is also set aside as contribution to the share capital of the Punjab State Women and Child Welfare Corporation, set up with an authorised capital of Rs. 5.00 crores.

ANNEXURE—I
ANNUAL PLAN 1979-80 : Proposed outlays by Development Heads

(Rs. in lakhs)

Sub-Head of Development	1978-79 Outlay		Committed expenditure at the level of 1978-79	1979-83 outlay	1979-80 proposed outlay
	Original	Revised			
1	2	3	4	5	6
I. AGRICULTURE AND ALLIED SECTORS					
Agriculture	1956.86	1807.67	99.16	9130.57	1800.00
Minor Irrigation	534.00	480.60	5.20	2560.80	520.00
Soil Conservation	375	337.50	75.00	1936.00	300.00
Food	..	..	..	19.36	5.00
Animal Husbandry	312.06	293.35*	63.68	1393.52	260.00
Dairying and Milk Supply	107.12	96.41	10.05	832.37	100.00
Fisheries	33.00	29.70	5.40	273.68	30.00
Forests	155.00	155.50	5.03	1364.00	175.00
Community Development and Panchayats	190.00	171.00	47.33	837.76	150.00
II. CO-OPERATION	450.00	405.00	27.00	2307.03	475.00
III. IRRIGATION AND POWER					
Irrigation	2707.00	2436.30	N.A.	22599.28	3450.00
Anti-water logging, drainage and flood control	950.00	1255.00	N.A.	3960.00	750.00
Power	9130.00	8217.00	N.A.	47593.04	9800.00
IV. INDUSTRY AND MINERALS					
Large and Medium Industries	844.00			3808.96	} 1250.00
Small Scale Industries	446.32	1165.79	31.23	1263.61	
Mines and Minerals	5.00			9.00	
V. TRANSPORT AND COMMUNICATIONS					
Civil Aviation	8.00	7.20	5.50	85.05	9.00
Roads and Bridges	2000.00	1850.00	N.A.	6600.00	1500.00
Road Transport	495.00	445.50	N.A.	3599.20	600.00
Tourism	50.00	45.00	13.00	235.84	45.00
VI. SOCIAL AND COMMUNITY SERVICES					
General Education	1541.98	1417.78	1275.48	4400.00	595.00
Technical Education	35.30	31.77	9.51	352.00	42.00
Public Health and Sanitation	702.30	644.57*	506.54	5144.35	680.00
Rural Water Supply	450.00	405.00	N.A.	3520.00	500.00
Housing	800.00	760.00	N.A.	4962.32	1000.00
Urban Development	1020.00	648.00	9.00	7357.60	1200.00
Information and Publicity	45.00	40.50	N.A.	220.00	40.00
Labour and Labour Welfare	69.00	62.10	37.51	351.11	60.00
Welfare of Scheduled Castes and Backward Classes	255.00	229.50	..	2114.53	275.00
Social Welfare	71.00	63.90	188.07	424.78	80.00
Nutrition	20.00	18.00	N.A.	184.80	16.00

*Distribution of Advance Plan Assistance on Tentative Basis.

(Rs. in lakhs)

Sub-Head of Development	1978-79 outlay		Committed expenditure at the level of 1978-79	1979-83 Outlay	1979-80 proposed outlay
	Original	Revised			
1	2	3	4	5	6
VII ECONOMIC SERVICES					
Statistics	.. 20.00	18.00	20.00	87.53	17.00
Planning Machinery	.. ..	..	..	88.00	17.00
VIII GENERAL SERVICES					
Stationery and Printing	.. 20.12	18.11	3.35	60.77	13.00
Film Corporation	.. ..	..	..	30.80	..
Punjab State Civil Supplies Corporation	.. 10.00	9.00	N.A.	137.28	10.00
Public Works	.. 125.00	112.50	N.A.	1946.56	282.00
Administrative Training Institute	.. 5.00	4.50	5.00	58.96	11.00
Empoyment Promotion Programme	.. 61.94	55.75	N.A.	..	..
Grand Total	.. 26000.00	23737.50*	2442.04**	141850.46	26057.00

*Includes Advance Plan Assistance of Rs. 6.75 crores.

**Actual Committed expenditure is Rs. 39.00 crores (worked out on the basis of the figure approved by the Seventh Finance Commission)

ANNEXURE—II

Physical Targets for 1979-80

Item	Unit	1977-78 Actuals	1978-79		1979-80 Targets	
			Targets	Likely Achievements		
1	2	3	4	5	6	
I. AGRICULTURE						
1. Agricultural Production						
(at the end of the year)						
(i) Rice	.. 000 tonnes	2494	2300	2750	2700	
(ii) Wheat	.. " "	6639	6300	6800	6800	
(iii) Maize	.. " "	681	650	650	675	
(iv) Grams	.. " "	318	450	335	330	
(v) Total food grains	.. " "	10346	9800	10700	10700	
(vi) Cotton (170 Kg. each)	.. 000 bales	1224	1300	1300	1350	
(vii) Sugarcane	.. 000 tonnes	652	675	675	700	
(viii) Oil seeds	.. " "	320	300	300	310	
2. Distribution of HYV Seeds						
(i) Wheat	.. Qtls.	28000	50000	34000	50000	
(ii) Rice	.. "	12000	20000	19500	26000	
(iii) Maize	.. "	2735	5000	1511	5000	
(iv) Bajra	.. "	290	1000	101	1000	
3. Fertilizer Consumption						
(i) Nitrogeous	.. 000 tonnes	331	360	423	460	
(ii) Phosphetic	.. " "	105	110	140	150	
(iii) Potassic	.. " "	29	30	40	40	
4. Agricultural Credit (during the year)						
(i) Short-term	.. Rs. crore	78.00	110.00	110.00	140.00	
(ii) Medium-term	.. " "	2.50	2.00	3.00	3.50	
(iii) Long-term	.. " "	16.57	35.60	33.60	44.00	
5. Land Reclamation						
(i) Area Reclaimed	.. 000 hect.	9	80	18	80	
II. SOIL CONSERVATION AND WATER MANAGEMENT (during the year)						
(i) Land Levelling	.. 000 hect.	3.2	9.5	7.0	10.0	
(ii) Bench terracing	.. " "	1.3	3.0	2.0	2.0	
(iii) Contour Bunding and Gully Reclamation	.. " "	0.3	0.3	..	1.0	
(iv) Laying of under pipe lines etc.	.. " "	68.0	104.7	105.0	110.0	
Total			72.8	117.5	114.0	123.0

Item	Unit	1977-78 Actuals	1978-79		1979-80 Targets
			Targets	Likely Achievements	
1	2	3	4	5	6
III. ANIMAL HUSBANDRY					
(i) Production of animal products (during the year)					
(a) Milk/Milk products	000 tonnes	2729	3050	2911	3059
(b) Meat	Million (Kg.)	N.A.	8.00	8.00	N.A.
(c) Wool	Lakh (Kgs.)	11.12	14.00	11.25	12.20
(d) Eggs	Millions	419	495	444	474
(ii) Veterinary Dispensaries (at the end of the year)	No.	362	362	362	362
(iii) Veterinary Hospitals-cum-A.I. Centres (under I.R.D.P.)	No.	90	117	200	317
(iv) Artificial Insemination (during the year)	In lakhs	2.64	5.00	3.00	4.00
IV. DAIRYING AND MILK SUPPLY					
(i) Milk Chilling-cum demonstration Centres (at the end of the year)					
(a) Continuing	No.	3	3	3	7
(b) New	"	5	4	4	..
(c) Completion	"	1	5	5	3
(ii) Mini Cattle feed plants (at the end of the year)	"	..	3	..	3
V. FISHERIES					
(i) Fish production (during the year)	000 tonnes	2.40	2.50	2.50	2.60
VI. FORESTS					
(i) Area under economic plantations for industrial and commercial uses (during the year)	000 hect.	6.71	2.40	6.76	6.89
(ii) Area under fuel wood plantations (during the year)	"	8.40	4.40	4.40	4.40
VII. IRRIGATION :					
(i) Area under Major and Medium Irrigation (at the end of the year)	000 hect.				
(a) Potential	"	349.5	403	375.5	422.00
(b) Utilisation	"	344.5	..	371.5	..
(ii) Lining of Water Courses (during the year)	Kms.	2384	6500	5000	4300
(iii) Lining of distributories (during the year)	Kms.	292.69	550	370	730
VIII. POWER					
(i) Installed Capacity (at the end of the year)	M.W.	1245	1550.08	1544	1556
(ii) Electricity generated during the year (including purchases from outside)	M.U.	3339	5104	4749	5433
(iii) Electricity sold during the year (within the State)	M.U.	2621	3306	3752	4292
(iv) Tubewells/Pumping sets energised (during the year)	No.	28772	37500	32000	30000
(v) General Connections (during the year)	"	111708	150000	130000	125000
(vi) Industrial connections (during the year)	"	4461	3500	3500	3000

Item	Unit	1977-78 Actuals	1978-79		1979-80 Targets
			Targets	Likely Achievements	
1	2	3	4	5	6
IX. TRANSPORT					
1. Roads (at the end of the year)					
(i) State Highways surfaced	.. K.M.	1,900	1,900**	1,900	1,900
(ii) Major District Roads surfaced	.. K.M.	2,100	2,100	2,100	2,100
(iii) Other District Roads surfaced	.. K.M.	2,346	2,369**	2,369	2,394
(iv) Village Roads surfaced	.. K.M.	21,246	23,886**	23,246	23,886
Total Roads surfaced	.. K.M.	27,592	30,255	29,615	30,280*
2. Villages not connected by roads (at the end of the year)	.. No.	1,785	..	385	..
3. Vehicles owned by State undertakings					
(a) P.R.T.C.					
(i) Fleet Strength (at the end of the year)	.. No.	803	880*	880	961
(ii) Route Kilometrage operated daily	.. No.	1,67,024	1,83,040*	1,83,040	1,99,888
(b) Punjab Roadways :					
(i) Fleet Strength (at the end of the year)	.. No.	2,171	2,271**	2,271	2,321
(ii) Route Kilometrage operated daily	.. No.	4,51,568	4,72,368**	4,72,368	4,82,768
X. GENERAL EDUCATION					
(i) Enrolment at the end of the year					
(a) Age-group 6—11	.. 000	2,271	2,344	2,150	2,120
(b) Age-group 11—14	.. "	636	616	658	718
(c) Age-group 14—17	.. "	258	316	283	304
(ii) No. of Institutions at the end of the year					
(a) Primary Schools	.. No.	10,866***	10,866	14,059	14,069
(b) Middle Schools	.. "	1,649	1,449	1,449	1,399
(c) High/Higher Secondary Schools	.. "	1,367	1,552	1,567	1,617
(d) Quality High Schools	.. "	..	..	..	10
XI. PUBLIC HEALTH AND SANITATION					
(i) Medical Education					
(a) Annual admission	.. No.	400	460	400	400
(b) Annual out-turn	.. "	390	390	390	390

*Excluding 964 Kilometres of National Highways.

**Revised Targets.

***After setting up of Directorate of Primary Education, 3359 schools were detached from the Middle/High/Higher Secondary Schools and were made independent units.

Item	Unit	1977-78 Actuals	1978-79		1979-80 Targets
			Targets	Likely Achievements	
1	2	3	4	5	6
(ii) Rural Health					
(a) Block level Rural Hospitals ..	No.	16	7	66	96
(b) Subsidiary Health Centres (at the end of the year) ..	"	716	916	916	1,166
(c) Number of P.H. Cs. (at the end of the year) ..	"	128	128	129	129
(d) Sub-Centres (at the end of the year) ..	"	1,034	1,034	1,034	1,034
(iii) Rural Water Supply					
(a) Number of villages covered under R.W.S Programme (at the end of the year) ..	"	1,674	1,872	1,804	1,954
XII. HOUSING					
1. Houses for Government Servants (during the year) ..	No.	100	100	100	3,601 (flats)
2. Subsidised Industrial Housing ..	No.	78	..	..	360
3. Low Income group houses ..	No.	1,400	1,700	1,700	1,456
4. Houses for Harijans ..	No.	3,946 (houses under construction)	5,000	5,000	3,500
XIII. URBAN DEVELOPMENT					
1. Area Acquired ..	Acres	518	1,000	650	..
2. Area Developed ..	Acres	400	250	400	200
3. Plots carved (during the year) ..	No.	5,100	4,882	3,700	3,500
4. Plots sold (during the year) ..	No.	350	4,882	6,000	7,500
5. Proceeds realised (during the year) ..	(Rs in lakhs)	243	13,22.77	408	580

CHAPTER II

Financial - Resources

Revised Financial Resources for 1978-79

The Annual Plan size of Rs. 260.00 crores for the year 1978-79 was determined on the assumption that the State's resources towards financing the plan were Rs. 217.00 crores (the rest being Central assistance etc.). The review of State's Plan resources has revealed that there has been some erosion of these resources on account of shortfall in receipts from Urban Estates, contribution of Local Bodies etc. Excess payment of State Bank of India's credit to the extent of Rs. 17 crores and expenditure on account of floods have also eroded the financial resources of the State which were otherwise to be used for financing of the Plan. The latest estimates for State resources for current year are Rs. 209.95 crores. Keeping in view this latest resources position, the plan outlay for 1978-79 has been reduced from Rs. 260.00 crores to Rs 237.37 crores which leaves a gap of Rs. 27.42 crores. This gap will be covered through further economy, collection of arrears of taxes and shortfall if any, in Plan expenditure.

Seventh Finance Commission's Recommendations

2.2 The report of the Seventh Finance Commission has been received. The following figures show a comparison of the devolution of taxes etc. between the Sixth and the Seventh Finance Commissions and of Punjab as percentage to the All India figures.

	Sixth Finance Commis- sion	Seventh Finance Com- mission
	(Rs. in crores)	
All India		
(1) Devolution of taxes etc.	7099.24	19669.85
(2) Grants	2509.61	1173.12
(3) Debt Relief	1969.62	2155.80
Total	11578.47	22998.77
Punjab		
(1) Devolution of Taxes etc.	169.97	419.53
(2) Grants	—	—
(3) Debt Relief	15.18	60.57
Total	185.15	480.10

Punjab as percentage to all India 1.6% 2.1%

Punjab's share in the Divisible Portion of Taxes

	Sixth Finance Commis- sion	Seventh Finance Commis- sion
	(Rs. in crores)	
(1) Income Tax	2.75	2.714
(2) Excise P. 86	1.87	1.226
(3) Additional Excise Duty	2.68	6.220 (Sugar) 4.270 (Textiles) 4.268 (Tobacco)
(4) Grant in lieu of tax on passenger fares	5.06	3.81

Financial Resources for 1979-80

2.3 The financial resources for the Annual Plan 1979-80 have been estimated at Rs 260.00 crores on the assumption that gap of Rs 27.42 crores in plan resources and plan expenditure during 1978-79 will be covered through further buoyancy in tax receipts, economy in non-plan expenditure and by further cut in plan expenditure to the extent necessary. Thus taking into consideration that there will be no opening gap for the year 1979-80, availability of resources and development needs of the State, the State Government have fixed the size of the Annual Plan 1979-80, at Rs 260.57 crores. Resources position in brief is as under :—

	(Rs. in crores)
Resources already assumed including Rs. 20 crores by way of additional resource mobilisation by the State	161.00
Central assistance	99.00
Total	260.00

2.4 For the Annual Plan 1979-80, the resources base have been tentatively estimated on the following basis :—

- (i) The Development outlay on continuing Plan schemes were reclassified as 'Plan' and 'non-Plan' in accordance with the Planning Commission's guidelines. An amount of Rs. 39 crores is estimated as the committed expenditure to be transferred from the current 1978-79 Plan to the Non-Plan from the next year.
- (ii) On the basis of the recommendations of the Seventh Finance Commission regarding the statutory transfers and other assumed transfers from the Centre to the States, the estimates of Central Assistance will be as given below :—

	(Rs. in crores)
Central Assistance	
(a) Normal ..	50.00
(b) for I.D.A. Projects ..	8.00
(c) from additional Market Borrowing ..	16.00
(d) from diversion of resources due to reduction in number of centrally sponsored schemes ..	10.00
(e) Special assistance to cover the gap in plan size ..	15.00
	99.00

(iii) The State's resources at the 1978-79 levels of taxation, water and power rates, fares etc. have been projected for 1979-80 and the surplus available for the Plan outlay after providing fully for non-Plan expenditure (including non-plan development outlay on maintenance of assets and services), have been calculated.

(iv) The flow of institutional resources to schemes included in the State Plan (from REC, LIC etc.) has been assumed at a level of 10 percent above the inflow in 1978-79.

(v) A target for additional resources mobilisation by the State in 1979-80 has been assumed at the level of Rs. 20 crores.

(vi) In the annual plan of the Central Ministries a substantial part of the outlay on agriculture and allied activities the entire outlay on area development, family welfare and control of communicable diseases and the greater part of outlays on such Key sectors of the Plan as adult education, rural health care and development of village and small scale industries are included either as Centrally Sponsored Schemes or as Central Sector Schemes. These schemes are being reviewed by a Working Group of the National Development Council, where the allocation of future outlays in these sectors between the Central Plan and the State Plans will be decided. These schemes are being executed by the State agencies, and for some of the schemes matching contributions are provided in the State Plan budget. For 1979-80 Rs. 10 crores has been assumed to be the diversion of resources from the Centre to the State due to reduction in the number of Centrally Sponsored Schemes. All the existing schemes in the State were reviewed with the respective Departments and it was decided that the Centrally Sponsored and Central sector schemes should be discontinued except for 24 schemes which fall in either of the two categories :—

(1) Schemes whose efficiency is likely to be seriously undermined if they are implemented by States in isolation from others.

(2) Schemes in which the assistance flows from the Centre or Central undertakings as equity capital to State undertakings.

(vii) It is expected that the year 1979-80 will open without deficit as the Centre has given credit facility to meet the current year's deficit. The resources for 1979-80, details given in annexure I have been estimated at Rs. 260.00 crores on the above-mentioned assumptions.

ANNEXURE I

ESTIMATES OF STATE RESOURCES 1979-80

(Rs in crores)

	1977-78	1978-79	1979-80	
	Latest Estimates as worked out in discussions with the Planning Commission in January, 1978	Estimates as worked out in discussions with the Planning Commission in January, 1978	Latest Estimates	Estimates
	2	3	4	5
I. PLAN OUTLAY	212.00	260.00	237.37	260.57
II. State's budgetary resources other than negotiated loans and State enterprises market borrowings				
1. Balance from current revenue	57.99	65.68	66.90	65.50
2. Contribution of Public Enterprises at 1973-74 Fare and Tariffs				
(a) State Electricity Board	(-)5.00	(-)10.40	(-)22.30	7.30
(b) Road Transport Corporation	(-)4.07	(-)1.75	(-)6.10	(-)0.70
3. Loan from market by State Government (Net)	5.50	6.70	6.70	6.70
4. Share of Small Savings	10.00	10.00	10.00	10.00
5. State Provident Funds	6.20	6.50	4.50	6.80
6. Miscellaneous Capital Receipts	(-)10.96	14.69	(-)8.40	(-)6.00
		(Includes Rs. 1.50 crores on account of matching contribution by the Central Govt. for debenture support).		
7. Contribution of local bodies	12.00	20.00	15.00	20.00
Total-II	71.66	111.42	66.30	109.60
III. ADDITIONAL RESOURCE MOBILISATION—				
(a) 1974-75 measures	36.50	39.96	40.00	—
(b) 1975-76 measures	20.92	27.13	27.10	—
(c) 1976-77 measures	6.56	7.21	7.20	—
(d) 1977-78 measures	(-)3.52	(-)0.70	(-)8.70	—
(e) 1978-79 measures	—	12.00	6.80	7.80
(f) measures to be adopted in 1979-80	—	—	—	20.00
Total-III	60.46	85.60	72.40	27.80*
IV. NEGOTIATED LOANS AND STATES ENTERPRISES MARKET BORROWINGS—				
1. State Government—				
A. Negotiated loans (gross)				
(a) Loans from LIC for housing	0.80	0.90	0.90	1.00
(b) Loans from RBI	1.50	1.70	1.70	1.90

*Figure pertains to the Sixth Plan period alone

	1977-78	1978-79	1979-80	
	Latest estimates as worked out in discussions with the Planning Commission in January, 1978	Estimates as worked out in discussions with the Planning Commission in January, 1978	Latest Estimates	Estimates
1	2	3	4	5
2. State Enterprises				
(a) Loans from LIC	5.10	5.60	5.60	6.20
(b) Loans from REC	3.90	4.25	4.40	5.00
3. Others				
(a) Loans from LIC				
(i) Water Supply	}	1.00	1.00	1.00
(ii) Other purposes				
B. Market Borrowings (net)				
(1) State Enterprises (SEB)	6.60	6.52	7.70	8.50
(2) Others	—	—	—	—
Total-IV	17.90	19.97	21.30	23.60
V. STATE'S TOTAL RESOURCES (II + III + IV)	150.02	216.99	160.00	161.00
VI. CENTRAL ASSISTANCE				
1. Normal	26.15	26.15	32.60	50.00
2. For IDA Projects	0.55	1.00	—	8.00
3. Irrigation and Power Projects	10.00	—	—	—
4. Advance Central Assistance	31.50	—	—	—
5. Additional Central Assistance on account of updation of G adgil formula	—	5.46	—	—
6. Stepped up Central Assistance—				
(a) Additional Central Assistance	—	—	11.00	—
7. Plan assistance for flood protection work	—	—	6.75	—
8. Additional Market Borrowing	—	—	—	16.00
9. Diversion of resources due to reduction in number of centrally sponsored schemes	—	—	—	10.00
10. Special Assistance to cover the gap in plan size	—	—	—	15.00
Total-VI	68.20	32.61	50.35	99.00
VII. AGGREGATE RESOURCES (V+VI)	218.22	249.60	210.35	260.00
VIII. GAP IN RESOURCES (VII-I)	(+)6.22	(-)10.40	(-)27.02	(-)0.57
IX. OPENING GAP	(-)50.11	(-)43.89	(-)68.40	—
X. LOANS FROM GOVERNMENT OF INDIA TO WIPE OUT THE OPENING DEFICIT	—	—	68.00	—
XI. EXPECTED ADDITIONAL CENTRAL ASSISTANCE FOR PARTIALLY MEETING THE ACCUMULATED DEFICIT	—	46.79	—	—
XII. CLOSING DEFICIT	(-)43.89	(-)7.50	(-)27.42*	(-)0.57 (say nil)

*The gap will be covered through further buoyancy in tax receipts, economy in non-plan expenditure and by further cut in plan expenditure to the extent necessary.

CHAPTER III

Agriculture and Rural Development (I)

Agriculture and allied activities form the most important sector of the State's 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. Punjab achieved a major break-through in agricultural production, particularly in the production of wheat and rice, as a result of which the State is the largest single contributor to the central wheat and rice pool.

3.2. With massive efforts of the Government and hard work of the farmers of the State, record agri-

cultural production, ever highest in the history of Punjab, was achieved in 1977-78. Further addition to production is expected during 1978-79. This was possible on account of various steps such as arrangements for the timely and adequate supply of essential inputs like seeds, fertilizers, plant protection measures; accelerated reclamation programme and financial support provided for the development of minor irrigation works by the State Government. The growth in the output of principal crops during the Fifth Plan Period and the projected targets for the Sixth plan and for the year, 1979-80 are given in table 3.1 :—

Table 3.1 : Output of Principal Crops

Crop	Unit	1973-74	1977-78	1978-79 (estimates)	1979-80 (targets)
1	2	3	4	5	6
1. wheat	.. 000' Tonnes	5181	6639	6800	6800
2. rice	1140	2494	2750	2700
3. maize	764	681	650	675
4. bajra	144	119	85	100
5. barley	94	68	50	50
6. other cereals	4	2	2	5
7. total cereals	7327	10003	10337	10330
8. gram	315	318	335	330
9. other pulses	37	25	28	40
10. total pulses	352	343	363	370
11. total foodgrains	7679	10346	10700	10700
12. ground-nuts	150	154	175	175
13. other oilseeds	145	71	125	135
14. total oilseeds	295	225	300	310
15. cotton	.. 000' bales*	1157	1224	1300	1350
16. sugar-cane	.. 000' tones**	582	652	675	700
17. potato	317	695	750	800

*of 170 Kg. each.

**in terms of gur.

3.3 The Annual Plan, 1979-80 contemplates some adjustments in the pattern of development of crop production. The present trend in the output of oil-seeds and pulses is to be reversed. The increase in rice and wheat production is expected to be decelerated. The output of cotton is expected to rise from the current year estimates of 1,300 thousand bales to 1,350 thousand bales in 1979-80 and oilseeds from 300 thousand tonnes to 310 thousand tonnes. The production of sugarcane is expected to increase from 675 thousand tonnes in 1978-79 to 700 thousand tonnes in 1979-80. The increase in potato production is expected to be about 7 per cent during 1979-80.

3.4 With the achievement of remarkable progress in respect of the production of cereals, efforts will have to be put in for increasing production of other important commodities like cotton, oilseeds cereals and horticultural crops. The main thrust in agriculture is towards intensification, diversification integrated rural development and post-harvest technology. To achieve these objectives, the main elements of the strategy for agricultural development in the State are as under :—

- (i) to increase productivity per unit area with the balanced, economic and efficient use of vital inputs and to increase cropping intensity ;
- (ii) to carry out a massive land reclamation programme so as to exploit the maximum available land potential ;
- (iii) to increase irrigation through installation of tubewells and brick-lining of watercourses/distributories ;
- (iv) to organise plant protection campaign both for the pests/diseases and weed control ;

- (v) to diversify farming so as to increase production of cotton, oilseeds, sugarcane, fruits and vegetables including potatoes ;
- (vi) to adopt post-harvest technology for proper storage processing and marketing of agricultural commodities ;
- (vii) to train farmers to educate them regarding advanced technology for improving their efficiency and skill by organisation of farmers training camps and setting-up of composite training centres ;
- (viii) to make effective arrangements for meeting the credit requirements of the farming community for undertaking various agricultural production programmes ; and
- (ix) to intensify efforts for soil and water conservation for the efficient and optimum utilisation of existing land and water resources.

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

AGRICULTURE

3.6 An outlay of Rs 1,800.00 lakhs is provided for the sub-head of development 'Agriculture' for the year, 1979-80 as against an anticipated expenditure of Rs 1,807.67 lakhs for the current year. The actual expenditure under this sub-head for the period, 1974-78, anticipated expenditure for 1978-79 and outlays for 1978-83 and 1979-80 are as under :—

Table 3.2 : Actual/anticipated expenditure and outlays.

Year	(Rs in lakhs)
1	2
1974-75	.. 680.45
1975-76	.. 785.22
1976-77	.. 1698.66
1977-78	.. 1508.75

Years	(Rs in lakhs)
1	2
1978-79 (Anticipated expenditure)	1,807.67
1978-83 (Outlay)	11,087.43
1979-80 (Outlay)	1 800.00

3.7 It may be added that effective Plan size for 1979-80 of this sub-head will be much more as out of the current anticipated expenditure of the current year. About Rs 1 crore has been taken on the non-plan side as committed expenditure and a programme relating to providing subsidy on non-nitrogenous fertilizers amounting to Rs 2 crores is proposed to be discontinued in the Annual

Plan for 1979-80. Thus, there will be a step up of about Rs 3 crores in the allocation of this sub-head for the next year as compared to the anticipated expenditure of the current year.

3.8 The major portion of the outlay of Rs 1800 lakhs for the Annual Plan 1979-80 has been earmarked for the following programmes :—

Table 3.3 : Major outlay

(Rs in lakhs)

Serial No.	Name of the Programme	Outlay for 1979-80
1	2	3
1	Panjab Agricultural University, Ludhiana	200.00
2	Land Reclamation	261.40
3	Multiplication and distribution of seeds	46.00
4	Manures and Fertilizers	63.40
5	Integrated Rural Development Programme	50.00
6	Plat Protection	447.00
7	Development of Mandis	110.00
8	Horticulture	90.00
9	Agricultural Credit	281.00

The major programmes/schemes are discussed below :—

Research, Extension and Training

3.9 The Plan includes a comprehensive programme of research, covering 71 schemes, to be undertaken by the Panjab Agricultural University (P.A.U.), Ludhiana. In addition, there are 26 schemes relating to agricultural education and extension and farmers training. The outlay on research, education and extension programmes of the University for the year 1979-80 has been set at Rs 200.00 lakhs as against the expenditure of Rs 398.63 lakhs during 1974-78 and anticipated expenditure of Rs. 141.50 lakhs during 1978-79.

Reclamation of Land

3.10 At the beginning of the Fifth Plan, about 698,000 hectares were affected with alkalinity, salinity ; 463,000 hectares marginally or moderately and 235,000 hectares seriously. Most of the area in the first category is under cultivation but on account of the affected patches, gives low yield. The reclamation of these lands was undertaken in the Fifth Plan but the progress was very slow as only about 20,030 hectares were reclaimed by 1977-78. The pace of the programme was stepped up in 1978-79 and the target for the year was set at 80,000 hectares. However due to limited supply of Gypsum, an area of 18,000 hectares is expected to be reclaimed during

1978-79. The programme has been given high priority in the Annual Plan 1979-80 and it is proposed to reclaim 80,000 hectares.

3.11 There are three main programmes. Under scheme A(P) 5.1 the Government leases in the affected area owned by village Panchayats for setting up demonstration plots for reclamation work. Three reclamation centres have been set up at Gurdaspur (280 hectares), Kapurthala (120 hectares) and Sangrur (40 hectares). After reclamation, these areas will be used for seed production. Under scheme A(P) 5.3, Gypsum the main ingredient for reclamation of soils, is supplied to the farmers at a highly subsidized rate. The rate of subsidy is 75 per cent for the small farmers and 50 per cent for

others. The procurement and supply of Gypsum is handled by Land Development and Reclamation Corporation. It has set up a chain of depots in the districts for the purpose. The Corporation has also set up a machinery unit which provides bulldozers at reasonable rates for levelling and shaping of land. Under scheme A(P) 5.4 a Land Reclamation cell would be set up to provide technical assistance for the implementation of the programme.

3.12 An outlay of Rs 261.40 lakhs has been provided for this programme for the year 1979-80 as against an anticipated expenditure of Rs 225.42 lakhs during the current financial year.

3.13 The physical achievement for the last few years and the targets for 1979-80 are given below :—

Table 3.4 : Area Reclaimed, Gypsum supplied and Subsidy advanced

Item	Unit	1974-75	1975-76	1976-77	1977-78	1978-79 (estimates)	1979-80 (target)
1	2	3	4	5	6	7	8
1. Area reclaimed	Hect.	1,403	1,886	3,740	13,030*	18,000	80,000
2. Gypsum supplied	Tonnes	6,346	7,147	17,379	63,000	150,000	400,000
3. Amount of subsidy utilized	(Rs. in lakhs)	4.98	11.55	41.36	118.00	175.00	645.00

*Provisional.

Multiplication and Distribution of Seeds

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

gramme for multiplication and distribution of seeds has to be expanded from year to year. This calls for an active role by the Government. The progress made hitherto and the targets for 1979-80 are indicated below :—

Table 3.5 : Supply of Improved Seeds

Seed	(In Tonnes)			
	1974-75	1977-78	1978-79 (estimates)	1979-80 (target)
1	2	3	4	5
1. wheat	1,500	2,800	3,400	5,000
2. paddy	370	1,200	1,950	2,600
3. hybrid maize	170	273	151	500
4. hybrid bajra	34	29	10	100
5. gram	—	120	220	300
6. pulses	—	4	21	30
7. groundnut	—	—	—	40
8. rapeseed and mustard	—	10	40	30
9. cotton	—	75	90	300
10. sugarcane	—	60,000	70,000	..
11. potato	—	1,350	2,500	2,000

3.15 For the intensification of seed production, the Panjab State Seed Corporation has been set up. It arranges for production of seed, through registered growers. The 'Seed Certification Authority, an autonomous organisation has the responsibility for certified seed. Provision has also been made for the expansion of the Field Testing Laboratory that has been set, on a sharing basis with the Government of India, at the Panjab Agricultural University (PAU).

3.16 The total allocation for this programme for 1979-80 is Rs 46.00 lakhs as against an anticipated expenditure of Rs 54.28 lakhs during 1978-79.

Manure and Fertilizers

3.17 Since the onset of the green revolution, fertilizer consumption has risen rapidly. By 1977-78, the total consumption in terms of plant nutrients (N P₂, O₅, K₂ O) had increased to 465,000 tonnes. This works out to 74 Kg. per hectare of cropped area which is about three times the national average of 25 Kg. There is, however, yet a large scope for further improvement in the consumption rate. Accordingly, the target for 1979-80 has been set as 650,000 tonnes against an anticipated consumption of 603,000 tonnes during the current year.

3.18 The growth of fertilizer consumption is given below :—

Table 3.6 : Fertilizer Consumption

(000' tonnes of nutrients)

Year	N	P ₂ O ₅	K ₂ O	Total
0	1	2	3	4
1960-61 ..	5	—	—	5
1965-66 ..	43	3	—	46
1968-69 ..	135	27	10	172
1973-74 ..	218	68	21	307
1977-78 ..	331	105	29	465
1978-79 (Anticipated achievement) ..	423	140	40	603
1979-80 (Target)	460	150	40	650

3.19 An essential pre-requisite of efficient fertilizer use is adequate facilities for soil testing. Facilities are already available at the district level. There is intense demand from the farmers for the expansion of these laboratories. It is now proposed to provide such facilities at the sub-division level by setting up 21 new laboratories in a phased manner raising the total to 43 by 1982-83. Eight new such laboratories are proposed during 1979-80 at a cost of Rs 12.00 lakhs and the target for the soil samples to be tested has been set at 190 lakhs. The object of another scheme 'Fertilizer, demonstration and training on cultivators' fields', under this programme is to educate the farmers through demonstration about the proper use of fertilizers according to soil tests. These demonstrations are carried out on cultivators' fields. The cost of N is borne by cultivators and that of PK and Zinc Sulphate and Weedicide is borne by the State Government. It is proposed to lay 800 demonstration plots of one acre each during 1979-80.

3.20 Another important scheme under this programme is A(P) 7.3 'Subsidy for the off-time storage of fertilizer for timely-availability' ; for which a sum of Rs 50.00 lakhs has been provided for 1979-80 for the first time. Fertilizer is applied at specific times. The demand is, therefore, concentrated over short periods. The farmer purchases fertilizer only at the time of application. He has neither funds nor the storage capacity to do stock piling on his own. Accordingly, in order to meet the peak-season demand the supplying organisation (the Markfed and Agro-Industries Corporation) have to build up stocks in the off-season which involves extra cost. Provision has been made in 1979-80 Plan for a subsidy to compensate the supply organisations for the extra burden.

3.21 The total allocation for this programme for the year 1979-80 has been set at Rs. 63.40 lakhs against an anticipated expenditure of Rs 212.89 lakhs during the current financial year.

High Yielding Varieties Programme

3.22 Under this Programme emphasis is laid on the the spread of High-Yielding Varieties of various crops which are responsive to larger doses of fertilizers and consequently result in increased per unit production. The High Yielding Varieties programme played an important role in raising the productivity of Agriculture in Punjab. The maximum

progress has been registered in wheat and rice. In the case of maize and bajra the progress has been slow as the hybrids could not replace the indigenous varieties because of the much greater risk involved to the farmers. Under the I. R. D. P. launched in 1977-78, the technical staff located at the focal point will provide technical guidance to the farmers at their door steps through personal contact with group of farming families at 10-15 days inter-

vals which is expected to lend further support to H. Y. V. programme.

3.23 An outlay of Rs. 50.00 lakhs has been provided for this programme for the year 1979-80 against an anticipated expenditure of Rs. 76.80 lakhs during 1978-79.

3.24 The progress of the H. Y. V. programme and the targets for 1979-80 are given below :—

Table 3.7 : Area under High Yielding Varieties

Crop	Area under HYV (000 hectares)			
	1973-74	1977-78	1978-79 (estimates)	1979-80 (targets)
0	1	2	3	4
1. wheat ..	1970	2452	2500	2500
2. paddy ..	433	768	750	800
3. maize ..	26	91	100	100
4. bajra ..	6	43	50	50
Total ..	3354	3354	3400	3450

Plant Protection

3.25 With the growing intensification of cultivation and use of heavier doses of inputs, the farmer has to take care that his crops are not damaged by insects, pests and diseases. This underlines the importance of plant protection. The Plan provides for a variety of plant protection measures including both soil/seed treatment before sowing and prophylactic and curative spraying of crops.

3.26 So far the insecticides/pesticides have been supplied by private trade. There are widespread complaints of malpractices by trade particularly with regard to sub-standard quality and high price. At the suggestion of Central Government, provision has been made for testing of pesticides so that trade is subject to quality control. The Government has also decided to enter the market to provide healthy competition to private trade and to regenerate confidence among the farmers. The materials are supplied to the farmers on "no profit, no loss" basis. The Plant protection equipment is supplied on rent. Under the scheme, "Ground Spraying of Crops", it is proposed to cover an area of 700,000 hectares during 1979-80 as against an anticipated achievement of 600,000 hectares during 1978-79. It is proposed to

organise campaigns, in accordance with carefully worked out schedules, by providing squads, pesticides and equipment. To this end, provision has been made in the Plan to strengthen the plant protection organisation. Provision has also been made for large scale campaigns to deal with spread of pests and diseases in epidemic forms.

3.27 When the cotton plants grow to certain size, ground spraying becomes impossible. In this case Government arrange aerial spray of cotton on campaign basis. Loaning facilities are offered to the farmers for this purpose in the form of Taccavi loans which are recovered alongwith land revenue. Provision has also been made for the construction of four helipads during 1979-80.

3.28 With the increasing cropping intensity, weeds have become a problem. It is envisaged to undertake measures for the control of weeds and loose smut with the use of chemicals. Under this scheme, it is aimed to subsidize the cost of herbicides. During 1977-78 an area of 14,000 hectares was covered and it is expected that 36,000 hectares will be covered during 1978-79 while the target for 1979-80 has been set at 40,000 hectares.

The progress of plant protection is given in the table below :—

Table 3.8 : Plant Protection

Item	Unit	1973-74	1977-78	1978-79 (estimates)	1979-80 (targets)
0	1	2	3	4	5
1. Plant Protection materials	tonnes	3	3,800	4,000	4,200
2. Coverage	000 hectares	..	4700	5000	3500

3.29 The total provision for this programme has been set at Rs. 447.00 lakhs as against an anticipated expenditure of Rs. 353.30 lakhs during the current financial year.

Commercial Crops

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

3.31 The programme for the development of sugarcane around the existing six factories and the two new ones (at Gurdaspur and Zira) seek to improve the supply and quality of sugarcane. The staff provided in this scheme has been transferred to committed sector. However, a provision of Rs. 4.50 lakhs has been proposed for 1979-80 for subsidizing seed and pesticides in the sugar factory areas.

3.32 There is a chronic shortage of vegetable oils in the country. Accordingly, a scheme for maximising groundnut production has been envisaged. The staff appointed under this scheme lays out demonstration plots to familiarise the farmers with latest techniques. It also organises plant protection campaigns. Provision has also been made for the continuance of the Integrated Cotton Development Project which was launched in Muktsar block of Faridkot district on a pilot basis w. e. f. 1st April, 1976 for a period of five years.

3.33 An outlay of Rs. 15.00 lakhs has been provided for 1979-80 as against the anticipated expenditure of Rs. 34.66 lakhs during the current financial year for this Programme.

Small Farmers and Agricultural Labourers Development Agencies

3.34 The Small/Marginal Farmers and Agricultural Labourers Development Agencies were sponsored by the centre for improving the economic condition of these categories. Eight districts have been covered under the Centrally Sponsored Programme. The remaining four districts (Gurdaspur, Bhatinda, Faridkot and Ludhiana) have been covered by similar schemes under the State Plan so that the eligible categories may have the same facilities all over the State.

3.35 The schemes subsidised by the Agencies include (i) installation of pumping sets, tubewells and lift irrigation equipment; (ii) sinking of deep tubewells by the Co-op societies; (iii) purchase of improved agricultural implements and storage bins; (iv) setting up of demonstration plots; (v) purchase of buffaloes; (vi) setting up of poultry sheep and piggery units and (vii) supply of spray pumps. The outlay for the year 1979-80 for this programme has been set at Rs. 65.00 lakhs.

Agricultural Engineering

3.36 Under this programme technical know-how and guidance is provided to farmers in the field to take proper care of their machinery; extend prompt and efficient service to farmers for the installation of standard design tubewells and selection of suitable tractors and machinery. An important new initiative is the scheme for establishing testing, maintenance and standard certification of agricultural machinery. The rationale of the new scheme is, to test the agricultural machinery, pumping sets, implements and Plant protection equipment, to render technical knowledge and testing facilities to the manufacturers to produce standard machinery, to provide safety devices in the machinery to prevent accidents and to impart

training to manufacturing units regarding production techniques and quality control methods. Maintenance service will be provided through mobile vans at the door step of farmers and practical training regarding day to day maintenance of agricultural machinery will also be imparted.

3.37 A sum of Rs. 22.00 lakhs has been provided for 1979-80 for this programme against expenditure of Rs. 21.60 lakhs during the year 1978-79.

Warehousing

3.38 The Punjab State Warehousing Corporation provides storage facilities to the farmers and the purchasing agencies. The growing agricultural production has given rise to increasing demand for warehousing facilities. A sum of Rs. 25.00 lakhs has been provided for the construction and operation of warehouses in Punjab as against the anticipated expenditure of Rs. 30.00 lakhs during the current financial year.

Agricultural Marketing and Quality Control

3.39 Under this programme an outlay of Rs. 110.00 lakhs has been provided for one of the major scheme "Development of Mandis" in the annual Plan 1979-80. Priority has been given to complete on-going mandi-projects.

Horticulture

3.40 The Kandi area is suitable for growing mango, litchi, mandarin oranges, and pear, the arid south-west canal command area for citrus fruits, and the central plains, for grapes, peaches, plums and pear. In 1977-78, the area under fruit was estimated at 25,000 hectares. Development of horticulture in the State has been given high priority and it is proposed to raise the area under horticulture to 50,000 hectares by the end of Sixth Plan. To intensify horticulture development programme it is envisaged to create a separate Department of Horticulture in the State.

3.41 The scheme 'Development of Horticulture' will operate in the sub-montane area of Punjab and it has been proposed to concentrate the work in four projects with head quarters at Pathankot, Hoshiarpur, Garshankar and Ropar. It is envisaged to bring 1440 hectares under fruit plants during 1979-80.

Loans at the rate of Rs. 5,000 per acre and subsidy on fruit plants/plant protection equipment/demonstration to the growers is also given.

3.42 To meet the increasing demand of fruit plants, 4 new nurseries will be established at Khiala Bulanda, Gurdaspur, Phillaur and Dhar Kalan during 1979-80. Under another scheme 'Development of Horticulture in Shivalik hills' 200 hectares will be brought under fruit plants. Provision of Rs. 4.00 lakhs has also been made for setting up a new Demonstration-cum-Fruit Preservation units at Hoshiarpur and also to strengthen the existing one at Patiala.

3.43 Two new schemes 'Development of horticulture around Pathankot areas' and 'Kandi area water shed development project' have been introduced. A sum of Rs. 5.00 lakhs has been provided in the Annual Plan 1979-80 for the former scheme which will cover 200 hectares in 23 selected villages. Under the other scheme to be implemented with World Bank assistance, it is proposed to cover 80 hectares of land during 1979-80 with fruit plants in the five selected watersheds namely Dholbaha, Janauri, Maili, Chohal and Patiala Ki Rao, which have got great potential for cultivation of fruits.

3.44 A sum of Rs. 90.00 lakhs has been provided for this programme for the year 1979-80 as against an anticipated expenditure of Rs. 21.59 lakhs during the year 1978-79.

Agricultural Credit

3.45 This programme has been given high priority. The Plan visualises mobilisation of a maximum institutional finance for long term investment in agriculture. It is proposed to finance installation of 10,000 tubewells, purchase of 200 tractors, reclamation of 1250 hectares of alkaline/saline lands, grape cultivation through long term loans provided by Land Mortgage Bank. The Bank raises the needed finance mostly by floating debentures. The State Government is required to take up varying percentage of debentures related to the loaning programme for different purposes.

3.46 A sum of Rs. 281.00 lakhs has been provided for this programme for 1979-80 as against an anticipated expenditure of Rs. 170.50 lakhs during the current year.

Vegetables

3.47 Under vegetables, the most important programme is that for the production and multiplication of seed potato. For supplying quality and disease free seed potato to farmers at a reasonable rate, the Government has set up a chain of seed multiplication farms covering about 500 acres. Development staff has also been provided to impart technical know-how to growers. The Plan also seeks to promote vegetable cultivation around tube-wells. The vegetables production programme would be extended to the districts (Bhatinda, Faridkot and Ropar) which are backward in this respect. It is proposed to identify at least 1000 small farmers in each district who will put 0.2 hectares under vegetables.

3.48 A total provision of Rs. 37.00 lakhs has been made for 1979-80 as against an anticipated expenditure of Rs. 18.95 lakhs during the year 1978-79.

The Employment Programme

3.49 A sum of Rs. 25.00 lakhs has been provided for this programme for the year 1979-80. Under the employment programme for the agricultural engineering graduates it is proposed to set up 300 Agro-Services Centres in the villages. A beginning has been made with 276 centres at the focal points under the Integrated Rural Development Programme. These centres will provide custom service to the farmers at reasonable rates, thus enabling the latter to use modern machinery and implements without having to buy them. The engineering graduates are provided with training facilities and seed money assistance.

FOOD

3.50 Under this sub-head there are only two schemes namely 'Acquisition of land for open storage/complexes and 'Construction of storage godowns', for which a sum of Rs. 2.00 lakhs and Rs. 3.00 lakhs respectively has been provided for the year 1979-80.

3.51 Anticipating acute shortage of storage accommodation and as a via media to mitigate the shortage

as speedily as possible the State Government decided last year to construct open plinths on the space lying vacant in the Government owned godowns at various places in the State. There is no scheme/programme for the construction of new godowns by the Department of Food and Supplies. However, there is one godown at Dhuri of 4,000 tonnes capacity which is in the initial stage of construction and which could not make any headway during the last several years due to some dispute between the P.W.D. and the contractor. A provision of Rs. 19.90 lakhs has been made during the course of the current year, Rs. 9.90 lakhs for construction of godowns and Rs. 10.00 lakhs for open storage/complexes.

SOIL CONSERVATION

3.52 There is very limited scope for further increase in cultivated area in Punjab State as 82% of the total geographical area is already under plough. Large areas in the State are undulated and are affected by sheet erosion, and there is much wastage of water by way of seepage etc. Soil and Water Conservation measures are, therefore, necessary to conserve soil and water resources to obtain optimum return on a sustained basis.

3.53 During 1974-78, an expenditure of Rs. 603.89 lakhs was incurred on soil and water conservation measures and it is anticipated that an amount of Rs. 337.50 lakhs would be expended during 1978-79. An outlay of Rs. 300.00 lakhs has been provided for the Annual Plan 1979-80. Effective expenditure during 1979-80 will, however, be much higher than that during 1978-79, as the staff component of various schemes of Soil Conservation and Engineering Department, adding to Rs. 75.00 lakhs has been transferred as non-Plan from 1979-80. Various programmes/schemes to be implemented under the sub-head during 1979-80 are discussed below:

Soil Survey and Testing

3.54 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. The

surveys also help in assessing the total magnitude of problem and to find out suitability of the alignments and bed gradients, of the water courses to be lined. An outlay of Rs. 4.00 lakhs has been provided under the scheme 'Detailed Soil Survey for command and problem areas' for survey of 1.50 lakh hectares. The Government of India is also providing assistance on matching basis under another scheme SC(A) 2.2 'Strengthening of State Soil Survey Organisation' for conducting soil surveys in the State. An amount of Rs 4.00 lakhs has been provided under this scheme for surveying an additional area of 1.50 lakh hectares. Thus it is envisaged that 3.00 lakh hectares of area will be surveyed during 1979-80.

Education and Training

3.55 The works under soil and water conservation programme are of highly specialised nature and the cultivators are not expected to carry out these measures, themselves. The Department of Soil Conservation & Engineering has, therefore, undertaken to execute the work on behalf of the cultivators. The field staff engaged on these works is required to have full knowledge of the techniques of these works. In order to equip them with the latest soil conservation techniques, training forms an essential part of the duty of the field staff. The operational research regarding utility of new irrigation and land levelling techniques is also included under this programme. The conservation irrigation techniques like drip irrigation, sprinkler irrigation, furrow, border and lining irrigation, use of canvas, check dams and syphon tubes also need to be propagated extensively. The Plan envisages 150 demonstrations on these techniques during 1979-80. To evolve suitable material to be used in water management works, it is essential to conduct field trials in respect of lining of material for common water courses, suitable material for installation of underground pipe lines and lining of surface storage tanks. An outlay of Rs. 14.00 lakhs has been provided for this programme of education, research and training in the Annual Plan 1979-80.

Soil Conservation Programme

3.56 The Punjab State has been divided into the following five regions for soil and water conservation programme. The soil conservation measures will

be undertaken in these regions as per detail below :

	1979-80 Target (Hects)
(i) Sub-montane region ..	9,710
(ii) Border areas ..	1,500
(iii) Bet areas ..	640
(iv) Central plains ..	8,000
(v) South-West Canal command areas ..	1,03,150
Total ..	<hr/> 1,23,000 <hr/>

Soil and Water Conservation in Kandi area

3.57 The sub-montane regions are covered by two schemes 'Soil and water conservation on watershed basis' and 'Pilot project on development of Kandi area with World Bank assistance'. Under this programme the soil and water conservation works such as contour bunding, bench terracing/land levelling, check dams, surface/storage tanks, gully reclamation, installation of underground pipe lines, over an area of 8500 hectares in sub-montane and adjoining plain area of the State is envisaged to be undertaken during 1979-80. The State provides subsidy at the rate of 25 percent on land levelling and water management works, 50 percent on other soil conservation works such as contour bunding, bench terracing, gully reclamation etc. and 100 percent on community common works like check dams. In order to develop the kandi tract it is necessary to execute soil and water conservation works in an integrated manner on water shed basis. The scheme envisages to cover 1210 hectares area in selected water sheds in sub-mountainous tract of the State. An outlay of Rs. 152.00 lakhs has been provided in the Plan for 1979-80 for the implementation of this programme.

Soil and Water Management in border/bet areas

3.58 The western part of the districts of Gurdaspur, Amritsar and Ferozepur falling within 10 miles distance from the border touching Pakistan, constituting border area of the State are comparatively under developed. The development of these areas has been given priority and it is envisaged to carry out soil and water conservation works in these areas on subsidized basis. A provision of Rs. 24.00 lakhs has been made

under the scheme 'Soil conservation works in the border areas' in the Annual Plan 1979-80 for the implementation of soil conservation and water management works such as land levelling, installation of underground pipe lines, over an area of 1500 hectares. Subsidy at the rate of 50 percent is provided for various measures under this scheme. Small provision of Rs. 2.00 lakhs has been made for the scheme, 'Development of Bet areas' for covering an area of 490 hectares. State will provide subsidy at the rate of 25 percent on land levelling and laying of underground pipelines. An amount of Rs. 3.00 lakhs has been provided for reclamation and checking the extension of existing ravines along the river banks. An area of 150 hectares will be treated under this scheme.

Soil and Water Conservation in Canal commands

3.59 The programme of lining of water courses and laying of underground pipe lines has been accorded high priority in the Annual Plan 1979-80. It has been estimated that 25 per cent to 40 per cent of canal water is being lost through seepage and percolation in kacha canal water courses. In order to cut short these losses and for bringing additional area under the command of water courses, it is envisaged to carry

3.62 The major physical targets/achievements of Soil Conservation Department are given below :

out lining and land levelling works over an area of 1.02 lakh hectares during 1979-80. It is proposed to undertake 2500 kms. of lining of canal water courses and 410 kms. of underground pipelines during 1979-80. An outlay of Rs. 45.00 lakhs has been provided in the State Plan 1979-80 under the scheme 'Land Development work in Command areas' and institutional finance of over Rs. 10 crores would be mobilised for the implementation of this programme.

Soil conservation work in Central districts

3.60 An outlay of Rs. 42.00 lakhs has been earmarked under the scheme 'Soil conservation works in Central districts on IRD pattern', for the implementation of various soil and water conservation works over an area of 8000 hectares during 1979-80. Integrated Rural Development scheme for carrying out soil and water conservation works with financial assistance of Rs. 160.00 lakhs from A.R.D.C. will also be executed under this scheme.

Forest Department-Soil Conservation

3.61 An allocation of Rs. 10.00 lakhs has been made in the Annual Plan 1979-80 for the scheme 'Soil and water conservation on water shed basis' being implemented by the Forest Department.

Item	Unit	Actuals			Target 1979-80
		1974-78	1977-78	Anticipated 1978-79	
0	1	2	3	4	5
A Soil Conservation and Water Management					
(i) Land levelling	Hectares	20,000	3,200	7,000	10,000
(ii) Bench Terracing	„	4,000	1,300	2,000	2,000
(iii) Contour bunding and gully reclamation	„	1,000	300	—	1,000
(iv) Laying of underground pipelines etc.	„	2,51,000	68,000	1,04,730	1,10,000
Total		2,76,000	72,800	1,13,730	1,23,000
B Lining of water courses by Soil Conservation Deptt.					
	Kms	2287	1200	2500	2500

CHAPTER IV

Agriculture and Rural Development (II)

With the flattening of the growth curve for agricultural production especially that of cereals, it has become necessary to diversify agriculture and accelerate the pace of development in allied agricultural activities comprising animal husbandry, dairying and milk supply, fisheries and forests. Further, in pursuance of the goal of reduced rural-urban disparity, besides allowing a substantially enlarged provision for Community Development and Panchayat works, the programme of Integrated Rural Development has been launched for intensive development of the State. The development programmes under this field are discussed below :—

ANIMAL HUSBANDRY

4.2 National Commission on Agriculture has identified that the promotion of livestock production through the weaker section of farmers in the rural areas could be relied upon as a major instrument of social change, for supplementing the income and providing a large scope for employment for these sections of people in the rural areas. In order to diversify the agricultural base of the State economy and in view of the great significance of cattle wealth to augment the milk production and supplementary food; animal husbandry has been accorded high priority. The programmes under this sub-head cover development of cattle, poultry, piggery, sheep and wool.

4.3 An outlay of Rs. 260.00 lakhs has been provided for the implementation of various programmes under the sub-head, 'Animal Husbandry' for the year 1979-80, against an anticipated expenditure of Rs. 293.35 lakhs during the current year. The effective plan size for 1979-80 of this sub-head will be more than that of the current year as a number of schemes adding to Rs. 63.68 lakhs has been taken on to the non-Plan as committed expenditure, in accordance with guidelines provided by the Govt. of India. The actual expenditure incurred under this sub-head for the period 1974—78, anticipated expenditure for 1978-79 and outlay for 1979-80 are as under :—

<i>Year</i>	<i>(Rs. in lakhs)</i>
1974-75	.. 73.15
1975-76	.. 106.48

<i>Year</i>	<i>(Rs. in Lakhs)</i>
1976-77	.. 129.42
1977-78	.. 183.83
1978-79 (anticipated)	.. 293.35
1979-80 (outlay)	.. 260.00

4.4 Various programmes/schemes for the Annual Plan 1979-80 are discussed below :—

Direction and Administration

4.5 Under this programme, it is proposed to strengthen the Planning Cell and create an Information and Publicity Cell and an Institutional Finance Cell in the Directorate of Animal Husbandry and strengthen the offices of District Animal Husbandry Officers and Project Officers for intensive cattle development projects, for the preparation of evaluation reports of progress achieved, dissemination of new technique and development in various animal husbandry fields to livestock owners and for mobilising maximum institutional finance. An outlay of Rs. 3.00 lakhs has been provided for this programme in the Annual Plan 1979-80.

Veterinary Services and Animal Health

4.6 Adequate health cover is an essential condition for the success of livestock programme. Under this programme, health cover is provided for the improvement and the preservation of the cattle wealth by setting up veterinary hospitals/dispensaries, upgrading the existing dispensaries into hospitals and by setting up veterinary institutions in the State. At the end of 1977-78, there were 831 veterinary institutions in the State, out of which 466 were manned by qualified veterinarians. In 1978-79, 110 more veterinary hospitals-cum-artificial insemination centres are likely to be set up under I.R.D.P. at focal points. During 1979-80, 117 more veterinary hospitals-cum-artificial insemination centres will be established under I.R.D.P. at focal points. Besides, State veterinary medical store, Jullundur will be expanded by increasing the production of sera/vaccines and taking up the production of new vaccines and antigens.

4.7 Foot and mouth vaccination of selected buffaloes and cross-bred animals will continue. For this,

vaccine at subsidized rate of 50 percent is provided. It is envisaged to extend this programme to the whole of the State covering all small/marginal farmers. For this purpose, a sum of Rs. 2.00 lakhs has been provided in the Annual Plan 1979-80.

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

Table 4.1 Physical Achievements and Targets regarding Veterinary Institutions

Item	Unit	1973-74 Actuals	1974-75 Actuals	1975-76 Actuals	1976-77 Actuals	1977-78 Actuals	1978-79 Likely Achievement	1979-80 Targets
1	2	3	4	5	6	7	8	9
Veterinary Hospitals	No.	276	291	321	346	346	346	346
Veterinary Dispensaries	No.	259	277	287	292	362	362	362
Mobile Veterinary Dispensaries	No.	6	27	27	33	33	—	—
Veterinary Hospitals-cum-Artificial Insemination Centres under I.R.D.P.	No.	—	—	—	—	90	200	317
Total Veterinary Institutions	No.	541	595	645	671	831	908	1025
Livestock population	in lakhs	91.15	93.42	95.76	98.15	100.61	101.87	104.00
Heads of livestock served per veterinary institution	in 000	16.85	15.70	15.08	14.63	12.11	11.22	10.15

Veterinary Education and Research

4.9 A grant-in-aid of Rs. 50.00 lakhs has been provided for the implementation of various veterinary research, education and extension schemes proposed to be implemented by the Panjab Agricultural University, Ludhiana in the Annual Plan 1979-80.

Cattle Development

4.10 The main thrust of the cattle development programme is towards increased milk production by intensive cross-breeding programme of cattle with genetically superior germplasm of exotic/cross bred bulls for producing large number of cross-bred cattle. The buffaloes number about 2348 thousand as against 788 thousand milch cows. Buffalo also gives a higher average daily milk yield of 4.31 litres as against 2.45 litres of cow. In the Annual Plan 1979-80, while cattle development covers both cow and buffalo development, the accent is on the latter.

4.11 For the improvement of buffaloes, selective breeding and progeny testing programme in the field

conditions will be undertaken. During 1979-80, about 50 to 60 bulls will be tested. Presently a large number of buffaloes are being exported to big cities and other States depleting the breeding tract of the superior germ plasm. With a view to restricting the export, identification of high yielding buffaloes for retention in the breeding tract, is necessary. This is proposed to be achieved by subsidising the maintenance of such animals. During 1979-80, 400—500 buffaloes are proposed to be identified and an average subsidy of Rs. 1,000 will be given per animal. It has also been considered that owner of male calves do not feed them properly. Consequently, subsidy is proposed to be given to owners of male calves from high yielding dams for better feeding and improved management practices. About 200—300 such animals will be identified during 1979-80. Frozen Semen of buffalo bulls is presently being supplied to 189 insemination units and this programme will be extended to a larger number of units during 1979-80.

4.12 The Indo-Swiss project, Patiala is the major cattle development project of the State with an inte-

grated programme for feed and fodder development in the project area. The progress under this project is as under :—

Table 4.2. Achievements of Indo-Swiss Project

	1973-74	1974-75	1975-76	1976-77	1977-78
Number of units	.. 77	144	176	179	189
Number of Inseminations	.. 12,984	25,646	30,664	45,355	50,877
Number of calves born	.. 2,359	5,609	10,328	14,069	15,995
Number of insemination per unit	.. 168.6	178.1	225.4	253.3	269.2
Number of calves born per unit	.. 53.5	72.8	71.7	78.6	84.6

4.13 The existing term of the project expires on 31st March, 1979. But for continuation of the previous activities and considering the experiences and the results already achieved, it is proposed to be continued further for a period of 5 years. The programme for 1979-80 would be for strengthening of extension service in the five districts covered under the project and continuation of feed and fodder development programme through demonstration, production, multiplication and distribution of fodder seeds. The project will also collaborate with the institutions concerned with the collection and marketing of milk to promote remunerative market of buffalo-cows milk.

4.14 The Holstein Friesian Cattle Breeding Farm at Mattewara will be further strengthened and its build-

ding programme will be completed. It is also proposed to venture commercial dairy farming by setting up a limited number of small cattle breeding units of 10 cows each. Subsidy at Rs. 500 per annum for 5 years, loan @ Rs. 5,000 per unit as also subsidising the interest on loan is contemplated for this purpose. A provision of Rs. 10.00 lakhs has been made for completion of buildings at Kule Majra Cooperative Farm. 25000 farmers will be given training in feeding, breeding and management practices of exotic/cross-bred animals. 7000 cross-bred calves will be identified in different districts for cross-bred calf rearing programme through small/marginal farmers and agricultural labourers.

4.15 Major achievements and targets under this programme are indicated in the table below :—

Table 4.3. Stock of Milch Cattle and Milk Production, by Type of Cattle

Item	Unit	1973-74 Actuals	Fifth Plan targets	Actuals				1978-79 likely achievement	1979-80 Targets
				1974-75	1975-76	1976-77	1977-78		
1	2	3	4	5	6	7	8	9	10
Milk	.. 000 tonnes	2,100	3,050	2,250	2,400	2,550	2,729	2,911	3,059
Eggs	.. Million	321	495	350	425	425	419	444	474
Wool	.. Lakh Kgs.	10.00	14.00	10.80	11.60	12.40	11.12	11.25	12.20
No. of inseminations performed with exotic bull semen	In lakhs	2.90	16.00	1.60	2.10	2.24	2.64	3.00	4.00

Poultry Development

4.16 Poultry production made rapid strides in the last decade. The 1972 census showed a poultry

population of 3.02 million. In 1977, there were 2.6 million layers and 2.1 million chicks in 3907 private poultry farms. 656 farms had more than 9,000 layers. Egg production is estimated at 444

million in 1978-79. During 1979-80, share capital contribution of Rs 10.00 lakhs is proposed to be provided to Punjab Poultry Corporation for setting up an Egg Tray Project, expansion of feed compounding activities and for the collection and marketing of eggs. An outlay of Rs 10.00 lakhs has been earmarked for the purchase of special development debentures for poultry development. It has also been envisaged to assist educated unemployed to set up poultry units of 500 birds each with capital cost of Rs. 20,000 per unit. The capital cost will be raised from financing institutions while the State will subsidize interest at the rate of 5%. A provision of Rs 1.00 lakh has been made for this purpose in the Annual Plan 1979-80.

Sheep and Wool Development

4.17 According to the Sample Survey of 1976-77, the population of sheep was estimated at 565 thousand. 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. Total wool production was 1112 thousand kg. in 1977-78. Under sheep and wool development programme, shearing and spraying equipment is proposed to be provided at all the sheep and wool extension centres. During 1979-80, equipment will be provided to 5-6 centres for which an outlay of Rs 2.00 lakhs has been provided. Exotic/ cross-bred rams are proposed to be supplied to bonafide sheep breeders for intensifying cross-breeding programme among indigenous sheep.

4.18 An outlay of Rs 10.00 lakhs has been provided in the Annual Plan 1979-80. Share capital contribution of Rs 20.00 lakhs, including Rs 10.00 lakhs from Central Govt. is proposed to be provided to the Punjab Sheep and Wool Development Corporation during 1979-80.

4.19 Production of wool will rise from 1112 thousand kgs. in 1977-78 to 1220 thousand kgs. in 1979-80.

Piggery Development

4.20 Pig population has been estimated at 85,000 in 1976-77. At present, there are six Government pig farms in the State. Two more pig farms at village Mallewal in Ferozepur district and Matte-wara in Ludhiana districts are being set up.

4.21 The pig production programme for the year 1979-80 envisages expansion of the existing Pig Breeding Farms by providing additional accommodation, animals and also feeding of these animals. Two Pig Breeding Farms are presently in the process of establishment, one of which is likely to be completed in the current year while the other is proposed to be completed during 1979-80. An outlay of Rs 5.00 lakhs has been provided in the Annual Plan 1979-80 for this programme.

Other Development Programmes

4.22 The State Government have formulated a Kandi water shed and Area Development project with World Bank assistance for integrated development of land and water resources in five catchments upto their outfalls. A provision of Rs 15.00 lakhs has been made during 1979-80 for the Animal Husbandry development programme in the area. Under this programme, 250 interested breeders will be supplied cross-bred heifers/cows and buffaloes. Besides, 2 exotic cow bulls, 1500 cross-bred sheep, 50 exotic rams will be made available and 100 poultry units of 250 birds each will be set up. A provision of Rs 2.00 lakhs has been provided for raising 60 to 70 buffalo-bulls in field conditions through the progeny testing programme. A provision of Rs 2.00 lakhs has been made for the setting up of a polytechnic for providing refresher training courses to para veterinary staff and for vocational training to farmers. A hostel for the farmers will also be constructed.

Integrated Rural Development Programme

4.23 Under Integrated Rural Development Programme, a provision of Rs 85.00 lakhs has been made for the continuance of 200 hospitals-cum-artificial centres likely to be set up by 1978-79 and for setting up of 117 new Veterinary hospitals-cum-artificial insemination centres. Under this programme, 10 farmers from each village will be selected for training. 5 units per cluster for poultry development, 1 unit per cluster for piggery development and 2 units per cluster for sheep development will be taken up during 1979-80. One Composite demonstration plot per village, 4 simple demonstration plots per village, and one silo pit per village will be laid out for demonstration in fodder development.

Feed and Fodder

4.24 The present availability of fodder is not perennial. On an average, an animal gets 11 kgs. of fodder per day against the requirements of 40 kgs. To raise availability of fodder, an area of 40 acres of land is proposed to be reclaimed at the existing fodder seed production farms Nabha and Matrewara. Departmental fodder seed multiplication farms are proposed to be strengthened and expanded by providing additional machinery, irrigation facilities and inputs. A new programme for the production and multiplication of quality fodder seeds through the registered growers will be implemented to acquaint the farmers with the techniques of fodder production through the extension staff. Fodder conservation measures will be popularised. The farmers will be supplied improved fodder seeds. Latest techniques of fodder crops will be demonstrated in the fields of the farmers. 3000 quintals of quality seeds will be supplied and 100 silo pits will be constructed during 1979-80. Feed and fodder cell for the formulation and implementation of fodder development programmes will be strengthened. An outlay of Rs 17.55 lakhs has been provided in the Annual Plan 1979-80 for this programme.

DAIRYING AND MILK SUPPLY

4.25 In order to promote diversification of agriculture and provide remunerative supplementary activities to the farmers especially to small/marginal farmers and landless/agricultural labourers, Punjab State seeks to follow up the green revolution with a white revolution. Commercial dairy farming on scientific lines could provide the educated unemployed a new avenue of gainful self-employment.

4.26 An outlay of Rs.100.00 lakhs has been provided for the development of dairying and milk supply in the State in the Annual Plan 1979-80 against the anticipated expenditure of Rs. 96.41 lakhs for 1978-79. Various programmes/schemes to be implemented in the Annual Plan 1979-80 are discussed below:—

4.27 High priority has been accorded to the programme of dairy development for increasing milk production and for the proper maintenance of the health of the animal. An outlay of Rs. 61.00 lakhs has been provided

for this programme in the Annual Plan 1979-80 against the anticipated expenditure of Rs. 46.75 lakhs during 1978-79. Balanced cattle feed is a pre-requisite for increasing milk production. During 1979-80, it is proposed to establish cattle feed mixing and pallet making unit for which funds to the extent of Rs. 5.00 lakhs have been provided. For imparting technical know-how to farmers in the Scientific techniques of feeding, breeding and better managerial practices to enable them to turn to commercialisation of dairying, the extension/training services will be expanded in the State by creating 2 additional training units during 1979-80. It is envisaged to impart training to 3050 farmers/milk producers by the existing and 2 new units in 5 days/1 month's training courses in scientific dairying. The trainees will be paid messing charges @ Rs. 5.00 per day for 5 days courses and stipend @ Rs. 100 for 1 month's course. It is also envisaged to construct Demonstration Centres, farmers' halls, hostels for the trainees and to purchase exhibition vans for the existing 3 training units, 12 existing dairy extension units and 2 new training units. For this purpose, an amount of Rs. 21.00 lakhs has been provided in the Annual Plan 1979-80. A sum of Rs. 5.00 lakhs has been provided as additional share capital contribution to the Punjab Dairy Development Corporation to strengthen its credit structure.

4.28 With a view to providing self employment to educated youngmen/women belonging to weaker sections of society in the rural areas for introducing scientific and commercialised milk production, 21 days training will be imparted to 720 candidates during the year 1979-80. Stipend @ Rs. 70/- will be paid to each trainee. After the completion of 21 days training, the trainees will be assisted to get loans @ Rs. 15,000/- from various financial institutions for the purchase of upto 5 milch animals. The following subsidies are also to be given to the trainees as incentive :—

(i) Interest subsidies @5% on loan per annum for the purchase of animals for three years.

(ii) 2/3 insurance premium subsidy per animal for 12 months provided 1/3 is paid by the beneficiary.

(iii) Rs. 240/- cattle feed subsidy per animal for one year.

Milk Supply Schemes

4.29 In order to provide ready remunerative milk market all the year round to the farmers and improve their economic conditions in the border, sub-montane, bet and backward area of the State, Milk Chilling cum Demonstration Centres are being set up in these areas. For this programme, an outlay of Rs. 22.42 lakhs has been provided in the Annual Plan 1979-80. Out of this, a sum of Rs 12.00 lakhs will be utilized for the acquisition of land and construction of buildings and the remaining sum of Rs 10.42 lakhs will be spent for the purchase of machinery and equipment. Under this programme, construction work at milk chilling-cum-demonstration centres Lopoke (Amritsar), Narot Jaimal Singh (Gurdaspur), Ghallu (Ferozepur), Ghughial (Hoshiarpur), Gho (Gurdaspur), Jhingri (Ropar), Chhokran (Jullundur) and Jakhepal (Sangrur) will remain in progress or completed during the year 1979-80. Besides, the Construction work of 4 more chilling centres for which suitable sites are being selected during 1978-79 will also be taken up during 1979-80.

Other programmes

4.30 Milk Cooperative Societies eliminate the middle men between the producers and the milk plant. 66 genuine milk producers societies from the milk shed colonies of the existing as well as future milk plants will be provided requisite inputs in the form of managerial subsidy, subsidy for the construction of milk collection rooms, detergents for testing of milk, equipment and machinery and concentrates for cross-bred heifers. A sum of Rs 5.28 lakhs at the rate of Rs 8,000/- per society has been provided in the Plan for 1979-80. This assistance is very useful for strengthening the credit structures of the societies for raising institutional finance and to develop the societies into commercially viable units.

4.31 Integrated Rural Development Programme has also a dairy component. Under this ambitious programme it is envisaged to cover 10 blocks and 5

villages in each block. Further 5 families will be identified for providing the following types of subsidies:—

1. Subsidy for the construction of Model cattle sheds for five animals @ Rs. 1000/- per family (Rs 3,000/- to Rs 4,000/- to be borne by the beneficiary).
2. Subsidy for the purchase of high quality fodder seed @ Rs 200/- per family.

4.32 Besides, a sum of Rs 5.00 lakhs has been provided for the supply of subsidized milk to the weaker sections of the society in the periphery of Ludhiana city. This is in accordance with the terms of agreement executed with UNICEF that the Punjab Government will arrange to supply in a period of 10 years milk worth Rs 50. lakhs equal to 1 ½ times the landed value of machinery and equipment donated by UNICEF. Subsidized milk will be supplied to the scheduled castes, backward classes and other weaker sections of the society in the ratio of 2:1:2 respectively.

FISHERIES

4.33 In order to supplement agriculture with aquaculture and to reduce the gap between the availability and requirements of high quality protein, 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 rivers is 1,830 km. and that of canals and distributaries 13,445 km. The village ponds and tanks suitable for fish culture have a total area of 3,100 hectares. In addition, there are 1,200 hectares of back water areas and 4,400 hectares of continuous strips of depressions along canals. The total impounded area available for fish culture adds upto 8,700 hectares. The large number of tube-wells and pump sets make it possible to practise fish culture in dug ponds.

4.34 Out of 117 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 fish cultural schemes of Fish Farmers Development Agencies at Gurdaspur, Jullundur, Amritsar and Ludhiana, additional 800 hectares of water area will be brought under

fish culture. Thus, the total requirement of fingerlings for continuing fish culture activities in 1300 hectares area will be 65 lakhs annually if stocked @ 5000 fingerlings per hectare. The production capacity of the existing Fish Seed Farms and eleven Block Nurseries which are still under construction will be to the extent of 60 lakhs fingerlings annually. Therefore, to cover 1300 hectares of water areas and to bring the remaining 1800 hectares under intensive fish culture, the requirements of fingerlings will be to the extent of 1.55 crores annually.

4.35 An outlay of Rs. 30.00 lakhs has been provided for 1979-80 for the development of fisheries as against the anticipated expenditure of Rs. 29.70 lakhs during the current year. Main programmes/schemes for the Annual Plan 1979-80 are discussed below :—

Direction and Administration

4.36 The present strength of headquarters, circles and District level offices cannot cope with the additional works being undertaken for a scientific development of aquaculture in the State. It is, therefore, proposed to strengthen these offices by providing adequate technical as well as ministerial staff at a total cost of Rs. 2.00 lakhs during the Annual Plan 1979-80.

Fish Farms

4.37 Under this programme, it is contemplated to complete the construction work of fish seed farms and eleven block fish seed nurseries which are spill over of the Fifth Plan. It is also envisaged to equip these units with the latest innovations of Glass Jar Hatcheries, in order to raise the fish seed production from these farms and block nurseries. Besides, the completion of these seed farms and block nurseries, it is proposed to establish one more fish seed farm in Ferozepur District during 1979-80. For this purpose, an amount of Rs. 8.00 lakhs has been provided in the Annual Plan 1979-80. Under a new scheme, fingerlings will be obtained from natural resources by construction of bundhs and tapping the riverine areas. One bundh having 0.5 hectares will be constructed during 1979-80. For this purpose, an amount of Rs. 1.00 lakh has been provided. A seed farm will be established in the vicinity of Shah Nahar Reservoir for which a pro-

vision of Rs. 1.00 lakh has been made for 1979-80. It will yield 500 thousand fingerlings per year for stocking this reservoir on completion. A provision of Rs. 1.00 lakh has been made for the establishment of aquarium-cum-museum at Ludhiana.

Research, Education and Training

4.38 A provision of Rs. 2.00 lakhs has been made for the programme of research, education and training during 1979-80. Under this programme, one hydro-biological research station will be set up at Harike to study riverine fisheries. One more mobile fisheries field laboratory will be created to tackle problems of village ponds and tanks. Three fisheries information and extension units will be set up to cover 4000 villages to disseminate technical know how of fish farming by way of publicity, exhibitions of films. Two training centres will be created to impart training in fish farming to 3000 farmers. One officer will be deputed to Bombay and two officers to Barrackpur, two district fisheries officers to Hyderabad and four fishermen to Agra for institutional training to handle the responsibilities efficiently.

Other Programmes

4.39 Under this programme, an outlay of Rs. 15.00 lakhs has been provided in the Annual Plan 1979-80 against the anticipated expenditure of Rs. 12.70 lakhs during 1978-79. Under this programme, it is proposed to construct two fish seed farms in Hoshiarpur and Ropar District to develop fisheries potential by stocking fingerling of carps. The reservoirs will be constructed on the chos of Hoshiarpur district namely Dholbaha, Janauri, Maili and Chabal and in riverine stretch of River sutlej from Ropar headworks to up stream Nangal headworks, as most of the natural breeding grounds of carps in this stretch is becoming remote. For this, a sum of Rs. 4.00 lakhs has been provided in the Annual Plan 1979-80.

4.40 In order to uplift the rural economy and to provide self employment opportunities to the unemployed rural people of the State, it is proposed to introduce intensive fish farming in the rural areas of the State so as to utilise water areas and by creating new water areas to the extent of 600 hectares for fish farming. During Annual Plan

1979-80, 48 hectares of area will be excavated and 40 hectares of area will be renovated for intensive fish culture in the State.

FORESTS

4.41 With the re-organisation of the State in 1966 most of the area under forest has been transferred to Himachal Pradesh. In March, 1978, the total forest area in the State was 2,115 sq. km. comprising 1041 sq. km. of Government area and 1074 km of private area. This is barely 4.2 per cent of the total geographical area of the State. In the Annual Plan 1979-80, main emphasis has been laid on forest development in the Shivalik hills, on private area owned by panchayats and individuals and in the forest block/strips along railway, roads and canals.

4.42 An outlay of Rs. 175.00 lakhs has been allocated for the development of forests in the State in the Annual Plan 1979-80 against the anticipated expenditure of Rs. 155.50 lakhs in the Annual Plan 1978-79. The main programmes under this sub-head are discussed below :—

Forest Research, Education and Training

4.43 With the rapid development of science and technology, maximum stress has to be laid to make best use of the available resources. Accordingly, various problems of forestry with regard to nursery and plantation techniques, selection of the species for climated soil condition, trial of various medicinal plants and fodder grass is being conducted departmentally and by the Panjab Agricultural University, Ludhiana. For this, an outlay of Rs. 1.15 lakhs has been provided in the Annual Plan 1979-80. In order to keep the field staff abreast of the modern technique, training is to be imparted to forest ranger, guard, foresters in the Punjab Forest School at Hoshiarpur. For this purpose, an outlay of Rs. 0.95 lakh has been provided for 1979-80.

Plantation Schemes

4.44 Punjab State is deficit in wood resources due to limited area under productive forests. In order to supplement wood resources and utilize the State waste land which are under the control of the Forest Department, it is proposed to raise plantation of economic species like shisham, kikar, eucalyptus, mulberry, khair, bamboo, chil etc. in the block forest

and in all the waste land lying along railway, roads and canal strips. The strip plantations will also serve as shelter belts and wind breaks against wind erosion and hot dry winds. An outlay of Rs. 46.00 lakhs has been provided for this scheme in the Annual Plan, 1979-80.

4.45 In accordance with the recommendations of the National Commission on Agriculture, two schemes of "Mixed plantation on waste lands/panchayats lands" and "Development of social forestry, reforestation of degraded forest" were introduced during 1976-77. Basic objective of these schemes is to raise plantation of fuel wood, leaffodder, fruit trees and grass etc. including raising and distribution of plants to various institutions and individuals to meet the requirements of rural and semi-urban population and to create shelter belts. For these schemes, an amount of Rs. 13.00 lakhs has been provided during 1979-80.

4.46 Under another major programme pertaining to the raising of plantation under the farm forestry, it is envisaged to supplement forest wealth by planting of trees by the people in their agricultural holdings along the boundaries, edges of water channels, along phirnies, in schools and various other institutions and in private waste and marginal land. The department will raise trees on the individual land and maintenance work will be the responsibility of the individual owners of their land. An amount of Rs. 22.00 lakhs has been provided in the Annual Plan 1979-80 for this scheme of forestry. Grass land, mostly private owned, will also be developed by including them for soil and water conservation and planting these with good fodder grass and trees. For this, an amount of Rs. 1.00 lakh has been provided during 1979-80. Besides planting will be undertaken along roads adjoining private fields at Government cost. The maintenance will be done by the owners. For this scheme, a sum of Rs. 3.00 lakhs has been earmarked in 1979-80.

Preservation of Wild Life

4.47 Under this programme, a modern zoological park, which is considered a necessity for recreational, educational purposes, for conservation, multiplication and rehabilitation of wild life, particularly those species threatened with extinction, is being established at Bir Chhat near Chandigarh. Various types of animals are being procured

for this zoo. An outlay of Rs 40.00 lakhs has been provided for the works regarding setting-up of the zoo. Another sum of Rs 6.00 lakhs has been provided in the Annual Plan, 1979-80 for the preservation/production of wild life and establishment/maintenance of wild life parks and sanctuaries in the State.

Other Programmes

4.48 An important new programme of forest development in Shivalik hills is proposed to be undertaken during 1979-80 under the kandi water shed and area development project with the assistance of world Bank. Kandi tract of Punjab falling in Gurdaspur, Hoshiarpur and Ropar Districts is the most backward area in the State. The main problem is in upper catchment area of the Shivalik hills which are devoid of vegetative cover. This has resulted in severe erosion of the hills. Flash floods occur during rainy season and the chos emerging out of these hills carry lot of debris with them which is spread on the fertile fields in the

plains. These chos keep on changing their courses very often and as such cause devastation to valuable agricultural land in the foot-hills and the plains, to public and private property. This damage can be moderated if vegetative cover on the hill slopes is restored. It is in this context that Kandi Water Shed and area development project has been prepared for the integrated development of land and water resources in the five catchments up to their out-falls. The five catchments proposed to be covered are Dholbaha, Janauri, Chohal, Maili in Hoshiarpur District and Patiala Ki Rao in Ropar District. For the implementation of the forest part of this project an amount of Rs 20.00 lakhs has been provided in the Annual Plan, 1979-80. Besides, a sum of Rs 5.10 lakhs has been provided for acquisition of land where necessary in the Shivalik hills.

4.49 Physical achievements during 1977-78, estimates for 1978-79 and projected target for 1979-80 are given in the table below :—

Table 4.4 : Physical Achievements and Targets in Forest Department

Item	Unit	1977-78 Achievement	1978-79		1979-80 proposed target
			Target	Anticipated achievement	
1	2	3	4	5	6
Area under Plantations					
(a) Government areas	.. 000' hectares	5.58	5.03	5.03	4.50
(b) Private areas	.. 000' hectares	1.13	1.73	1.73	2.39
(c) Farm Forestry (Private areas)	.. 000' hectares	8.40	4.40	4.40	4.40
Total	.. 000' hectares	15.11	11.16	11.16	11.29

COMMUNITY DEVELOPMENT AND PANCHAYATS

4.50 Panchyati Raj and Community Development Department is concentrating mainly on the welfare activities and improvement of village sanitation by pavement of streets, construction of drains, disposal of sullage water, construction of Panchayat ghars and school buildings, construction of shopping com-

plexes at focal points and provision of other facilities like children parks, play grounds, drinking water wells, setting up of new libraries etc. Income accrues to Panchayats from the lease of Shamlat lands, house tax, share in the land revenues and proceeds from the revenue earning assets.

4.51 During 1974-78, Rs 456.92 lakhs were spent on these activities. An outlay of Rs 190 lakhs has been

provided for the Annual Plan 1978-79 against which it is anticipated that an expenditure of Rs 171.00 lakhs will be incurred for implementing various schemes. An outlay of Rs 150 lakhs has been earmarked for this sub-head of development for the Annual Plan 1979-80. A number of schemes adding to Rs 47.33 lakhs being implemented by the Department in the current year on the Plan side have been transferred to the non-plan as committed liability.

4.52 The main thrust of the 1979-80 plan is on the creation of revenue earning assets mainly in the form of construction of shopping complexes at focal points under Integrated Rural Development Programme and Pavement of streets and construction of drains.

4.53 Financial assistance is provided to Panchayati Raj Institutions for expenditure on revenue earning assets in the form of 15 years loans at 3 per cent rate of interest under the scheme 'Financial Assistance to Panchayats, Panchayat Samitis and Zila Parishads for expenditure on revenue earning scheme'. Besides, assistance of Rs 36,000 is also being provided to each Panchayat of focal point villages for construction of 4 shops under the Integrated Rural Development Programme. During 1974-78, assistance to the extent of Rs 73.59 lakhs was availed by 360 Panchayats and 7 Panchayat Samitis for the creation of revenue earning assets and Rs 63.00 lakhs are likely to be utilised for providing assistance to 132 panchayats during 1978-79. An outlay of Rs 62.00 lakhs has been earmarked for the implementation of this programme in the Annual Plan 1979-80.

4.54 Pavement of streets and construction of drains is an important programme of the Department aiming at improvement of village sanitation. For this purpose grants upto Rs 50,000 are given to the Panchayat Samitis for executing works in the approved villages. During 1974-78, grants were given to 978 villages. An outlay of Rs 40.00 lakhs has been provided during the current year for pavement of streets and construction of drains in 80 villages. The villages will be required to make 25 per cent cash contribution, from 1979-80 onwards, to meet the expenses on this account. An outlay of Rs 50.00 lakhs for covering 100 villages has been provided under this scheme in the Annual Plan 1979-80. This scheme is also very suitable for making use of Central assistance available under the 'Food for Works Programme'. In addition to the above programme, pavement of

streets and construction of drains is also being done through S.E. Panchayati Raj under Rural Planning Programme for which funds are provided by the concerned Panchayat. Streets in 1451 villages were paved under this programme during 1975-78. The scheme for the disposal of sullage water and sanitation has been integrated with this scheme and for 1979-80, provision for this purpose has also been made under the scheme 'Pavement of streets and construction of drains'

4.55 Under the Scheme 'Composite Programme for women and pre-school children, strengthening of craft centres,' nutritive diet is being provided to nursing mothers and pre-school children in the age-group of 3-6 years. Expenditure is also incurred for the purchase of equipment for Balwadis and craft centres. It also includes provision for the supply of milk food and nutritive oil for the Balwadi children under the scheme A.N.P. being financed by the CARE. Under this scheme, an outlay of Rs. 2.57 lakhs was utilized during 1974-78. An outlay of Rs. 4.80 lakhs has been provided for the Annual Plan 1978-79. Out of this, a sum of Rs. 2.98 lakhs in respect of staff working in 69 Balwadis in A.N.P. blocks has been taken on to the non-plan as committed expenditure. An outlay of Rs. 3.80 lakhs has been provided in the Annual Plan 1979-80 for meeting the expenses of 147 Balwadi centres in 49 non ANP blocks and purchase of equipment in craft centres in all the 118 blocks of the State.

4.56 Assistance @ Rs. 10,000 each is also being provided for construction of Panchayat ghars under the scheme 'Assistance to Panchayats for expenditure on Panchayat works'. During 1974-78, an expenditure of Rs. 24.00 lakhs was incurred for the construction of 240 Panchayat ghars. A sum of Rs. 11.00 lakhs is anticipated to be spent on the construction of 100 Panchayat ghars and one Community centre at Assa Butter during 1978-79. An outlay of Rs 15.00 lakhs for construction of 150 Panchayat ghars has been provided for 1979-80. Provision of Rs. 10.00 lakhs has also been made for completing the incomplete works in 130 villages under the scheme 'Development of Model Villages'. A new initiative is the scheme for providing under-ground sewerage in villages. To start with, an outlay of Rs. 4.00 lakhs has been provided for benefitting 4 villages. Small provision has also been made for meeting the expenses of staff, and contingencies, recruited at the headquarters under Integrated Rural Development Programme.

Integrated Rural Development Programme

Integrated Rural Development Programme was launched in the Punjab State in October, 1977 which aims at optimum utilization of natural and human resources in the cluster of villages, for material well being and overall enrichment of life of all the sections of the people. The major objectives of this programme are as under :

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

5.2 Under this programme the entire State has been divided into 500 clusters. Initially 117 clusters consisting of 5 villages each were selected for overall development during 1977-78 and the programme was extended to additional 117 clusters during 1978-79 and addition of 5 villages each to existing clusters. This programme, taken up in the Punjab State, is a unique experiment in the sense that its coverage will spread to the entire State in a period of about 5 years. Ultimately 20-25 villages will be attached to each cluster for integrated area development.

5.3 Infra-structure facilities like the Agro-Service Centre, Cooperative Bank branch, retail outlets for distribution of consumer articles and agricultural inputs, marketing yard, diesel/petrol pump, post office, medical dispensary and veterinary hospital are proposed to be provided at each focal point to enable the farmers to avail all these facilities in the nearby vicinity. At a later stage, it is proposed to provide additional facilities such as cold storage, research and training facilities, cinemas, piped water supply, community centre-cum-library and the like.

Stress is also being laid on the development of agro-based industries, lining of canal distributories, lining of water-courses, laying of under-ground water channels, land reclamation, soil conservation and setting up of dairy, piggery and poultry units to ensure to achieve the targets of agriculture production, raising the income levels and generating full employment in the rural areas.

5.4 Special efforts will be made to provide full and gainful employment to scheduled castes and other economically weaker sections like agricultural labourers village artisans and other un-employed educated persons. From these classes, the poorest families will be identified. The un-employed persons of these house-holds will be assisted through the grant of subsidies, loans and provision of other necessary facilities to set up cottage industries, repair and service shops, enter into retail trade and establish small dairy, piggery and poultry units. Thus in this comprehensive programme of rural development main focus in 1979-80 will be on the economic betterment of the poorest section of the rural population.

Agriculture

5.5 Timely supply of inputs and credit is the most important factor in agriculture. In the villages taken up for intensive development, farm plans for individual farmers would be prepared. Testing of soil would be carried out and specific recommendations depending upon soil tests would be made, for the use of agricultural inputs. Demonstration and training, reclamation of alkaline/saline lands, weed controls will also be attended at priority level. Facilities like irrigation, subsidy on essential inputs and technical know-how at the door steps of the farmers will be provided. The technical staff will keep personal contacts with the group of farmers to help them in increasing agricultural production.

5.6 A sum of Rs 50.00 lakhs has been proposed for this programme for 1979-80 as against the anticipated expenditure of Rs 70.00 lakhs during 1978-79.

Soil Conservation

5.7 The Soil Conservation and Engineering Department has estimated that 1,92,000 hectares of land falling under IRD villages will need soil and water conservation. Out of this, 4,000 hectares were covered during 1977-78 and additional 7,000 hectares are likely to be covered during 1978-79. In addition, 1,000 Surface Storage Tanks/Dams are likely to be constructed during the current year. Out of 2,500 Kms. of canal water courses to be lined during 1978-79 in the State, 500 Kms. are expected to be lined in the area falling under IRDP.

5.8 During 1979-80, 32,000 hectares of land is proposed to be treated under various soil and water conservation works including lining of common water courses. Out of this, 2,400 hectares are proposed to be covered in the sub-mountainous areas and 600 hectares in the border areas of the State. Out of target to line 2,500 Kms. of common water courses during 1979-80, 650 Kms. are proposed to be lined in the villages covered under IRDP. An area of 1,000 hectares are proposed to be treated for levelling and installation of underground pipelines in IRDP villages. An outlay of Rs 49.00 lakhs has been provided in the Annual Plan, 1979-80 and institutional finance to the extent of Rs 398.00 lakhs will be mobilised for the implementation of these works under Integrated Rural Development Programme.

Animal Husbandry

5.9 The programme of Animal Husbandry has been given due emphasis in the Integrated Rural Development Programme. It is proposed to provide veterinary hospital-cum-artificial insemination centre at the focal point village. During 1977-78, an expenditure of Rs 15.20 lakhs was incurred for the establishment of 90 veterinary hospitals-cum-artificial insemination centres. It is proposed to expend a sum of Rs 80.00 lakhs for the maintenance of 90 Veterinary hospitals-cum-artificial insemination centres established during 1977-78, and for setting up of 110 new hospitals during 1978-79. An outlay of Rs 85.00 lakhs has been proposed in the Annual Plan, 1979-80 for the setting-up of 117 new veterinary hospitals-cum-artificial insemination centres and maintenance of 200 hospitals likely to be opened by the end of

1978-79 in the cluster villages. The other programmes will be as follows :

- | | | |
|-----------------------------------|----|------------------------------|
| (i) training of farmers | .. | 10 farmers from each village |
| (ii) poultry units | .. | 5 units per cluster |
| (iii) piggery units | .. | 1 unit per cluster |
| (iv) sheep units | .. | 2 units per cluster |
| (v) composite demonstration plots | .. | 1 each village |
| (vi) sample demonstration plots | .. | 4 each village |
| (vii) silopits | .. | 1 each cluster |

Dairying

5.10 An outlay of Rs 4.00 lakhs has been provided in the Annual Plan 1979-80 for implementing the programme of dairying under the Integrated Rural Development Programme. It is proposed to cover 10 blocks and 5 villages in each block. Further 5 families will be identified for providing the following types of subsidies :

1. Subsidy for the construction of Model Cattle sheds for five animals @ Rs 1,000 per family (Rs. 3,000 to Rs 4,000 to be borne by the beneficiary).
2. Subsidy for the purchase of high quality fodder seed @ Rs 200 per family.

Fisheries

5.11 An outlay of Rs 3.00 lakhs has been provided in the Annual Plan 1979-80 to give 25 per cent subsidy for excavation and renovation of ponds. 48 hectares of area will be excavated and 40 hectares of area will be renovated for intensive fish culture in the State. Besides, subsidy for inputs @ Rs 500 per hectare will also be given alongwith facility of subsidy on interest of loan secured by individuals from financial institutions for excavation and renovation of their ponds.

Community Development and Panchayats

5.12 Each panchayat of focal point village is required to provide 5-10 acres of shamlat lands for construction of focal point complex. The State provides subsidy of Rs 36,000 for construction of 4 shops at the focal point under the revenue earning scheme. During 1977-78, an amount of Rs 37.73 lakhs were utilized for this work. An outlay of Rs 42.00 lakhs

has been provided for the construction of shopping complexes at focal points during the current year. In the Annual Plan 1979-80, it is proposed to construct shopping complexes at 117 focal points, for which a sum of Rs 42.00 lakhs has been earmarked. Small provision of Rs 5.00 lakhs has also been made for meeting the expenses of staff recruited at the headquarters for co-ordination and implementation of Integrated Rural Development Programme. It may be mentioned here that the Panchayats of the focal point villages have roughly contributed about Rs. 2 crores in the form of land, loan and labour during 1977-78.

Cooperation

5.13 During 1977-78, the Co-operative Department utilized an outlay of Rs 57.00 lakhs for implementing schemes in the I.R.D. villages. 62 new bank branches were opened. Assistance was provided for construction of 65 rural godowns. 100 nucleus cooperative agricultural service societies were given subsidy for opening retail shops for distribution of consumer articles in rural areas. 100 milk producers societies were given assistance in the form of share capital and managerial subsidy for streamlining the work of milk procurement in villages. During 1978-79, it is proposed to spend Rs 170.00 lakhs, out of the total outlay of Rs 450.00 lakhs for the sub-head, for opening new bank branches, construction of rural godowns, strengthening and re-organisation of agricultural service societies, Milk Producers Societies, Milk Producers Unions and re-organisation of new industrial cooperatives and the work of supply of consumer articles in rural areas. During 1979-80, an outlay of Rs 281.72 lakhs has been provided for the Integrated Rural Development Programme out of total allocation of Rs 475.00 lakhs for the sub-head. Assistance will be provided for the implementation of the following schemes :

	(Rs. in lakhs)
(i) Assistance to central cooperative banks for opening new branches	21.10
(ii) Assistance to primary agricultural service societies	76.22
(iii) Share capital contribution to primary agricultural service societies	25.00

(iv) Assistance to re-organised primary agricultural service societies as managerial subsidy	22.00
(v) Subsidy for building premises of new branches of central cooperative banks	23.40
(vi) Subsidy to milk unions for various purposes	56.00
(vii) Subsidy to milk producers societies for various purposes	15.00
(viii) Subsidy for milk federation for training of audit/inspection staff	1.00
(ix) Share capital to industrial cooperatives	2.00
(x) Additional departmental staff	40.00
Total	281.72

Industries

5.14 Integrated Rural Development Programme is being implemented in collaboration with the Punjab Khadi and Village Industries Board. During 1977-78, employment for 5152 persons was created in 1803 units with financial assistance of Rs. 38.83 lakhs. During 1978-79, a sum of Rs. 35.65 lakhs has been provided for setting up 4000 Village Industries Units and 1000 Small Scale Industrial Units in the rural area. A provision of Rs. 40.00 lakhs has been made in the Annual Plan 1979-80 for setting up 1500 Village Industries Units and 1755 Small Scale Industrial Units.

5.15 An outlay of Rs. 559.72 lakhs has been earmarked in the Annual Plan 1979-80 for implementation of various schemes of Integrated Rural Development Programme under various sub-heads of development as given below :

Sr. No.	Sub-head of Development	(Rs. in lakhs) 1979-80 Outlay
1.	Agriculture	50.00
2.	Soil Conservation	49.00
3.	Animal Husbandry	85.00
4.	Dairying	4.00
5.	Fisheries	3.00
6.	Community Development & Panchayats	47.00
7.	Cooperation	281.72
8.	Industries	40.00
	Total	559.72

CHAPTER VI

Cooperation

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 for success.

6.2. An expenditure of Rs. 879.13 lakhs was incurred for the implementation of various schemes relating to co-operation during 1974-78 and it is anticipated that an amount of Rs. 405.00 lakhs would be utilized during 1978-79. An outlay of Rs. 475.00 lakhs has been allocated for this sub-head of development for the Annual Plan 1979-80.

6.3. The main emphasis in the Plan of the Co-operation Department has been laid on the reorganisation and revitalisation of co-operative credit structure in the State as a substantial step up in the volume of credit is inevitable to achieve the desired growth rate. The Integrated Rural Development Programme of the State is also proposed to be stepped up and implemented in all the 500 clusters during 1979-80. Out of the total outlay of Rs. 475.00 lakhs, an outlay of Rs. 281.72 lakhs is proposed to be expended in the areas covered under I.R.D.P. The programme of development of Dairy Co-operatives and their Unions is another major sector on which significant stress is being laid in the Plan. Stress will also be laid on the programme of distribution of consumer articles in rural areas. It is proposed to establish 130 projects which would cater to the requirements of 670 new retail outlets to be set up with assistance to be raised from National Co-operative Development Corporation.

Credit Co-operatives

6.4. The Co-operative structure in the State is basically credit oriented. The system of providing credit has, therefore, been streamlined during the current year. 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

thrust of the Plan is, therefore, on assisting and strengthening the co-operative credit institutions to enable them to provide sufficient credit to the rural folks for raising agricultural production. In the past, the main constraint to the credit flow has been low recoveries and mounting overdues. To arrest this trend, about 10,000 Co-operative Agricultural Service Societies have been reorganised into 2500 viable units. These societies propose to advance short-term and medium-term loans to the extent of Rs. 143.50 crores during 1979-80 against the estimated achievement of Rs. 113.00 crores in 1978-79. In order to raise their borrowing capacity to match this target, provision of Rs. 45.00 lakhs has been made for contribution to their share capital. Almost all the Primary Agricultural Service Societies will be given managerial subsidy to set up regular offices with whole-time staff. The Primary Agricultural Service Societies at the focal points will be given additional subsidy to enable them to undertake marketing of agricultural produce and direct procurement of fertilizers, seeds and other inputs. The Primary Agricultural Service Societies will need additional storage capacity for stocking inputs and consumer articles. Those at the focal points will also need space to stock foodgrains. It is, therefore, proposed to provide assistance to 286 societies at focal points for construction of 500 metric tonne capacity godowns. For this purpose subsidy to the extent of 40% of the total cost is provided by the State while loan to the extent of 60% is funded by the National Co-operative Development Corporation. To enable the societies to achieve this target, an outlay of Rs. 76.22 lakhs as subsidy has been provided in the Plan and loan contribution amounting to Rs. 114.33 lakhs will be coming forth from the National Co-operative Development Corporation.

6.5. The number of co-operative bank branches will be increased from 365 in 1977-78 to 750 by 1979-80 so that each of the 500 focal points may have a branch. All the branches located at focal points will be given managerial subsidy. Provision of Rs. 21.10 lakhs has been made in the Annual Plan 1979-80 for this purpose under the scheme CN 2.2 'Assistance to Central Co-operative Banks for opening new branches'. The Banks will also be given assistance amounting to 50 per cent of the cost, @ Rs.20,000

for building bank premises at 117 focal points. An outlay of Rs. 15.00 lakhs has been provided for strengthening share capital of Central Co-operative Banks and Land Mortgage Banks. The State contributions to the Primary Agricultural Service Societies and the Banks will be reimbursed by the Reserve Bank of India as loans from the National Agricultural Credit (Long-term Operations) Fund. A token provision of Rs. 1.28 lakhs has been kept for strengthening the weaker banks for writing off bad debts of the affiliated societies. Matching contribution is to be provided by the Centre for this purpose.

Warehousing and Marketing

6.6. There are 123 Cooperative Marketing Societies in the State covering all the regulated markets. Some of these societies are in financial difficulties on account of business losses and administrative shortcomings. It is, therefore, proposed to provide share capital to 52 such societies during Sixth Plan period at the rate of Rs 50,000/- per society. During 1979-80, an outlay of Rs 4.00 lakhs has been provided for contribution to the share capital of 16 such societies @ Rs 25,000 per society. The balance 50% amount shall be contributed subsequently. There is a large potential for export of vegetables and fruits, particularly to the Middle East. Accordingly provision has been made for assistance to Markfed for developing such exports. It is proposed to provide assistance of Rs 1.50 lakhs in the form of margin money and Rs 0.50 lakh as subsidy for technical and marketing cell.

Milk and Dairy Co-operatives

6.7. In pursuance of the policy of giving high priority to dairying and milk supply, considerable emphasis has been laid on the development of Dairy Cooperatives during 1979-80. Out of total outlay of Rs 475.00 lakhs for the sub-head, a sum of Rs 85.00 lakhs has been allocated for various schemes falling under the programme of Dairy Cooperatives. Cooperation Department has been allotted four districts viz. Jullundur, Kapurthala, Hoshiarpur and Sangrur for concentrating their dairy activities. The Department has already set up two milk plants at Hoshiarpur and Jullundur with rated capacity of 60,000 litres and 50,000 litres per day respectively. Third milk plant is being installed at Sangrur. It is expected to be commissioned during the current year.

6.8 In order to streamline the work of milk procurement and processing, it is contemplated to organise 600 Milk Producers Cooperative Societies and 2 Milk Unions during 1979-80. The State level Milk Federation and two Milk Unions will be provided share capital of Rs 2.00 lakhs each to strengthen their capital base to enable them to do the work of milk procurement and taking up marketing activities of milk and milk products on an extensive scale. An outlay of Rs 2.00 lakhs has been provided to the Milkfed to strengthen its technical cell for providing assistance to the Milk Unions for the proper maintenance of milk plants and marketing of their products.

6.9 It is proposed to reorganise and revitalise the Milk Producers Cooperative Societies on the pattern of Amul Dairy of Anand so that these cooperatives may be in a position to procure and supply milk to all the milk plants functioning in the State. The development of Milk Unions and societies is necessary as well as desirable to eliminate the middlemen between the producers and the milk plant, enable the members to avail of the institutional finance and assure remunerative price for their milk. An outlay of Rs 61.00 lakhs has been provided in the Annual Plan 1979-80 for the scheme CN 8.4 'Subsidy to Milk Unions for (i) Managerial cost; (ii) supply of chemicals free of cost to milk societies for testing milk; (iii) charges on transport of milk from villages to milk plants; (iv) purchase of diesel jeeps (two per union); (v) purchase of audio visual aids for extension programme; (vi) establishment of procurement and inputs wing; and (vii) expenses of the spear-head teams. An outlay of Rs 15.00 lakhs has been earmarked under the scheme CN 8.5, Assistance to Milk Producers Societies for (i) Managerial cost; (ii) purchase of milk testing equipment; and (iii) first-aid, artificial insemination boxes and cattle crates. Managerial subsidy @ Rs 1500 is provided to the Milk Producers Co-operative Societies for two years for effective functioning of these societies. Assistance will be given to 200 Milk Producers Cooperative Societies for the first time and 400 Milk Producers Cooperative Societies will be given managerial subsidy for the second time during 1979-80.

Cooperative Sugar Mills

6.10 One Cooperative Sugar Mill has expanded its crushing capacity from 1000 TCD to 2000 TCD by erecting additional plant during the current year.

During 1979-80, an outlay of Rs 20.00 lakhs has been provided for expansion of the Morinda Cooperative Sugar Mills Ltd. A sum of Rs 1.00 lakh has also been provided for strengthening the technical cell with the Sugar Mills Federation under this programme.

Industrial Cooperatives

6.11. In order to strengthen, revitalise and develop industrial cooperatives of artisans, craftsmen and technicians, provision has been made for their assistance in the form of share capital contribution, loans and subsidies. During 1979-80, it is proposed to contribute share capital of Rs. 10,000 each in 45 industrial cooperative societies. Provision of Rs. 1.50 lakhs has also been made to give subsidy in the form of concessional rate of interest to industrial and Handloom Weavers Cooperative Societies according to their eligibility. A small provision of Rs. 0.50 lakh has also been kept for the purchase of improved appliances by Handloom Weavers Cooperative Societies. Subsidy to the extent of 75 per cent and loan to the extent of 25 per cent is provided for the purpose. The Punjab Handloom Weavers Apex Cooperative Society is arranging the supply of raw materials and marketing of the products of the affiliated societies. It is also providing technical know-how particularly regarding new pattern of designs to popularise the marketing of handloom products. Managerial subsidy of Rs. 0.50 lakh and share capital of Rs. 1.50 lakhs has been provided for the Apex Level Handloom Society in the Annual Plan 1979-80. Matching contribution as share capital would be available from the National Cooperative Development Corporation. An outlay of Rs. 0.50 lakh has also been earmarked for providing subsidy to 10 women industrial cooperative societies, engaged primarily in garment making, for engaging craft teachers for training their members.

Consumer Cooperatives

6.12. There are 16 Central Cooperative Consumers Stores and the State Cooperative Consumers Federation. The Central Cooperative Consumers Stores are spread in urban areas. The State Level Consumers Federation, the Apex body of Consumer Co-operatives, meet the wholesale requirements of consumer articles of Central Cooperative Consumers Stores, Primary Stores and rural retail outlets. Share capital of Rs. 2.00 lakhs will be provided to the State

Cooperative Consumers Federation and Rs. 1.00 lakh will be contributed to four Central Cooperative Consumers Stores which are not suffering concurrent losses. Five Primary Cooperative Consumers Stores to be organised mainly in industrial Units, will be provided share capital of Rs. 0.50 lakh at the rate of Rs. 10,000 per store. Subsidy of Rs. 50,000 will be provided to State Level Consumers Federation to meet the expenses on account of business and financial management cell. Some Central Cooperative Consumers Stores are in financial difficulties on account of business losses and administrative short comings. In order to rehabilitate such stores, it has been considered necessary to provide subsidy to these stores and the retail outlets of Constofed for strengthening them. An outlay of Rs. 7.00 lakhs has been provided for this purpose.

6.13. The programme of distribution of consumer articles in rural areas has been given added impetus from 1977-78. A sum of Rs. 103.67 lakhs was utilized for establishing 54 projects served by 1300 retail shops during 1977-78 in 57 blocks of the State. It is anticipated that 670 new retail outlets will be established during 1978-79 with financial assistance of over Rs. 200.00 lakhs from N.C.D.C. It is envisaged to establish 130 additional projects for catering to the requirements of 670 new retail outlets with financial assistance of Rs. 200.00 lakhs to be raised from National Cooperative Development Corporation during 1979-80.

Cooperative Education, Research and Training

6.14. The programmes include (i) education and leadership training of members of cooperatives for which an outlay of Rs. 2.00 lakhs has been provided in the Annual Plan 1979-80 ; (ii) training of cooperative subordinate personnel for which provision of Rs. 1.00 lakh has been kept ; (iii) study tours—Rs. 0.50 lakh; and (iv) subsidy for research and case studies of cooperative activities—Rs. 0.50 lakh.

Administration and Publicity

6.15. The expenditure on account of additional posts of inspectors cooperative societies provided under Integrated Rural Development Programme will be met on the Plan side for which provision of Rs. 40.00 lakhs has been made in the Plan for 1979-80. An additional amount of Rs. 5.00 lakhs has been proposed for additional staff at the headquarters and in the field

to cope with the greatly enlarged activities of the Cooperative Department. A small provision of Rs. 1.00 lakh has also been made for Information and Publicity.

Cooperative Audit

6.16. Regular, timely and effective audit is indispensable for proper functioning of the cooperative institutions. Additional staff is necessary both for proper audit of the existing institutions and to cope with the envisaged, expansion of this sector. With the introduction of cheque system, the work in the cooperative bank branches has tremendously increased. The work of Primary Agricultural Service Societies located at focal points has also increased with the re-organisation of PASSs, direct lifting of fertilizers by the societies at focal points and participation of these

societies in marketing, procurement and supply of essential commodities in rural areas. For effective audit of bank branches and Primary Agricultural Service Societies located at focal points, an outlay of Rs. 12.00 lakhs has been earmarked for providing additional Cooperative Audit Inspectors. A sum of Rs. 0.83 lakh has been provided for additional staff for the audit of non-credit societies. Provision of Rs. 3.12 lakhs has been made for strengthening the audit staff at the headquarters and in the field for effective supervision and proper implementation of the guidelines/instructions.

Physical Targets

6.17. The position in 1977-78 and anticipated achievement in 1978-79 and the projected physical targets for 1979-80 are given in the table below :

TABLE 6.1 : ACHIEVEMENT AND TARGETS IN THE COOPERATIVE SECTOR

Facility/Service	Unit	1977-78	1978-79		1979-80
			Target	Anticipated Achievement	Proposed Target
0	1	2	3	4	5
1. Cooperative banks					
.1 Branches	.. No.	365	750	750	--
.2 deposits	.. Rs. crores	145	165	165	185
2. Primary Agricultural Service Societies					
..	No.	5	2500	2500	2500
3. Agricultural loans advanced during the year					
.1 short term	.. Rs. crores	78.00	110.00	110.00	140.00
.2 medium-term	.. ,,	2.50	3.00	3.00	3.50
.3 long-term	.. ,,	14.02	13.00	13.00	14.00
(a) ordinary	.. ,,	2.25	22.60	20.60	30.00
(b) special under ARDC	.. ,,				
4. Loans to small and marginal farmers					
.1 Short-term	.. Percentage of total agricultural loans	40	45	42	43
.2 long-term	.. ,,	50	60	52	55
5. Overdues of short-term agricultural loans					
.1 Central Cooperative Banks	.. Percentage of demand	27.6	24	24	22
.2 Primary Agricultural Credit Societies	.. ,,	28.0	25	25	23
6. Fertilizer retailed by cooperatives					
.1 quantity	.. 000 tonnes	1150	1300	1300	1400
.2 Value	.. Rs. crores	78	90	90	110

Facility/Service	Unit	1977-78	1978-79		1979-80
			Target	Anticipated Achievement	Proposed Target
0	1	2	3	4	5
7. Rural godowns at the end of the year					
.1 godowns	No.	2571	2852	2740	3057
.2 capacity	000 tonnes	398	451	483	581
8. Milk producers cooperatives					
.1 primary societies	No.	1947	3280	2953	3553
.2 unions	No.	5	5	8	10

Irrigation and Flood Control

Punjab's success in agriculture has been due, first and foremost, to irrigation. In 1977-78, 81.6 per cent of the cropped area was under irrigation. By carefully husbanding the State's water resources, and by taking some bold initiative, it is projected to add another half a million Hectares to the total of 6.25 million Hectares of irrigated area during the Sixth Plan period. The addition to irrigation potential will be even larger.

7.2 For the Fifth Five Year Plan (1974-79) the original outlay for Irrigation sector was fixed at Rs. 48.59 crores (Rs. 34.00 crores for Major and Medium Irrigation and Rs. 14.59 crores for Minor Irrigation). This outlay was subsequently revised to Rs. 91.05 crores (Rs 65.54 crores for Major and Medium Irrigation and Rs. 25.51 crores for Minor irrigation). With the termination of the Fifth Plan at the close of 1977-78 the revised outlay amounted to Rs. 58.64 crores (Rs 38.47 crores for Major and medium irrigation projects and Rs. 20.17 crores for Minor irrigation projects). However the actual expenditure incurred during the Fifth Plan (1974-78) has been Rs. 63.85 crores (Rs. 49.57 crores for Major and Medium Irrigation schemes and Rs. 14.28 crores for Minor Irrigation schemes).

7.3 An outlay of Rs. 284.01 crores (Rs. 253.06 crores for Major and Medium Irrigation schemes and Rs. 30.95 crores for Minor Irrigation schemes) has been envisaged for this sector for the Sixth Plan period (1978-83). During the year 1978-79 it is anticipated that Rs. 29.17 crores (Rs. 24.36 crores for Major and Medium Irrigation schemes and Rs 4.81 crores under Minor Irrigation schemes) would be spent against the original outlay of Rs. 32.41 crores (Rs. 27.07 crores for Major and Medium Irrigation schemes and Rs. 5.34 crores for Minor Irrigation schemes).

7.4 An outlay of Rs. 39.70 crores is envisaged for the Annual Plan 1979-80 out of which Rs. 34.50 crores are provided for Major and Medium Irrigation programmes and Rs. 5.20 crores for Minor Irrigation works. The Irrigation programmes include (i) the multipurpose projects ; (ii) the major and medium irrigation schemes ; (iii) the water development schemes ; and (iv) minor irrigation schemes of the departments of Irrigation, Agriculture and

the Punjab State Tubewell Corporation. These programmes are outlined below :—

THE MULTIPURPOSE PROJECTS

Thein Dam Project

7.5 This is a major multipurpose project of the State being taken up during the Sixth Plan. The project (together with stage-II of the upper Bari Doab Canal Hydel scheme) seeks to utilise the waters of River Ravi for irrigation, power generation and to control floods. It envisages a 147 metre high earth-core gravel shell dam across Ravi at Thein, about 24 km upstream of the Madhopur Head Works. It will store 2.98 million acre feet(maf) of water, of which 1.9 maf will be the utilisable storage. The irrigation potential of the project has been estimated at 3,48,000 hectare on completion. The power house will have an installed capacity of 480 MW (4×120). Besides, stage II of UBDC hydel project will add 3 units of 15 MW each. The estimated cost of the project is 263 crores and the completion schedule is 8 years. A sum of Rs. 661.00 lakhs has already been spent on this project upto the end of the year 1977-78. During the current year a further amount of Rs. 540.00 lakhs is likely to be spent. This amount is being utilised for undertaking some preliminary survey and investigation works, land acquisition, procurement of machinery, setting up of railway line and work on the construction of staff colony etc. It is proposed to spend Rs. 1350.00 lakhs on this project during the year 1979-80. With this Plan provision it is programmed to undertake (i) pre-construction works such as land acquisition, investigations and the connecting railway, roads and bridges ; (ii) purchase of construction equipment and machinery and construction of job facilities, and (iii) works including diversion tunnel, transmission lines and sub-stations etc.

Shahpur Kandi Project

7.6 The Shahpur Kandi Project envisages construction of a barrage across the Ravi downstream of the proposed Thein Dam site and upstream of the existing Madhopur head works. The project will irrigate 33,000 ha. in J & K State and yield an installed capacity of 94 MW (2x47). The Project

is estimated to cost Rs. 68.36 crores. It is proposed to take up the real construction of the project in 1981-82 to synchronise the completion of this project with the completion of the Thein Dam, with which it is linked. Upto the end of the year 1977-78 an expenditure of Rs. 1.00 lakhs has already been incurred on survey and investigation work of this project. Rs. 1.00 lakh is likely to be spent during the year 1978-79. Another sum of Rs. 1.00 lakh has been proposed for this project for the Annual Plan 1979-80 for investigation, survey and basic planning.

Diversion Weir of Shahnehar Canal

7.7 Shahnehar is an inundation canal taking off a few kilometres down stream of the Pong Dam on the river Beas. The construction of the dam has resulted in reduced supply of water in the river. In order to divert sufficient water into the canal it has been decided to construct a barrage across the river. This will make it possible to provide regular and regulated supplies for feeding the existing Shahnehar canal Irrigation system. The approved cost estimate of Rs. 11.59 crores is now expected to go upto Rs. 21.33 crores. Upto the end of the year 1977-78 an expenditure of Rs. 1315.71 lakhs has already been incurred on the project and another Rs. 471.90 lakhs are likely to be spent during the year 1978-79. It is proposed to allocate Rs. 290.00 lakhs for this project for the year 1979-80 so as to complete the project during the year. The works to be undertaken relate to ; (i) remaining work of common bund and right bund ; (ii) lining of feeder channel ; (iii) procurement of gates and gearing of barrage.

Dholbaha Dam Project

7.8 The Dholbaha Dam Project involves construction of an earth and rockfill dam across the Dholbaha choe (District Hoshiarpur) with a maximum height of 32.2 metres. The stored flood waters of the choe will be utilised to irrigate 6,960 hectares. An additional area of 2700 ha. will benefit from flood protection. Some part of the bed of the choe will also be reclaimed for cultivation. The latest estimate of cost is Rs. 3.90 crores, of which Rs. 0.25 crore was incurred during 1974-78. An expenditure of Rs. 45.00 lakhs is expected to be incurred during the year 1978-79. A provision of Rs. 75.00 lakhs has been made in the Annual Plan 1979-80 to cover the expenditure on (i) acquisition of land ; (ii) procurement of machinery and equipment; (iii)

works relating to construction of spillway and construction of residential and non-residential buildings; (iv) survey etc.

Low Dams in Kandi Area

7.9 The sub-montane region of the State is strewn with choes which have badly cut and damaged the area near the foot-hills. During the rainy season, flood waters laden with coarse sand/silt pour down the choes and cause great damage in the plains. In order to check this destruction and also provide irrigation facilities, it is proposed to construct low dams in the catchment areas of Chobal, Siswan Nadi, Patiala Ki Rao, Maili, Soan Nadi and Sirsa Nadi choes, as also the Janauri Dam. Rs. 23.00 lakhs have been provided in the Annual Plan 1979-80 for topographical, hydrological and geological investigations. Besides, pre-construction items of works relating to proposed Janauri dam are to be taken up.

Balance Expenditure on Beas Projects

7.10 The Beas Projects Unit-I and II are expected to be completed during the year 1978-79. To meet the balance expenditure on this project, Rs. 62.00 lakhs have been provided. In addition to this, Rs. 10.00 lakhs for Beas Project Unit-I (Extension) and Rs. 54.00 lakhs for Beas Project Unit-II (Extension) have been provided in the Annual Plan 1979-80 for the construction of these projects.

MAJOR-MEDIUM IRRIGATION SCHEMES

Extension of Non-perennial Irrigation to Areas in U.B.D.C. Tract

7.11 In the U.B.D.C. tract, large areas were without irrigation facilities. The scheme 'Extension of Non-Perennial Irrigation to Areas in U.B.D.C. tract' envisages construction of new distributories and minors as well as remodelling of the existing channels to increase their discharge capacities. On completion, the scheme is expected to generate additional irrigation potential of 2,35,000 hectares. Upto the end of the year 1977-78 an expenditure of Rs. 501.20 lakhs had been incurred. Another sum of Rs. 18.00 lakhs is likely to be spent on this scheme during the year 1978-79. The cost-estimate of Rs. 5.90 crores is being revised. A provision of Rs. 10.00 lakhs has

been made for the Annual Plan 1979-80 and it is expected to create an additional irrigation potential of 3000 hectares.

Utilisation of Surplus Ravi-Beas Waters

7.12 Under this project, a part of the surplus Ravi-Beas waters were to be utilised besides remodelling of existing irrigation channels, to increase the water allowance from 2.75 to 3.5 cusecs per thousand acres for the area lying to the South-West of the Ferozepur-Jakhal line and from 2.25 to 2.87 cusec for the areas lying on Samrala-Rajpura and South of Patiala tract. However, following the centre's unfavourable award regarding the inter-state distribution of the surplus waters, the work on this project has slowed down. The revised estimated cost of the project is Rs. 987.00 lakhs. Up to the year ending 1977-78 an expenditure of Rs. 408.15 lakhs had been incurred. During the year 1978-79 another Rs. 168.00 lakhs are likely to be spent on this project. The following items have been additionally included in the Project which have increased the cost estimates of the project.—

- (i) extension of Mamdot Disty ;
- (ii) extension of canal irrigation to the Malerkotla area ;
- (iii) Project estimate for raising banks of Sirhind Feeder Channel and Sidhwan Branch ; and
- (iv) Remodelling of first Patiala Feeder.

7.13 Therefore in sharp contrast to the earlier years when only small allocations were being made for this project and after the unfavourable award of the Central Government the progress of the project had to be slowed down considerably, for the Annual Plan 1979-80 an enhanced allocation of Rs. 110.00 lakhs has been made to accommodate the new schemes included in the project. The additional irrigation potential to be created during 1979-80 is 20,000 hectares against 5000 hectares anticipated during 1978-79.

Extension and Improvement of Shahnehar Canal System

7.14 With the completion of Shahnehar Barrage across river Beas, regular and regulated irrigation supplies would become available for feeding the Shahnehar Canal system. This system at present

covers 26,316 hectares. The enlarged and regular supply of water makes it possible to increase the irrigated area to 86,320 hectares by extending irrigation to non-irrigated areas. The total cost is estimated at Rs. 10.63 crores. In order to cover the Kandi area of Hoshiarpur district, the alignment of proposed Hoshiarpur canal is proposed to run on higher contours. The area in question has no mode of irrigation facilities at present. Revised proposal which is being formulated would raise the cost estimates of the project to Rs. 22.00 crores. Up to the end of the year 1977-78 an expenditure of Rs 169.02 lakhs had been incurred on this project. Another Rs. 135.00 lakhs are likely to be spent during 1978-79. For the Annual Plan 1979-80 a provision of Rs. 140.00 lakhs has been made for undertaking the following works :—

- (i) acquisition of land ;
- (ii) procurement of machinery and equipments ;
and
- (iii) works relating to excavating and lining of Hoshiarpur canal, lining of existing channels of Shahnehar canal system, construction of bridges, drains, crossing etc. and the construction of residential and non-residential buildings and stores.

Lining of Channels

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

7.16 The total length of the channels, main canals, branches, distributories and minors is 14,882 Km. Of this, 506 Km of main canals had been constructed as lined channels from the very beginning. Up to 1977-78, a length of 744 Km had been lined. A further length of 370 Km is likely to be lined during the year 1978-79. An expenditure of Rs. 876.05 lakhs had been incurred on this scheme up to the end

of the year 1977-78 and a sum of Rs. 705.00 lakhs is likely to be spent during the year 1978-79. A provision of Rs.1250.00 lakhs has been made for the Annual Plan 1979-80 with which it is expected to line another 730.Km, thus raising the total to 1844 Km by the end of 1978-79. A project covering the 4 years period 1979-83, at an estimated cost of Rs. 96.00 crores has been proposed to the I.D.A. (World Bank), for financial assistance.

Construction of New Distributories and Bridges

7.17 Under this scheme following distributories/minors are proposed to be constructed/remodelled/extended. Changa distributory ; New Dhudal and Rurki distributory ; Malerkotla distributory ; Alamwala Minor ; Changa distributory (extension) ; Subelwala minor ; Rania minor ; Kalas minor ; Kalyana minor ; Kot Budha minor ; Talwandi sub-minor and Mehdipur Sub-minor. The construction of new channels and the remodelling of old ones will necessitate new bridges. The construction of new link roads will also do the same. The provision for the Annual Plan 1979-80 for both the items has been fixed at Rs. 20.00 lakhs. Following schemes are proposed to be taken up during the year 1979-80.

- (i) providing irrigation facilities to Changa bet area by construction of new Changa Distributory off-taking from 2450-R of Eastern Canal ;
- (ii) extension of Changa Distributory RD 52900 to 68000 ;
- (iii) extension of Subelwala Minors ;
- (iv) construction of Kalyan Minor off-taking RD. 10900 of Bhadaur Disty;
- (v) project estimate for supplementing supplies by lift to chaks of tail reach of kotli Minor of Jaitu Disty.

Modernisation of Existing Canals

7.18 The scheme "Modernisation of existing canals" covers, (i) provision of adequate regulators and escapes and replacement of Kari regulation system by mechanically operated gates; (ii) provision of accurate

measuring devices for water diverted at various points of the canal system ; (iii) installation of a modern communication system ; and (iv) remodelling of canals. The provision for the Annual Plan 1979-80 is placed at Rs. 5.00 lakhs.

WATER DEVELOPMENT

Investigation of Schemes

7.19 With the almost complete harnessing of the available surface water resources, attention will have to be concentrated on making the most efficient use of water. It will be necessary to work out schemes for the improvement and modernisation of the existing irrigation system as well as for the introduction of new irrigation practices and modern water management techniques. For this purpose it will be necessary to investigate the water requirements of crops, the manner in which flow irrigation is actually utilised by the farmers, the prevailing inter-relationship of ground-water and canal water irrigation. In view of new requirement for investigation and utilisation of our water resources as visualised above it may be necessary to bring the concerned agencies under one organisation which may be entrusted with the overall responsibility for planning water resources development. An Annual Plan outlay of Rs. 45.00 lakhs has been set for the year 1979-80.

Research Schemes

7.20 For research schemes of a technical nature to be carried out under the aegis of Irrigation Power Research Institute, Amritsar a provision of Rs. 5.00 lakhs has been made in the Annual Plan 1979-80. A list of the research schemes from which the schemes for the year 1979-80 would be taken up is at Annexure I.

7.21 Details regarding targets and achievements of potential created and utilisation up to the end of 1977-78 and achievement 1978-79 and target for 1979-80 in respect of Major and Medium Irrigation Projects are given at Annexure-II. Details regarding cost estimates, date of start, expected date of completion, status of the project, expenditure incurred up to the end of 1977-78, anticipated expenditure during 1978-79, spill over requirement after 1978-79 and outlay for 1979-80 in respect of main Irrigation projects are given at Annexure-III.

ANNEXURE-I

Details of the Research Schemes

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

ANNEXURE—II

ANNUAL PLAN 1979-80

MAJOR AND MEDIUM IRRIGATION PROJECTS—BENEFITS—TARGETS AND ACHIEVEMENTS

(000' Hectares)

Name of Scheme	District to be benefitted	Ultimate Irrigation Potential	COMMULATIVE BENEFITS AT THE END OF				
			(1977-78) Actual		1978-79 Anticipated		1979-80 Proposed
			Pot.	Uti.	Pot.	Uti.	Pot.
1	2	3	4	5	6	7	8
A. Continuing Schemes							
<i>1. Major Schemes</i>							
(i) Extension of non-perennial Irrigation to areas in UBDC tract	Gurdaspur and Amritsar	235	178.5	176.5	185.5	183.5	188.5
(ii) Utilisation of surplus Ravi-Beas waters	(1) Bhatinda (2) Ferozepur (3) Faridkot (4) Sangrur	235	155	152	160	158	180
Total		470	333.5	328.5	345.5	341.5	368.5
B. New Schemes of Fifth Five-Year Plan							
<i>(I) Major Schemes</i>							
(i) Thein Dam	Gurdaspur Amritsar	348	—	—	—	—	—
(ii) Dholbaha Dam	Hoshiarpur	5	—	—	—	—	—
(iii) Extension and Improvement of Shahnehar Canal	Hoshiarpur Jullundur	51	—	—	1	1	1
(iv) Lining of Channels	All Districts	345	16	16	27	27	48.5
Total		749	16	16	28	28	49.5
<i>(II) Medium Schemes</i>							
(i) Construction of New Distributories and Minors	Faridkot	—	—	—	2	2	4
Total		—	—	—	2	2	4
Grand Total		1,219	349.5	344.5	375.5	371.5	422

ANNEXURE III

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

(Rs. in lakhs)

Sr. No.	Name of Project/ Scheme	Latest estimated cost	Status of Project	Date of start	Date of completion	Expendi- ture incurred upto 1977-78	Antici- pated expendi- ture 1978-79	Spill over after 1978-79	Provision 1978-83	Outlay 1979-80
1	2	3	4	5	6	7	8	9	10	11
1	Beas Project Unit-I	1170.45** *38,257.00	Stands cleared from Govt. of India	1959-60	1978-79	1061.91	51.00	57.54	119.00	37.00
2	Beas Project Unit-I (Extension)	108.72** *3553.00	"	1978-79	Not fixed	—	10.00	98.72	98.00	10.00
3	Beas Project Unit-II	4949.30** *25980.00	"	1959-60	1978-79	4741.53	120.00	87.77	305.00	25.00
4	Beas Project Unit- II (Extension)	588.97** *3092.83	"	1978-79	Not fixed	—	50.00	538.97	538.00	54.00
5	Thein Dam	26300.00	Govt. of India have decided to clear this Project	1977-78	1985-86	661.00	540.00	25099.00	9795.00	1350.00
6	Diversion Weir of Shahnehar	2133.00	Stands cleared from Govt. of India	1972-73	1978-79	1315.71	471.90	345.39	885.00	290.00
7	Dholbaha Dam	390.00	"	1977-78	1979-80	25.27	45.00	319.73	370.00	75.00
8	Extension of non- perennial irri- gation to areas in UBDC tract	590.00	Clearance awaited from Govt. of India	First Plan	Sixth Plan	501.20	18.00	70.80	114.00	10.00
9	Utilisation of sur- plus Ravi Beas waters	987.00	"	1967-68	"	408.15	168.00	410.85	266.00	110.00
10	Extension and Improvement of Shahnehar Canal	1063.00	"	1975-76	1980-81	169.02	135.00	758.98	550.00	140.00
11	Lining of Channels	30,000	Under sanction	1974-75	Seventh Plan	876.05	705.00	28418.95	10550.00	1250.00

*Total cost of the Project.

**Punjab State Share.

MINOR IRRIGATION

7.22 Punjab is well endowed with ground water resources. Terrain and sub-soil conditions facilitate exploitation. During the last decade or so the Punjab farmer, encouraged by the Government and assisted by institutional finance, has gone all out to exploit the ground water resources. The number of tube-wells increased from 25,361 in 1965-66 to 225,556 in 1976-77, that is, 9 times in 11 years. Wells, have been mostly fitted with pumping sets. Electricity consumption in agriculture is now close to 45 per cent of the total State consumption. The main users are the large number of tubewells and pumping sets. In the mid-Sixties, Government canals were the predominant mode of irrigation accounting for 56.8 per cent of the net irrigated area. By 1976-77, their share had declined to 43.2 per cent. On the other hand, the share of wells, mostly tubewells and pumping sets, had increased from 40.7 per cent to 56.5 per cent. This trend is expected to continue for some years more. The supply of electricity for tubewells irrigation at a subsidised rate has given further impetus to exploitation of ground water resources.

7.23 Government's role in the development of tube-well irrigation has been mostly promotional. Its direct investment in minor irrigation has been limited to deep tubewells and a few lift and flow irrigation schemes. The promotional role has included (i) investigation of ground water sources, (ii) lining of watercourses, and (iii) mobilisation, mostly through the land mortgage banks, of institutional finance.

7.24 For the year, 1979-80, a new activity would be to experiment with and promote new techniques such as sprinkler irrigation. The responsibility for development of minor irrigation is shared by three organisations, namely, the Department of Irrigation and Agriculture and the Punjab State Tubewell Corporation. The role of the department of soil conservation in lining of water courses has been described in another chapter.

Irrigation Department.

7.25 The scheme "Integrated Utilisation of Ground Water Resources" aims at investigating and evaluating the assured stable ground water potential of the State towards preparing an optimum integrated development plan covering both ground and surface water resources. Besides the system planning study, exploratory bores will be drilled for locating aquifers for the installation of tube-wells. Under

another scheme, it is proposed to create additional irrigation potential of about 700 ha. during 1979-80 by sinking tube-wells in the difficult areas of Mahilpur Block (District Hoshiarpur), the Sangrur and Bhawanigarh Block (District Sangrur) and the U.B.D.C. tract. It is proposed to undertake small lift and flow irrigation schemes in areas where irrigation from existing canals is not possible or is inadequate. An additional irrigation potential of 1,500 ha. is expected. Pacca ghats are to be constructed on canals to prevent damage from the development of kacha ghats by the inhabitants of nearby villages for bathing, washing and providing drinking facilities to their cattle. Among the trial bores drilled by the Central Ground Water Board for exploration of ground water bearing strata and aquifers, the successful ones are to be converted into irrigation tubewells to add 1000 ha. to the irrigation potential. Sprinkler irrigation schemes will be introduced in coarse, sandy, undulating and gravelly soils where percolation losses from surface irrigation are high and where frequent irrigation is required because of the poor water holding capacity of the soil. The expected additional irrigation potential is 600 ha. Deep tube-wells in areas like the Mahilpur Block (District Hoshiarpur) which have sandy soil and undulating terrain require underground pipe system to convey the water to the fields. The Annual Plan, 1979-80, therefore, includes a scheme for providing the Government tubewells with underground pipe systems. The total provision for the irrigation Department is Rs 60.00 lakhs.

Agriculture Department

7.26 The most important scheme of the department of Agriculture relate to Ground Water Cell (Strengthening of Ground Water and Surface Water Organisation). It is a Centrally Sponsored Scheme and the work relates to the investigation and development of ground water resources. There is also a provision for subsidy on sinking/repairs of percolation wells, tubewells and pumping sets. The total provision for Annual Plan, 1979-80 for the above schemes is Rs 10.00 lakhs.

Punjab State Tubewell Corporation

7.27 The Punjab State tubewell Corporation was set-up in 1970 with an authorised capital of Rs 10.00 crores to take up the work of installation of deep tubewells. The two main programmes of the

Punjab State Tubewell Corporation are (i) sinking of tubewells (ii) lining water courses. The major work of the Corporation since its inception has

been the installation of the tubewells. The various stages of the work in respect of the installation of tubewells are given below :—

Table 7.1

Stage	Number at the end of the year		
	1977-78	1978-79 Anticipated	1979-80 Targets
1	2	3	4
(1) Drilled	632	707	777
(2) Developed	601	676	746
(3) Completed	476	551	621
(4) Energised	459	534	604

7.28 The work of lining of water courses was taken up by the Corporation during 1975-76. Targets and achievements in respect of lining of water courses for the year, 1975-76, 1976-77, 1977-78, 1978-79 (anticipated) and target for 1979-80 are in the table given below :—

Table 7.2 (Kms)

Year	Target	Achievement
1975-76	600	159
1976-77	600	506
1977-78	2,000	1,184
1978-79 (anticipated)	2,500	2,500
1979-80 (Targets)	1,800	..

7.29 During the Annual Plan, 1979-80 it is programmed to install 70 tubewells at an estimated cost of Rs 107.52 lakhs. Out of the total cost of Rs 107.52 lakhs, the Government involvement at 25 % work out to Rs 26.88 lakhs and the balance amount of Rs. 80.64 lakhs would be raised from other financial institutions under A. R. C. refinance programme. Though initially it was

programmed to line 2,500 Kms of water courses during 1979-80 but keeping in view the constraint of resources it is proposed to line 1,800 Kms of water courses at an estimated cost of Rs 807.50 lakhs. Government/P.S.T.C. contribution at 20 per cent would be Rs 161.50 lakhs and remaining amount of Rs 646.00 lakhs would be raised from financial institutions.

7.30 To maintain debt equity ratio as 1:3 as stipulated by ARDC under its terms and conditions for financing various schemes an amount of Rs 35.00 lakhs has been provided. An amount of Rs 183.87 lakhs has been provided for repayment of principal and interest. Rs 42.75 lakhs have been provided by the PSTC as subsidy for losses suffered in less running of tubewells than provided in the Project Estimates. The total requirement of PSTC therefore works out to Rs 450.00 lakhs for the Annual Plan, 1979-80.

FLOOD CONTROL AND DRAINAGE

7.31 Floods have been a recurrent menace in recent years. Concentrated downpours, denuded hills, choked drains, silted choes, obstructed natural drainage as a result of construction of roads, canals, distributaries and urban habitations, are some of the principal causes. Now that agriculture is much more input-intensive, the impact of floods, particularly on the farming community, is all the more crippling. And, as Punjab grows greener, it will, most probably, attract heavier rains.

7.32 By 1977-78, 821 Kms of flood protection embankments and 5,493 Kms of surface drains had been completed. These provided relief/protection to about 2.4 million hectares as against the estimated total flood and flooding prone area of 3.7 million hectares. During the year, 1978-79 another 20 Kms. of embankments would be constructed and 176 drainage channels are likely to be completed. This would provide relief to further 80,000 Hectares of area. Up to the end of the year, 1977-78, an expenditure of Rs 663.80 lakhs has been incurred on the flood control and drainage works. Another Rs 1255.00 lakhs are anticipated to be spent during the year, 1978-79. For the Annual Plan, 1979-80, it is programmed to construct 19 Kms. of new flood protection embankments and complete 125 Kms of surface drains. On com-

pletion, these works are expected to provide relief/protection from floods and flooding to additional area of about 40,000 Hectares. An outlay of 750.00 lakhs is proposed for the Annual Plan, 1979-80 to carry out these works.

7.33 The above, however, is only a temporary and inferior solution. Water is too precious an asset to be just drained out. The real long term solution lies in impounding it for meeting the growing requirements of modern agriculture, industry and daily life. Unfortunately, this solution does not lie with Punjab alone. It calls for mutually beneficial co-operation, on a fair basis among the regional States, particularly Punjab, Himachal and J. & K. Future Planning will have to be for this perspective.

CHAPTER VIII

Power

Electric energy is the only form that is available for accelerating the development process and therefore, power development is the key to the economic prosperity and well-being of the Punjab State. The introduction of High Yielding Varieties of seed and the use of other inputs has tremendously increased the demand for power for assured and regular water-supply, which cannot entirely be met by the available surface water. The progressive peasantry of the State has taken to the exploitation of ground water by sinking tube-wells as a result of which demand for power has increased manifold. The Government's policy for creating more potential for the installation of big and small industrial complexes has also contemplated for more rise in demand of power. In view of its vital role in the process of economic development, the power sector has always been accorded the top-priority in the matter of allocation of funds right from the inception of the planning era. With the termination of Fifth Plan in 1977-78, the revised outlay for the four years period 1974-78 works out to Rs. 307.48 crores. The expenditure incurred during this period, however, amounted to Rs. 303.54

crores. The anticipated expenditure for 1978-79 has been accounted for Rs. 82.17 crores against the original outlay of Rs. 91.30 crores. An outlay of Rs. 98.00 crores has been proposed for the annual plan 1979-80.

REQUIREMENTS

8.2 The position of power shortage became critical from the year 1971-72 onward. From 1971-72 to 1976-77, Punjab's economic development, particularly industrial development, has been greatly hampered by acute power shortage. It is only in 1977-78 that the position had some what eased. During 1979-80, the expected energy requirement is 6123 MKWH whereas the availability will be about 5433 MKWH according to the assessment made by S.E.B.

8.3 The Tenth Annual Electric Power Survey conducted by the Central Electricity Authority has given the requirement and availability of the electric power in the State up to 1983-84 in the following table :—

Year	Installed capacity (MW)	Energy availability (MKWH)	Energy requirement (MKWH)	Surplus / Deficit (+ or -)
1	2	3	4	5
1978-79	1651	6662	5776	(+)886
1979-80	1947	7774	6325	(+)1449
1980-81	1947	8187	6922	(+)1260
1981-82	1999	8480	7534	(+)946
1982-83	2104	8878	8185	(+)693
1983-84	2104	9342	8878	(+)464

The load forecast made in respect of Punjab in the Tenth Annual Survey is low and the optimism expressed in the Tenth Annual Survey regarding the power position in the State did not anticipate

the sharp rise in consumption, and needs to be suitably updated. The energy requirement as anticipated now by S.E.B. is given below along with the assessment made in the Tenth Annual Survey :—

Energy Requirement (MKWH)					
Year				10th Annual Power Survey	State Electricity Board
1				2	3
1978-79				4776	5173
1979-80				5325	6123
1980-81				5927	7103
1981-82				6534	8161
1982-83				7185	9297

8.4 The demand for electricity will grow even faster than the anticipation made by S.E.B., not only because of the increased demand matching with the envisaged requirement in the industry as well as agriculture sector but also because of replacement of other sources of energy by electricity.

AVAILABILITY

8.5 The delays in equipment delivery by manufacturers, held up in flow of funds due to constraint of resources, creates slippages in implementation of the power projects in the State, resulting in less additions to installed capacity as compared to the additions anticipated in the Tenth Annual Survey. This is brought out in the following table :

(MW)

Year	10th Annual Survey	State Electricity Board	Column 3— Column 2
1	2	3	4
1977-78	.. 1215	1245	30
1978-79	.. 1651	1544	(—)107
1979-80	.. 1947	1556	(—)391
1980-81	.. 1947	1673	(—)274
1981-82	.. 1999	1740	(—)259
1982-83	.. 2104	1800	(—)304

8.6 As per the Survey, the State of Punjab would be surplus in power from 1978-79 to 1983-84. However, due to the change in the commissioning schedules of various power projects in the State, the installed capacity forecast made by the Central Electricity Authority in the above Survey is not

likely to materialise. The position with regard to increase in the installed capacity on the basis of the revised commissioning schedules of various projects for the period 1977-78 to 1983-84 has been re-assessed and is indicated in the following tables:—

(In MW)

Serfal No.	Name of Power House/Project	Installed capacity during						
		1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84
1	2	3	4	5	6	7	8	9
1	Shanan Renovation	.. 48	48	60	60	60	60	60
2	Shanan Extension	.. ..	..	..	50	50	50	50
3	U.B.D.C.	.. 45	45	45	45	45	45	45
4	Share in Bhakra	.. 613	613	613	613	613	613	613
5	Beas Unit I	.. 158	317	317	317	317	317	317
6	Beas Unit II	.. 30	60	60	60	60	60	60
7	Beas Project Extension Unit II (Punjab's Share)	.. ..	..	..	..	..	15*	15

1	2	3	4	5	6	7	8	9	
8	Nangal Thermal	..	5	5	5	5	5	5	
9	G.N.D.T.P. Bhatinda	..	220	220	220	220	220	220	
10	G.N.D.T.P. Extension, Bhatinda	..	110	220	220	220	220	220	
11	Anandpur Sahlb	..	..	..	..	67	134	134
12	Mukerian	..	..	..	..	..	45	109.5
13	Diesel	..	16.08	16.08	16.08	16.08	16.08	16.08	
Total		..	1245.08	1544.08	1556.08	1673.08	1740.08	1800.08	1864.58

*As per guidelines of Planning Commission.

8.7 According to the survey conducted by C.E.A., the installed capacity is likely to increase to 2104 MW by the year 1983-84 whereas on the basis of the current assessment, it is likely to be 1864.58 MW by that time.

8.8 The broad strategy followed, to determine *interse* priorities in the Power Sector, is to lay emphasis on the ongoing projects with a view to

realising benefits from them at the earliest. Therefore, the requirements of projects at the advanced stages of construction have been fully provided for.

8.9 The break-up of the original outlay and anticipated expenditure during 1978-79 and the allocations for the different programmes for Sixth Plan and for the year 1979-80 is given below :—

(Rs in lakhs)

Programme	1978-79		Proposed Outlay		
	Original Outlay	Anticipated Expenditure	1978-83	1979-80	
1	2	3	4	5	
1. Generation	..	4632.00	4181.00	31621.00	5089.00
2. Transmission and Distribution—					
(a) Transmission	..	1818.00	1667.00	11279.00	2200.00
(b) Distribution including normal development	..	750.00	666.00	4650.00	700.00
(c) Reduction of transmission losses/Improvement of Transmission System	..	180.00	180.00	1940.00	320.00
3. Rural Electrification	..	1720.00	1502.00	7100.00	1455.00
(a) R.E.C.	..	440.00	440.00	2900.00	470.00
(b) Plan	..	1280.00	1062.00	4130.00	985.00
4. Investigation	..	20.00	12.00	35.00	8.00
5. Research Testing Laboratory and Load Despatch Centres	..	10.00	9.00	91.00	28.00
Total	..	9130.00	8217.00	56723.00	9800.00

8.10 The various projects/programmes to be under-taken during 1979-80 are discussed below :—

MULTI-PURPOSE PROJECTS

Beas Project Unit-I

8.11 This is an inter-State multipurpose project in which Punjab, Haryana and Rajasthan States are partners and is being executed by Beas Construction Board. It was originally approved at an estimated cost of Rs. 96.87 crores. The latest estimated cost of the project has gone up to Rs. 382.57 crores. The cost and benefits of the project are being shared amongst the partner States on the following basis :—

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

8.12 The project envisages the installation of 4 units of 165 MW each. The first two units of the project have already been commissioned in November, 1977 and March, 1978. The work on Units III & IV is proceeding as per schedule and are scheduled to be commissioned in November, 1978 and in March, 1979 respectively. The project will provide 264 MW of firm power. The water from this project will help augmenting the power output at Bhakra by 148 MW.

8.13 The latest estimated cost of the project, Punjab's share of total cost, expenditure incurred up to 1977-78, anticipated expenditure for 1978-79, spill over after 1978-79 and allocation proposed for 1979-80 are given below :—

		(Rs. in lakhs)
1. Location ..	Village Dehar (District Hoshiarpur)	
2. Latest estimated cost ..		38257.00
3. Punjab's share in the total cost		17262.00
4. Expenditure incurred up to 1977-78		15629.00
5. Anticipated expenditure 1978-79		740.00
6. Spill over after 1978-79 ..		893.00
7. Outlay 1979-80		541.00

Beas Project Extension Unit-I

8.14 The Dehar Power Plant Extension project envisages the installation of two additional units of 165 MW each in Dehar Power Plant. The units are likely to be commissioned after 1984. The latest estimated cost of the project, Punjab's share of the total cost, expenditure incurred up to 1977-78, anticipated expenditure for 1978-79, spill over after 1978-79 and allocation for 1979-80 are given below :—

		(Rs. in lakhs)
1. Location ..	Village Dehar (District Hoshiarpur)	
2. Latest estimated cost ..		3553.00
3. Punjab's share in the total cost ..		1604.00
4. Expenditure incurred up to 1977-78		35.00
5. Anticipated expenditure 1978-79		145.00
6. Spill over after 1978-79 ..		1424.00
7. Allocation 1979-80 ..		147.00

Beas Project Unit-II

8.15 This project, comprising four units of 60 MW capacity each, is another Multipurpose Project of Punjab, Haryana and Rajasthan. The latest revised cost of the project as indicated by the Beas Construction Board is Rs. 25980.00 lakhs. The cost and benefits of the project are to be shared between the partner States as under :—

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

Units I and II of the project have already been commissioned during 1977-78 and the Units III & IV of the project are likely to be commissioned by October, 1978 and March, 1979, respectively as per the latest assessment.

8.16 The latest estimated cost of the project, Punjab's share of the total cost, expenditure incurred

up to the end of 1977-78, anticipated expenditure for 1978-79, spill over after 1978-79 and allocation for 1979-80 are as under :—

		<i>(Rs. in lakhs)</i>
1. Location	.. Village Pong, (District Hoshiarpur)	
2. Latest cost of the project	..	25980.00
3. Punjab's share in the total cost of the project	..	1520.00
4. Expenditure incurred up to 1977-78	..	1450.00
5. Anticipated expenditure for 1978-79	..	37.00
6. Spill over after 1978-79	..	33.00
7. Allocation for 1979-80	..	57.00

Beas Project Unit-II—Extension

8.17 The Pong Power Plant (Extension) Project envisages the installation of two additional units of 60 MW each. As per guidelines of Planning Commission, the first unit of the project is expected to be commissioned during 1982-83 and the 2nd unit after the Sixth Plan period.

8.18 The latest estimated cost of the project, Punjab's share of the total cost, expenditure incurred up to the end of 1977-78, anticipated expenditure for 1978-79, spill over after 1978-79, and allocation for 1979-80 are given as under:—

		<i>(Rs. in lakhs)</i>
1. Location	.. Village Pong, (District Hoshiarpur)	
2. Total cost of the project	..	3092.88
3. Punjab's share in the power component	..	181.00
4. Expenditure incurred up to 1977-78	..	6.00
5. Anticipated expenditure for 1978-79	..	16.00
6. Spill over after 1978-79	..	159.00
7. Allocation for 1979-80	..	17.00

Thein Dam

8.19 The project envisages the utilisation of Ravi Water, now flowing into Pakistan by constructing a 147 metre high earth core gravel shell dam across the river at village Thein 24 Kms. upstream of Madhopur Headworks. The project estimated to cost Rs. 26316 lakhs envisages to install 4 units of 120 MW capacity each. The project has already been technically cleared by the Central Electricity Authority. However, its formal sanction is still awaited from Government of India. No commissioning schedule has been fixed so far. However, it is likely to be completed in 8 to 12 years. Since, initially, it is to be implemented by the Irrigation Department, an outlay of Rs. 20.00 lakhs has been proposed on the Power side for carrying out certain preliminary works during 1979-80.

Shahpur Kandi Project.

8.20 It is proposed to harness available river fall between the tail race of the Thein Dam Power Plant and Madhopur Pond level for Irrigation and Power generation. The Project envisages the construction of about 150 ft. high embankment Dam near Shahpur Kandi, 8 Kms. upstream of Madhopur Headworks and erection of Power house comprising two units of 47 MW each. The Project awaits Centre's clearance. An outlay of Rs. 1.00 lakh has been proposed for 1979-80 for preliminary works.

POWER PROJECTS

Shanan Renovation Project

8.21 This project envisages the renovation of 4 units of Shanan Power House at Jogindernagar whose present derated capacity is 9 MW each. These units are running for the last 40 years and thus have outlived their life. After completion of the project, the capacity of the 4 machines will be raised to 15 MW each. This project is envisaged to be executed in two stages :—

Stage-I—Renovation of the existing units to their original capacity of 12 MW each.

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

8.22 The work against Stage-I has already been completed. In Stage-II the work of uprating the capacity of the 1st two units would be completed by October, 1979 whereas the work of uprating of the 3rd & 4th units is likely to be completed by March,

1980. Accordingly for the year 1979-80, an outlay of Rs. 137.00 lakhs has been proposed. This would cover up payments against valves, control relay and hydraulic panels, cables, cranes, 11 KV and LT switchgears, fire fighting equipment etc. and establishment charges.

8.23 The original and revised cost of the project, expenditure upto the end of 1977-78, anticipated expenditure during 1978-79, spill over requirement after 1978-79 and proposed outlay for 1979-80 are as under :—

(Rs. in lakhs)

1. Estimated cost of the project :—

(i) Original Cost	..	203.00
(ii) Latest Cost	..	753.00

2. Expenditure up to the end of 1977-78	332.77
3. Anticipated expenditure for 1978-79	194.00
4. Spill over after 1978-79	.. 226.23
5. Outlay proposed for 1979-80	.. 137.00

Shanan Extension Project

8.24 This project envisages the installation of 50 MW generating unit at the Shanan Power Plant (Joginder-nagar). This is an important project which can give immediate benefits to the State by increasing its generation by 176 MU (gross) per year, whereas the total investment on this project is only Rs 15.66 crores. The project already stands cleared by the Planning Commission, Government of India. The project is likely to be completed by June, 1980. The physical progress of the project upto September, 1978 is as under :—

Serial No.	Name of Activity	Total Qty.	Progress up to September, 1978
1	Reservoir		
	(a) Excavation	.. 135000 Cm.	125300 Cm.
	(b) Concreting M-250/20	.. 5400 Cm.	3588 Cm.
	(c) Concreting M-100/20	.. 3250 Sq. M.	2738 Sq. M.
2	Intake Tunnel		
	(a) Excavation	.. 7982 Cm.	909 Cm.
3	Intake Channel		
	(a) Excavation	.. 14709 Cm.	6930 Cm.
4	Power House		
	(a) Excavation	.. 4590 Cm.	Completed
	(b) Concreting	.. 4230 Cm.	3537 Cm.
5	Penstock		
	(a) Excavation	.. 540 Cm.	2615 Cm.
	(b) Concreting	.. 9000 Cm.	1265 Cm.

8.25 The work of fabrication of penstock alongwith the connecting Civil Works are ordered to M/s. T.S.L. Allahabad. The firm was required to complete the whole job by February, 1978 but now it is likely to be completed by August, 1979.

8.26 The Civil Works are in the advance stage of execution and likely to be completed well within schedule. The supply of T.G. Set has almost been completed. Lower house casing and some embeded parts have been installed. The remaining works of erection of T.G. Set would be started in January, 1979.

8.27 The original and revised cost of the project, expenditure upto the end of 1977-78, anticipated expenditure during 1978-79, spill over requirement after 1978-79 and proposed outlay for 1979-80 are as under :—

(Rs. in lakhs)

1. Estimated cost of the project	
(i) Original cost	.. 472.00
(ii) Latest cost	.. 1566.00

2. Expenditure upto the end of 1977-78	971.47
3. Anticipated expenditure for 1978-79	313.00
4. Spill over after 1978-79 ..	281.53
5. Outlay proposed for 1979-80 ..	100.00

GNDTP Extension Units III & IV

8.28 The project envisages addition of two more units of 110 MW each at the GNDTP Bhatinda. One unit was commissioned in March, 1978. The second unit is scheduled to be commissioned in December, 1978. The original and revised cost of the project, expenditure up to the end of 1977-78, anticipated expenditure during 1978-79, spill over requirement after 1978-79 and proposed outlay for 1979-80 are given as under :—

(Rs. in lakhs)

1. Estimated cost of the project	
(a) Original Cost ..	4138.00
(b) Latest cost ..	7115.00

2. Expenditure upto the end of 1977-78	5745.00
3. Anticipated Expenditure for 1978-79	670.00
4. Spill over after 1978-79 ..	700.00
5. Outlay proposed for 1979-80 ..	400.00

Anandpur Sahib Hydel Project.

8.29 It is a new hydro electric scheme taken up in the 5th Five Year Plan. On completion of the Beas Sutlej link, additional release from Bhakra Dam would become available which would be utilised for power generation by constructing Anandpur Hydel Channel. The scheme envisages installation of 4 units of 33.5 MW each (total 134 MW) on a hydel channel to be constructed parallel to the existing Nangal Hydel channel. The annual energy availability from this project will be 908 MU (gross) which is quite significant and will greatly help in improving the power requirements of Punjab. Sanction of the Government of India for this project is still awaited.

8.30 The physical progress for the period ending June, 1978 is as under :—

Name of activity	Estimated Qty. of work as per latest estimate	Quantity Completed upto June, 1978
1. Misc/Preliminary Works		
(i) Laying Alignment of Anandpur Sahib Hydel Channel	.. 33 Km.	30.98 Km.
(ii) Investigation of Aggregate	.. 1 Job	84.14%
2. Land Acquisition	.. 1018 Acres	786 Acres
3. Power Channel		
Stage-I		
(i) Excavation	104.17 lacs Cum.	23.28 lacs Cum.
Stage-II		
(i) Excavation	65.7 lacs Cum.	5.80 lacs Cum.
4. Head Race Tunnel (Bye Pass Channel)		
P.H. No. 1		
1. Excavation	.. 3.02 lacs Cum.	2.28 lacs Cum.
5. Power House No. I (Civil Works)		
(i) Excavation of pit area	.. 6.53 lacs Cum.	5.21 lacs Cum.
6. Power House No. II (Civil Works)		
(i) Excavation of pit area	.. 6.53 lacs Cum.	3.97 lacs. Cum.
7. Buildings		
(i) Temporary residential buildings	.. 12 Nos.	3 Nos.
(ii) Temporary non-residential buildings	.. 18 Nos.	13 Nos.
(iii) Permanent residential buildings	.. 260 Nos.	34 Nos.

8.31 As per present indications the 1st, 2nd, 3rd and 4th units are expected to be commissioned by October, 1980, January, 1981, May, 1981 and September 1981 respectively.

8.32 The original and revised cost of the project, expenditure upto the end of 1977-78, anticipated expenditure during 1978-79, spill over after 1978-79 and proposed outlay for 1979-80 are as under :—

	(Rs. in lakhs)
1. Estimated cost of the project	
(i) Original Cost	.. 5240.00
(ii) Latest cost	.. Being revised
2. Expenditure upto the end of 1977-78	1913.46
3. Anticipated Expenditure for 1978-79	1762.00
4. Spill over after 1978-79	.. 1564.54
5. Outlay proposed for 1979-80	.. 2355.00

Mukerian Hydrel Project.

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

8.34 The original and revised costs of the project, expenditure upto the end of 1977-78, anticipated expenditure during 1978-79, spill over requirement after 1978-79 and proposed outlay for 1979-80 are as under :—

	(Rs. in lakhs)
1. Estimated cost of the project	
(i) Original cost	.. 7557.00
(ii) Latest cost	.. 7557.00

2. Expenditure upto the end of 1977-78	348.00
3. Anticipated Expenditure for 1978-79	270.00
4. Spill over after 1978-79	.. 6939.00
5. Outlay proposed for 1979-80	.. 1100.00

UBDC Stage 1

8.35 Under this project 3 power houses of 15 MW each have been commissioned but some protection/cross drainage works required for the protection of the Hydrel Channel and the power plant had been left incomplete. These are now proposed to be taken up during the coming few years. A few of these works are detailed below:—

1. Removing deficiencies of civil works in respect of the Hydrel Channel and Power Plant etc.
2. Remodelling of surface drains
3. Providing of Pucca drains alongwith Hydrel Channel and interlinking sub-station Sarna.
4. Providing for anti-flood measures in UBDC Complex
5. Construction of roads and paths in UBDC complex.
6. Providing security arrangement for UBDC Project as per recommendations of CBI.
7. Providing measuring and testing instruments for UBDC Power House

An outlay of Rs. 10.00 lakhs has been proposed for the completion of the works during the year 1979-80.

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

8.36 The hydro resources of Punjab are limited whereas Punjab's demand is increasing rapidly. H.P. and J&K States have got vast untapped hydrel potential. Government of India has not agreed for installation of a Nuclear Power Plant in this part of the region. The only possible alternative is to participate in the exploitation of hydrel potential of H.P. and J&K. The negotiations are going on with J&K as well as H.P. States and it is anticipated that these will be finalised soon. For the year 1979-80, an outlay of Rs. 4.00 lakhs has been proposed for this scheme.

New Schemes

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

GNDTP Extension

8.38 It envisages two additional units of 200 MW each. The projects awaits Central clearance.

Ro par Thermal Plant

8.39 It envisages five units of 200 MW each. This scheme also awaits Centre's clearance.

A sum of Rs. 200.00 lakhs is proposed to be spent on either of the two projects cleared by the Government of India during the year 1979-80.

8.40 Details regarding cost estimates, date of start, expected date of completion, status of the project, expenditure incurred upto the end of 1977-78, anticipated expenditure during 1978-79 and spill over requirement after 1978-79, proposed outlay 1978-83

and outlay for 1979-80 in respect of Multipurpose and Power Projects are given in Annexure I to this chapter.

TRANSMISSION AND DISTRIBUTION

8.41 The transmission lines are the means to transmit power from the power plants to the Grid Sub-Stations and further the sub-transmission and distribution system and help to carry the power to the consumers. Thus, transmission and distribution works are very essential and must keep pace with the generation. Inadequate transmission and distribution system results in poor voltage and increased losses. The consumers do not get proper voltage and therefore suffer while the SEB suffers because of higher losses. The development of transmission and distribution system has not kept pace with the expansion of generation facilities in the State because of various reasons including inadequacy of funds. This has been avoided in the Sixth Plan and a provision of Rs. 178.69 crores has been made for this purpose to match the anticipated additions to the generating capacity. Cost estimates, expenditure incurred upto 1977-78, anticipated expenditure during 1978-79, spill over requirements after 1978-79 and outlay for 1979-80 in respect of the major transmission projects are indicated as under:—

(Rs. in lakhs)

Transmission Project	Latest estimated cost	Expenditure upto 1977-78	Anticipated expenditure 1978-79	Spill over requirements after 1978-79	Outlay for 1979-80
1. Beas Transmission					
(i) B.C.B.	1182.00**	943.80	170.00	68.20	68.00
	4627.00*				
(ii) P.S.E.B.	5458.00	4153.80	327.00	977.20	300.00
2. U.B.D.C. Project	717.74	655.83	56.00	5.91	65.00
3. Guru Nanak Dev Thermal Plant, Bhatinda	1512.02	1117.29	51.00	343.73	50.00
4. Guru Nanak Dev Thermal Plant, Extension, Bhatinda	1137.09	217.39	58.00	861.70	112.00
5. Shanan Extension Project	592.00	83.59	72.00	436.41	67.00
6. 220 KV, 132 KV & 66 KV Transmission works of 5th Plan connected with new Projects	5420.54	207.67	582.00	4630.87	995.00
7. Sub-transmission works (33 KV)	1905.20	630.46	334.00	940.74	531.00

*Total Cost.

**Punjab Share.

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

8.42 The project (220KV and above and 132 KV and below) provides for the transmission lines connected with the Beas Project Unit-1 (Dehar Power Plant) and are meant for the evacuation of power from the power plant, inter-connections with the existing grid and carrying the power to the load centres and certain augmentation works. The works are of two kinds namely BCB common works and PSEB works (exclusive works).

(i) BCB Common Works

8.43 These works consist of certain 220 KV and above lines which are common to 3 partners States namely Punjab, Haryana and Rajasthan. These works are being executed by the Beas Construction Board. As per decision of the Standing Committee of BCB, these works are to be shared in the ratio of 24.5%, 51.7% and 23.8%, between Punjab, Haryana and Rajasthan respectively. As against the anticipated expenditure of Rs. 170.00 lakhs during 1978-79 an amount of Rs. 68.00 lakhs has been proposed for the year 1979-80 as per requirement of funds indicated by the BCB authorities.

(ii) PSEB Works

8.44 The works connected with the Beas Transmission Project which are being executed by PSEB are of two types namely, 220KV works and 132 KV and below works. Some of the important works connected with these are as under:—

220 KV

1. 220 KV d.c. Gangowal-Jamalpur line (since commissioned)
2. 220 KV s.c. Jullundur-Amritsar Line (since commissioned)
3. 220 KV substations Amritsar and augmentation at Jullundur and Jamalpur.

132 KV and below

1. 132 KV substations, Abohar, Muktsar, Patiala, Hoshiarpur, Butari, Tarn Taran, Verka, Ferozepur (New).
2. 66 KV ring main lines at Jullundur and Ludhiana, 66 KV S/Stations at Dhuri, Malerkotla, Adda Dakha and inter-connected lines and substations etc.

8.45 The project for the transmission lines under Beas has since been revised and on the basis of this, the revised cost for the same comes to Rs. 69.71 crores (tentative). As per present sharing, the cost of exclusive works for Punjab comes to Rs. 23.56 crores and for common works Rs. 9.9 crores. Further the project report for 132 KV and 66KV works relating to PSEB has also been revised and revised cost of the project comes to Rs. 31.02 crores. Thus, the works relating to the PSEB under Beas Project both for exclusive and 132 KV & 66 KV works comes to Rs. 54.58 crores.

8.46 The outlay required for 220 KV works is estimated at Rs. 38.10 lakhs. Besides, there are important 132 KV works, which are absolutely essential to be carried out during the next year. Similarly, the 66 KV ring main S/Stations have also to be completed. A sum of Rs. 117.25 lakhs is envisaged for the completion of the pending 132 KV, Rs. 106.15 lakhs for 66 KV and Rs. 38.50 lakhs for establishment, T&P and PLC equipment and other works including 66 KV ring main. The details of the works to be taken up during 1979-80 are given in Annexure -II to this chapter.

8.47 The transmission lines of 132 KV & 66 KV, new substations and augmentation of various substations provided in the transmission projects namely UBDC transmission project, GNDTP transmission project, Shanan Extension Trans. Project and GNDTP Extension Trans. Project and Bhakra Right Bank Transmission Project are connected with the respective generating schemes. The works on all these projects is continuing since the last few years. The transmission works are of an important nature since these are required to feed power to the load centres. In the past years mainly because of paucity of funds, it has not been possible to complete these works covered under these projects with the result that there has been a backlog and works are pending which were planned even 4 years back. It is, therefore, proposed to complete these pending works during 1979-80 and the outlay proposed for these transmission projects are as under:—

(Rs. in lakhs)

(i) UBDC Trans. Project	..	65.00
(ii) GNDTP Transmission project		50.00
(iii) Shanan Extension Trans. Project		67.00

(iv) GNDTP Extension Trans. Project.	112.00
(v) Bhakra Right Bank Project	.. 12.00
Total	.. 306.00

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

(B) New Schemes

8.48 220, 132 and 66 KV Transmission works of Fifth Plan connected with new Projects

(i) 220 KV Lines and Sub-stations

After discussion with CEA certain 220 KV lines have been finalised for evacuation of power from Siul & Salal Power Plants. These lines are

1. 220 KV s.c. line on d.c. towers from Sarna to Dasuya
2. 220 KV s.c. line from Sarna to Batala.
3. 220 KV s.c. line from Batala to Amritsar(Verpal)

While construction of the 220 KV line from Sarna to Dasuya has been taken up by National Hydro Electric Power Corporation, the work of the remaining two lines are under progress alongwith the following 220 KV lines and substations already approved :—

1. 220 KV s.c. line on d.c. towers from Pong to Dasuya and a 220 KV s.c. line from Dasuya to Jullundur.
2. 220 KV d.c. line from Ganguwal to Patiala
3. 220 KV S/Stns. at Patiala, Malerkotla, Ludhiana II and Chandigarh

8.49 Further, Project estimates for the construction of 220 KV Switching Stations at Dasuya and Sarna respectively have already been sent to the Central Electricity Authority for clearance. In the Project estimate for Sarna, provision has also been made for 220 KV Sub-station at Batala with the necessary 132 KV Inter-linking transmission line from the proposed 220 KV sub-station to the existing 132 KV Sub-station. These works have been

provided in order to improve the voltage conditions in the Amritsar and Gurdaspur regions.

(ii) 132 KV and 66 KV Works

8.50 132 KV and 66KV Transmission System for the Fifth Five Year Plan project Reports have been cleared by the Central Electricity Authority. The total cost of these works comes to Rs. 32.20 crores. Some of the important 132 KV lines covered under the Project are :—

1. 132 KV s.c. line from Batala to Siri Hargobindpur
2. 132 KV s.c. line from Kapurthala to Sultanpur
3. 132 KV s.c. line from Muktsar to Jallalabad

8.51 Construction of 132 KV Sub-stations have been provided at Siri Hargobindpur, Banga, Kartarpur, Sultanpur, Mahilpur, Phillaur and Jallalabad. In addition, augmentation of 132 KV Sub-stations and construction of new 66 KV Sub-stations and augmentation of 66KV sub-stations have also been proposed. It is very essential that the works for 132 KV and 66 KV are executed during 1979-80 for improvement of voltage and proper dispersal of power to the load centres. This is absolutely essential because of 100% electrification of villages. Accordingly, an outlay of Rs. 995.00 lakhs for 220 KV, 132 KV, 66 KV Transmission Works for 5th Plan and other works have been envisaged for the year 1979-80. The details of these works may be seen at Annexure-IV of this chapter.

(C.) Improvement of Transmission and Distribution and Reduction of Losses in Punjab

8.52 The energy losses in Punjab excluding the Nangal Fertilizer Factory and other common pool consumers for the year 1968-69 to 1977-78 have been worked out and are given below:—

Year		Punjab Alone
1968-69	..	27.6%
1969-70	..	32.5%
1970-71	..	27.4%

		Anticipated expenditure 1978-79	Proposed outlay 1979-80
1971-72	..	29.1%	
1972-73	..	29.67%	
1973-74	..	24.71%	
1974-75	..	23.96%	
1975-76	..	21.79%	
1976-77	..	24.38%	
1977-78	..	21.53% (tentative)	

The excessive energy losses are attributed to the following factors :—

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

8.53 The SEB during the last 3/4 years has undertaken a number of remedial measures with the result that the energy losses have come down from 29.67 percent (1972-73) to 21.53 percent (1977-78). The slight increase in loss during 1976-77, is due to 100 percent electrification completed in a short period.

As against the anticipated expenditure of Rs 180.00 lakhs in 1978-79 an outlay of Rs. 320.00 lakhs (including REC assistance) has been envisaged for 1979-80 as per details given below :—

	Anticipated expenditure 1978-79	Proposed outlay 1979-80
	(Rs. in lakhs)	
1. Improvement of system (Transmission and Distribution)	..	70
		70

2. System Improvement Schemes

(a) REC (incl. LT Capacitor schemes)	..	50	200
(b) Plan	..	60	50
Total	..	180	320

1. Improvement of Transmission and Distribution System

8.54 The following works are proposed for the year 1979-80 :—

(Rs. in lakhs)

(a) Replacement of 132 KV, Jogindernagar-Pathankot-Verka Section	..	15.00
(b) Improvement of LD System and Aug. of distribution S/Stns. and LT Lines for improving voltage and continuity of supply	..	55.00
Total	..	70.00

8.55 As a number of 132 KV, 66 KV & 33 KV Sub-stations are coming up it is absolutely essential to provide 11 KV link lines from the new grid Sub-stations to the existing sub-stations. Further in certain cases, augmentation of the conductor is also required to be done. It is also proposed to replace the copper conductor by aluminium conductor. Improvement in the LD System and augmentation of the distribution system and LT lines is required for improving the voltage and continuity of supply.

2. System Improvement Schemes

8.56 Under these schemes there are two types of works namely (i) System Improvement schemes which have been submitted to REC and (ii) System Improvement Schemes which are sponsored by the

State Government from Plan. The funds from the different sources proposed for 1979-80 are given as under :—

		(Rs. in lakhs)
(i) From REC(including LT capacitor Schemes)	..	200.00
(ii) From Plan	..	50.00
Total	..	250.00

So far 40 Nos. System improvement schemes have been sent to REC as against which only twelve schemes have been approved by REC. It is expected that about thirteen system improvement schemes may be approved during 1978-79 and another six schemes during 1979-80.

(D) Sub-Transmission Lines & Substations

8.57 These works comprise construction of 33 KV transmission lines and substations, which are not covered under Transmission. These 33KV S/Stns. serve as links between the main transmission S/Stns. and the consumer S/Stns. at 11 KV voltage. A number of 33 KV S/Stations have been planned and are under execution where as some new S/stations have to come up in the rural area. Unless the 33 KV S/Stations are completed and brought in position as planned it would not be

possible to meet with the requirements of tubewells and other industrial connections in the rural and urban areas. The completion of the S/Stns. would also help in reduction of distribution losses. A separate project report for 33 KV works at a cost of Rs. 19.05 crores has been prepared which has been technically cleared by CEA. As against the anticipated expenditure of Rs. 334.00 lakhs in 1978-79, an outlay of Rs. 531.00 lakhs have been envisaged to complete the important 33 KV lines and S/Stations both new and augmentation during 1979-80. The execution of these works will greatly help in improving the system voltage, meet the load demands and reduce the system losses. The details of the works proposed during 1979-80 are given in Annexure-V to this chapter.

(E) Normal Development Works

8.58 The normal development works comprise giving general (domestic and commercial) and industrial connections, erection of new L.T. & H.T. lines, distribution sub-stations and augmentations thereof. The information showing achievements under Normal Development Works (General and Industrial connections) upto 1977-78, targets 1978-83, anticipated achievements during 1978-79 and targets for 1979-80 are given below :—

Particulars	Achievement upto 1977-78	Target Sixth Plan 1978-83	1978-79		1979-80 Target
			Original Target	Likely Achievement	
			1	2		3	4	5	6
1. General connections	1330346	710000	150000	130000	125000
2. Industrial connections	42358	16675	3500	3500	3000

8.59 There are about 8113 pending applications for industrial connection and 116760 pending applications for general connections as on 30th September, 1978. Moreover, the large industrial units such as DCM near Ropar, National Fertilizer at Bhatinda, Caustic Soda Plant at Nangal etc. are coming up and their requirements have also to be catered. Besides, a large number of industries are being set up at Focal Points namely Mohali,

Rajpura and Dhandari Kalan etc.

8.60 The cost of carrying out the works has increased substantially. It has been estimated that cost of small supply industrial connections covering load upto 20KW average about Rs. 4000, a medium supply connection (from 20 KW to 100 KW) Rs. 25,000 and for large supply connection (more than 100 KW), it is about Rs. 35,000. Similarly the average cost

of 11 KV line is about Rs. 12,000 per K.M.
The total requirement of funds under normal

development works at the above rate works out as under :—

(Rs. in lakhs)

Serial No.	Item	Unit	Quantity	Rate per unit (Rs.)	Amount
1	2	3	4	5	6
1.	General connections	No.	125000	200	2 50 0
2.	Industrial connections				
	(i) Large supply	No.	40	35000	14.00
	(ii) Medium Supply	No.	380	25000	95.00
	(iii) Small supply	No.	2580	4000	103.20
3.	11 K.V. lines	Kms.	450	12000	54.00
4.	L.T. Lines	Kms.	400	12000	48.00
5.	Distribution Sub-stations	No.	800	14000	112.00
6.	Electrification of Urban Estates			Lump sum provision	13.80
7.	Street lighting			Ditto	5.00
8.	General equipment, filtration sets, T&P etc. in operation Sub-Divisions			Ditto	5.00
			Total		733.13

RURAL ELECTRIFICATION

8.61 Now that all villages have been electrified, atleast 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 household including Harijan basties; and (iv) improvement of supply condition by augmentation and improvement works.

8.62 The funds for rural electrification are at present being provided from two sources, namely from REC and from Plan. The REC funds can only be spent in the sanctioned schemes areas approved by the REC and are now meant for giving connections both general and industrial and also for the energisation of tubewells in the scheme area, whereas the plan funds are spent for the energisation of tubewells in the non-REC areas or the areas which are already electrified and are known as reticulated area. For giving additional tubewell connections, for building up the load, 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 large area in Punjab already stands electrified and is not covered by REC schemes. The villages in this area were electrified before the formation of REC and also from the funds allocated during the last few years from Plan from time to time. As a large number of villages already stand electrified in the non-REC areas, the number of pending applications for tubewells is extremely large in this area as compared to the area covered by REC schemes as would be seen from the following :—

	REC Schemes	Non-REC Area	Total
(i) Tubewells energised upto 30-9-78 (No.)	..	..	204838
(ii) Pending applications (Agri.) upto 30-9-1978 (No.) ..	26343	44954	71297
(iii) Pending load (Agri.) upto 30-9-78 (M.W.) ..	96	146	242

Energisation of Tubewells

8.63 There are about 71297 pending tubewell applications (as on 30-9-1978), where the applicants have deposited Rs. 1000 as advance/debenture and more applicants are coming in with such deposit. In order to clear the backlog of such pending applications it is proposed to energise 30000 tubewells during 1979-80 (10000 tubewells from REC and 20000 Tubewells from Plan side).

As against the anticipated expenditure of Rs. 440.00 lakhs from REC and Rs. 1062.00 lakhs on Plan side during 1978-79, Rs. 470.00 lakhs from REC and Rs. 985.00 lakhs on Plan side are proposed for 1979-80 for rural electrification works. The achievements under rural electrification programme upto 1977-78, targets 1978-83, anticipated during 1978-79 and target for 1979-80 are shown in the table below :—

Serial No.	Item	Achievement upto 1977-78	Target 1978-83	1978-79		Target 1979-80
				Original Target	Anticipated Achievement	
1	2	3	4	5	6	7
1	Villages Electrified	..	All the villages were electrified as on 10th May, 1976.			
2	Tubewells/Pump sets energized	..	196515	149500	37500	32000
						30000

Investigation

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

The following schemes are proposed to be investigated during 1979-80 :—

- (1) Goindwal Sahib Hydel Scheme (Mukerian Hydel Channel Extn. Scheme upto Harike Reservoir)
- (2) UBDC Hydel Stage-III (Pre-Thein Dam Stage)
- (3) UBDC Hydel Stage-IV Scheme (Post Thein Dam Stage)
- (4) Investigation of mini Hydel Scheme on various canals in Punjab
- (5) Anandpur Sahib Hydel Channel Stage-IV

8.65 Against the anticipated expenditure of Rs. 12.00 lakhs in current year an outlay of Rs 8.00 lakhs is proposed during 1979-80.

Research Station

Research work on power is being undertaken

by SEB under the auspices of CBI&P. In view of the large scale power development envisaged in 5th Plan responsibility and task for this research unit has increased manifold and therefore, it has been decided to upgrade the research unit of SEB to the level of a Research Station. For this purpose, additional land would have to be acquired, new buildings are to be constructed, laboratory set up, necessary equipment and instrument purchased and other facilities provided for research station.

An outlay of Rs. 15.00 lakhs for this purpose is provided for the year 1979-80 as against Rs. 4.00 lakhs likely to be incurred during 1978-79.

Load Despatch Centre

8.66 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 States like Rajasthan, Haryana, H.P. etc. It is proposed to have a regional load despatch centre at Delhi under the auspices of Northern Regional Electricity Board. For achieving close co-ordination within constituent States of the region, State Load Despatch Centres are to be set up in each State. Such a centre in the State of Punjab is being set up at a cost of Rs. 361.00 lakhs. As against the anticipated expenditure of Rs. 5.00 lakhs during the current year, Rs. 13.00 lakhs is proposed for 1979-80.

Information regarding cost estimates, date of completion, status and

Serial No.	Project/Schemes	Capacity (MW)	Latest estimated cost	Date of start
1	2	3	4	5
Approved and On-going Schemes				
1	Beas project Unit—I	4 × 165 =660	17,262* <u>38,257.00**</u>	1959-60
2	Beas Project Ext. Unit—I	2 × 165 =330	1,604.00* <u>3,553.00**</u>	—
3	Beas Project Unit—II	4 × 60 =240	1,520.00* <u>25,980.00**</u>	1959-60
4	Beas Project Ext. Unit—II	2 × 60 =120	181.00* <u>3,092.88**</u>	—
5	Guru Nanak Dev Thermal Plant Ext. Unit—III & IV	2 × 110 =220	7,115.00	1974
6	Shanan Renovation Project Unit—I, II, III & IV	24	753.00	Dec., 1972
7	Shanan Ext. Project	50	1,566.00	Feb., 1976
On-Going unapproved Schemes				
1	Anandpur Sahib Hydel Project	4 × 33.5 =134	5,240.00	April, 1974
2	Muketian Hydel Project	6 × 15 = 90 6 × 19.5 = 117 Total = 207	7,557.00	—
3	Thein Dam	4 × 120 = 480	26,316.00	1978-79
4	Shahpur Kandi	2 × 47 = 94	6,836.00	—
New Schemes to be started from 1978-79 onwards				
1	GNDTP Extension	2 × 220 = 440	15,000.00	—
2	Ropar Thermal Project	5 × 200 = 1000	40,000.00	—

*Punjab State share.

**Total cost of the project.

I

details of expenditure for Power Projects

(Rs. in lakhs)

Schedule date of Completion	Status of project	Expenditure up to the end of 1977-78	Anticipated expenditure during 1978-79	Spill over after 1978-79	Proposed outlay 1978-83	Outlay 1979-80
6	7	8	9	10	11	12
Units I&II already commissioned Unit III—November, 1978 Unit IV—March, 1979	Stands cleared from GOI	15,629.00	740.00	893.00	1,755.00	541.00
Not fixed	Do	35.00	145.00	1,424.00	1,443.00	147.00
Units I&II already commissioned Unit III—October, 1978 Unit IV—March, 1979	Do	1,450.00	37.00	33.00	94.00	57.00
Unit I—1982-83 Unit II—1983-84	Do	6.00	16.00	159.00	165.00	17.00
Unit III—Already commissioned Unit IV—December, 1978	Do	5,745.00	670.00	700.00	1,370.00	400.00
Unit I&II—October, 1979 Unit III & IV—March, 1980	Do	333.00	194.00	226.00	402.00	137.00
June, 1980	Do	971.47	313.00	281.53	594.00	100.00
P.H. 1 Unit I—October, 1980 Unit II—January, 1981 P.H. 2 Unit I—May, 1981 Unit II—September, 1981	Sanction from from GOI awaited	1,913.46	1,762.00	1,564.54	6,810.00	2,355.00
P.H. 1 Unit I—September, 1982 Unit II—December, 1982 Unit III—March, 1983 and the remaining units after interval of three months each	Do	348.00	270.00	6,939.00	6,682.00	1,100.00
Not fixed	Do	—	—	26,316.00	500.00	20.00
Do	Do	0.31	—	6,835.69	6.00	1.00
Not fixed	Do	0.07	—	14,999.93	7,000.00	100.00
Not fixed	Do	80.51	20.00	39,979.49	4,715.00	100.00

Detailed list of works proposed to be carried out during 1979-80 in respect of Beas Transmission Project (PSEB Works)

Serial No.	Description of work	Amount (Rs. in lakhs)
1	2	3
220 KV WORKS :		
1.	Jullundur-Amritsar line	0.10
2	Jamalpur sub-station	1.50
3	Jullundur sub-station	7.00
4.	Verpal sub-station	27.60
5.	Ganguwal-Ludhlana line	2.00
		38.20
132 KV WORKS :		
1	Jagraon sub-station	0.70
2	Abohar sub-station	6.15
3	Mukatsar sub-station	1.50
4	Moga sub-station	0.50
5	Ferozepur sub-station	0.40
6	Gobindgarh sub-station	1.00
7	Samrala sub-station	2.67
8	Roop Nagar sub-station	4.67
9	Patiala sub-station	10.65
10	Maur sub-station	1.00
11	Goraya sub-station	3.85
12	Hoshiarpur sub-station	12.35
13	Nawan Shehar sub-station	2.00
14	Butari sub-station	10.90
15	Tarn Taran sub-station	11.30
16	Batala (Aug.) sub-station	4.70
17	Verka sub-station	10.10
18	Batala sub-station	3.10
19	Kapurthala sub-station	4.20
20	Ferozepur (New) sub-station	20.00
21	Jullundur sub-station	5.50
		117.24

Serial No.	Description of work	Amount (Rs. in lakhs)
1	2	3
66 KV WORKS :		
1	Ringmain lines at Jullundur	25.00
2	Radial feeder at Jullundur	0.05
3	Rajpura sub-station	0.17
4	Malerkotla sub-station	2.55
5	Dhuri sub-station	3.00
6	Barnala sub-station	4.50
7	Patfala sub-station	2.41
8	Ring main sub-station at Jullundur	24.30
9	Ring main sub-station at Ludhiana	8.85
10	Ada Dakha sub-station	0.25
11	Ringmain lines at Ludhiana	9.00
12	Talawara	9.50
13	Tarn Taran Focal Point	10.00
14	Billet Factory, Ludhiana	0.50
15	Bahadurgarh	1.07
16	Providing Capacitor Banks at various sub-stations	5.00
		106.15
Providing P.L.C. equipment		16.00
Providing T & P articles		9.50
Establishment Charges		13.00
Grand Total		300.09
		Say .. 300.00 lakhs

Detailed list of works proposed to be carried out during 1979-80 in respect of UBDC Transmission Project

Serial No.	Description of work	Amount (Rs. in lakhs)
132 KV WORKS		
1	Diverslon at Gurdaspur line	2.00
2	Bhogpur Sub-station	0.80
3	Nakodar sub-station	12.00
4	Fatehgarh Churlan sub-station	16.20
5	Patti sub-station	2.80
6	Sarna sub-station	1.50
7	Gurdaspur sub-station for Bay to Jaura Chitran and Civil works	5.20
		40.50
66 KV WORKS		
1	Fatehabad sub-station (Goindwal)	0.40
2	Dina Nagar sub-station	1.50
3	Ajnala sub-station	2.40
4	Garli sub-station	1.20
5	Narot Jamial Singh sub-station	1.20
6	Udhonangal sub-station	4.20
7	Kahnuwan sub-station	1.45
8	Ramdas sub-station	1.25
9	Kotli Surat Mali sub-station	1.50
10	Quadian sub-station	0.70
11	Sri Hargobindpur sub-station	0.50
12	Sarna-Sujanpur line	2.40
		59.20
	Providing PLC Equipment	1.50
	Providing of T&P etc.	0.90
	Establishment charges	3.00
	Grand Total	64.60
	Say ..	65.00 lakhs

ANNEXURE III (b)

Detailed list of works proposed to be carried out during 1979-80 in respect of GNDT Transmission project

Serial No.	Description of works	Amount (Rs. in lakhs)
132 KV WORKS		
1	Kharar sub-station	4.45
2	Mansa sub-station	2.00
3	Talwandi Bhai sub-station	1.50
4	Samrala sub-station	0.49
5	Gobindgarh sub-station	1.25
6	Rupar sub-station	0.25
		<u>9.94</u>
66 KV WORKS		
1	Bhadson sub-station	1.25
2	Moonak sub-station	1.25
3	Lehragaga sub-station	1.25
4	Bassi Pathana sub-station	1.22
5	Sunam sub-station	2.20
6	Jarg sub-station	1.65
7	Sirhind sub-station	4.00
8	Banaur sub-station	0.97
9	Lalru sub-station	2.67
10	Chaurwala sub-station	0.25
11	Rajpura (F.P.) sub-station	1.95
12	Devigarh sub-station	0.17
13	Khanna sub-station	0.20
14	Patran sub-station	0.65
15	Bhadaur sub-station	0.60
16	Rampura Phul sub-station	1.00
17	Rama Mandi sub-station	1.30
18	Talwandi Sabco sub-station	1.00
19	Laduka sub-station	1.05
20	Humbran sub-station	0.80
21	Talwandi Bhai sub-station	2.00
		<u>27.43</u>
	Providing Yard lighting at various sub-stations	0.29
	Providing of T&P	1.00
	Providing PLC Equipment	9.14
	Establishment Charges	2.00
	Grand Total	<u>49.80</u>
	Say	Rs. 50.00 lakhs

ANNEXURE III (c)

Detailed list of Works proposed to be carried out during 1979-80 in respect of Shanan Extension Transmission Project

Serial No.	Description of works	Amount (Rs. in lakhs)
132 KV WORKS		
1	Hoshiarpur-Hamirpur line	36.52
2	Pathankot sub-station	4.70
3	Kharar sub-station	0.30
		41.52
66 KV WORKS		
1	Mohali sub-station (F.P.)	1.17
2	Morinda sub-station	1.17
3	Sidhwan Bet sub-station	0.50
4	Ajitwal sub-station	0.50
5	Sahnewal sub-station	1.05
6	Majitha sub-station	11.50
7	Terminal tower at Shanan Power House	0.16
		57.57
	Capacitor Banks at various sub-stations	3.30
	Providing PLC Equipment	1.00
	Providing T&P and Special T&P etc.	2.25
	Establishment Charges	3.00
	Grand Total	67.12
		Say Rs. 67.00 lakhs

ANNEXURE III (d)

Detailed list of works proposed to be carried out during 1979-80 in respect of GNDT Extension Transmission Project

Serial No.	Description of work	Amount (Rs. in lakhs)
220 KV WORKS		
1	Muktsar sub-station	35.00
2	220 KV interlinking line at Mukatsar	4.00
		<u>39.00</u>
132 KV WORKS		
1	Verka-Naraingarh line	0.02
2	Verpal-Naraingarh line	12.00
3	132 KV Interlinking line at Mukatsar	1.50
4.	Dhariwal sub-station	6.00
5.	Narainagarh sub-station	17.80
		<u>37.32</u>
66 KV WORKS		
1	Sarna-Sujanpur line	7.00
2	Ghanaur sub-station	1.50
3	Chawa sub-station	1.70
4	Karon sub-station	2.10
5	Longowal sub-station	1.50
6	Mehal Kalan sub-station	1.14
7	Bahadurgarh sub-station	0.25
8	Aliwal sub-station	2.20
9	Udhanwal sub-station	1.70
10	Sujanpur sub-station	3.90
11	Kalanaur sub-station	2.10
12	Dera Baba Nanak sub-station	1.20
		<u>102.66</u>
	Providing of T&P etc.	0.50
	Providing PLC Equipment	3.40
	Establishment Charges	5.00
	Grand Total	<u><u>111.56</u></u>
		Say Rs. 112.00 lakhs

ANNEXURE III(e)

Detailed list of works proposed to be carried out during 1979-80 in respect of Bhakra Right Bank Transmission Project

Serial No.	Description of work	Amount (Rs in lakhs)
132 KV WORKS		
1	Tarn Taran-Verpal line	0.50
2	Verka-Verpalline	0.05
3	Diversion at Phagwara	0.10
4	Phagwara S/S	7.50
		8.15
66 KV WORKS		
1	Nabha S/S	2.20
2	Samana S/S	0.35
		10.70
	Providing PLC Equipment	1.11
	Establishment Charges	0.50
	Grand Total	12.31
		Say Rs 12.00 lakhs

-ANNEXURE- IV

Detailed list of works proposed to be carried out during 1979-80 in respect of 220/132/66KV Transmission Works for 5th Plan

Serial No.	Description of works	Amount (Rs in lakhs)
1	2	3
220 KV WORKS		
1	Ganguwal-Patiala line	80.00
2	Jamalpur-Lalton Kalan line	1.50
3	Sarna-Batala line	} 225.00
4	Batala-Verpal line	
5	Pong-Jullundur line	100.00
5	Tee off 220 for KV Sub-station, Chandigarh	2.00
7	Tee off for 220 IV Sub-Station, Malerkotla	3.00
8	Dasuya Sub-Station	20.00
9	Batala Sub-Station	5.00
10	Phagwara Sub-Station	10.00
11	Patiala Sub-Station	18.10
12	Lalton Kalan Sub-Station	72.10
13	Chandigarh Sub-Station	23.00
14	Malerkotla Sub-Station	19.88
15	Sarna Sub-Station	5.00
		584.58
132 KV WORKS		
1	Mukatsar-Jallalabad line	1.00
2	Hoshiarpur-Mahilpur line	1.64
3	Kapurthala-Sultanpur line	25.00
4	Batala-Sri Hargobindpur line	4.00
5	Doraha Sub-Station	3.73
6	Kharar Sub-Station	0.26
7	Jallalabad Sub-Station	5.00
8	Gulal Sub-Station	0.27
9	Kotli-Surat Mali Sub-Station	2.50
10	Anandpur Sahib to Rupar	20.00
11	Mahilpur Sub-Station	16.45
12	Rupar Sub-Station	0.25
13	Kartarpur Sub-Station	13.00
14	Sultanpur Sub-Station	7.00
15	Banga Sub-Station	6.00
16	Sri Hargobindpur Sub-Station	14.00
17	Patti Sub-Station	1.00
18	Sarna Sub-Station	4.00

Serial No.	Description of works	Amount (Rs in lakhs)
1	2	3
19	Batala-Kotli-Suratmali line	20.00
20	Tee off for Banga Sub-Station	2.00
21	Tee off for Kartar pur Sub-Station	4.00
22	Kotla-Nawan Shehar line	30.00
23	Bagha purana Sub-Station	19.00
24	Gobindpur Sub-Station	2.00
25	Interlinking lines for Anandpur Sahib F.P.	10.07
26	Tee off for Baghapurana	2.50
		214.67
66 KV WORKS		
1	Mukatsar-Rupana line	0.50
2	66-KV Sub-Station, Mohali	11.50
3	Jamalpur-Dhandari line	0.50
4	Tee off to Rajpura (F.P.)	1.50
5	Gill Road-Basant Park line	1.25
6	Chabal Sub-Station	1.80
7	Manochal Sub-Station	2.90
8	Tarn Taran (F.P.) Sub-Station	6.50
9	Pasiana (Dakala) Sub-Station	6.35
10	Majira Sub-Station	3.00
11	Dhandari Kalan Sub-Station	10.04
12	Basant Park Ludhiana Sub-Station	4.55
13	Badali Sub-Station	9.80
14	Bahadurgarh Sub-Station	4.02
15	S.A.S. Nagar Sub-Station	4.17
16	Rupana Sub-Station	4.25
17	Gaursgarh Sub-Station	4.63
18	Bhari Sub-Station	2.17
19	Jogaralla Sub-Station	1.41
20	Patran Sub-Station	11.00
21	Sangrur-Malerkotla line	0.50
22	Interlinking line at Ludhiana	17.00
23	Interlinking at Mohali	10.00
24	Patiala to Bahadurgarh	5.00
25	Gobindgarh	23.25
26	Sangrur-Patran line	15.00

ANNEXURE IV—contd.

Serial No.	Description of works	Amount (Rs in lakhs)
1	2	3
27	Malerkotla-Interlinking	2.00
28	Panjola	5.00
29	Kala Afgana	2.00
30	Thihar	2.00
31	Kohara	2.50
32	Dhanaula	1.00
33	Pattarwal	0.80
34	Patiala-Pasiana line	8.00
35	Malerkotla-Maloud line	5.00
36	Rupara-Giljewal line	4.00
37	Giljiwal Sub-Station	10.00
38	Maloud Sub-Station	6.00
39	Rai Majra Sub-Station	8.00
40	Rajpura (F.P.)	2.18
41	Talwandi-Dasuya line	6.00
42	Sri Hargobindpur-Ghuman line	8.00
43	Interlinking at Qadian	2.00
44	Giaspur	9.38
45	Ghuman	3.00
46	Tee off to Rai Majra	2.00
		251.45
	Capacitor Banks for various Sub-Stations	1.15
	T. & P.	12.00
	P.L.C. equipment	10.00
	Establishment charges	52.00
	Grand Total	1125.85

The Expenditure will be restricted to Rs. 995.00 lakhs.

ANNEXURE V

Detailed list of works proposed to be carried out during 1979-80 in respect of 33 KV. Sub-Transmission lines and
33 KV Sub-Station

33 KV LINES :	Amount (Rs. in lakhs)
1. Moga-Kisharpura line	2.00
2. Bhatinda-Sangat line	1.00
3. Mansa-Raipur line	0.50
4. Ferozepur-Jhoke harihar	1.00
5. Kapurthala-Sultanpur line	4.00
6. Dasuya-Mukerian line	0.50
7. Phagwara City-Sugar mill line	1.00
8. 132 KV S/S Phagwara-Sugar mill Sub-station	1.70
9. Mahilpur-Jaijon Doaba	1.18
10. Nawanshehar-Rahon line	1.00
11. Dhariwal-Naushera-Majha Singh	2.15
12. Beas Sathiala line	0.50
13. Dasuya-Gardhiwala line	0.50
14. Phagwra-Behram line	9.00
15. Phagwara (Sugar Mill) to Cheheru	4.50
16. Verpal-Gholewala	2.25
17. Ringmain around Amritsar	6.00
18. Sulianpur-Talwandi Madho	7.00
19. Kapurthala-Ucha Pind	8.00
20. Pathankot-Dhar (Aug.)	4.00
21. Abohar-Sitogana	10.00
22. Budhlada-Sanga	6.00
23. Rupar-Phukrala	6.50
24. Budhlada-Bareta	4.00
25. Ringmain lines at Bhatinda	10.25
26. Bhatinda-Kot Shamir	6.00
27. Tee off to Sandhwan	1.50
28. Tee off to Bhikhi	1.50
29. 132 KV Moga to F.P. Moga	3.00
30. Mahilpur -Kot Fatui	7.50
31. Bhogpur to Begowal	10.00
32. Tee off for F.P. Hoshiarpur	3.00
Total (Lines)	127.03
33 KV SUB-STATIONS	
1. Sudhar	5.95
2. Nurpur Bedi	0.70
3. Raipur	7.62

	Amount (Rs. in lakhs)
4. Kurali	2.73
5. Arniwala	0.50
6. Bhalliana	2.00
7. Badhni Kalan	0.75
8. Bhucho	1.00
9. Goniana	2.50
10. Kasu Begu	2.10
11. Guru Harsahai	1.25
12. Sarai Naga	1.70
13. Jaito	1.50
14. Samalsar	1.70
15. Sangat	6.00
16. Pato Hira Singh	0.75
17. Lakha	2.30
18. Kishanpura	3.50
19. Mudki	0.85
20. Faridkot	0.75
21. Anandpur Sahib	3.50
22. Bharatgarh	2.15
23. Chamkaur Sahib	0.70
24. Machhiwara	1.00
25. Khamanu	2.23
26. Kohara	0.26
27. Amargarh	0.10
28. Cheema	3.50
29. Udawal	2.00
30. Budhlada	2.50
31. Sitogana	1.45
32. Bagha Purana	0.25
33. Bhagta	1.00
34. Baja Khana	0.50
35. Sangha	1.56
36. Zira	0.50
37. Jhunir	6.00
38. Sardulgarh	2.00
39. Lambi	1.00
40. Fatehgarh Panjtoor	1.00
41. Ferozeshah	1.00
42. Nathana	0.50
43. Mamdot	1.00
44. Makhu	0.75

	Amount (Rs. in lakhs)
45. Malanwala	0.50
46. Khui Khera	2.00
47. Alawalpur	2.60
48. Mehatpur	1.80
49. Hamira	1.10
50. Dhilwan	2.35
51. Miani	1.50
52. Jaijon Doaba	4.85
53. Mukandpur	5.10
54. Phagwara (Sugarmill)	5.00
55. Rurka Kalan	6.30
56. Thata tiba	1.70
57. Lohian	2.20
58. Nurmehal	1.00
59. Bholath	0.20
60. Malsian	0.75
61. Rahon	6.85
62. Behram	1.50
63. Sham Churasi	1.40
64. Attari	2.50
65. Amritsar (OCM)	5.50
66. Abadgarh	3.25
67. Dunera	5.00
68. Amritsar (Mall Mandi)	0.30
69. Khasa	2.20
70. Nawan Pind	1.70
71. Chola Sahib	0.10
72. Tut	2.10
73. Harike	7.20
74. Harsa Chhina	6.00
75. Civil Line Ludhiana	1.30
76. Amarkot	9.50
77. Bhikhiwind	12.00
78. Dhar	2.00
79. Adampur	2.20
80. Kathu Nangal	0.30
81. Jandiala	9.30
82. Nagoke	0.60
83. Beas	0.80
84. Chogawan	1.00

85. Rehana Jattan	..	0.30
86. Tanda	..	0.25
87. Sathiala	..	10.00
88. Chaheru	..	2.60
89. Begowal	..	3.60
90. Khera Dona	..	3.60
91. Talwandi Madho	..	2.60
92. Hoshiarpur(F.P.)	..	2.85
93. Kot Fatui	..	2.20
94. Shahkot	..	2.10
95. Chabal	..	1.10
96. Jadla	..	2.20
97. Dhan	..	2.20
98. Saira Khurd	..	2.20
99. Nadala	..	2.20
100. Dosanj Kalan	..	2.20
101. Rajoowal	..	2.20
102. Jakupur Kalan	..	1.10
103. Gohalpur	..	9.00
104. Kot Mit Singh	..	10.00
105. Dera Baba Nanak	..	1.15
106. BULLowal	..	2.50
107. Ucha Pind	..	2.50
108. Dala	..	4.00
109. Kot Isa Khan	..	4.00
110. Dugru	..	4.00
111. Mansa	..	0.03
112. Sandhwan	..	7.50
113. Amarpura	..	9.00
114. Ringmain at Bhatinda	..	43.65
115. Kot Shamir	..	9.00
116. Moga (F.P.)	..	8.50
117. Pukhrali	..	9.50
118. Bhikhi	..	5.50
119. Bareta	..	3.00
120. Ferozepur	..	0.20
121. Gurdaspur	..	0.20
122. Sangrur	..	3.00
123. Jokhewal	..	1.10
124. Sidhwan	..	1.50
125. Giljewal	..	1.50

126. Bargui	..	0.50
127. Chak Sherwala	..	0.50
128. Garhi Singh	..	0.50
129. Sadik	..	2.00
130. Nathuchak	..	1.00
131. Hakima Gate Amritsar	..	1.00
132. Chogawan	..	1.00
133. Jastorwal	..	1.00
134. Sharabti Khurd	..	1.00
135. Gandiwad	..	1.00
136. Jaspal	..	1.00
137. Capacitor Banks at various Sub-Stations	..	2.70
138. Khuian Sarwar	..	2.00
		405.98
	Total (Sub-Stations)	..
	P. L. C. equipment	..
		20.00
	T & P	..
		4.60
	Establishment	..
		20.00
	Grand Total	..
		577.61

The expenditure will be restricted to Rs 531.00 lakhs.

Industry and Minerals

Industrial development of the Punjab State has remained slow over the years. The contribution of industrial sector, which accounts for 11% of the State income (GDP) is small as compared to around 26% in case of Maharashtra. Growth of industrial units remained haphazard and confined to certain pockets only. Medium and large units have not grown in commensuration with the needs, aspirations and availability of skill in the State. There were just 160 such units in 1976-77 employing a total of 69,942 persons which is not more than about 1.5% of the available working force. Large and medium industries are essential to strengthen the industrial base and for further development of small scale industries in the form of ancillaries. But in the new strategy for development highest priority has been accorded among other sectors, to the development of tiny, cottage, village and small scale industries. Barring 3 public sector units which have come up in the State no other worthwhile medium and large projects have been set up by Government of India. Keeping in view the special need for setting up large and medium units the Punjab State Industrial Development Corporation has been entrusted with the job of promoting large and medium units in a planned way. The Corporation is doing its best to promote public and joint sector units in face of the restraints put on the further development of large and medium units by Government of India.

9.2 Mainly through enterprise of the people, small scale industrial units got set up in the State despite the locational disadvantages of long distance from which raw materials are to be brought and finished goods sent back for marketing. In 1975-76, the total number of small scale units was 41,160 which rose by a small number to 43,030 at the end of March, 1977. We have very few units in the large scale sector and whatever large units do exist are not related to the type of industries that have developed in the small scale sector and are thus neither sustaining growth of small sector nor generating employment.

9.3 The average daily employment of workers per lakh of population in Punjab is only 800 compared to 2,165 in Maharashtra, over 2,000 in Tamil Nadu and West Bengal and 1,875 in Gujarat. There has been consistent rise in the deposits collected by

banks in the State but the advances made by banks within Punjab have come down from 48 per cent in 1974 to 28 per cent in 1975. The contribution of industry in the State's income in Punjab in 1975-76 was 12 per cent against the All India average of 16 per cent and as high a contribution as 26 per cent in Maharashtra. In the large scale sector almost the entire industry is concentrated in half a dozen town centres in the State. The vast mass of rural population has practically remained untouched by the process of industrialisation. The total installed capacity of sugar industry in the State can take care of only 18 per cent of the sugar cane produced in the State. In the field of cotton, whereas we produce something like 19 per cent of the country's cotton, the processing industry based on cotton is woefully inadequate. The total spindle capacity is only 1.5% of the capacity in the country.

9.4 The broad objectives of the New Industrial Policy announced by the State Government are summed up as follows :—

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

9.5 The main programmes for the achievements of above objectives during the Sixth Plan period, will be as follows :

Industrial Growth Points

- (i) Industry will be encouraged to grow in clusters for which growth points will

be put up with adequate infrastructural facilities-both technical and civic. Special incentives as described elsewhere will be available to them.

Upgrading of Industrial Technology

- (ii) The existing Industrial Development Centres, Quality Marking Centres and Common Facility Centres will be strengthened. New institutions set up particularly for providing research and development of Machine Tools ; Hand Tools ; Bicycles and parts ; Sewing machines and parts ; Hosiery and Knitwear and general testing facilities.

Training Programme

- (iii) Schemes aimed at training of small entrepreneurs particularly those who want to set up tiny units on self-employment basis will be strengthened. Special training programmes will be designed for handicrafts, particularly carpet weaving industry to be developed between Gurdaspur and Amritsar.

Marketing

- (iv) The small Industries Corporation will play an increasingly bigger role in helping the small scale industries, particularly in the tiny sector to market their goods by obtaining bulk orders from Government, private purchasers and export orders from abroad, and subcontracting them with small units. Systematic information will be collected of market potential for various products of Punjab in the country and information disseminated amongst the small scale industries units and their associations. Training in marketing techniques to entrepreneurs will also be arranged. Trade Centres will be set up in important towns and the functioning of the Emporia run by the State Small Industries Corporation will be streamlined.

Service to Entrepreneurs

- (v) Feasibility studies and profiles of industries in the small scale sector for which there is a scope in Punjab will be prepared and information made available to entrepreneurs at State, District and Block Levels. The functioning of the field organisations of the Department of Industries will be streamlined and arrangements made so that maximum possible needs of an entrepreneur in the matter of allotment of plot, procurement of construction material, water and power connections, industrial raw materials, finance and technical guidance are met in a co-ordinated manner. Co-ordination Committees will be set up at State, District and Block Levels to facilitate clearance by all concerned Departments and Government organisations. Punjab State Industrial Development Corporation will open a Merchant Banking Division which will help entrepreneurs in processing their cases with financial institutions and also in selected cases, bridge the gap in the equity capital by direct contribution upto a limited extent.

Non-Resident Indians

- (vi) Special attention will be given to the Non-Resident Indians coming to Punjab to set up new industrial units in the matter of allotment of plots, power connections and other facilities. A separate Division to look after their needs will be set up. Special incentives will be available to them as shown in the scheme of incentives for setting up a unit anywhere in the State, even outside the Focal Points.

Incentives

9.6 A new set of incentives has been evolved which will be available in a graded manner depending upon the extent of backwardness of the region of the State where a unit is set up.

9.7 Area groups for graded incentives are enumerated below.

District	Group I	Group II	Group III	Group IV
Amritsar	—	Amritsar including Chheharta and Verka	Rest of the District	All Sub-montane areas
Jullundur	Focal point/Industrial Areas	Goraya town	Rest of the District excluding Jullundur town and areas falling within the 10 miles from the Municipallimits	Border areas within (16 KM of the Inter-National Border) Backward areas declared as such by the State Government
Ludhiana	Ditto	Khanna town	Rest of the district excluding Ludhiana town and areas falling within 10 miles from the Municipallimits	(Exception would be made in case of areas considered as developed and these may be placed in Group I, II and III depending upon the development
Patiala	—	Rajpura and Gobindgarh	Rest of the district	
Kapurthala	—	Phagwara	Ditto	
Ropar	—	Sahibzada Ajit Singh Nagar	Ditto	
Gurdaspur	—	Batala Town	Ditto	
Faridkot	—	Moga	Ditto	
Ferozepur	—	—	Whole of the District	
Hoshiarpur	—	—	Ditto	
Bhatinda	—	—	Ditto	
Sangrur	—	—	Ditto	

9.8 Graded incentives available would be as follows :

Incentive	Group I	Group II	Group III	Group IV
(i) Interest free loans—				
(a) Period for which available (Yearly)	5 years	6 years	8 years	10 years
(b) Quantum: Percentage of capital investment (Yearly)	.. 25%	30%	35%	40%
(c) Percentage of value of sale	.. 5%	5%	6%	6%
(d) Ceiling on annual amount	.. 5 lakhs	5 lakhs	7 lakhs	7 lakhs
(e) Repayment	.. Three equal instalments from 11th year from date of disbursement.			
(ii) Subsidy on electricity tariff for power based industries	25 per cent concession for specified power based industries			
(iii) Exemption from electricity duty	.. 5 years	6 years	8 years	10 years
(iv) Exemption /Refund of Octroi/Terminal tax	.. 5 years	6 years	8 years	10 years
(v) Contribution towards cost of feasibility studies	75 Per cent of the cost as unsecured soft loan repayable in 5 years.			
(vi) Land subsidy	.. 75 per cent excess price over the rate shown			
(a) Developed plots in Focal Points	.. Rs. 12	Rs. 10	Rs. 8	Rs. 8
(b) Undeveloped land (acquired)	Rs. 3	Rs. 2	Rs. 2	Rs. 2

Other Incentives

9.9 (a) Central subsidy of 15 per cent on the fixed capital investment (land, building and machinery) in the three districts of Hoshiarpur, Sangrur and Bhatinda and Faridkot Tehsil (of Faridkot District).

(b) State subsidy of 15 per cent on the fixed capital investment (land, building and machinery) available in the border districts, bet areas, sub-montane areas and backward areas declared as such by the State Government excluding the areas covered under the Central Subsidy Scheme at (a).

(c) Concessional interest rate: Reduction of 2 per cent for Panjab Finance Corporation loans in the 5 districts of Hoshiarpur, Sangrur, Bhatinda, Gurdaspur and Ferozepur.

(d) Investment Loan (interest bearing) for priority industries specially notified by Government, (given below in para 9.11) equal to estimated amount of loan admissible under Interest free loan to be adjusted against interest free loan subject to ceiling of Rs. 25 lakhs.

Special incentives for Rural/s Village Industries

9.10 Package of incentives for small scale units (with capital investment not exceeding Rs. 1 lakh) and cottage units in selected villages under the Integrated Rural Development Programme are as follows:—

- (i) Grant of 15 per cent subsidy on capital investment upto a maximum limit of Rs. 15,000.
- (ii) Grant of subsidy in lieu of electricity duty to entrepreneurs in IRD areas as admissible at Industrial Focal Points in the Punjab State.
- (iii) Grant of subsidy for the purchase of improved tools and machinery to the village artisans to the maximum of Rs. 5,000.
- (iv) Grant of loan to the rural artisans in the IRD areas on subsidized rate of interest as fixed by the Central Government from time to time under Rural Industrial Project Schemes.
- (v) Grant of loans to the entrepreneurs other than artisans in the IRD areas on the subsidized rate of interest as fixed by the Central Government from time to time under RIP scheme.
- (vi) Interest free loans to entrepreneurs on annual sale as admissible under interest free loan.

9.11 Non-resident Indians, priority industries specially notified by Government from time to time (given below) and units in focal points will be entitled to higher incentives as admissible to next area group :

- (i) Tiny Units (investment on machinery not exceeding Rs. 1 lakh, in any industry).
- (ii) Electronic instruments/components (Any Sector).
- (iii) Agro-based industries like food products, vegetable and fruit preservation/canning and industries based on agricultural waste such as wheat and paddy straw, husk and bagasse, etc. (Any Sector).
- (iv) Agricultural machinery to be notified by the State Government from time to time (Large and Medium Sector).
- (v) Cotton Spinning and Weaving (Large and Medium Sector).
- (vi) Insecticides and Pesticides (Any Sector).

THE PLAN PROGRAMME

9.12 During the year 1979-80 the proposed plan programmes are mainly the continuation and enlargement of the measures already under implementation. There are some new initiatives like investment loan and land subsidy conceived in the Industrial Policy Statement. The programme will mainly promote private investment in the field of industry and some direct investments are also contemplated which are mostly of pioneering type. During the year 1977-78 an amount of Rs. 1122.16 lakhs has been spent. The anticipated expenditure during the current year is estimated at Rs. 1165.79 lakhs. The following table shows that there has been considerable step up in the allocation to industry in the State from the year 1974-75 onwards :

		Rs. in lakhs	
Year	Outlay	Actual Expenditure	
1974-75	675.00	664.32	
1975-76	887.91	771.27	
1976-77	1 261.91	1198.37	
1977-78	1 181.50	1122.16	
1978-79	1 165.79	1165.79	
1979-80	1 250.00	(anticipated)	..

9.13 For the year 1979-80, a sum of Rs. 1250.00 lakhs has been proposed which comprises of Rs. 960.50 lakhs for large and medium sector, Rs. 284.50 lakhs for village and small scale industries and Rs. 5.00 lakhs for Mines and Minerals. The major programmes for 1979-80 are discussed below :

INDUSTRIAL FINANCE

9.14 The Punjab Financial Corporation is the main term lending Institution in the State and provides medium and long term loans to new industrial concerns for the establishment of new units and to the existing industrial concerns for their expansion and modernisation. The loans are essentially for acquisition of capital assets in the form of land, building and machinery. Up to 1977-78, the total loan sanctions were 2,217 for an amount of Rs. 46.75 crores; of this 2,001 sanctions for a total amount of Rs. 31.57 crores were for the SSI units. The total disbursement up to 1977-78 were Rs. 34.41 crores to 1,913 loanees; of this, the small industries accounted for Rs. 23.06 crores and 1,717 units. The overall target for disbursement during 1978-79 has tentatively been fixed as Rs. 525.00 lakhs. For 1979-80 it has been estimated that the targets for sanctions and disbursement will be of the order of Rs. 940.00 lakhs and Rs. 650.00 lakhs respectively. This scale of operations calls for a stronger equity base for the Corporation. During the year 1978-79 a sum of Rs. 47.50 lakhs is provided for investment as equity in the Corporation and for 1979-80 a sum of Rs. 40.00 lakhs has been proposed. An equal amount will be provided by IDBI in accordance with the established pattern.

Investment in Public Undertakings

9.15 *The Punjab State Industrial Development Corporation* has played a major role in the field of large and medium industries. By the end of financial year 1977-78, the State Government had invested a sum of Rs. 1,715.00 lakhs in the equity capital of the Corporation. As against the physical target of seven units, four units went into production during the year 1977-78. The reasons for delays in completing the other projects range from late availability of financial assistance, shortage of building material and non-supply of plant and equipment in time etc. However, these projects have already been completed now. The projects which commenced production during 1977-78 were for the manufacture of scooters, trans-receivers, wool

tops and precision measuring instruments. Eight projects are likely to go into production as against the target of seven units during 1978-79. In fact three units one each for the manufacture of forgings, ceramics capacitors and malathion, have already commenced commercial production and the fourth unit commenced trial runs for the production of display tubes. Construction work has been taken up for three projects namely (i) Punjab Khand Udyog Ltd. (Two units-one each at Zira and Gurdaspur) (ii) Steel Strips Ltd. and (iii) Punjab Maize products Ltd. The Construction work on two projects namely (a) Bagrian Shoes Ltd. and (b) Punjab Ceramics Ltd. would be taken up soon. The proposed investment of Rs 450.00 lakhs in the projects during the year 1979-80 would ultimately generate gross investment of Rs. 11,440.06 lakhs and with this programme the Corporation would have put into operation 32 projects with gross investment of Rs. 7,612.00 lakhs which would provide employment to nearly 15,000 skilled, /un-skilled workers and managerial personnel by the year 1981-82. As per the industrial policy of the state, the Corporation is presently laying more emphasis on agro-based industry e. g. on Sugar Mills, Cotton Spinning Mills, Cotton seed Processing Unit, Maize Products etc. Besides, a sum of Rs. 25.00 lakhs is proposed to be invested as term loan under IDBI refinance scheme being operated by the Corporation in its capacity as the second State level financial institution.

9.16 *The Punjab State Small Industries Corporation* undertakes procurement and distribution of raw materials, creates infrastructural facilities such as development of Industrial Focal Points and construction of sheds, provides machinery on hire purchase basis, renders consultancy services, grants seed money, runs emporia and trade centres and makes available assistance in marketing and exports. There is, therefore, an urgent need for increasing the share capital base of the Corporation which at present is very weak. An outlay of Rs 45.00 lakhs has been provided during 1978-79 and a sum of Rs 35.00 lakhs has been proposed for the year 1979-80.

9.17 *The Punjab State Electronics Development and Production Corporation* besides taking up a number of production units, has undertaken the development of the Electronics Town at SAS Nagar where entrepreneurs will be encouraged to set up electronic units. The plan provision

for 1978-79 is Rs 30.00 lakhs and a sum of Rs 15.00 lakhs has been proposed for the year 1979-80.

9.18 The programme of *Punjab State Handloom and Textile Development Corporation* includes setting up of export promotion complex, a cotton waste spinning plant and a shoddy spinning plant besides the setting up of powerloom complexes. A provision of Rs 5.00 lakhs has been made during 1978-79 and outlay proposed for 1979-80 is Rs 8.00 lakhs.

9.19 *The Punjab State Hosiery and Knitwear Corporation* will provide technical, marketing, common facility and export assistance to the hosiery and knitwear industries. It is establishing a modern dyeing and finishing plant in collaboration with UNDP. The Corporation will promote new technology suited to local conditions. A sum of Rs 32.28 lakhs has already been advanced to the Corporation as share money in the Fifth Plan period. A provision of Rs 30.00 lakhs has been made for 1978-79 and an outlay of Rs 12.00 lakhs is proposed for 1979-80.

Small Scale Industries Programmes :

9.20 This head covers a large number of promotional programmes. An outlay of Rs 236.19 lakhs was spent under this sub-head during 1977-78 and Rs 358.69 lakhs are provided during 1978-79. A sum of Rs 284.50 lakhs has been proposed for the year 1979-80. The major programme in line with the Centre's guidelines is the establishment of District Industries Centres in all districts of the State. These centres will provide a package of facilities and services to the rural and other tiny and small entrepreneurs. The centres will work in close consultation and collaboration with the State Departments and Institutions, Central financial and other Institutions engaged in the development of cottage and small industries. Seven such Centres are proposed to be established during 1978-79 for which a provision of Rs 2.51 lakhs has been made and five more will be started during 1979-80 for which a provision of Rs 21.62 lakhs has been proposed. The non-recurring expenditure on these Centres is to be borne by the Government of India (excluding land) and recurring expenditure is to be shared between the Centre and the State in the ratio of 75:25. The total outlay of these centres during the year 1979-80 is estimated at Rs 100.87 lakhs

out of which Rs 79.25 lakhs has been provided under Centrally sponsored scheme.

9.21 Under the scheme 'Credit Facilities for the Development of Small Scale Industries', full provision of Rs 42.00 lakhs was utilised during 1977-78 benefiting 667 loanees. The outlay for 1978-79 is also fixed at Rs 42.00 lakhs. The credit is mostly available to tiny units who find it difficult to borrow from the financial Institutions and the amount that can be advanced to a single party is limited to Rs 10,000. The State policy, however, is to encourage even tiny units to tap the financial institutions. Accordingly provision for 1979-80 has been reduced to Rs 15.00 lakhs only. To enable such units to borrow from the Institutions at the low rates as are charged under the State Aid to Industries Act, a subsidy on interest has been provided. The rate of subsidy has been limited to 4%. A sum of Rs 5.00 lakhs has been proposed for the year 1979-80 for this scheme. Under another scheme, a sum of Rs 1.00 lakh has been provided for grant of subsidy under State Aid to Industries Act to S.S.I. units for assistance for research work, purchase of equipment and the like. The Central subsidy scheme of 15% on the fixed capital investment is applicable in three backward districts of the Punjab State viz. Hoshiarpur, Sangrur and Bhatinda. A similar scheme has been proposed for the grant of this subsidy on the same pattern to new Industries set up in the border districts, bet areas, sub-montane areas and areas which have been recognised as backward by the State. A provision of Rs 3.00 lakhs has been made during 1978-79 and Rs 10.00 lakhs has been proposed for 1979-80.

9.22. The Small-scale units in most cases are suffering from backward technology. In order to upgrade their technology, a number of schemes were initiated in the Fifth Plan for creating common services/testing facilities. These would enable the SSI units to improve quality control and standardisation. The plan provides for the early completion of these facilities which include, (i) The Industrial Development Centres for providing common facilities at Amritsar (Paints and Varnishes), Batala (Gear Cutting), Ludhiana (Plastic Moulds), Jullundur (Rubber Goods), Gobindgarh (Roll Grinding) and Bhatinda and Hoshiarpur (Enng.) are expected to start working by the end of 1978-79. A sum of Rs. 35.54 lakhs has been provided for the completion of these centres during the year, 1978-79 and a sum

of Rs. 14.75 lakhs has been proposed for 1979-80 for completion and running of these centres as a spill over programme, (ii) The Quality Marking Centres at Ludhiana (Electronics), Rajpura (Engg.) & Bhatinda (Engg.) have started functioning. On completion of their buildings by March, 1979, they will start functioning in full strength from 1979-80. The buildings for the Quality Marking Centres at Malerkotla and Moga (Engg.) which has already begun to function will be ready by 1978-79 and 1979-80 respectively. A sum of Rs. 7.48 lakhs has been provided for 1978-79 and a provision of Rs. 4.91 lakhs has been proposed for 1979-80 for completion of spill over programme of these centres. (iii) The Machine Tool Design and Development Centre (Batala), the Research & Development Centre for Bicycles, Ludhiana and the Sewing Machine Development Centre, Ludhiana will be taken up for implementation during 1979-80. Their project reports are under consideration, (iv) The building for the Tool Room, Ludhiana being set up by the Government of India with FRG aid for assisting the SSI units in designing/manufacturing good quality jigs and fixtures is to be provided by the State. The construction work is going on and a major part of the building is expected to be completed during 1978-79 for which a sum of Rs. 24.60 lakhs is provided. An outlay of Rs. 5.00 lakhs has been proposed for 1979-80. Similarly building for Hand-tool Design Institute, Jullundur to be set up by the Government of India, is also to be provided by the State Government. The building work is expected to start during 1979-80 for which a sum of Rs. 5.00 lakhs has been proposed, (v) For the Punjab Test House, provision for 1978-79 has been made at Rs. 5.96 lakhs and for 1979-80 proposed at Rs. 6.50 lakhs. Three Laboratories will start functioning during 1979-80. A sum of Rs. 5.00 lakhs has been provided during 1978-79 and Rs. 2.50 lakhs during 1979-80 has also been proposed for the completion of the building to be provided to the Regional Sub-centre of ISI. It is proposed to set up consultancy technical services and testing facility centres for chemical industries also. A sum of Rs. 2.25 lakhs has been proposed for the year, 1979-80. Under a scheme for the modernisation of Small-scale Industries reports are prepared for modernisation of selected units and incentives provided for implementation. A sum of Rs. 7.42 lakhs has been provided for 1978-79 and Rs. 7.50 lakhs has been proposed for 1979-80,

(vi) The Electronics Testing & Development Laboratory has started functioning at SAS Nagar. The building for this Laboratory will be completed during 1979-80. The spillover work of the building will be taken up during 1979-80. The first phase of the programme is expected to be completed by 1978-79 during which year a sum of Rs. 18.00 lakhs has been provided. For the year, 1979-80 a sum of Rs. 8.00 lakhs has been proposed. The laboratory will start functioning in full swing during 1979-80, (vii) The outlay for the programme of Leather Industry is provided at Rs. 15.60 lakhs for 1978-79 and Rs. 21.30 lakhs has been proposed for 1979-80. The programme is the continuation/completion of the work taken up during the Fifth Plan period. It included the setting up of 3 Hide Flaying and Carcass Utilisation Centres, the establishment of Light Leather Development Centre at Amritsar for providing tanning of light leather required by the Sports Industry, (viii) The Sports Goods Industry, which is very suitable for development in the Small-scale Sector, is concentrated at Jullundur. It is proposed to set up a Sports Goods Complex there on the basis of the feasibility study undertaken by the Trade Development Authority. A provision of Rs. 4.00 lakhs has been proposed during the year, 1979-80 for taking up this project. Provision has also been proposed for a Surgical Complex at Jullundur at Rs. 1.50 lakhs for 1979-80. A sum of Rs. 5.20 lakhs has been provided during 1978-79 for Trade Centre and Rs. 4.00 lakhs has been proposed for 1979-80. For the scheme 'Participation in International Fairs' a sum of Rs. 13.71 lakhs has been provided for the year, 1978-79 and Rs. 3.00 lakhs are proposed for 1979-80. The provision for 1978-79 is exceptionally higher in view of the participation of State on large scale in the National Small Industries Fair, 1978 at Delhi. Provision of soft loan to PSSIC has been proposed at Rs. 2.50 lakhs for 1979-80.

9.23 Several schemes aim at promoting employment of the unemployed engineers, the educated unemployed, and the qualified technicians and skilled workers. These schemes include training for guaranteed employment, training for self-employment, promotion of self-employment through seed or margin money assistance and supply of machinery on hire purchase basis. The employment promotion programme is being implemented under the State Plan from the financial year 1975-76 onwards. The various

schemes under the programme have helped in removing the unemployment, to some extent, amongst the educated unemployed persons in urban areas. During 1977-78 an expenditure of Rs. 5.09 lakhs was incurred on this programme. 256 persons got training under the training schemes. During 1978-79 the provision is Rs. 31.32 lakhs, 1,500 persons are likely to get benefit during this year. For 1979-80 a provision of Rs. 21.00 lakhs has been proposed which would benefit 770 persons.

Industrial Areas/Incentives to New Industries

9.24 The scheme 'Setting up of Focal Growth Points for Industries' was started in 1967-68. It was aimed at integrated development of large, medium and small scale industrial units by providing infrastructural and other facilities. Under the scheme land is acquired by the Department of Industries and transferred to PSSIC for development of infrastructural facilities. Plots of varying sizes are carved out and are allotted to the intending entrepreneurs on 'No Profit No loss' basis. The targets for 1978-79 for the acquisition of land is of the order of 370 acres, SAS Nagar (100 acre), Dhandari Kalan (200 acres) and Ahmedgarh (70 acres). 12 Focal Points at S.A.S. Nagar, Dhandari Kalan, Rajpura, Hoshiarpur, Khanna, Moga, Kotkapura, Bhatinda, Nawanshahr, Taran Tarn, Sangrur and Nabha are already developed and Focal Points at Jullundur and Batala will be developed by the end of the year 1978-79. The target of development of land for 1978-79 is 269 acres i.e., 114 acres at Jullundur, 104 acres at Batala and 51 acres at Taran Tarn. During the year 1979-80, it is proposed to acquire 450 acres of land, Jullundur (100 acres), Phagwara (100 acres), Bhatinda (50 acres), Moga (50 acres), Ahmedgarh (50 acres) and Amritsar (100 acres). The target for development for 1979-80 is 456 acres viz 47 acre at A bohar, 59 acres at Bhatinda 50 acres at Malerkotla 200 acres at Dhandari Kalan and 100 acres at Amritsar.

9.25 In the past, the occupation rate of developed plots has been low primarily because of the shortage of power but it has started picking up. In order, however, to speed up the Industrial growth rate, a new look has been taken on the incentives policy. It is envisaged to afford the incentives available under this scheme not only to the existing units in the selected areas, such as focal points/Industrial Estates/areas/

Sub-Montaneous, Bet and Backward areas but to cover all the new units of the State irrespective of their location thereby widening the sphere of the scheme. Besides, two new incentives viz. investment loan for priority industries and land subsidy-both for developed and un-developed plots, have been introduced for the first time. The provision for 1978-79 is Rs. 224.00 lakhs and a sum of Rs. 410.50 lakhs is proposed for the year 1979-80.

Handloom Industries

9.26 There are about 20,500 handlooms employing 34,000 persons. The plan programmes include, interest free loans for margin money, marketing assistance, regular supply of inputs at reasonable prices, modernisation, setting up of training-cum-production centres in sub-montane areas, provisions of sheds to weavers, training of weavers and rebate on sale of cotton handloom cloth. The plan provision for the year 1978-79 is Rs. 10.77 lakhs and Rs. 12.00 lakhs has been proposed for 1979-80.

Village Industries

9.27 The Integrated Rural Development Programme is being implemented in collaboration with the Punjab Khadi and Village Industries Board. During 1977-78, it is estimated that employment for 5,152 persons was created in 1,803 units and financial assistance of the order of Rs. 38.83 lakhs was rendered. During 1978-79 a sum of Rs. 35.65 lakhs is provided for setting up 4,000 village industries units and 1,000 small scale industries units in the rural areas. The provision for 1979-80 is proposed at Rs. 40.00 lakhs and target for village industries units to be set up is 1,500 and for small scale industries units in rural area it is 1,755.

Handicraft Industries

9.28 The programme of supply of improved appliances, study tours of master craftsmen, celebration of All India Handicrafts Week and training -cum-production in carpet weaving, leather embroidery, toy making, fancy leather, and artistic furniture will be undertaken. The marketing of Handicrafts is undertaken by P.S.S.I.C. The Corporation is also taking a hand in the development of Handicrafts. The plan provision for 1978-79 is Rs. 3.36 lakhs and a provision Rs. 3.53 lakhs is proposed for 1979-80.

Sericulture

9.29 There is an outlay of Rs. 3.52 lakhs during the year 1978-79 for the sericulture programme. This includes, the establishment of one sericulture farm in the border area, three sericulture farms in the sub-montaneous area, three extension centres in sub-montaneous area and the construction of Grainage building at Sujampur besides subsidy to the selected silk worm rearers, one sericulture farm in the border area, one sericulture farm in the sub-montaneous area and two extension centres in the sub-montaneous area will be set up during the year 1978-79. The establishment of two sericulture farms and one extension centre in the sub-montaneous area and the work of construction of grainage building will be taken up during 1979-80 besides granting subsidy to selected silk worm rearers. The provision for this programme is proposed at Rs. 5.16 lakhs for 1979-80.

Statistics

9.30 It is necessary to fill certain gaps in information for example, with regard to production data. As a sequel to the revised policy with regard to the registration of small scale units returns containing varied information have to be provided to the Government of India at specified intervals. Accordingly provision for 1978-79 has been made at Rs. 1.00 lakhs and for 1979-80 an amount of Rs. 0.42 lakhs has been proposed.

Mines and Minerals

9.31 Punjab has no known reserves of important minerals. Accordingly only a modest provision of Rs. 5.00 lakhs has been made for 1979-80 for mineral exploration, geo-technical survey and completion of the building of the Geological Laboratory. Provision of Rs. 5.00 lakhs also exists for 1978-89.

Weights and Measures

9.32 A sum of Rs. 3.00 lakhs has been proposed for the year 1979-80 for the enforcement of the weights and Measures Act. The provision for 1978-79 is Rs. 3.60 lakhs. The provision has been made for the purchase of machinery and equipment, construction of Laboratory building, staff for enforcing the provision with regard to the taxi-fare meters, clinical thermo-meters, water meters, weights and measures used in post offices and new miscellaneous trades.

9.33 Head/Sub-head wise summary of the proposed plan allocations for the year 1979-80 is as under :—

Head/Sub-head of Development	Rs. in lakhs
1. Industrial and Financial Institutions	41.00
2. Investment in Public Undertakings ..	545.00
3. Direction and Administration ..	1.81
4. Small Scale Industries ..	182.58
5. Industrial Areas/Incentives to New Industries ..	410.50
6. Handloom Industry ..	12.00
7. Village Industries ..	40.00
8. Handicrafts Industries ..	3.53
9. Sericulture ..	5.16
10. Statistics ..	0.42
11. Mines and Minerals ..	5.00
12. Weights and Measures ..	3.00
Total ..	1250.00

Transport and Tourism

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

ROADS AND BRIDGES

10.2 In a predominantly agricultural State, with large surpluses of farm produce, village roads are an essential component of the rural infrastructure. A 'Crash Programme' for village roads was launched in the Fourth Five-Year Plan and an expenditure of Rs. 49.48 crores was incurred on roads under this programme. The road kilometrage at the end of Fourth Plan increased to 22,258 kms. (excluding N.H.) from 7278 during 1968-69. The length of National Highways increased from 515 kms. during 1968-69 to 964 kms. during 1973-74. Hence the total road length including National High Ways in the State as on 31st March, 1974 was 23,222 kms.

Fifth Plan Progress

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

Serial No.	Item	Position as on	
		1973-74	1977-78
0	1	2	3
		(Kms.)	
1	National Highways	964	964
2	State Highways	1862	1900
3	Major District Roads	2076	2100
4	Other District Roads	2335	2346
5	Village Roads (including marketing Committee Roads)	15985	21246
	Total Roads	23222	28556

Plan Performance 1977-78

10.4 A sum of Rs. 19.50 crores was originally earmarked for the sub-head, "Roads & Bridges" which was later on revised to Rs. 14.12 crores due to revision of State Plan. The actual expenditure incurred was Rs. 13.29 crores which is 94.13% of revised outlay.

10.5 On the physical side, the target was to construct 1000 kms. of link roads whereas 1012 kms. of link roads were constructed. Besides, 634 kms. of roads were also constructed under M.C./M.B. programme. A record number of 1036 villages were brought on road map during 1977-78. Thus the number of villages not connected by roads which stood at 2821 as on 31st March, 1977 was reduced to 1785 as on 31st March, 1978. In addition to the construction of link roads, 23 kms. of Plan Roads were also constructed. The department had also widened 52 kms. of existing roads against a target of 50 kms.

Annual Plan 1978-79

10.6 A provision of Rs. 20.00 crores has been made for this sub-head during the current year. The anticipated expenditure will be of the order of Rs. 18.50 crores. The major stress is on the construction of village link roads as the expenditure likely to be incurred on village link roads will be Rs. 13.78 crores. It is anticipated that 2000 kms. of road length will be added to the village road net work giving metalled links to 1400 villages during the year. At the beginning of 1979-80 only 385 villages will be left unlinked which would require construction of 640 kms. of road length.

Annual Plan 1979-80

10.7 An outlay of Rs. 15.00 crores has been proposed for this sub-head. Significant provision of Rs. 5.00 crores is meant for the construction of village link roads. The rest of the schemes will be implemented with an outlay of Rs. 10.00 crores. The main programmes/schemes under this sub-head are discussed below.

Main Roads and Missing Links

10.8 Most of the main roads which were taken up during the Fourth Plan are nearing completion. An expenditure of Rs. 145.07 lakhs was incurred during Fifth Plan (1974-78) on main roads and missing links. An amount of Rs. 38.00 lakhs has

been provided during the current year. A sum of Rs. 40.00 lakhs has been proposed for 1979-80 for spillover works.

Improvement, widening and providing additional crust on Existing Roads

10.9 The concentration on village roads has brought the villages into intimate contact with the mandies and the rest of the State. But this has been achieved at the cost of other roads. In the meantime, in the absence of any further extension of the railway system, there has been a sharp increase in the goods and passenger traffic on State Highways and district and other roads. The State Government have, therefore, accorded high priority during (1979—83) for improvement and widening of these roads and providing additional crust on them. Under this programme, an expenditure of Rs. 311.20 lakhs was incurred during 1974—78. The provision in the current year is Rs. 85.00 lakhs. Under this scheme a sum of Rs. 50.00 lakhs as advance central assistance has been provided during the current year in order to ensure up keep and maintenance of roads which have damaged due to floods. A sum of Rs. 325.00 lakhs has been proposed for 1979-80 for carrying out this programme. Besides, geometrics of the roads will also be improved in certain cases.

Village Roads

10.10 There are a total number of 12188 villages in the State. It has been assessed that for linking all the villages in the State would involve construction of 23886 kms. of village link roads. A 'Crash Programme' for village roads was launched in the Fourth Five-Year Plan. Eversince, the village roads have been accorded high priority. During 1974—78, an expenditure of Rs. 2926.13 lakhs was incurred on this programme, and during this period 261 kms. of road length were completed bringing the total road kilometreage constructed under this scheme from 15985 kms. at the end of 1973-74 to 21246 at the close of 1977-78. The number of villages not connected by roads which stood at 3800 at the end of 1973-74 was reduced to 1785 as on 31st March, 1978, by connecting 2015 villages during 1974—78. As on April, 1978, 1785 villages were still left unlinked with roads which required construction of 2640 kms. of link roads. It was proposed to provide links to all villages by the end of 1978-79.

Due to certain unforeseen circumstances like shortage of bricks, non-availability of the required width of

land and situation of certain villages in difficult areas viz. Kandi, Bet and Border areas, proposed targets are not likely to be achieved. It is anticipated that 2000 kms. of road length will be added to the village roads net work giving metalled link roads to 1400 villages. The number of villages left unlinked at the beginning of 1979-80 would be 385 which would require construction of 640 kms. of road length. A sum of Rs. 5.00 crores has been proposed for 1979-80 for completing the spillover work pertaining to surfacing of village roads already metalled and to construct the balance of 640 kms. of road length required to provide links to the remaining villages. Besides, bridges and culverts on important village roads will also be constructed in order to make these all weather roads.

10.11 Under another programme, the Zila Parishad roads are taken over by the State Government for bringing them upto P.W.D. standard. A sum of Rs 35.91 lakhs was spent during 1974-78. A sum of Rs. 45.00 lakhs has been proposed for this purpose against a provision of Rs. 20.00 lakhs during the current year.

Bridges

10.12 A number of bridges on important Highways are needed to provide all weather transport facilities. Under this programme, an expenditure of Rs. 156.88 lakhs was incurred during the Fifth Plan (1974—78). A provision of Rs 100.00 lakhs has been made in the current year. For the annual plan 1979-80, a sum of Rs. 250.00 lakhs has been proposed for the construction of bridges. Under this scheme a bridge on river Beas near Goindwal is to be completed during 1979-80. This bridge is likely to cost Rs. 3.75 crores. Other important bridges to be completed under this scheme fall on Patiala-Pehowa road which crosses river Ghaggar, Tangri and Markanda.

Central Road Fund Scheme

10.13 The Central Road Fund is fed from the proceeds of a levy on motor spirit. From this fund, allocations are made to the State Government for approved road programmes. A part of the cost of the bridge on river Beas near Goindwal is being met from this source. Under this programme, the expenditure incurred during the Fifth Plan (1974-78) was Rs. 169.24 lakhs. The provision in the current year is Rs.100.00 lakhs. A sum of Rs. 50.00 lakhs has been proposed for 1979-80.

Machinery

10.14 In order to cope with the enlarged road building and maintenance programme, as also to ensure standardisation and quality control, a sum of Rs. 125.00 lakhs has been proposed for the purchase of machinery in order to introduce mechanization in the construction of roads.

Improvement of Roads within Municipal Limits

10.15 The improvement of stretches of state roads that lie within the municipal limits is the responsibility of the State Government. Under this programme, an expenditure of Rs. 161.84 lakhs was incurred during the Fifth Plan (1974-78). A provision of Rs. 75.00 lakhs has been made in the current year. To accelerate the construction of all the continuing works, an outlay of Rs 50.00 lakhs has been proposed for 1979-80.

Bye-passes

10.16 The growth of internal traffic in a number of towns calls for bye-passes to enable smooth and uninterrupted flow of through-traffic. An outlay of Rs. 90.00 lakhs has been proposed for 1979-80.

Research and Development

10.17 The provision for research and development has been sharply stepped upto Rs. 25.00 lakhs as against an expenditure of Rs. 2.20 lakhs during 1974-78. It has been proposed to set up a laboratory in the State.

10.18 In order that the physical achievements are commensurate with the Plan provision, determined efforts will be necessary to bring about a radical improvement in the efficiency and quality of road and bridge construction. In this sector, there is also a large scope for supplementing the plan funds with the Central aid available under the 'Food for Works Programme.' Under this programme 18,530 Metric tonnes of wheat has been allocated to the Department of Public Works during the current year. Out of this allocation, the department so far utilized 3000 metric tonnes of wheat costing Rs. 3.15 lakhs resulting in generation of 53850 mandays.

ROAD TRANSPORT

10.19 The goods transport is almost entirely in the private sector. The passenger transport is shared between the two public undertakings and the private sector, the desired ratio being 60 : 40. In

the Plan, provision has been made only for the two public sector undertakings. Their urgent requirements include construction of additional depots so as to maintain the norm of 100 buses per depot ; replacement of old buses, addition to the fleet, and provision of workshop facilities. A sum of Rs 600.00 lakhs has been proposed for 1979-80 as against the actual expenditure of Rs. 2142.51 lakhs during the Fifth Plan (1974-78).

Punjab Roadways

10.20 The Punjab Roadways, being a departmental undertaking, has no access to institutional sources. Its requirements have to be met entirely from the State Plan. During the Fifth Plan (1974-78) an expenditure of Rs 1658.66 lakhs was incurred by the Punjab Roadways and 475 buses were added to the fleet. On 31st March, 1978, the total strength of the fleet was 2171 buses. Besides 740 buses were purchased for replacement of old buses during 1974-78.

Plan performance 1977-78

10.21 An outlay of Rs. 600.00 lakhs was provided for Punjab Roadways in the Annual Plan 1977-78 which was later on revised to Rs. 353.00 lakhs due to the revision of the State Plan. The actual expenditure incurred was Rs. 343.57 lakhs, showing a performance of 97.25%. The Punjab Roadways had added 70 buses to its fleet during the year. Thus the fleet strength of Punjab Roadways had increased from 2101 buses as on 31st March, 1977 to 2171 buses as on 31st March, 1978. The daily kilometerage were increased from 4,00,377 kms. as on 31st March, 1977 to 4,20,318 kms. as on 31st March, 1978. Besides 143 buses were replaced during the year. The outlays and expenditure for the implementation of the development programme are given in the following table :—

(Rs. lakhs)

Sr. No.	Scheme	Outlay 1977-78		Expenditure incurred during 1977-78	Percentage performance	
		Original	Revised			
0	1	2	3	4	5	
	1. Land and Building	..	50.00	50.00	38.08	71
	2. Motor vehicles (addition)	..	338.00	91.00	101.88	112

	1	2	3	4	5
3. Motor vehicles (replacement)	202.00	202.00	199.57		99
4. Workshop facilities ..	8.00	8.00	3.07		36
5. Other expenditure ..	2.00	2.00	0.97		50
Total ..	600.00	353.00	343.57		97.25

Annual Plan 1978-79

10.22 A provision of Rs. 390.00 lakhs has been made for Punjab Roadways during the current year. The anticipated expenditure will be of the order of Rs. 351.00 lakhs. It is proposed to add 100 buses to its fleet during 1978-79. Besides, 134 buses will be purchased for replacement of old buses during the year.

Annual Plan 1979-80

10.23 An outlay of Rs. 495.00 lakhs has been proposed for Punjab Roadways for 1979-80. The proposed outlays for the implementation of the development programme are given in the following table :—

Sr. No.	Item	Amount (Rs lakhs)
0	1	2
1.	Land and Building	.. 105.00
2.	Acquisition of fleet—	
	(i) Addition	.. 73.35
	(ii) Replacement	.. 300.40
3.	Workshop facilities	.. 14.25
4.	Other expenditure	.. 2.00
	Total	.. 495.00

10.24 Out of the total outlay of Rs 495.00 lakhs, Rs 300.40 lakhs will be met out of the Depreciation Reserve Fund. The balance of Rs 194.60 lakhs will be the net investment from the State Budget. As a result of this investment programme, the total number of buses with the Punjab Roadways will increase from 2,271 at the end of 1978-79 to 2,321 at the end of 1979-80. Besides, 206 buses will be replaced during 1979-80. The department have proposed to set up four new depots at an estimated cost of Rs 40.00 lakhs.

Pepsu Road Transport Corporation (PRTC)

10.25 During the Fifth Plan (1974-78), the Corporation spent an amount of Rs 483.85 lakhs out of which the State Govt. contributed a share capital of Rs 287.00 lakhs. The total number of buses added to the fleet during the Fifth Plan was 91 buses besides replacement of 219 buses.

Plan Performance 1977-78

10.26 The PRTC had a plan of Rs 373.75 lakhs for 1977-78 which was subsequently reduced to Rs 223.78 lakhs due to paucity of funds. The financing pattern of the Corporation was as under :—

Sr. No.	Source	Amount (Rs lakhs)
0	1	2
1.	State Govt.'s contribution	.. 115.25
2.	Northern Railway's contribution	.. 48.00
3.	Loans raised from banks	.. 16.00
4.	Internal resources of the Corporation	44.53
	Total	.. 223.78

10.27 The PRTC had incurred an expenditure of Rs 232.68 lakhs against a plan of Rs 223.78 lakhs. The break up of expenditure incurred during the year is given as under :—

Sr. No.	Item	Expenditure incurred (Rs lakhs)
0	1	2
1.	Land and Building	.. 6.44
2.	Acquisition of fleet—	
	(i) For normal expansion	.. 45.39
	(ii) For replacement	.. 117.45
3.	Workshop facilities	.. 1.23
4.	Capital share payable to successor States	.. 15.25
5.	Repayment of principal to banks	46.92
	Total	.. 232.68

10.28 During 1977-78, the Corporation had purchased 116 buses. Out of these, 87 buses were put under replacement, and remaining 29 buses were added under expansion programme. Thus the fleet strength of PRTC had increased from 774 buses at the end of 1976-77 to 803 buses at the end

of 1977-78. During 1977-78, the Corporation had covered 545.09 lakhs effective kms. over 521.64 kms. during 1976-77, thus as many as 23.45 lakhs additional kms. were covered during 1977-78. The total receipts of the Corporation were increased from Rs 853.31 lakhs in 1976-77 to Rs 941.59 lakhs in 1977-78.

Annual Plan 1978-79

10.29 The Corporation has a plan of Rs 417.00 lakhs for 1978-79. The financing pattern is as under :—

(Rs lakhs)		
Sr. No.	Source	Amount
0	1	2
1.	State Govt. contribution	.. 105.00
2.	Northern Railway's contribution	.. 52.50
3.	Loans to be raised from banks	.. 259.50
	Total	.. 417.00

Against capital receipt of Rs 240.52 lakhs the Corporation has so far (as on 30-9-78) spent Rs 243.27 lakhs on various programmes. The Corporation will add 77 buses to its fleet and replace 93 buses during the year.

Annual Plan 1979-80

10.30 The Corporation proposed to implement its Annual plan 1979-80 with an outlay of Rs 393.80 lakhs. The PRTC being a corporate body, avails of institutional finance. The State Govt. and the Central Govt. contribute in the ratio of 2 : 1. The sources of finance of Rs 393.80 lakhs is given as under :—

(Rs lakhs)		
Sr. No.	Source	Amount
0	1	2
1.	State Govt.	.. 105.00
2.	Northern Railway's contribution	.. 52.50
3.	Bank loans	.. 236.30
	Total	.. 393.80

10.31 The development programme of the PRTC is given in the following table :—

Sr. No.	Particulars	No. of buses	Outlay (Rs. in lakhs)
0	1	2	3
1. Acquisition of Fleet—			
	(i) For normal expansion	81	} 275.25
	(ii) For replacement ..	113	
2.	Land & Building ..		50.00
3.	Workshop facilities ..		10.00
4.	Payment of Interest to the State Govt. ..		58.55
	Total ..	194	393.80

10.32 As a result of this investment, the total number of buses with the Corporation will increase from 880 at the end of 1978-79 to 961 at the end of 1979-80. The Corporation will undertake additional scheduled kilometrage of 16,848 during 1979-80.

CIVIL AVIATION

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

Plan Performance 1977-78

10.34. A sum of Rs 14.00 lakhs was provided during 1977-78 for the sub-head 'Civil Aviation' which was later on revised to Rs 13.00 lakhs. As against this, the expenditure incurred was Rs 17.58 lakhs showing a performance of 135%. The excess expenditure incurred relates to the scheme covered under Capital account. During this period, Student Pilot Licences were issued to 111 trainees, private pilot licences to 25 trainees, commercial pilot licences to 5 trainees. Besides, AFIR (Assistant Flight Instructor Rating) training and FIR (Flight Instructor Rating) training were imparted to 5 Commercial Pilot Licence holders to make them perfect as pilot instructors.

Annual Plan 1978-79

10.35. A provision of Rs 8.00 lakhs has been made for this sub-head during the current year. The anticipated expenditure during 1978-79 will be of the order of Rs 7.20 lakhs. It is expected to train 150 boys and girls in flying and gliding. Besides, the work relating to extension of the runways at Patiala and Ludhiana airfields will be continued.

Annual Plan 1979-80

10.36. An outlay of Rs 9.00 lakhs has been proposed for 1979-80. The Annual Plan programme includes the following schemes :—

(i) *Establishment of Aircraft Maintenance Engineering School.*—It has been proposed to start AME school at Patiala. It will admit school leavers for a 3-year diploma course in aircraft maintenance. The school will make use of the workshop facilities available at Patiala. An outlay of Rs 1.50 lakhs has been proposed.

(ii) *Construction/Development of Aerodromes and extension of existing runways.*—The programme at existing aerodromes at Patiala and Ludhiana includes extension of runways and construction of taxi tracks at an estimated cost of Rs 46.47 lakhs. The runway at Ludhiana will be extended to 6,500 feet and the Patiala runway to 4,800 feet. The expenditure incurred upto 31st March, 1978 is Rs 27.12 lakhs and the likely expenditure upto 31-3-79 will be Rs 29.62 lakhs. A sum of Rs 2.50 lakhs has been proposed for 1979-80 for this continuing work.

(iii) *Purchase of Machinery.*—It includes setting up Simulator and V.H.F. sets and equipment. The preliminary flying training in instrument on the ground 'Simulator' will reduce the cost since the actual aircraft operations are very prohibitive. Fitment of V.H.F. sets have been made mandatory by the Director General of Civil Aviation from 1-1-1979 as the V.H.F. sets will facilitate trainer to contact ground station while flying and can get guidance from Air Traffic Control.

TOURISM

10.37. As a result of reorganisation in 1966, Punjab lost the hilly areas. Its tourism potential has since been largely limited to what may be called cultural tourism. The religious centres, the monuments, and the rich variety of traditional arts and crafts attract foreign and Indian tourists. With a view to promoting tourism, a separate Department of Tourism, Cultural Affairs, Archaeology and Museums was created in 1974. There has been a rapid expansion of tourist facilities ever since. Besides the previously existing facilities at Pathankot, Nangal, Shahpurkandi and Anandpur Sahib, new tourist facilities have been created at Ropar, Sirhind, Phagwara, Ludhiana, Chandigarh and Amritsar. Additional facilities are under implementation, including a 3-star hotel at Amritsar. On the basis of a survey undertaken through a specialised agency, the Department has drawn up a number of schemes for implementation during the Sixth Plan. These schemes cover board, lodging, transport, recreation and other facilities for tourists. The total cost of these schemes has been estimated at Rs 8.14 crores.

10.38. In order to remove the difficulties inherent in the departmental operation of the tourist facilities and to avail of institutional finance for tourist development, it has been decided to set up a Tourism Development Corporation. To the extent feasible and desirable, the existing tourist facilities will be transferred to the Corporation as and when it is formally incorporated. A sum of Rs 45.00 lakhs has been proposed as share capital for 1979-80. However, the implementation of the schemes proposed for the Sixth Plan would be entrusted to the Corporation likely to start functioning by the year end. It is hoped that, by mobilising institutional finance and by carefully husbanding its own internal resources, it will be possible for the Corporation to undertake its projected programme of development of tourist facilities.

CHAPTER XI

Education

General Education

An expenditure of Rs. 3,055.72 lakhs was incurred during 1974—78 on various schemes of Education in the State. For 1978-79, a provision of Rs. 1541.98 lakhs, including the training schemes, which is for employment of Scheduled Castes on reserved vacancies, has been made. Out of the provision of Rs. 1541.98 lakhs for

1978-79, a sum of Rs. 1275.00 lakhs will be taken over to the Non-Plan Budget as committed expenditure for 1979-80. This will take care of the level of education as obtained in 1978-79. For 1979-80, an outlay of Rs. 595.00 lakhs has been proposed under the sub-head 'Education'. The break down of the outlay is given in the following table :—

(Rs in lakhs)

Item	1978-79, Approved Outlay	1979-80, Proposed Outlay
1	2	3
1. School Education	1349.44	357.00
2. College and University Education	118.08	166.13
3. Languages	4.25	9.00
4. Sports	35.00	35.00
5. Youth Services (including N.S.S. and Planning Forums)	18.79	13.00
6. Archaeology and Museum	10.00	7.50
7. Promotion of Arts and Culture	4.00	3.00
8. Archives	0.25	0.50
9. District Gazetteers	0.25	—
10. Art and Culture Establishment and Strengthening of District Libraries	1.92	3.87
Total	1541.98	595.00

11.2 In 1979-80, the main stress will be on (i) maintenance of the existing educational facilities at the Elementary and Secondary levels ; (ii) streamlining of the present educational system by Job Oriented Courses gradually with a view to providing full employment opportunities to the coming generation; (iii) adult education; (iv) non-formal education; (v) strengthening of administration and supervision; and (vi) improvement in quality of education through the establishment of S.C.E.R.T. and work experience.

Primary School Education

11.3 *Expansion of Educational facilities in the age-group 6-11:* A (i) there is a primary school for every revenue village & the target of 100% universalisation of primary education has already been achieved.

In order to cater to the needs of the new townships/ colonies/habitations which are likely to develop, ten single teacher primary schools are proposed to be set up in 1979-80 at an estimated cost of Rs. 0.42 lakh. A sum of Rs. 28.45 lakhs has been provided for the purchase of furniture & the improvement of primary schools. Another amount of Rs. 3.85 lakhs has been proposed for the provision of lavatories & drinking water facilities.

A(ii) *Library Service* :—Libraries play a positive role in the educational development of children. It is, therefore, proposed to provide libraries to 50 Centre Primary Schools with a proposed outlay of Rs. 3.00 lakhs.

B. *Non-Formal Education* :—Though all efforts will be made to reduce the number of drop-outs

in the age group 6-11, there will still be many children who are not in a position to come to school due to certain economic reasons. Keeping this fact in view 50 Part-time Non-Formal Education Centres are proposed to be started during 1979-80 with a proposed outlay of Rs. 0.50 lakh.

11.4 Construction of Buildings: To provide school buildings, Panchayats & Parent-Teachers Associations are playing a vital role. However in backward, bet, sub-montaneous & border areas it is not possible to muster sufficient resources for the construction of school buildings. Keeping this fact in view, a sum of Rs. 10.00 lakhs is proposed to complete the spill-over works & meet the additional demand for school buildings.

11.5 Replenishment of Science Kits. Science Kits numbering about 14,000 have already been provided to all the Primary Schools of the State. However, certain consumable & breakable articles need regular replenishment. It is proposed to provide Rs. 1.50 lakhs in 1979-80 for this purpose.

11.6 Other Programmes (including Administration Supervision): The office of the D.P.I. (Schools) has been bifurcated and a separate Primary Directorate has been set up. As such 3,359 Primary Schools have been detached from the Middle/High/Hr. Sc. Schools in the State. The new administrative arrangement calls for strengthening of the office at the supervisory level. For this purpose, 66 additional posts of Block Education Officers alongwith supporting staff are proposed to be created in 1979-80 with an outlay of Rs. 8.28 lakhs.

11.7 School Education: For the school education (Middle & Secondary Education) a sum of Rs. 301.00 lakhs has been proposed, which consists of Middle Education (Rs. 134.82 lakhs), Secondary Education (Rs. 122.60 lakhs), Teachers Education (Rs. 13.00 lakhs) Adult Education (Rs. 12.97 lakhs), Physical Education (Rs. 15.33 lakhs) Direction, Administration & Supervision (Rs. 2.28 lakhs).

11.8 Middle School Education

(A) *Expansion of Educational facilities (age-group 11-14)* :

- (a) *Furniture to Government Middle Schools:*
Under this programme it is proposed to provide furniture to 725 Government Middle Schools/Middle Departments of High &

Hr. Sec. Schools/Departments at a cost of Rs. 14.50 lakhs during the year 1979-80.

- (b) *Posts of P.T.Is:* As the physical education has been made a compulsory subject, it is proposed to provide 200 posts of P.T.Is, to Middle Schools. The outlay proposed for this is Rs. 7.64 lakhs.

- (c) *Additional post of Masters/Mistresses:*
The target for additional enrolment for the year 1979-80 is set at 0.60 lakhs. For this purpose 650 additional posts of masters/mistresses will be created in 1979-80. The outlay proposed is Rs. 29.38 lakhs.

(B) *Non-Formal Education:* There is a high percentage of drops-out in the age-group 11-14. There are also others who can not continue or join the schools for economic reasons. It is proposed to run condensed courses for them in their free hours by establishing 100 centres for non-formal education. Proposed outlay for these centres will be Rs. 1.00 lakh.

11.9 Under the scheme Vocationalisation of Education at elementary stage and diversification of courses, outlays of Rs. 43.70 lakhs & Rs. 0.65 lakh, respectively have been proposed during the year 1979-80 to lay a sound foundation for Job Oriented Education.

11.10 Under the scheme Strengthening of Science Education, 240 science masters/mistresses with a proposed outlay of Rs. 10.84 lakhs, 270 sets of science kits for Middle Schools with a proposed outlay of Rs. 5.00 lakhs & for replenishment of Science Kits with a proposed outlay of Rs. 1.50 lakhs have been included in the year 1979-80.

11.11 *Strengthening of Supervisory Machinery:* Additional staff is required for effective supervision. During the year 1979-80, 42 posts of Deputy District Education Officers with supporting staff are proposed to be created. An outlay of Rs. 12.72 lakhs has been provided for this purpose.

11.12 *Secondary Education:* During the year 1978-79, it is expected that target of enrolment 2.83 lakhs children in the age-group 14-17, would be achieved. It is sought to increase enrolment by 0.21 lakhs bringing it to 3.04 lakhs by the end of 1979-80. For the Annual Plan 1979-80, an outlay of Rs. 122.60 lakhs has been proposed. With this outlay, 50 Middle Schools will be upgraded to High Standard & 10

quality schools will be provided in the rural areas. In addition to this, it is also to provide 2,191 scholarships to poor brilliant students during 1979-80.

11.13 A new scheme, holding of Science Talent Search Examination has been introduced with a proposed outlay of Rs. 0.20 lakh.

11.14 A sum of Rs. 10.00 lakhs has been provided for inservice training of teachers. Another sum of Rs. 3.00 lakhs is proposed for State Institute of Education/Science Education (Setting up of SCERT).

11.15 Adult Education: Keeping the national policy in view a sum of Rs. 12.97 lakhs have been proposed under the programme of Adult Education.

11.16 For encouraging games & Sports in schools a sum of Rs. 15.33 lakhs has been set aside for 1979-80.

COLLEGE & UNIVERSITY EDUCATION

11.17 As the maintenance of service records of the gazetted officers has been transferred to respective departments. Directorate is required to handle additional work in this respect. It is, therefore, proposed to provide additional staff at a cost of Rs. 1.59 lakhs during 1979-80. Another sum of Rs. 0.50 lakh has been provided for strengthening of the Planning Machinery in the directorate to enable to cope with increased work load.

11.18 A sum of Rs. 56.24 lakhs has been earmarked for grants-in-aid to Guru Nanak Dev University Amritsar & the Punjabi University Patiala & the Punjab Agriculture University Ludhiana for the chairs established by these Universities and for running of vocational courses and for completion of old and new building complexes.

11.19 A sum of Rs. 51.25 lakhs with a capital component of Rs. 45.00 lakhs has been proposed for expansion of Educational facilities in Government Colleges. During the year, it is proposed to establish one new Government College & open two Sports Wings in the Colleges.

11.20 A sum of Rs. 26.32 lakhs with a capital component of Rs. 6.00 lakhs has been proposed for improvement of existing Government Colleges. During the year 1979-80 it is proposed to provide 50 additional posts of lecturers with supporting staff to the Government Colleges, because the Principals have been allowed to admit 20 per cent more students in the Colleges.

11.21 A sum of Rs. 8.00 lakhs has been earmarked for the development of College Education under the U.G.C. sharing scheme. This scheme was introduced during the year 1977-78 and a sum of Rs. 4.89 lakhs was paid as State-share. Under this scheme U.G.C. assistance from 50 per cent to 100 per cent on sharing basis is available for strengthening various faculties.

11.22 For providing amenities to students in hostels of colleges a sum of Rs. 2.50 lakhs including the capital component of Rs. 2.00 lakhs has been set aside for 1979-80.

11.23 A sum of Rs. 15.00 lakhs has been proposed for State-Merit Scholarships.

11.24 An amount of Rs. 3.87 lakhs is proposed to be spent on the strengthening of District Libraries in the State. This includes Rs. 1.62 lakhs for completing the on going works of Guru Nanak District Library building at Jullundur.

OTHER PROGRAMMES

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

11.26 Development of Languages :—Under the scheme Development of Languages Punjabi, Hindi, and Urdu, the proposed outlay for the different schemes is Rs. 9.00 lakhs against the approved outlay of Rs. 4.25 lakhs for 1978-79. Besides, the development of Punjabi, Hindi & Urdu Languages, the following new programmes will be introduced during 1979-80 :—

(i) **Literary Centre, Delhi** :—Keeping in view that Delhi is Predominantly a Punjabi speaking city, where Punjabis out-numbered the population of all the District headquarters in Punjab put together, it is proposed to set up a Literary Centre at Delhi with a proposed outlay of Rs. 1.30 lakhs to promote Punjabi culture & literature.

(ii) **Mobile Exhibition-cum-Sale** :—For the exhibition of books & sale of departmental publications, it is proposed to acquire one mobile van, at a cost of Rs. 1.00 lakh in 1979-80.

(iii) **Paperback Series** :—As present unlike other regional languages, there is no such organisat-

ion or publisher in public or private sector for producing Punjabi literature in Paperback series. Keeping this fact in view, the Language Department, Punjab proposes to take up this task during the year, 1979-80 with a proposed outlay of Rs 2.00 lakhs.

(iv) **Pensions to Writers** :—At present the Language Department is offering financial assistance on an adhoc basis to writers in indigent circumstances. There is no scheme to provide monthly pension to such persons. To begin with, it is proposed to provide monthly pension to atleast those writers who have achieved great eminence and recognition in the field of Punjabi literature. For this purpose, an outlay of Rs. 0.45 lakh has been set-aside for the year, 1979-80.

11.27 N.S.S. / Youth Services:—The National Service Scheme is a Centrally shared scheme. It aims at imparting education through community service. Grant-in-aid are given to the universities at the rate of Rs. 60/- per student activists/campers. The expenditure is shared between the centre and the State in the ratio of 7 : 5. A sum of Rs. 7.50 lakhs is proposed during 1979-80 as the State share. It is proposed to cover 20,000 students as activists and 10,000 students as campers.

11.28 Planning Forums :—It is another Centrally shared scheme functioning under the supervision of Director Youth Services. Under this scheme an Annual grant-in-aid is given to Colleges at the rate of Rs. 400/- per category 'A' College & Rs. 1600/- per category of 'B' College. The expenditure is shared between the Centre and the State in the ratio of 6 : 4. The outlay proposed for the scheme is Rs. 0.20 lakh as the State share.

11.29 Youth Services :—The Department of Youth Services had been implementing different schemes for the welfare of Youths & channelising their energy towards national reconstruction. For the continuance of these schemes, an outlay of Rs. 5.30 lakhs has been proposed. during the year, 1979-80. The schemes are detailed as below :—

(i) **Punjab Inter-varsity Youth Festival** :

Youth Festivals are being held at the University level. This effort, however, can not bear fruit unless a chain of these Youth Festivals culminate into an Inter-University Festival. It is proposed to hold a Youth Festival of all the Universities of the State with 5000 students participants. The proposed outlay is Rs. 0.50 lakhs.

(ii) **Teachers Training Camp**

So far 150 teachers have been trained under this scheme. It is proposed to run one similar Teacher Training Camp at an estimated cost of Rs. 0.33 lakhs.

(iii) **Youth Leadership Training Camp**

The Department arranges lectures for the youth under this scheme. During the year it is proposed to hold 12 Youth Leadership Training Camps covering 800 campers during summer-vacation with a proposed outlay of Rs. 1.30 lakhs.

iii(b) **Hikes/Trekkes/Mountaineering in high altitude areas**

With a view to inculcate a spirit of adventure and to build up self confidence among youths it is proposed to send 10 Hiking/Trekking & Mountaineering parties during 1979-80. A sum of Rs. 0.87 lakh is proposed during 1979-80.

(iv) **Grant-in-aid for the establishment of village Youth Club**

Keeping in view the deteriorating moral values among the rural youths, number of clubs have been established in selected villages of the State. It is proposed to give grant-in-aid to 100 clubs and proposed outlay for this purpose is Rs. 0.50 lakh.

(v) **Inter-State Tours**

To make the Youth conversant with the culture and tradition of other States of the country, it is proposed to organise study tours during 1979-80 in co-operation with universities, colleges and Nehru Yuvak Kendras. It is expected that 1200 persons will be able to undertake such study tours and the outlay proposed for this is Rs. 1.20 lakhs.

Grant-in-aid to Colleges/Schools/Youth Clubs :

To raise clubs in the academic institutions for revival of youth activities in college and school students, it is proposed to cover 120 Colleges/Schools in the year 1979-80 with a proposed outlay of Rs. 0.60 lakh.

Sports and Games

11.30 During 1974—78 years of the Fifth Plan an expenditure of Rs. 103.81 lakhs was incurred on sports and games. An outlay of Rs. 35.00 lakhs is proposed for the year 1979-80 against Rs. 35.00 lakhs for 1978-79. The main activities of the Sports Departments are:—

- (i) Holding of Coaching Camps (Rs. 5.00 lakhs).
- (ii) Competition Scheme (Rs. 4.80 lakhs).
- (iii) Scholarships (Rs. 2.50 lakhs).
- (iv) Purchase of Sports equipments (Rs. 5.00 lakhs).
- (v) State Sports Academy (Rs. 4.70 lakhs)
- (vi) Construction of Sports Complexes—grant-in-aid to the State Sports Council (Rs. 13.00 lakhs).

Archives :

11.31 The outlay for 'Archives' during 1979-80 is Rs. 0.50 lakh. The approved outlay for 1978-79 is Rs. 0.25 lakh. This is for the continuance of the programmes.

Archoecology and Museum

11.32 During 1974—78 years of the Fifth Five-Year Plan an expenditure of Rs. 20.10 lakhs was incurred on the various schemes of the Archaeology and Museum Department. For 1979-80, an outlay of Rs. 7.50 lakhs is proposed against the approved outlay of Rs. 10.00 lakhs in 1978-79. The proposed outlay is for the continuation of the following schemes:—

- | | (Rs. in lakhs) |
|---|----------------|
| (i) Conservation of Ancient and Historical Monuments (Office expenses) | 5.00 |
| (ii) Archaeological Operations Excavation and Exploration (Office Expenses) | 0.40 |
| (iii) Display Equipment for existing Museum Galleries including purchase of Art and antique objects | 0.80 |
| (iv) Development of the State Archaeological Library | 0.10 |

(v) Equipment and Machinery	..	0.40
(vi) Transplantation of Paintings	..	0.40
(vii) Setting up of an Archaeological Laboratory including the Chemical Conservation expenses of Archaeological building antiquities and Museums objects.		0.40
Total	..	7.50

11.33 Promotion of Art and Culture

An expenditure of Rs. 8.91 lakhs was incurred during the years 1974—78 of the Fifth Five Year-Plan. The proposed outlay for 1979-80 is Rs. 3.00 lakhs against the approved outlay of Rs. 4.00 lakhs for 1978-79. The outlay proposed is mainly to continue the old schemes of revival of folk songs, dances and promotion of drama. It is also proposed to give grant-in-aid to institutions engaged in the promotion of art and culture.

TECHNICAL EDUCATION

11.34 Training of personnel has to start many years in advance of requirements. Action in relation to the requirements of diversified Punjab economy ten years hence must, therefore, be taken now. Technical Education is an important means towards turning out more employable educated persons. There is also the consideration that technical education will enable the large number of Punjabis seeking employment opportunities abroad to qualify for better paid and more respectable jobs. For all these considerations, the Plan provides for a sharp step up in outlays, from just Rs. 74.00 lakhs during 1974-78 to Rs. 352.00 lakhs during the next four years. The total outlay under the Sixth Plan (1978-83) is Rs. 387.30 lakhs.

11.35 The principal programmes of Technical Education pertain to:—

- (i) consolidation and development of polytechnics, introduction of new diploma courses, and modernisation of equipment;
- (ii) establishment of training-cum-production centres and introduction of part-time diploma, AMIE and degree courses;

- (iii) assistance to private engineering colleges for faculty improvement, modernisation of equipment, diversification of courses, introduction of new disciplines and other measures for consolidation and development ;
- (iv) Scholarships for degree and diploma students ;
- (v) development of libraries ; and
- (vi) residential accommodation and other amenities to staff and students in engineering colleges and polytechnics.

11.36 Annual Plan 1979-80

The proposed outlay for Technical Education for the year 1979-80 is Rs. 42.00 lakhs against an approved outlay of Rs. 35.30 lakhs for 1978-79. The main programmes to be implemented during the year 1979-80 are discussed below :—

1. Direction and Administration

Keeping in view the recommendations of the Government of India, the Directorate of Technical Education is to be reorganised. To enable it to perform the professional functions effectively an outlay, of Rs. 0.80 lakh is proposed.

2. Engineering Colleges

A sum of Rs. 7.20 lakhs has been proposed for the year 1979-80. Out of this proposed outlay a sum of Rs. 2.80 lakhs is for modernisation & replacement of equipment & diversified degree course in electronics & communication in Thapar Institute of Engineering & Technology, Patiala. Keeping in view the demand of engineers in the State the following new courses are proposed to be started during the year 1979-80 :—

(Rs. in lakhs)

Name of the Course	Proposed outlay
TE 2.1 Diversification of Course at TIET, Patiala .	.. 0.40
TE 2.2 Sandwich Degree Course in Textile Technology TIET, Patiala	.. 0.40
TE 2.3 Diversified Degree Course in Electronics and Electrical communication at GNEC, Ludhiana	0.80

TE 2.4 Diversified Sandwich type degree course in Production Engg. at GNEC. Ludhiana.	.. 0.40
TE 2.5 Production/Service-cum-Training Centre in Engg. Colleges	.. 0.40
TE 2.6 Part-time Degree Course in Engg. Colleges	.. 0.40
TE 2.7 Revision of Staff structure in Engg. Colleges	.. 0.40
TE 2.8 Faculty Exchange Programme and visiting professors	.. 0.40
TE 2.9 Consultancy Service in Engg. Colleges	.. 0.40
Total	.. 4.00

3. Polytechnics

Under this minor sub-head a sum of Rs. 20.32 lakhs is proposed against the approved outlay of Rs. 9.23 lakhs for 1978-79.

Keeping in view the rising demand of technical personnel in the State, the following new courses will be started in the Polytechnics during 1979-80.

(Rs. in lakhs)

Name of the Courses	Proposed outlay
(i) Government Polytechnics	
TE 3.1 One Year Post Diploma Course in Dairy Engg. at Govt. Polytechnic, Amritsar	.. 0.80
TE 3.2 One Year Post Diploma Course in Television Technology at J.R. Government Polytechnic, Hosiarpur	.. 0.40
TE 3.3 One Year Post Diploma Course in Heat Treatment at Govt. Polytechnic, Batala.	.. 0.40
TE 3.7 Production -cum-Training Centre at Govt. Polytechnic, Amritsar	.. 2.00
TE 3.8 Service cum-Training Centre at Govt. Polytechnic, Batala	.. 0.40
TE 3.9 Setting up of Govt. Polytechnic at Bhatinda	.. 4.00
Total	.. 8.00

(ii) Private Polytechnics :		TE. 4.7 AMIE Course at G. N. E. C. Ludhana.	0.25
TE 4.1 Advance level Diploma Course in Printing Technology at T.P. Patiala ..	3.60	TE 4.8 PTD Course in Civil Engg. at M. C. Poly Jullundur ..	0.15
TE 4.2 3-Year Architectural Assst. ship Course at T.P. Patiala ..	0.60		
TE 4.3 Diversified 3-Year Diploma Course in Plastic & Rubber Technology at G. N. E. C. Ludhiana ..	0.60	Total ..	6.60
TE 4.4 Diversified 3-Year Diploma Course in Tool & Die Making Technology at G. N. E. C. Ludhiana ..	0.40		
TE 4.5 1-Year Post-Diploma Course in Electronics at M. C. Poly Jullundur	0.60		
TE 4.6 1-Year Post Diploma Course in Hospital Engg. at T. P. Patiala ..	0.40		

4. To continue the programme of scholarships for the brilliant students a sum of Rs. 2.30 lakhs has been proposed for 1979-80. For Faculty Development in different Engineering institutions of the State, a sum of Rs. 0.80 lakh has been provided. For students amenities, libraries, Book Bank for poor students & development of campus of Engineering Colleges/Govt. Polytechnics, a sum of Rs. 1.10 lakhs is proposed during the year 1979-80.

CHAPTER XII

Public Health and Sanitation

The most important objective of the Sixth Five Year Plan is to correct quickly the imbalance in the structure of medical and health care services in the State. In the past outlays have concentrated heavily on providing health facilities in urban areas.

12.2 During 1974-78 an expenditure of

Rs. 1129.08 lakhs was incurred under this sub-head. An out-lay of Rs. 5846.65 lakhs has been proposed for the Sixth Five Year Plan (1978-83). For 1979-80, a provision of Rs. 680.00 lakhs has been proposed. The sectorwise details of the expenditure/outlay are given below :—

Sector	1974—78 (Actual Expenditure)	1978—83 (Provision)	1978-79 (Outlay)	1979-80 (Outlay Proposed)
1	2	3	4	5
Research and Medical Education ..	360.51	1484.35	202.00	225.00
Public Health ..	738.79	4086.35	488.35	424.00
I.S.M. and Homoeopathy ..	29.78	275.95	11.95	31.00
Total ..	1129.08	5846.65	702.30	680.00

MEDICAL EDUCATION AND RESEARCH

12.3 There are five Medical Colleges in the State out of which three are State Medical Colleges, one each at Amritsar, Patiala and Faridkot, two are Private Medical Colleges viz. Daya Nand Medical College, Ludhiana and Christian Medical College, Ludhiana. The out-turn from these colleges is sufficient to meet the entire requirements of public services as well as of the private sector.

12.4 The proposal for the Annual Plan 1979-80 have been formulated with the following objectives in view :

- (i) expeditious completion of on-going works ;
- (ii) increase the out-turn of para medical staff in view of large expansion of Rural Services ;
- (iii) to provide teaching staff and physical facilities in Guru Gobind Singh Medical College, Faridkot in accordance with the norm prescribed by the Medical Council of India ;
- (iv) re-orientation of Medical Education with a view to progressively make the training of the Medical students more community based ;
- (v) to make good the deficiency in the Nursing/para Medical/Ministerial and others service staff in accordance with the norm prescribed by the Nursing Council ;

(vi) to improve and expand common facilities, Like Hospital Pharmacy, Blood Bank, Emergency Services, Intensive Care Unit and Rehabilitation services in the hospitals ;

(vii) continuing encouragement to Research activities in Medical Colleges

12.5 Major Programmes in the field of Medical Education are as under :—

MEDICAL COLLEGES

(1) **Medical College, Faridkot :** In 1977-78, Punjab Government decided to take over this college as the trust was unable to provide facilities and staff according to the norms laid down by the Medical Council of India. There was only one admission in 1976, and sixty students were admitted. Admissions were stopped in 1977 pending provision of adequate physical facilities and staff to the satisfaction of Medical Council of India. The total liability for providing the required staff and other facilities is of the order of Rs. 7-8 crores. An outlay of Rs. 103.00 lakhs is proposed for 1979-80. This amount will be spent on the construction of new college campus and hospital building. Besides efforts will be made to provide sufficient teaching staff.

(2) **Medical College, Amritsar :** An outlay of Rs. 11.60 lakhs is proposed for the improvement and

expansion of Medical College, Amritsar. This outlay is for the following works :—

Capital : (i) completion of the multipurpose hall-cum-library ;

(ii) completion of 24 registrar flats ;

Revenue : (i) to strengthen the Blood Bank and medicines department ;

(ii) to provide ministerial and Class IV staff for Principal's Office and other Deptts.

(3) **Medical College, Patiala** : For the improvement of this college, an outlay of Rs. 2.10 lakhs is proposed for the following works :—

(i) completion of the on-going work on swimming pool for students ;

(ii) purchase of equipment for strengthening some departments ; and

(iii) strengthening the office of the Principal and additional staff for hostel.

(4) **Dental College/Wing** : There is a dental college at Amritsar and dental wing of Medical College, Patiala. An outlay of Rs. 0.70 lakh and Rs. 1.60 lakhs respectively is proposed for these institutions. In the first case outlay is for providing staff according to the norm prescribed by the Dental Council of India. In the second case, it is felt that dental wing is housed in a very crowded premises of the Medical College, Patiala. It is, therefore, proposed to take in hand the construction of an independent building for the dental wing. It is also proposed to increase the number of seats in this college, from 12 to 20. Staff and equipment shall be provided to match the additional seats.

12.6 The intake position of Medical/Dental Graduates in different colleges shall be as under during 1979-80:—

Medical College	Graduates	Post-graduates including M.D. and M.S.
1	2	3
Medical College, Amritsar	150	74
Medical College, Patiala	150	99
Christian Medical College, Ludhiana	50	—
Daya Nand Medical College, Ludhiana	50	—
Guru Gobind Singh Medical College, Faridkot	60 (Admission stopped)	—
Total	460	173
Dental College		
Dental College, Amritsar	30	5
Dental Wing, Medical College, Patiala	20	—
Total	50	5

12.7 In order to bring up the scheduled caste M.B. B.S. students to the level of open merit students, arrangement has been made for special coaching to them. Special classes are taken by lecturers outside the normal working hours. An outlay of Rs. 0.35 lakh is proposed for payment of remuneration to the lecturers.

Teaching Hospitals :

12.8 (1) **Shri Guru Teg Bahadur Hospital, Amritsar** : An outlay of Rs. 60.45 lakhs is proposed for this hospital. The following works are already in progress and are not likely to be completed during the current year. The outlay is almost entirely for meeting the

liability of the spill-over works :—

- (a) Construction of operation-theatre-cum- Kitchen blocks.
- (b) Construction of Indoor block.
- (c) Connecting passage and lift.

However some essential new works like construction of Radiology Block, Nursing Hostel, House Surgeon Hostel and essential Para Medical Staff to facilitate the working of new 500 bedded hospital at new Medical Enclave will also be taken up.

O.P.D. and four out of the five indoor blocks consisting of 400 beds are likely to be completed during the current year. Furniture and equipment for these new units and the newly completed O.P.D. is proposed to be provided. Outlay has been proposed for

- (a) Additional para Medical/Nursing and Class IV staff for new O.P.D. and four indoor blocks.
- (b) Ministerial staff for Principale's office.
- (c) Additional staff for the new Orthopaedic Workshop and Rehabilitation Services.

(2) Rajindra Hospital, Patiala :

An outlay of Rs. 35.30 lakhs has been proposed for 1979-80. This outlay shall be for the following works :—

Spill over works :

- (a) New casualty block and operation theatre block of casualty block.
- (b) Cobalt therapy unit.
- (c) Mental diseases wing of Rajindra Hospital

Machinery and equipment :

- (a) Additional Machinery and equipment to increase the capacity of Glucose Saline unit.
- (b) Equipment for new casualty block.

Staff component :

- (a) Additional staff for Glucose Saline Unit.
- (b) Additional staff for Medical Superintendent's office.

(3) T.B. Sanitoriums :

An outlay of Rs. 5.10 lakhs and Rs. 1.00 lakh is proposed for the improvement and expansion of

T.B. Sanitoriam, Amritsar and T.B. Centre, Patiala respectively. For sanitoriam at Amritsar, the outlay is for :—

- (i) Construction of a new Tubewell ;
- (ii) construction of lecture room for students ;
- (iii) equipment for Bacteriological laboratory and for studying respiratory physiology of Chest diseases patients.
- (iv) second line drugs for patients developing resistance to the conventional first line drugs ;
- (v) additional staff for Medical Superintendent's office and some laboratory staff ;

In the case of Patiala Sanitoriam, the outlay will be spent on :—

- (i) Completion of ongoing work of Nurses Hostel
- (ii) Additional Nursing staff and Class IV staff.

12.9 Training Facilities for Para-medical Staff :

The out-turn of para-medical staff will fall short of the requirement due to the anticipated expansion of Health Services in the State. It is, therefore, proposed to increase the intake of the categories that are expected to be in short supply and to introduce new courses.

12.10 The intake of the Pharmacists will be increased from 80 to 110 at the Medical College, Amritsar and from 70 to 100 at the Medical College, Patiala. The course will be started at the Medical College, Faridkot with an intake of 50. The intake capacity at Women Polytechnic at Jullundur is 30 students. Thus the total intake will be raised from 180 to 290. The intake of Radio-Graphers will be increased from 10 to 15 at Medical College, Amritsar and from 6 to 12 at Medical College, Patiala. For laboratories Technicians there are at present 20 seats each at Medical College, Amritsar and Medical College, Patiala and 4-5 seats at C.M.C. Ludhiana. It is proposed to add 10 seats each at Amritsar and Patiala and to start a training centre at Medical College, Faridkot with an intake of 20. The intake will thus be raised from 45 to 85.

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

- (i) Operation theatre assistants (at S.G.T.B. Hospital, Amritsar and Rajindra Hospital, Patiala).
- (ii) Anaesthesia assistants (at Rajindra Hospital, Patiala).

Strengthening of DRME's office :

12.12 A modest provision of Rs. 0.30 lakh is proposed for strengthening of the office of the Director Research and Medical Education, Punjab to cope with the increased load of work.

12.13 Besides a provision of Rs. 1.00 lakh is proposed for applied research into the problems of rural health.

PUBLIC HEALTH

12.14 Public health has not received due priority in the past. In particular, the rural areas have received scant attention. In the Sixth Five Year Plan there is a considerable concentration on health facilities in rural areas. The major thrust of the public health programmes is towards creating comprehensive and well structured, health service. The following structure for health services have been visualised :—

- (i) The base of the structure is the subsidiary health centre (rural dispensary). It will have one doctor, one dispenser, 4 Class IV employees and one male and one-female multipurpose workers. At the advance stage there will be two doctors, one male and one female. The dispensary have four beds. It provides both preventive and curative services. It also takes care of family welfare programme. The target is to provide one such dispensary per 5000 population. The State's rural population being about 13 million, 2600 such dispensaries are required.
- (ii) The second tier of the structure is 25 bed or 30 bed rural hospital at the

block level. It will serve as the first referral institution for the rural dispensaries. It is targetted to have one hospital in each block. Efforts will also be made to provide specialists services in the block-level hospitals. In due course a dental department with a qualified dentist will also be provided.

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

12.15 Rural Health Services :

At the end of the year 1977-78 there were 716 rural dispensaries in the State. During the current year 200 new dispensaries shall be established. It is proposed to set up 250 new dispensaries in 1979-80, and the final target of one dispensary per 5000 population will be realised by 1984-85 or 1985-86. Since the dispensary building is to be provided by the local community the Plan provision is mostly for staff, salaries and other running expenses. Only Rs. 10.00 lakhs have been proposed for construction of building in the areas where the local community is too poor to provide accommodation. The provision under 'Improvement of subsidiary health centre's is in respect of spill-over liability of the scheme.

12.16 Twenty-five bed hospitals are established at block level either by upgrading the existing primary health centres or by establishing new hospitals. During 1978-79 a new scheme, 'One-third scheme' has been included. Under this scheme expenditure on 25 bed hospitals is shared by the Central Government, the State Government and voluntary organisations on equal basis. At the end of the current year there will be 66 such hospitals. In 1979-80, 30 new hospitals shall be established.

12.17 Ten dental clinics will be established at block level hospitals, raising the total number to 78. It is also proposed to provide 10 teams of specialists at block level. Each team will consist of specialists in six specialities viz., medicine, surgery, mid-wifery and gynae, eye and ENT, paediatrics and anaesthesia. The team will be provided with a mini bus for enabling it to provide services to the entire block population at regular intervals.

12.18 Out of the existing 128 P.H.Cs, buildings in respect of 105 PHCs have been completed. The

work with regard to 10 PHCs is in hand. Outlay is proposed for the completion of on-going works and to take up the construction work of the remaining PHCs.

Health Facilities in Urban Areas :

12.19 The most important programme for the development of health facilities relates to the up-gradation of the existing hospitals. Every District head-quarter has already been provided a 100 bed hospital. Jullundur and Faridkot have 400 bed and 200 bed hospitals respectively. In the Sixth Plan 2 other District Hospitals are to be upgraded to 200 bed hospitals. In the Fifth Plan, it was proposed to up-grade all tehsil hospitals to 50 bed status. However, this target could not be achieved due to resources constant. It is proposed to up-grade 4 tehsil hospitals during 1979-80. In addition to it one intensive care unit shall be established at a district head-quarter.

12.20 Another important programme is the opening of dispensaries in Urban Slum Areas or other suitable places. It is proposed to open 10 dispensaries under the scheme during 1979-80. These will relieve the pressure on the out-door patient departments in the existing hospitals. At present about 60 hospitals and dispensaries are being operated by local bodies. It is proposed to provincialise 10 local bodies hospitals and dispensaries in 1979-80. Several schemes including 'completion and improvement of existing district hospitals' and 'completion and improvement of tehsil and other hospitals' will be discontinued from 1979-80, either because some other schemes have taken their place or because these are no longer required in the context of the new structure evolved for public health care.

Control/Eradication of Communicable Diseases :

12.21 The control and eradication of communicable diseases such as Malaria, T.B., S.T.D. and Trachoma and other causes, of visual impairment and blindness are covered by centrally sponsored schemes. Only the operational cost of these schemes is borne by the State. An outlay of Rs. 9.10 lakhs is proposed under these schemes for 1979-80. 25 isolation beds will be provided under the T.B. Control programme.

Other programmes :

12.22 Considerable emphasis has been laid on community health workers scheme which is a centrally

sponsored scheme. This scheme was initiated in Punjab in 20 blocks on 2nd October, 1977. 1,055 community health workers were trained during 1977-78. The target for 1978-79 is to train 1,545 workers. During 1979-80, 1,900 community health workers will be trained.

12.23 Another important scheme is 'Multipurpose Worker Scheme'. Under this scheme for every 5,000 rural population, one sub-centre is provided, which is manned by one male and one female multipurpose worker. This scheme had been extended to three districts upto 1977-78. It is proposed to extend it to four more districts during 1978-79. The remaining 5 districts will be covered during 1979-80. The Plan outlay has been proposed for equipment (Rs. 2,000 non-recurring) and Rs 2,000 for medicines for each of the additional sub-centres. No provision is made for additional staff as the ANMs and the male workers for these sub-centres will be drawn from other schemes.

12.24 Under a centrally sponsored scheme, it is proposed to train atleast one indigenous Dai in every village. 2000 dais have been trained every year since 1977-78.

12.25 At present the field officers in the State indent their medicine requirements on the Medical Store Depot, Karnal (Haryana). The Depot charges 30 per cent as handling charges over and above its purchase rates. Moreover, it is able to supply only 20 per cent of the State requirements. It is, therefore, proposed to establish a Central Medical Store at Ludhiana. It will stock medicines so as to ensure adequate timely supplies to field offices.

12.26 The State Health Transport Organisation has a fleet of 501 vehicles. About 35% of these need replacement. It is proposed to replace 10-12 vehicles during 1979-80. It may also be necessary to buy some motor-cycles and other vehicles for operation in rural areas.

12.27 The State Hospitals are estimated to have equipment worth more than Rs. 25.00 crores. In the absence of a satisfactory arrangement for maintenance and repair, costly equipment remains out of order for long periods till it is got repaired at heavy cost from the open market or the manufacturers. Outlay has, therefore, been proposed for setting up a repair and maintenance unit for the health equipment

12.28 It is proposed to strengthen 5 district laboratories during 1979-80. In order to strengthen Drug and Food Standard Control Organisation, outlay has been proposed for the purchase of equipment and for providing some additional staff.

12.29 A moderate expansion of the ministerial staff at the state headquarters is also proposed.

Employees State Insurance Scheme :

12.30 This scheme has been in operation in the State since 1953. The expenditure on this scheme is shared in the ratio of 1 : 7 by the Government and E.S.I. Corporation. An outlay of Rs 11.10 lakhs is proposed for 1979-80. With this outlay 12 new E.S.I. dispensaries will be established and two 50 bedded E.S.I. Hospitals will be set up. It is also proposed to up-grade the E.S.I. Hospital, Jullundur from 60 to 100 beds and E.S.I. Hospital, Ludhiana from 80 to 100 beds.

INDIAN SYSTEM OF MEDICINE AND HOMOEOPATHY

12.31 In the past, a policy of drift has been followed with regard to Ayurveda and other Indian system of medicine. The supporters of Ayurveda feel that this system has not had a fair chance to prove its worth. The Ayurvedic facilities, they claim, have been too patchy and inadequately supplied to prove the true worth of the system. Accordingly, the provision in the Annual Plan 1979-80 for I.S.M. has been stepped up three times the anticipated expenditure in 1978-79. The main aim is to consolidate the existing institutions.

I.S.M. and Homoeopathic dispensaries :

12.32 During the Sixth Five-Year Plan, it has been proposed to strengthen in a phased manner the existing I.S.M. and Homoeopathic dispensaries, which are ill-equipped, by providing additional equipment and medicines. During 1979-80, 100 existing dispensaries will be strengthened. 35 new I.S.M. and Homoeopathic dispensaries are also proposed to be opened. An outlay of Rs. 4.50 lakhs and Rs. 7.00 lakhs is proposed for strengthening of existing dispensaries and for opening of new dispensaries respectively.

Ayurvedic College, Patiala :

12.33 In the Annual Plan 1979-80 it is proposed to establish one Health Education Unit and one Yoga Unit in Govt. Ayurvedic College, Patiala. A van is also to be purchased for the Health Education Unit. An outlay of Rs. 1.13 lakh is proposed for this scheme.

Ayurvedic Hospital, Patiala :

12.34 Basic requirement of students for clinical training in the matter of bed ratio fixed by the C. C. I. M. is five beds per student. Accordingly the minimum requirement of bed strength of the hospital comes to 150 beds. At present there exist 100 beds in the hospital. It is proposed to add 50 more beds raising the bed strength to 150. Construction of new building for additional 50 bed ward is proposed to be taken into hand. An outlay of Rs. 5.00 lakhs has been proposed for this purpose.

Ayurvedic Pharmacy, Patiala :

12.35 Under this scheme it is envisaged to make adequate arrangements for ensuring proper supply of medicines to Government Hospitals and Dispensaries and later on supply of standard medicines to the general public on a commercial basis. At present this Pharmacy is housed in an old dilapidated building which is unfit for the requirement of such a unit. It is, therefore, proposed to start the construction work of a new building for the Pharmacy. A provision of Rs. 4.40 lakhs has been proposed in the Annual Plan 1979-80 for the construction of new building and some additional staff to reorganise the administrative set up of the Pharmacy.

Strengthening of the State Headquarters and District Headquarters staff:

12.36 In view of the substantial expansion of the I.S.M. and homoeopathic institutions, it is very essential to strengthen the headquarters staff. Annual Plan 1979-80 envisages for providing one post each of Assistant Director of Homoeopathy and Child and Family Welfare and some ministerial staff to cope with the increased work load.

12.37 In order to ensure effective inspection of the dispensaries and proper implementation of the Plan programmes a well-knit District Organisation is needed. Keeping this urgent need in view the Government has already created 12 posts of District Ayurvedic Officers on Non-Plan side, one for each district. These Officers are expected to be posted in very near future. Because of the paucity of funds, adequate office staff and other facilities could not be provided at district level. Annual Plan 1979-80 envisages the providing of bare minimum ministerial staff, type-writers, cyclostyling machines, and furniture etc. for each district. Six vehicles i.e. one vehicle for two districts will be purchased. An outlay of Rs. 8.97 lakhs is proposed for this scheme.

Urban Development, Housing and Rural Water Supply

URBAN DEVELOPMENT

According to the 1971 census, one fourth of the State's population lived in urban areas. In order to check disequilibrium between the pace of urbanisation and the urban facilities/civic amenities, substantial provision of Rs 8,377.60 lakhs has been made for sub-head Urban Development. During 1974-78, an expenditure of Rs 3,975.53 lakhs was incurred. A provision of Rs 1,020.00 lakhs was made for 1978-79, against which likely expenditure will be Rs 648 lakhs. During 1979-80, an outlay of Rs 1,200.00 lakhs is proposed for sub-head 'Urban Development' which together with funds institutional, municipal and other resources should achieve substantial results.

Urban Estates

13.2 The development of urban estates involves the acquisition and development of land by providing infrastructural facilities and public amenities. Considerable progress has been made and well conceived urban estates have been set up at S.A.S Nagar, Bhatinda, Patiala, Dhandari Kalan, Rajpura, Phagwara, Jullundur and Batala. Upto 31st March, 1978 about 7,000 acres of land were acquired. During 1978-79, 650 acres of land are proposed to be acquired with an outlay of Rs 500 lakhs. During 1979-80, Rs. 400 lakhs have been provided for the development of 200 acres of land already acquired and for the payment of compensation.

13.3 It has, however, been felt that due to several snags in the implementation of the scheme, there have been persistent and repeated shortfalls in the realisations from the sale of plots. It is of utmost importance to recover the large investment, which has gone into the pipe line of their development. It is hoped that recent steps to overcome the various hurdles hampering the sale of plots will facilitate the operation.

Urban Water Supply and Sewerage

13.4 The most important programme of Urban Water Supply and Sewerage is the Rs 66.7 crores World Bank assistance project for 8 major cities. The Govt. of India will give to the State 75% of the IDA assistance i.e. Rs 22.61 crores for the implementation of the project. In addition, the State

Govt. will contribute Rs 10.07 crores from its own resources. The State's Budgetary contribution of Rs. 32.68 crores has been fully provided in the draft Sixth Five Year Plan as "Loans to Municipal Committees". The balance will be met by direct loans from LIC and contribution of beneficiary Municipal Committees and Corporations. During 1979-80, a tentative provision of Rs 7 crores has been made under the scheme 'Loans to Municipal Committees' to implement this project and to provide loans to other municipalities for water supply and sewerage schemes. This provision will be reviewed during the course of the year, keeping in view the assistance to be received from the Govt. of India for this project. The Punjab Water Supply and Sewerage Board which was constituted under the Punjab Water Supply and Sewerage Board Act, 1976 for the purpose of regulation of drinking water supply and sewerage in the State will be responsible for the implementation of the World Bank Project. The State Govt. have agreed to provide Rs 8.00 crores as working capital for execution of World Bank Project and other schemes. During 1977-78, an amount of Rs 175 lakhs was disbursed to the Board and during 1978-79, Rs 170 lakhs is likely to be provided. By the end of 1978-79, a total amount of Rs 3.45 crores will be paid to the Water Supply and Sewerage Board. A sum of Rs 50 lakhs is proposed during 1979-80 for this purpose. The State Govt. will make efforts to mobilise the rest of the amount from the beneficiary Municipal Committees and Corporations.

Improvement Trusts

13.5 The Improvement Trusts receive contribution from the Municipal Committees at 2% of the latter's revenue. This is an inadequate provision, particularly in the case of Municipal Committees, with weak financial position. Therefore, most of the Improvement Trusts generally need loan assistance from the State Government. During 1974-78, Rs 152 lakhs were advanced as loans to Improvement Trusts and during 1978-79, Rs 45 lakhs are likely to be advanced as assistance to these bodies. During 1979-80, an outlay of Rs 15 lakhs is proposed for this purpose.

13.6 An important new initiative in 1979-80 has been taken for providing 50-75 sq. yds. plots to urban

harijans through Improvement Trusts. To this end, a provision of Rs. 15 lakhs has been made. A modest provision of Rs. 2.00 lakhs has been made for the limited programme of environmental improvement of slums such as drinking water, pavement of streets, pucca drainage, street lights and public urinals and latrines.

Town and Regional Planning

13.7 Area Planning in the rural sector involves preparation of Physical Development Plans for blocks and villages. During 1977-78 such plans have been prepared for 28 blocks and 18 villages. During 1978-79, physical development plans for 12 blocks and 36 focal villages covered under IRDP programme would be completed. In the urban sector Integrated Urban Development Programme for Patiala has been finalised and the project report has been submitted to Government of India for financial loan assistance. The Integrated Urban Development Programme of Bhatinda is also expected to be finalised during the year 1978-79. For this purpose, Rs. 20 lakhs were provided during 1978-79, against which an amount of Rs. 18 lakhs is likely to be spent. For 1979-80, an outlay of Rs. 18 lakhs has been proposed for Town and Regional Planning in rural and urban areas. The physical development plans for 15 blocks and 45 villages would be prepared. In the urban sector a nucleus staff for planning and designing for setting up one new town at Phillaur will be appointed.

HOUSING

13.8 With the increasing pace of urbanisation, and phenomenal increase in population, the housing problem is becoming very acute in urban areas. This has led to unprecedented increase in rents. This problem is felt more by the salaried class of workers, particularly Govt. servants. Realising the gravity of this situation, the State Govt. have proposed an outlay of Rs. 5762.32 lakhs for various housing schemes in Draft Sixth Five Year Plan against an actual expenditure of Rs. 2922.50 lakhs during 1974-78. During 1979-80, an outlay of Rs. 1000.00 lakhs has been proposed against a provision of Rs. 800 lakhs during 1978-79 for housing. The main thrust of housing development is towards houses for State Govt. employees. The three programmes, namely Govt. residential buildings, loans to Govt. servants and houses for Police, account for 70% of the total outlay (Rs. 700 lakhs out of Rs. 1000 lakhs). The balance

is made up by the provision for the Housing Board, the subsidised industrial housing schemes, houses for harijans, loans for LIG houses and loans for building houses in urban estates.

Houses for Government Servants

13.9 Over the years there has been a large increase in the number of employees but there has not been a commensurate increase in the residential accommodation available with the Govt. Due to general shortage of residential accommodation all over the State the rents have risen sharply and the Govt. servants are forced to pay high rents for very inadequate accommodation, which affects their moral, efficiency, and sense of discipline.

13.10 A large programme of constructing 2604 houses and 997 flats has been formulated for Govt. employees at Chandigarh, district/tehsil headquarters, other places and the IRDP focal points. With this end in view, an outlay of Rs. 390 lakhs has been proposed. The construction of houses during 1979-80 is to be undertaken mainly by the Housing Board, which will supplement this provision by raising loan from HUDCO. Out of Rs 390 lakhs, a provision of only Rs. 50 lakhs (Rs. 35 lakhs for Govt. buildings at district/tehsil headquarters and Rs. 15 lakhs for houses at other places) has been made for completion of houses, which are in hand with the Chief Engineer P.W.D. (B&R). For houses at Chandigarh, the Chandigarh Administration has agreed to provide land in Sector 38-B and 46-D and the State Govt. propose to construct 1322 class-IV, class-III, 2 bed room and 3 bed room flats at a cost of Rs. 499.60 lakhs. During 1979-80, an outlay of Rs. 90 lakhs has been proposed for enabling the Housing Board to construct 997 class-IV, class-III and 2 bed room flats at a cost of Rs. 266.6 lakhs after raising loan from HUDCO. In addition, the Board has a programme of constructing 2044 houses at district head quarters and 400 houses at focal points. For this purpose an outlay of Rs. 200 lakhs and Rs. 50 lakhs are proposed to be provided for these schemes to the Housing Board for raising loan from HUDCO during 1979-80.

13.11 There is a growing demand by Govt. servants for house building loans. With the recent increase in the quantum of loan to be provided for construction of houses as a result of increased cost of construction, there is a demand of Rs. 3 crores for 1979-80. Due to constraint on resources an outlay of only Rs. 150 lakhs has been proposed for 1979-80.

13.12 An outlay of Rs 160 lakhs has been proposed for construction of houses for the Police during 1979-80. These houses are also proposed to be constructed by the Housing Board. A substantial amount is expected to be available from the Centre and the institutional resources for this purpose.

Housing Development Board

13.13 The Board came into existence in May, 1973. The Housing Board is provided assistance by way of loans and subsidy for the construction of houses, booths, acquisition and development of land. Since its inception, Board received a loan of Rs. 787.50 lakhs from the State Govt. upto 31st March, 1978 and there is a revised provision of Rs. 180.00 lakhs for 1978-79. However, Board also received from HUDCO a loan of Rs. 469.56 lakhs so far, against a sanctioned amount of Rs. 665.96 lakhs. With this provision 2504 EWS, 1907 LIG and 898 MIG houses were completed or were under construction upto 31st March, 1978. During 1978-79, 528 EWS, 575 LIG and 610 MIG houses are under construction and likely to be allotted.

13.14 An outlay of Rs. 70.00 lakhs has been proposed for 1979-80, which includes Rs. 47.50 lakhs as seed money for various schemes of the Board, Rs. 5.00 lakhs as liability towards continuing schemes, Rs. 10.00 lakhs for commercial activities and Rs. 7.50 lakhs for land acquisition and development purposes.

Subsidised Industrial Houses

13.15 This scheme for which no provision could be made in 1978-79 has been revived in Sixth Five Year Plan. During 1974-78, Rs. 305.04 lakhs were spent on the scheme and for 1979-80, an outlay of Rs 40 lakhs has been proposed, which will help in constructing 360 houses.

Houses for Harijans

13.16 The scheme for construction of houses for harijans (landless workers), who were allotted free plots, is being implemented through the agency of the Housing Development Board. The Board raises institutional finance to supplement the plan provision. An outlay of Rs. 70 lakhs is proposed for 1979-80. This will enable the Board to construct 3500 houses. The construction of 8946 houses (3946 in 1977-78 and 5000 in 1978-79) is already in hand and is expected to be completed by the end of current year.

Loans for LIG Houses

13.17 During 1974-78, Rs. 271.42 lakhs were disbursed as loans to low income groups i.e., persons with an annual income below Rs. 7200 for construction of houses both in rural and urban areas. A sum of Rs. 70 lakhs is likely to be provided during 1978-79 for this purpose. An outlay of Rs. 60 lakhs have been proposed for 1979-80. This will help in the construction of 1456 houses.

Loans for Building Houses in Urban Estates

13.18 In order to give boost to construction activity in urban estates, Rs. 211.65 lakhs were disbursed as loans to allottees of plots in urban estates and a provision of Rs. 60 lakhs has been made during 1979-80 for this purpose. Due to constraint on resources, no provision could be made for this scheme during 1978-79.

RURAL WATER SUPPLY

13.19 There are 12188 inhabited villages in the State. The total cost of providing piped water supply to all the villages in the State is estimated at Rs. 257.00 Crores. This is beyond the capacity of the State. Government has decided that for the present the coverage should be limited to scarcity villages only. The following criteria has been laid down by the Government of India for identifying the scarcity villages :

The village

- (i) without an assured source of drinking water within 1.6 K. M. or so, or ;
- (ii) where the source of water supply is endemic to water borne diseases like Cholera or ;
- (iii) where there is excess salinity, iron or Flouride.

13.20 According to these criteria 3800 villages have been identified as scarcity villages in the State. These villages are located both in sub-montaneous areas and the plains. In the sub-montaneous areas, the water sources are either deep or very far off from the villages and in the plains water is highly brackish or saline or it contains excessive Flourides.

13.21 Over the years, the design criteria for rural water supply schemes has been made more liberal. Originally, the water supply allowance had been fixed at 5 gallons per head per day and there was to be practi-

cally no distribution system. Water supply was to be given through a battery of taps close to the water works. In 1961, the design criteria was increased to a water allowance of 10 gallons per day per head with a terminal pressure of 5 metres, and a skeleton distribution system catering to Public stand post only. In 1976, the criteria was further liberalised to 15 gallons (70 litres) per head per day and a terminal pressure of 8 metres. The State Government have now laid down that the schemes should also have a complete distribution system in the villages. They have also required that the existing schemes should be augmented so as to conform to the new criteria.

13.22 As per revised design criteria, the total cost of providing piped water supply to 3800 scarcity villages has been estimated at Rs. 142.00 crores. The detail of actual expenditure upto the end of Fourth Plan, actual expenditure for the period 1974-78, anticipated expenditure 1978-79 and the proposed outlay for 1979-80 are given below :—

Year	Expenditure (Rs. in crores)		
	State Plan Scheme	Govt. of India's Scheme	Total
Upto 1973-74 ..	12.59	—	12.59
During 1974—78 ..	17.14	1.00	18.14

During 1978-79 (anticipated exp.)..	4.05	1.00	5.05
During 1979-80 (proposed outlay)	5.00	N.A.	5.00
Total ..	38.78	2.00	40.78

13.23 During Sixth Five Year Plan an outlay of Rs. 39.70 crores is proposed for Rural Water Supply Schemes. For 1979-80 an outlay of Rs. 500.00 lakhs has been set aside for this scheme. It is targetted to commission water supply in 135 villages.

13.24 Major targets and achievements under the programme are given below :—

Year	No. of Villages in which water supply scheme	
	Commi-ssioned	In progress
Upto 1973-74 ..	524	1043
During 1974-78 ..	1150	563
During 1978-79 (anticipated)	130	610
During 1979-80 (Target) ..	135	N.A.
Total ..	1,954	

13.25 The blance liability under this scheme at the end of 1979-80 shall be Rs. 101.22 crores.

Information regarding expenditure and outlay is given in statemnt W.S. II.

ANNUAL PLAN : 1979-80

STATEMENT : WS-1(a)

Urban Water Supply and Sanitation Schemes—Outlays and Expenditure

- Programmes :*
1. Urban Water Supply
 2. Urban Sewerage/Drainage.
 3. Conversion of dry latrines into sanitary latrines.
 4. Others

(Rs. in lakhs)

Name of the Individual Project	Location and brief objectives and scope of the project	Estimated cost	Actual Expenditure upto end of Fourth Plan	Actual Expenditure upto 31st March 1978 including Col. 4	Likely Expenditure during 1978-79	Requirement of funds during 1979-80	L.I.C. Loan	
							Availed during 1978-79	Requirement during 1979-80
1	2	3	4	5	6	7	8	9
Urban Water Supply								
1. Continuing Schemes	Throughout Punjab	1674.20	N.A.	875.91	100	100	—	—
2. Schemes covered under L.I.C. Project	Water Supply Schemes of 9 towns namely (i) Phillaur (ii) Sirhind (iii) Samana (iv) Mansa Mandi, (v) Gidderbaha (vi) Leh ragaga (vii) Hoshiarpur (viii) Phagwara (ix) Kotkapura	481.49	—	—	150.00	331.49	100.00	225.00
3. Schemes covered under World Bank Project	Schemes of 8 towns namely Amritsar, Jullundur, Ludhiana, Patiala, Moga, Rajpura, Bhatinda and Pathankot	2148.36	—	—	301.22	600.00	62.00 (To be released during Jan. to March 1979).	124.00
4. New Water Supply Schemes (Other than those covered under World Bank and L.I.C. Project)	Through out Punjab State The object of the scheme is to provide safe piped drinking water supply free from contamination to the Public.	616.67	—	—	20.00	50.00	—	—

ANNUAL PLAN 1979-80

STATEMENT : W.S.—1(b)

Urban Water Supply and Sanitation Schemes— Outlays and Expenditure

- Programmes :*
1. Urban Water Supply
 2. Urban Sewerage/Drainage
 3. Conversion of dry latrines into Sanitary Latrines
 4. Others

(Rs. in lakhs)

Name of the Individual Project	Location and brief objectives and scope of the Project	Estimated cost	Actual Expenditure upto end of Fourth Plan	Actual Expenditure upto 31st March, 1978 including Col. 4	Likely Expenditure during 1978-79	Requirement of funds during 1979-80	L.I.C. Loan	
							Availed during 1978-79	Requirement during 1979-80
1	2	3	4	5	6	7	8	9
Urban Sewerage and Storm Water Drainage Schemes								
1. Continuing schemes	Through out Punjab	1759.22	N.A.	738.80	100.00	100.00	—	—
2. Schemes covered under World Bank Project	Schemes of 8 towns namey : Amritsar, Jullundur, Ludhiana, Patiala, Bhatinda, Pathankot, Moga and Rajpura	4395.02	—	—	495.00	1300.00	124 (To be released during the quarter January to March 1979)	248
3. New Sewerage scheme (other than those covered under World Bank Project)	Throughout Punjab State	798.85	—	—	20.00	50.00	—	—

ANNUAL PLAN 1979-80

STATEMENT WS-1(C)

Urban Water Supply and Sanitation Schemes—Outlays and Expenditure

- Programmes :
1. Urban Water Supply
 2. Urban Sewerage/drainage
 3. Conversion of dry latrines into sanitary latrines
 4. Others.

(Rs. in lakh)

Name of the individual Project	Location and brief objectives and scope of the Project	Estimated cost	Actual Expenditure upto end of Fourth Plan	Actual Expenditure upto 31-3-78 including Col. 4	Lilely Expenditure during 1978-79	Requirement of funds during 1979-80	L. I. C. Loan	
							Availed during 1978-79	Requirement during 1979-80
1	2	3	4	5	6	7	8	9
1. Sewage/Sullage utilisation schemes	Throughout Punjab. The Project is to step up the utilisation of manurial resources and utilise sewage for agriculture purpose	345.24	—	137.42	90.00	118.00	—	—
(a) Continuing Schemes								
(b) New schemes		250.00	—	—	—	50.00	—	—
2. Setting up of Compost Plants	Ludhiana, Jullundur and Amritsar	198.00	—	—	—	75.00	—	—

ANNUAL PLAN 1979-80

STATEMENT : WS-1(d)

Urban Water Supply and Sanitation Schemes— Outlays and Expenditure

- Programmes :
1. Urban Water Supply
 2. Urban Sewerage/Drainage
 3. Conversion of dry latrines into sanitary latrines
 4. Others.

(Rs. in lakhs)

Name of the Individual Project	Location and brief objectives and scope of the Project	Estimated Cost	Actual Expenditure upto end of Fourth Plan	Actual Expenditure upto 31-3-78 including Col. 4	Likely Expenditure during 1978-79	Requirement of funds during 1979-80	L. I. C. Loan	
							Availed during 1978-79	Requirement during 1979-80
1	2	3	4	5	6	7	8	9
Conversion of dry latrines into sanitary latrines continuing schemes	Kotkapura and Barnala. The object of the scheme is to improve sanitation.	25.34	—	15.48	9.86	—	—	—

ANNUAL PLAN 1979-80

STATEMENT WS-II

Rural Water Supply Scheme – Outlay Expenditure

(Rs. in lakhs)

Name of Individual Project	Mode of Water Supply, location and brief objectives and scope of the Project	Estimated Cost	Actual Expenditure upto the end of IV Plan	Actual Expenditure up to 31-3-1978 (including Col. 4)	Likely Expenditure during 1978-79	Requirement funds during 1979-80 (Outlay proposed during 1979-80 by the Planning Department)
1	2	3	4	5	6	7
Minimum Needs Programme						
Rural Water Supply	The water supply schemes are located in the rural areas of the districts of Hoshiarpur, Patiala, Ropar, Bhatinda, Ferozepur, Faridkot, Sangrur, Amritsar, Jullundur and Kapurthala where scarcity of drinking water exists. The objective is to provide safe and potable water to rural masses through piped water supply schemes.	14200.00	1259.00	*3073.00	*505.00	500.00
Total		14200.00	1259.00	3073.00	505.00	500.00

*It also includes expenditure under 'Accelerated Rural Water Supply Programme (G.O.I. Scheme).

Development of Scheduled Castes and Backward Classes

The Scheduled Castes constitute 25 per cent of the State population with varying regional proportion. They form the bulk of population below the poverty -line. Under the national policy of eradication of poverty, first and foremost, efforts are being made for the development of scheduled castes in the State by raising their literacy rate, economic betterment and by providing the minimum facilities of living which inturn will help to eliminate the disparities that exist between the backward classes and the rest of the population. Under the State Plan the programmes fall into three main categories

- (i) Programmes for the spread of education.
- (ii) Programmes for economic betterment, and
- (iii) Programmes for health, housing and other social assistance.

14.2 During the four years of the Fifth Plan an amount of Rs. 1,284.60 lakhs was spent under these programmes. For the Annual Plan 1978-79 Rs. 255.00 lakhs were provided. Against this provision the anticipated expenditure is likely to be Rs. 229.50 lakhs. For 1979-80, an outlay of Rs. 275.00 lakhs is proposed for the various programmes which are described below :—

Education Programmes

14.3 The spread of education has been considered an important instrument for improving the socio-economic conditions of the scheduled castes. The most important scheme is 'Pre-matric coaching to scheduled caste students'. Under this scheme three teachers in English, Mathematics and Science are engaged in each High/Higher Secondary School to provide extra coaching to the Scheduled Caste students of 9th to 11th classes and an honorarium of Rs. 100 per mensem per teacher is paid for a period of six months during the year. A sum of Rs. 24.00 lakhs is proposed for the year 1979-80 under this scheme to cover 31,000 students. A sum of Rs. 22.40 lakhs has been set aside for providing stationery and books to 6-8 classes students. A sum of Rs. 1.00 lakh has also been earmarked under the scheme 'Grant for the purchase of law, medical and engg. books' under which grants to the institutions are provided for the purchase of books for scheduled castes law, medical and engg. students as the books in these subjects are

generally very expensive. A provision of Rs. 3.00 lakhs is also made for providing training in stenography to scheduled castes under which a stipend of Rs. 100 per month will be given.

Programmes for economic uplift

14.4 Under this programme efforts are made for economic uplift of these classes. The scheduled castes are generally agricultural labourers and petty rural artisans. In order to enable the labourers to grow into cultivators, subsidy is provided for the purchase of agricultural land at the rate of Rs. 2,000 per acre subject to maximum of Rs. 5000 per beneficiary. In 1978-79 an expenditure of Rs. 7.50 lakhs will be incurred and 144 families will be benefitted. In the Annual Plan 1979-80, 300 more families will be extended these facilities at a cost of Rs. 15.00 lakhs. In addition to this a subsidy upto Rs. 1,000 is also given for the construction of a house, wells on land along with a further sum of Rs. 180 for meeting the registration charges. For this purpose a sum of Rs. 3.60 lakhs has been provided in 1979-80. An outlay of Rs. 30.00 lakhs, is proposed as contribution to the share capital of the Punjab Backward Classes Land Development and Finance Corporation in 1979-80 for providing soft loans to backward classes identified in the State and also to economically backward families. Many Punjabies seek employment opportunities in foreign lands but the Scheduled Castes have failed to exploit this opportunity as they do not have enough money to pay for the passage and other incidental expenses. In order to enable them to overcome this problem a new scheme "Interest free loans/subsidy to Scheduled Castes going abroad for employment" has been included under this programme and an outlay of Rs. 2.00 lakhs is proposed. Under another scheme "Technical Training in Industrial Trades" an outlay of Rs. 8.00 lakhs is proposed for training to 2,200 Scheduled Castes in different industrial trades. This training is provided in the I.T.Is/Centres run only for Scheduled Castes in the State under the Industrial Training Department.

Programmes for Health/Housing and Other Social Assistance

14.5 The Scheduled Castes often live in dirty, unclean and unhygienic basties and houses. Under the

scheme "Environmental improvemet of Harijan basties including drinking water wells" a sum of Rs. 64.50 lakhs is expected to be spent in 1978-79 against the approved outlay of Rs. 75.00 lakhs. An outlay of Rs. 76.00 lakhs has been proposed for 1979-80, and 300 villages will be covered. A provision of Rs 44.00 lakhs has been made for the scheme "Construction of Dharamshalas/Chaupals". A total of 400 Dharamshalas will be constructed. An outlay of Rs. 30.00 lakhs is also proposed for the construction of houses for sweepers/scavenagers, flayers and tanners. Under this scheme a subsidy of Rs. 2,000 is given to each beneficiary for the construction of houses. Provision of Rs. 1.00 lakh has also been made for providing legal aid to the Scheduled Castes in form of lawyer's fee to enable them to pro-

tect themselves against forcible eviction from land and to pursue other allied cases.

Welfare of Vimuket Jaties

14.6 Vimukat Jaties constitute the lowest strata of the Scheduled Castes population and attention is also being paid to welfare of these Jaties. In order to induce them to take to settled life at a place, assistance in the form of a subsidy at the rate of Rs. 2,000 per beneficiary is granted for the construction of house. A sum of Rs. 15.00 lakhs is proposed for this purpose. A total number of 750 houses will be constructed in 1979-80.

CHAPTER XV

Social Welfare and Nutrition

Social Welfare includes programmes for the welfare of children, women, the destitutes, the old and the infirm, the mentally retarded, the orthopaedically handicapped, the blind, the deaf and dumb, and the other under-privileged and maladjusted groups. The nutrition programmes seek to remedy malnutrition among pre-school children and pregnant and lactating mothers of weaker sections.

SOCIAL WELFARE

15.2 Under various programmes of social welfare, a sum of Rs. 211.84 lakhs was spent during 1974-78. Outlay for 1978-79 is Rs. 71.00 lakhs. Against this provision anticipated expenditure will come to Rs. 63.90 lakhs. For the Annual Plan 1979-80 a sum of Rs. 80.00 lakhs is proposed for the various programmes detailed below :—

Child Welfare

15.3 The orphan and destitute children below the age of 16 years who have either lost their parents or whose parents are unable to maintain them due to incurable disease or permanent disability are provided financial assistance at the rate of Rs. 50.00 per month per child under the scheme 'Assistance to dependent children'. During 1978-79 an amount of Rs. 16.80 lakhs is expected to be given as assistance to dependent children. The number of beneficiaries upto 31st March, 1979 will be 6407. While from 1979-80 expenditure on these beneficiaries will be met from Non-Plan budget. A sum of Rs. 10.00 lakhs is proposed for 1979-80 to cover 2000 new beneficiaries.

15.4 Destitute children, delinquents and school dropouts between the age of 8-16 years are admitted to the certified school at Hoshiarpur and provided free boarding and lodging, education and vocational training to enable them to become normal and law abiding citizens. The Institute is housed in a dilapidated rented building. It is proposed to construct a new building during 1979-80 for which a provision of Rs. 8.80 lakhs has been made.

Women Welfare

15.5 Financial assistance is made available at the rate of Rs. 50 per month to widows and destitute women below the age of 60 years who have been

left without the means of subsistence after the death of the husband or who have been deserted by the husband or whose husband is physically or mentally incapable of earning a livelihood. An outlay of Rs. 12.66 lakhs is proposed for the year 1979-80 to cover the 2500 new beneficiaries. A sum of Rs. 0.30 lakh is proposed under another scheme 'Home for widows and destitute women' to cover 30 new widows and destitute women who are in the need of institutional care for moral protection, psychological adjustment, educational and technical training and rehabilitation.

Welfare of handicapped

15.6 The students in the age group of 6—30 who are orthopaedically handicapped or are deaf and dumb or blind and the income of whose parents/guardians is less than Rs. 500 p.m. are provided scholarships ranging from Rs. 15-100 per month according to the standard of education or training. For this purpose Rs. 0.10 lakh are proposed for the year 1979-80. Under another scheme a sum of Rs. 0.44 lakh is proposed to provide artificial limbs to 90 orthopaedically handicapped persons to enable them to lead as normal a life as possible. Persons with income upto Rs. 300 per month are paid the actual cost of the artificial limbs, and persons with an income upto Rs. 500 per month half the cost.

Other Programmes

15.7 Grants-in-aid is given to voluntary organisations/institutions to encourage them in their efforts towards welfare activities concerning children, women, the aged and the handicapped. For this purpose an outlay of Rs 1.50 lakhs is proposed for 1979-80 against the provision of Rs 1.00 lakh in 1978-79. A sum of Rs 1.76 lakhs is to be provided as grant-in-aid to PGI, Chandigarh which is launching a programme for the rehabilitation of the blind.

Punjab State Women and Child Welfare Corporation

15.8 It has been decided to set up Punjab State Women and Child Welfare Corporation with an authorised capital of Rs 5.00 crores with a view to developing programmes for providing opportunities for gainful employment to needy women and children. An outlay of Rs 44.00 lakhs is proposed as the share capital contribution.

NUTRITION

15.9 The nutrition programmes seek to tackle the problem of malnutrition at its very roots by taking care of the expectant and nursing mothers and the pre-school children of the weaker section in the age group of 0-6 years. A sum of Rs 28.72 lakhs was spent during 1974-78 and 40402 beneficiaries were covered in five districts of Kapurthala, Hoshiarpur, Gurdaspur, Ferozepur and Faridkot and also ICDS block Nurpur Bedi. An outlay of Rs 20.00 lakhs has been provided in the Annual Plan 1978-79 to cover these five districts and ICDS block and for

two new ICDS blocks, Lambi in Faridkot district and Nathana in Bhatinda district. Against this provision the anticipated expenditure will come to Rs. 18.00 lakhs in 1978-79. In 1979-80 an outlay of Rs 16.00 lakhs is proposed to cover 16000 beneficiaries in the five districts and the three ICDS projects.

15.10 The rate of diet is 30 paise per head per day for 300 days. In ICDS blocks the traditional food is given and in the five districts the bread prepared by the MODERN BAKERIES is supplied.

Other Programmes

PUBLIC WORKS

Many Government administrative and office buildings, at the district, tehsil and block levels are in bad shape. To boost operational efficiency in Govt. offices new buildings are to be constructed. There is also an urgent need for new courts, police stations and jail buildings and major improvements in the existing buildings. More Circuit houses/Guest/rest houses are needed as also renovation of the existing ones. During 1974—78, Rs 330.73 lakhs were expended on Public Works. In order to effect improvements in this respect an outlay of Rs 2,071.56 lakhs has been provided in the Draft Sixth Five-Year Plan. During 1978-79, an outlay of Rs 125 lakhs has been made against which expenditure likely to be incurred will be Rs. 112.50 lakhs. Separate programme of various works to be taken up in 1979-80 are given in the following paragraphs :

Administrative Complexes

16.1 The State has 3 divisions, 12 districts, 41 sub-divisions, 42 tehsils and 34 sub-tehsils. For the convenience of the public, it has been decided that all Govt. offices and courts in a town may be constructed at one place. Such administrative complexes have been constructed at two districts and seven tehsil headquarters. Construction work is in progress at 18 other places during 1978-79. To complete the spill-over works at 10 places during 1979-80 (Rs 51.20 lakhs) and for undertaking new construction (tehsil complexes at Balachaur and Gurdaspur and district administrative complexes at Amritsar, Faridkot and Jullundur at a cost of Rs 48.80 lakhs), an outlay of Rs 100 lakhs has been proposed.

16.2 A sum of Rs 9.00 lakhs have been provided for the construction of courts buildings at Barnala, Phagwara, Samrala and Ajnala.

16.3 The details of these works and the proposed provision for 1979-80 is given in Annexure I.

Patwar Khanas

16.4 It is proposed to build 1,672 Patwar-khanas during the Sixth Plan. A provision of Rs 1.76 crores has been made to cover 30% of the cost during the Plan period. The balance 70% is to be raised from HUDCO. For 1979-80, an outlay of Rs 18.00

lakhs is proposed for construction of 300 Patwar-khanas. This outlay is expected to be supplemented with 70% loan assistance from HUDCO.

Police Stations

16.5 Police Stations in the State are in a very bad shape. Some of them require immediate renovations and for others new construction is to be undertaken. In view of this Rs 176.00 lakhs have been proposed in the Draft Sixth Five-Year Plan. For 1979-80, an outlay of Rs 50.00 lakhs is proposed.

Jails

16.6 Till recently, the jails in the State were operated on the pattern set by British Rulers. Prisoners were not accorded human treatment and were denied even the basic amenities of life. This attitude turned them into hardened criminals. As a first step towards reforms, jails are now called 'Sudhar Ghars'. It is intended to provide basic amenities of living in order to create a psychological atmosphere, which may enable them on their release to re-enter the normal stream of life in the community. An amount of Rs 701 lakhs has been provided during the Sixth Plan for the construction of jail buildings and for provision of facilities like flush latrines etc. in existing jail buildings. During 1974—78, Rs 63.56 lakhs were spent on jail buildings. A provision of Rs. 63 lakhs was made during 1978-79. Against this provision, a likely expenditure will be Rs 56.70 lakhs. For 1979-80, Rs 100 lakhs have been proposed for this purpose. Provision has mainly been made for the construction of Central Jail, Ludhiana (Rs 75.70 lakhs) provision of flush latrines (Rs 10 lakhs), for the purchase of land for jail farm of Central Jail, Ferozepur (Rs 5.30 lakhs) and for construction of open air jails at Nabha (Rs 4.50 lakhs) and at Kapurthala (Rs 3.16 lakhs). The details regarding the provision for jails is given in annexure-I.

Circuit Houses and Rest Houses

16.7 During 1974—78, Rs 47.08 lakhs were expended on the construction of circuit/rest houses. Anticipated expenditure in 1978-79 will be Rs 31.50 lakhs. The major provision during 1978-79 is for the completion of Punjab Bhawan at New-Delhi. For 1979-80, an outlay of Rs 5.00 lakhs is proposed for construction/renovations of rest houses, guest houses and circuit houses.

ANNEXURE—I

(Rs. in lakhs)

Minor Head	Serial No.	Detail of works	Outlay for (1979-80)
1	2	3	4
Spill over works			
Divisional offices and Tehsil Buildings	1	Construction of tehsil complex at Dasuya and residential buildings	2.00
	2	Construction of main block, residential houses at Gidderbaha	4.03
	3	Construction of tehsil complex at Sunam	2.81
	4	Construction of tehsil complex at Sultanpur Lodhi	3.76
	5	Construction of office and residential building for Commissioner, Ferozepur Division	1.89
	6	Construction of Tehsil complex at Rampura Phul	3.25
	7	Construction of Tehsil complex at Samrala	3.33
	8	Construction of tehsil complex at Patti	6.50
	9	Construction of tehsil complex at Fatehgarh Sahib	10.00
	10	Construction of district administrative complex at Rupnagar (1st Phase)	13.63
		Total		51.20
New Works			
	1	Construction of tehsil complex at Balachaur	5.00
	2	Tehsil complex at Gurdaspur	5.00
	3	District administrative complex at Amritsar	1.00
	4	District administrative complex at Faridkot	19.00
	5	District administrative complex at Jullundur	18.80
		Total	48.80
Courts	1	Sub Judge Court at Ajnala	1.57
	2	Judicial Court at Samrala	2.00
	3	Judicial Court at Phagwara	2.50
	4	Court complex at Barnala	2.93
		Total	9.00
Jails	1	Construction of Open Air Jail, Nabha	4.50
	2	Construction of Central Jail, Ludhiana	75.70
	3	Provision of flush latrines in Jails	10.00
	4	Purchase of 20.53 acres of land for Jail Farm for Central Jail at Ferozeore, in lieu of transfer of 16 acres of present jail farm, to the departments of Health and Urban Development	5.30
	5	Construction of new Open Air Jail, Kapurthala	3.16
	6	Construction of godowns in district Jail, Gurdaspur	1.34
		Total	100.00

LABOUR AND LABOUR WELFARE

16.8 This Head covers Labour Welfare, Employment services and Industrial Training.

Labour Welfare

16.9 Under labour welfare programme the efforts are made to maintain the good industrial relations, conditions of service and wages of workers employed in factories, shops and commercial establishments and for some other welfare measures for the workers and their dependents. During 1974-78 an amount of Rs. 10.23 lakhs was spent under this programme and another sum of Rs. 7.20 lakhs is expected to be incurred against the plan provision of Rs. 8.00 lakhs during 1978-79. A sum of Rs. 4.00 lakhs is proposed to strengthen the existing schemes and to start the new schemes : (i) strengthening of arbitration machinery, (ii) strengthening of enforcement machinery for Minimum Wages Act, 1948, (iii) strengthening of factory inspectorate, (iv) setting up of a safety cell, (v) setting up of a mobile medical laboratory for examination of industrial workers, and (vi) strengthening of statistical section.

Employment Services

16.10 Employment services programme has been considered an adequate and effective instrument for placement services particularly in transitional period of the developing economy like ours under which suitable placement service and vocational guidance are provided to the job seekers most suited to their talent and capabilities. During 1974-78 a sum of Rs. 13.22 lakhs was spent under this programme and an expenditure of Rs. 6.30 lakhs against the provision of Rs. 7.00 lakhs will be incurred during the current year. For 1979-80 an outlay of Rs. 2.00 lakhs is proposed. Out of this Rs. 1.84 lakhs have been provided for (a) setting up two town employment exchanges at Nabha and Tarn Taran, (b) setting up of four rural manpower units at Dehra Bassi, Zira, Talwandi Sabon and Sultanpur Lodhi, (c) setting up of an inspection unit at the directorate, (d) staff for the scheme "Unemployment allowance for educated unemployed and also the staff at the headquarters. A provision of Rs. 0.16 lakh is proposed for employment market information under which sub-employment market information units at the town employment exchanges, Abohar, Phagwara and Moga will be set up.

Industrial Training

16.11 The Industrial Training programme aims at meeting the growing requirements of the economy for skilled workers, improving the skill of the technicians by systematic and scientific training and improving the employability of educated men and women. During 1974-78 Rs. 138.25 lakhs were spent under this programme. During 1978-79 a sum of Rs. 48.60 lakhs is expected to be spent against the Plan provision of Rs. 54.00 lakhs. An outlay of Rs. 54.00 lakhs is proposed for the year 1979-80 for the three categories of training : (i) Craftsmen training ; (ii) Industrial schools for girls and (iii) Professional training. The programme in each category are briefly described below :—

Craftsmen Training.—The schemes of craftsmen training are run on all-India pattern under the aegis of the National Council for Training in Vocational Trades. The major policies are controlled and regulated by the Directorate General of Employment and Training, Government of India. The provision has been made for (i) converting the unpopular trades into popular trades ; (ii) addition to and replacement of worn out tools and equipments in the existing ITIs; (iii) training seminars and study tours of staff ; (iv) the completion of ITI buildings and the building of ITI Nabha which is under construction; (v) the strengthening of the training-cum-placement cell which maintains the link between the industry and passed out trainees to help the later to locate employment opportunities ; (vi) strengthening the Apprenticeship Training Wing to cope with the additional work load ; (vii) strengthening the instructional centre at Chandigarh ; (viii) the modernisation of ITI Patiala under UNDP/ILO aid programme to provide highly specialised courses in Indian standard and blue-print reading, tool and die making and electrical and mechanical maintenance, (ix) and the conversion of RATCs /JTSs/GISs into ITIs in response to pressing public demand and opening of new ITIs in non-represented areas. An outlay of Rs. 37.80 lakhs is proposed for all these programmes.

Industrial Schools for girls.—In the Industrial schools for girls training is imparted on the DGET pattern in trades such as cutting and tailoring, embroidery work, knitting, preservation of fruits and

vegetables and Punjabi stenography. At present there are 43 schools for girls. A sum of Rs. 13.20 lakhs is proposed for the schemes ; (i) completion of building of Government Industrial Teachers Training Institute, Jullundur ; (ii) construction of new buildings for schools ; (iii) opening of new schools in unrepresented areas and also addition of new seats into the existing schools ; (iv) starting of new teachers training classes in cutting and tailoring, embroidery and needle work, knitting with hand and machine, (v) opening of training-cum-production centres ; and (vi) modernisation and replacement of machinery in schools. The outlay of Rs. 0.50 lakh is also proposed for study tours, training and retraining, seminars and conferences and educational study tours.

Professional Training.—Under this programme a sum of Rs. 3.00 lakhs is proposed to be spent on the construction of the building of Arts and crafts Teachers Training Institute at Amritsar.

PUNJAB STATE CIVIL SUPPLIES CORPORATION

16.12 The Punjab State Civil Supplies Corporation was set up in 1974 to ensure procurement, supply and distribution of essential commodities to the common man at reasonable rates with an authorised capital of Rs. 5.00 crores. The Corporation is mainly engaged in the procurement and distribution of essential commodities, so as to create a buffer stock for keeping their prices under check. In addition, the Corporation is engaged in the supply of atta, vegetable ghee, moong and urad dals to consumers at subsidised rates fixed by the Government against ration cards. The Corporation continues to deal with the sale of various non-subsidised commodities through its retail shops. It has now a net work of 500 retail shops and 197 wholesale outlets spread over the State to ensure supply of essential commodities even in the far flung areas. By the end of 1978, Rs. 3.34 lakhs had been provided by the State Government as share capital contribution to the Corporation. The share capital contribution of Rs. 9 lakhs is likely to be disbursed during 1978-79. An outlay of Rs. 10.00 lakhs as share capital contribution is proposed for the year 1979-80.

STATIONERY AND PRINTING

16.13 During 1974—78, an expenditure of Rs. 31.63 lakhs was incurred on the programmes under Stationery and Printing and a sum of Rs. 18.11 lakhs is expected

to be spent in 1978-79. An outlay of Rs. 13.00 lakhs is proposed for 1979-80. During Fifth Plan, Typewriter Workshops at Amritsar, Ferozpur, Hoshiarpur and Sangrur were opened. The remaining 3 districts Ropar, Faridkot and Kapurthala are proposed to be covered during 1979-80 at a cost of Rs. 0.50 lakh. The press building at Patiala is proposed to be extended at a cost of Rs. 1.00 lakh and additional machinery and equipment for the ticket printing unit of this press is to be purchased at a cost of Rs. 4.00 lakhs. A sum of Rs. 6.00 lakhs has been provided for the Government Press at S.A.S. Nagar. An amount of Rs. 1.00 lakh has been proposed for additional staff for Government Press at Patiala and S.A.S. Nagar. Rs. 0.23 lakh have been earmarked for completion of the spill-over requirement of the construction of staff quarters at Patiala. The apprenticeship scheme for typewriter mechanics, which was started during Fifth Plan is proposed to be continued during Sixth Plan and an outlay of Rs. 0.12 lakh has been proposed for this scheme during 1979-80.

INFORMATION AND PUBLICITY

16.14 Effective communication with the people is necessary for informing, educating and motivating them for development. So far, the main reliance has been on man-based publicity. This has serious limitations. The large number of publicity workers required to reach over twelve thousand villages in the State, and the vehicles and other gadgets that will have to be provided to them, may mean an excessive financial burden. Moreover, all of them will not be equally effective or have a uniform approach to what is to be communicated. It is, therefore, proposed to shift gradually from man-based to media-based publicity. The Annual Plan programmes for which a provision of Rs. 40.00 lakhs has been made, have this orientation. An amount of Rs. 101.11 lakhs was spent during 1974-78 against the provision of Rs. 96.90 lakhs in the Draft Fifth Plan. The anticipated expenditure in 1978-79 will be Rs. 40.50 lakhs. For 1979-80 an outlay of Rs. 40.00 lakhs is proposed. Details of the programmes and schemes are given in following paragraphs.

16.15 The scheme for strengthening the Department of Public Relations provides for recruitment of three middle level journalists on contract basis. They will be stationed at the Divisional headquarters and feed the regional and national press with the stories

of positive achievements of the government. A provision of Rs. 3.00 lakhs has been made for this purpose.

16.16 An outlay of Rs. 6.00 lakhs is proposed for the production of documentary films and news reels and for the purchase of feature films for the entertainment and education of the people.

16.17 Sub-centres of publicity are established at the tehsil level for which an outlay of Rs. 9.00 lakhs is proposed. A sum of Rs. 0.40 lakh has been provided for the Audio-broadcasting Centre already established for making important announcements to the city population quickly. An amount of Rs. 1.00 lakh has been set aside for providing T. V. sets in Harijan Basties and village panchayats. The cost of the T. V. set will be shared by the panchayat and the government on 50 : 50 basis.

16.18 The Plan provision of Rs. 4.00 lakhs is made to strengthen the song and drama services by adding folk music, dhadhi Jathas and drama parties. A small provision of Rs. 0.10 lakh is also set aside for the maintenance of the community listening sets.

16.19 It is proposed to strengthen the exhibition unit of the department so that it may be able to stage exhibitions periodically at district level. A provision of Rs. 3.00 lakhs is, therefore, proposed under the scheme 'Exhibitions'. Rs. 2.70 lakhs are proposed for the scheme 'Display Advertisements' under which the government policies and achievements are propagated among the people.

16.20 It has been decided to interlink the district headquarters with State headquarters through teleprinters lines. Three districts viz. Patiala, Ludhiana, and Bhatinda were interlinked during the Fifth Plan and provision exists for linking up Faridkot and Ferozpur during 1978-79. The remaining districts will be interlinked during the Sixth Plan and for this purpose an outlay of Rs. 2.00 lakhs is proposed for the year 1979-80. Outlays of Rs. 0.30 lakh and Rs. 0.40 lakh are proposed for the schemes 'Wall painting' and 'Purchase of books for library at the headquarters respectively.

16.21 Encouraged by the success of the 'Light and Sound' programme 'Amritsar Sifti Da Ghar' it is proposed to set up light and sound unit of the State to stage shows not only in bigger cities but also in the rural areas. An outlay of Rs. 5.00 lakhs is

proposed for this unit during 1979-80. A small outlay of Rs. 0.10 lakh is also proposed under the scheme 'Feed back Studies' in order to ascertain the response of the audience to its varied programme.

PLANNING MACHINERY

16.22 The Planning machinery in the State has been reorganised. In February, 1978, a high level State Planning Board was set up with the Chief Minister as its Chairman. The other members are :—

- | | |
|---|--------------------|
| (1) The Planning and Finance Minister | Deputy Chairman |
| (2) Chief Secretary and Finance Secretary | Ex-officio Members |
| (3) Six Specialists | |

16.23 The technical staff at present working in the Punjab State Planning Board has been re-organised into 12 Divisions as under :—

- Economic Division
- Plan Co-ordination Division
- Local Plans Division*
- Employment and Manpower Division
- Agriculture and Rural Development Division
- Irrigation, Drainage and Flood Control Division
- Energy Division
- Industry and Minerals Division
- Trade and Transport Division
- Housing and Urban Development Division
- Special (Backward) Areas Division
- Social Services Division

16.24 The Economic and Statistical Organisation, which is under the administrative charge of the Planning Department is required to meet data needs for all the Divisions.

16.25 The staff strength of a division depends upon the nature of its responsibility. Typically, a division is structured as under :—

1. Head of Division of the status of a Subject Specialist or Director
2. Deputy Director

*It deals with planning at the block, municipal and district levels.

3. Research Officer
4. Technical Assistant
5. Secretarial staff

16.26 It is proposed to have the staff in each division during 1979-80 by filling all the vacant posts. The State Government have taken measures to remove the procedural and other bottlenecks in the way of speedy recruitment. This is being done to create a unified and professionally competent planning organisation, which could measure upto the growing complexity and sophistication of the planning process at the state level and will help in making it possible to take the planning to the local level. The need of efficient planning organisation will become all the greater as the Punjab economy grows and diversifies. The State Planning organisation urgently needs :

- (1) additional staff to fill the gaps ;
- (2) supporting planning organisation at the block, municipal and district levels;
- (3) a well equipped library ;
- (4) modern equipment for processing, maintenance and retrieval of data ;
- (5) in-service training of staff ;
- (6) funds to finance specialised studies on specific subjects, seminars and workshops and staff participation in conferences ; and
- (7) facilities for the staff to acquaint themselves with field conditions.

16.27 An outlay of Rs. 17.00 lakhs is proposed for 1979-80 for strengthening the State Planning Organisation in the above mentioned fields. It is hoped that this provision will be supplemented by generous assistance from the Planning Commission to build up the organisation to the required level of competence and efficiency.

STATISTICS

16.28 Economic and Statistical Organisation is the primary organisation in the State, which supplies data on various facets of State's economy for meeting the requirement of Planning and the implementing departments. The importance of statistics in a developing economy like ours is daily on the increase and there is an ever increasing demand on the

organisation for the supply of data on more and more varied aspects of the State's economy. To meet this additional demand of statistics and to fill in data gaps, a provision of Rs. 17.00 lakhs has been made for 1979-80, against a likely expenditure of Rs 18.00 lakhs during 1978-79.

16.29 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 to be appointed during the Fifth Plan period. During 1978-79, all the blocks are likely to be covered. To supervise their work and to consolidate data at the district level, District Statistical Offices are proposed to be strengthened by providing two statistical assistants in each of these offices. The District Statistical Offices at Amritsar, Jullundur, Ludhiana and Patiala have a heavy work load. These offices are proposed to be strengthened by putting each of them under the charge of a Senior District Statistical Officer (Class-I). To cope with the increased work load of establishment section at the headquarters of the organisation, additional ministerial staff has been proposed. For this purpose, strengthening of District Statistical Offices and headquarters, an outlay of Rs. 5.90 lakhs has been proposed for the year 1979-80.

16.30 For preparing estimate of capital formation in the State, it is proposed to collect detailed data separately for the household and the non-household sectors. For this purpose an outlay of Rs. 2.90 lakhs is proposed for 1979-80.

16.31 For setting up data bank to maintain comprehensive and up-to-date information on all major areas of interest, an outlay of Rs. 2.05 lakhs is proposed during 1979-80. The evaluation section is proposed to be strengthened at a cost of Rs. 1.50 lakhs during 1979-80 for taking additional evaluation work of all-India co-ordinated evaluation studies on different subjects and evaluation studies of State programmes of social development. For conducting *ad hoc* studies on subjects suggested by Central and State Govts., a provision of Rs. 2.05 lakhs has been made. During 1979-80, sample survey of wholesale and retail trade statistics, social statistics and of consumer expenditure and employment in selected blocks covered under the Integrated Rural Development Programme, is proposed to be under taken. For imparting training to junior level statistical personnel like technical

assistants, statistical assistants and computers etc. working in E.S.O. and other departments of State Govt., a training unit is proposed to be set up at a cost of Rs. 1.80 lakhs. An *ad hoc* provision of Rs. 0.20 lakh has been proposed for the purchase of computer timings during 1979-80 for getting the data tabulated quickly.

16.32 In addition an editing section, for editing the reports of various studies conducted by the organisation is proposed to be set up at a cost of Rs. 0.60 lakh during 1979-80.

ADMINISTRATIVE TRAINING INSTITUTE

16.33 The Punjab State Institute of Public Administration, which has been set up for training and research in public administration is to impart training to the probationers of the Indian Administrative Service allotted to the State of Punjab, the Punjab Civil Service Probationers and entrants to allied general services. In addition, it will organise mid-career training programmes for the middle and senior level officers of the Govt. and the Public Sector Undertakings.

16.34 The Institute came into being in March, 1978. Rs. 1.00 lakh was provided in Annual Plan 1977-78. It received a total grant of Rs. 8.40 lakhs in 1977-78 from State Government, which includes Rs. 1.00 lakh provided in the Annual Plan 1977-78.

16.35 During 1978-79, Rs. 4.50 lakhs are expected to be provided to the Institute against the original provision of Rs. 5.00 lakhs. A suitable building has been taken on rent by the Institute at Chandigarh and the administrative staff has been recruited. The State Govt. have earmarked land for the Institute at S.A.S Nagar, where it would be having its campus. Arrangements are in hand to build up a library for the Institute and the purchase of necessary equipment and furniture. The Institute would be conducting 2 or 3 specialised courses for certain services as mid courses.

16.36 It is proposed to provide Rs. 11.00 lakhs to the Institute in Annual Plan 1979-80. This would be used to cover the recurring and non-recurring expenses including payment of first instalment towards the cost of land. Plans for the construction of building complex of the Institute are expected to be finalised during 1978-89.

CHAPTER XVII

Employment

Removal of unemployment has been accorded a high priority in the Annual Plan, 1979-80. A target of full employment is proposed to be achieved in the State in a period of 10 years through (i) accelerated growth of the Punjab economy, (ii) diversification of the economy and (iii) accent on labour intensive technology wherever feasible. The employment problem in Punjab has certain specific features. As far as unskilled manpower is concerned, particularly in the rural areas, chronic unemployment is rather insignificant. There is some seasonal unemployment but on the other hand, there is also seasonal shortage of unskilled manpower which is met by labour force from outside the State. The programmes of Agriculture and Rural Development included in the Annual Plan are expected to further reduce the incidence of under-employment among unskilled labour. The perspective in this respect thus gives no cause for concern. The situation is, however, very different in respect of the educated unemployed. The Live Register statistics in this behalf are given in Annexures I and II.

17.2 The total number of work-seekers in the State was 3.91 lakh as on 30th September, 1978. There has been an increase of 11.7 per cent in the number of unemployed in one year (ending on 30th September, 1978). There was greater rise in unemployment (18.5 per cent) among technical and professional personnel than among other categories of personnel during the year under study. The employment situation deteriorated particularly among graduates in electrical and chemical engineering, diploma holders in mechanical engineering, skilled craftsmen (non I. T. I. trained), dentists and J. B. T. teachers these categories witnessed an increase of more than 20 per cent in the number of their unemployed in one year. There were a few categories of technical and professional personnel whose number on the Live Register declined during the last one year. These include veterinary graduates, agricultural graduates and post-graduates, science teachers, M.Eds., graduates in mechanical engineering and diploma holders in electrical engineering. The number of unemployed science graduates and post-graduates also declined during the last one year. All other generally educated persons got an increase in unemployment.

17.3 For tackling the problem of unemployment in rural areas, an Integrated Rural Development Programme has been started. With the implementation of this programme, full employment is likely to be generated in rural areas in a period of ten years.

17.4 The problem of unemployment among educated personnel has been hitherto tackled not only through the normal plan programmes but also through special employment programmes implemented in the State under the 'State Employment Promotion Programme'.

17.5 State Employment Promotion Programme was started in 1975-76. In the beginning, the progress of the programme was rather slow. The main objective of this programme is to create self-sustaining employment with minimum use of Government resources. Therefore, schemes of self-employment having multiplier effect or those relating to training for self-employment, training for guaranteed employment and training to scheduled castes for filling up reserved vacancies lying unfilled for want of candidates fulfilling the prescribed qualifications have been started under this programme.

17.6 Upto 31st March, 1978, schemes costing Rs. 448.79 lakhs were approved. Out of this amount, actual expenditure of Rs. 121.79 lakhs was incurred. Upto 31st March, 1978 employment was generated for about 6700 persons with indirect employment for 3200 persons.

17.7 For the year 1978-79, a sum of Rs. 200.00 lakhs was provided for the employment programme. Against this amount, schemes costing Rs. 138.06 lakhs, as mentioned in Annexure III, were approved and the balance amount of Rs. 61.94 lakhs was kept as reserve for the new employment schemes. Out of this reserve amount, a sum of Rs. 17.82 lakhs has been provided for giving unemployment allowance (Rs. 40 per mensem for matriculates and Rs. 50 per mensem for graduates and post-graduates) to 3385 educated unemployed persons who have

been on the Live Registers of the employment exchanges in the State for the last five years. This allowance will provide a sort of short-term relief pending effective measures to eradicate unemployment among educated youth. However, the revised estimate of expenditure on the programme during 1978-79 is of the order of about Rs. 110.00 lakhs.

17.8 Punjab cannot afford employment unrelated

to productive activities. In the Sixth Five Year Plan, therefore, employment has been viewed primarily as a function of economic development. The employment schemes heretofore implemented under the State Employment Promotion Programme will form an integral part of the development plans of the respective departments and will not be treated as schemes under a separate programme from 1979-80.

ANNEXURE-I

Number of work-seekers, uneducated and educated (technical and non-technical) on Live Registers of Employment Exchanges in Punjab.

Category	No. of work-seekers as on		Percentage increase or decrease during the year
	30-9-1977	30-9-1978	
1	2	3	4
1. Uneducated ..	168693	185354	9.88
2. Educated ..	181469	205802	13.41
(i) Technical ..	66354	78600	18.46
(ii) Non-Technical ..	115115	127202	10.50
Total work-seekers (1+2) ..	350162	391156	11.71

ANNEXURE-II

Number of work-seekers (category-wise) on the Live Registers of Employment Exchanges in Punjab.

Category	No. of work-seekers as on		Percentage increase or decrease during the year
	30-9-1977	30-9-1978	
1	2	3	4
1. Graduate Engineers			
(a) Civil	107	120	12.15
(b) Mechanical	62	47	-24.19
(c) Electrical	110	143	30.00
(d) Chemical	6	8	33.33
(e) Agricultural	41	46	12.20
(f) Others	32	26	-18.75
Total—1	358	390	8.94
2. Diploma Engineers			
(a) Civil	1362	1397	2.57
(b) Mechanical	581	714	22.89
(c) Electrical	968	916	-5.37
(d) Others	42	69	64.29
Total—2	2953	3096	4.84
3. Craftsmen Trained from I.T.Is.			
(a) Technical Trades	11774	12337	4.78
(b) Non-Technical Trades	7326	7616	3.96
Total—3	19100	19953	4.47
4. Other Craftsmen			
(a) Technical Trades	3695	4578	23.90
(b) Non-Technical Trades	1967	2493	26.74
Total—4	5662	7071	24.89
5. Allopathic Doctors			
(a) M.D./M.S.	1	..	-100.00
(b) M.B.B.S.	71	74	4.23
(c) Dentists	4	12	200.00
Total—5	76	86	13.16
6. Doctors Others			
(a) Ayurvedic	99	106	7.07
(b) Hakim/Unani	2	4	100.00
(c) Homoeopathic	12	14	16.67
Total—6	113	124	9.73

Category	No. of work-seekers as on		Percentage increase or decrease during the year
	30-9-77	30-9-78	
1	2	3	4
7. Para-Medical Personnel ..	1349	1509	11.86
8. Agricultural Specialists—			
(a) Agricultural Graduates ..	522	511	-2.11
(b) Agricultural Post-graduates ..	58	53	-8.62
Total—8 ..	580	564	-2.76
9. Veterinarians—			
(a) M.V.Sc.	1	..	-100.00
(b) B.V. Sc. ..	61	48	-21.31
(c) Dairy Graduates ..	3	6	100.00
Total—9 ..	65	54	-16.92
10. Teachers—			
(a) M.Ed. ..	75	65	-13.33
(b) B.E.d. (Science) ..	2142	1900	-11.30
(c) Math. Masters ..	N.A.	465	N.A.
(d) B.Ed. (Others) ..	11764	14056	19.48
(e) J.B.T.	5603	9332	66.55
(f) Language Teachers ..	1528	1627	6.48
(g) Others ..	14986	18308	22.17
Total—10 ..	36098	45753	26.75
11. Total (1 to 10) ..	66354	78600	18.46
12. Graduate Persons ..	25244	28319	12.8
(a) Graduate Arts/Commerce freshers ..	22261	25692	15.41
(b) Graduate Science freshers ..	2983	2627	-11.93
13. Post-graduate freshers ..	6851	8000	16.77
(a) Post-graduate Arts and Commerce freshers ..	5606	7052	25.79
(b) Post-graduate Science freshers ..	1245	948	-23.86
14. Matriculate freshers ..	60400	64229	6.34
15. Higher Secondary including intermediate (below graduates)	22620	26654	17.83
16. Total Educated Unemployed freshers, matric and above ..	115115	127202	10.50
(Total items 12 to 15)			
17. Live Register other than covered under items 1 to 15 ..	168693	185354	9.88
18. Total Live Register ..	350162	391156	11.71

ANNEXURE III

Employment schemes approved under the State Employment Promotion Programme for the year 1978-79.

Serial No.	Name of the Scheme	Outlay approved (Rs. lakhs)	Employment potential (Nos.)
1	2	3	4
1.	Promotion of self-employment-Seed/Margin money assistance to entrepreneurs	10.00 (for PSSIC)	115 (direct) 575 (indirect)
		15.00 (for Khadi Board)	1000 (direct) 4000 (indirect)
2.	Training for self-employment ..	3.00	390
3.	Training for guaranteed employment ..	9.00	700
	Strengthening of staff in the Directorate of Industries for implementing the employment schemes	1.50	17 (staff continuing from previous years)
	Strengthening of Punjab Khadi and Village Industries Board. ..	2.82	41 (staff continuing from 1977-78)
4.	Seed/Margin money assistance to entrepreneurs for setting up agro-service centres (or persons trained under a Centrally-sponsored scheme)	5.25	70 (direct) 210 (indirect)
5.	Setting up of 300 agro-service centres-payment of interest subsidy to 300 entrepreneurs who may set up agro-service centres in 1977-78 (A State scheme)	43.61	300 (direct) 6 (training staff) 900 (indirect)
6.	Establishment of Social Works and Research Centre ..	2.00	30 (staff continuing from previous years)
7.	Training for self-employment to educated unemployed youth in farm machinery operation and maintenance, etc.	1.12	60 (trainees) 2 (staff continuing from 1977-78)
8.	Training for self-employment to educated unemployed youth in installation and repair of tube-wells and pump sets	1.42	160 (trainees) 2 (staff continuing from 1977-78)
9.	Apprenticeship training to matriculates as typewriter mechanics ..	0.12	10
10.	Training for self-employment in poultry, piggery and dairying ..	0.76	345
11.	Training to matriculates, with Science or Animal Husbandry, as Pashu Rakshaks for giving medical aid to animals and seed/margin money assistance to trained persons for purchasing veterinary kits	4.30	708 (Trainees continuing from 1977-78)
12.	Special employment drive-scheme for self-employment-introduction of commercialised milk production in the State	29.12	720 (Trainees) 21 (staff, including 12 members of staff continuing from 1976-77)
13.	Training to scheduled castes in Diploma course in Engineering (3 year's course)	0.30	215 (trainees continuing from 1975-76 and 1976-77)
14.	Training to scheduled castes as multipurpose health workers(2-2½ years' course)	0.30	50 (Trainees continuing from 1976-77)
15.	Training to 1500 scheduled caste matriculates as J.B.Ts. ..	8.44	1500 (Trainees) 180 (staff for giving training)
	Total ..	138.06	6642 (direct, including 973 trainees and 104 members of staff continuing from previous years) 5685 (indirect)

Revised Minimum Needs Programme

The Draft Sixth Five-Year Plan 1978—83, issued by the Planning Commission envisages the following three principal objectives of planning for the next ten years :—

- (i) The removal of un-employment and significant under-employment;
- (ii) An appreciable rise in the standard of living of the poorest sections of the population;
- (iii) Provision by the State of some of the basic needs of the people in these income-groups, like clean drinking water, adult literacy, elementary education, health care, rural roads, rural housing for the landless and minimum services for the urban slums.

18.2 The third objective has been broadly defined as a Revised Minimum Needs Programme. This Programme includes following nine items of minimum needs :—

- (1) Elementary Education
- (2) Adult Education
- (3) Rural Health
- (4) Rural Water Supply
- (5) Rural Roads
- (6) Rural Electrification
- (7) Houses for landless labour house-holders
- (8) Environmental improvement of urban slums
- (9) Nutrition Programme

18.3 All the villages in the State have already been electrified. The next step is to intensify and improve the use of power in rural areas. Thus except for this item (6), details of other programmes are given in the following paragraphs.

Elementary Education

18.4 (i).—Primary Education (Classes I-V) age-group 6—11 : Under this programme an outlay of Rs 55.50 lakhs is proposed for 1979-80. The State Government has achieved an enrolment target of 118.4% in the age-group 6—11 by the end of 31st

March, 1978. In this age-group the likely enrolment for 1978-79, is 111.45% and the proposed target for 1979-80 is 109.30%. In addition to the proposed outlay of Rs. 55.50 lakhs for Primary Education (Classes I-V) an outlay of Rs. 0.50 lakh is also proposed for the introduction of Non-Formal Education Programme in Classes I-V. This programme has been designed to reduce the number of drops-out in the age-group 6—11 by starting condensed courses, so that the children, who are not in a position to attend regular classes may avail educational facilities during their spare hours. It is proposed to start 50 part-time non-formal education centres.

(ii) *Middle Education (Classes VI-VIII) age group 11—14:* For this programme a sum of Rs. 133.82 lakhs is proposed for 1979-80 against the approved outlay of Rs. 464.36 lakhs for 1978-79. In the age-group 11—14, 57.5% enrolment was achieved by the end of 31st March, 1978. The likely achievement of enrolment in this age-group will be 59.09% by the end of the year 1978-79. It is envisaged to enrol 0.60 lakh additional children in this age-group and thereby raising the percentage enrolment to 64.02% during 1979-80.

(iii) *Non-Formal Education in the age group 11—14:* For this programme a sum of Rs. 1.00 lakh is proposed for 1979-80. The approved outlay for 1978-79 is Rs. 5.00 lakhs. It is proposed to establish 100 part-time centres, for children who leave the schools after the primary stage and do not join middle classes.

Adult Education

18.5 Alongwith the universalisation of elementary education, it is essential to remedy the educational deprivation of the adult population to enable them to develop their full potentialities and to play an active role in economic, social and cultural progress. The objective of this programme is to create a situation in which the poor do not remain passive spectators but become active and intelligent participants in the development process. It is proposed to launch a massive programme under adult education during Sixth Five-Year Plan (1979-83) and for this purpose a sum of Rs. 67.04 lakhs has been proposed, out of which Rs. 12.97 lakhs are

proposed for the year 1979-80 as detailed below :—

	(Rs. in lakhs)
(i) Literacy in rural areas (Non-formal education age-group 15—35)	9.87
(ii) Production of literature (follow up material)	0.80
(iii) Libraries (follow up Programme)	2.30
Total	12.97

Rural Health Services

18.6 The entire expenditure on rural health care services (Allopathic) falls under minimum needs programme. During 1974—78, an expenditure of Rs. 406.11 lakhs was incurred under M.N.P. of the health sector. 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. 3021.85 lakhs has been proposed under M.N.P. for the Sixth Five-Year Plan. For 1979-80, an outlay of Rs. 278.46 lakhs is proposed. The following structure for rural health services has been visualised :—

- (i) one subsidiary health centre shall be provided per 5000 rural population;
- (ii) each block shall be provided with one 25 bed hospital.

18.7 Different schemes under M.N.P. are discussed below :—

(i) *Completion and Improvement of Primary Health Centres* : Out of the existing 128 Primary Health Centres, buildings in respect of 105 Primary Health Centres have been completed. The work with regard to 10 Primary Health Centres is in hand. An outlay of Rs. 25.00 lakhs is proposed during 1979-80 for the completion of the on-going works and to take-up the construction work of the remaining Primary Health Centres. Medicines and equipment to all the Primary Health Centres will be provided from the non-plan budget.

(ii) *Completion and Improvement of Sub-centres* : In view of the above envisaged rural health structure, this scheme is being discontinued from

1979-80. No outlay is, therefore, proposed under this scheme.

(iii) *Establishment of 25 bedded block-level rural Hospitals* : Twenty-five bedded hospitals are established at block level either by upgrading the existing primary health centres or by establishing new hospitals. During 1978-79, a new scheme called the 'One third scheme' has been included. Under this scheme expenditure on 25-bedded hospitals is shared by the Central Government, the State government and Voluntary organisations on equal basis. At the end of the current year there will be 66 such hospitals. In 1979-80, 30 such hospitals will be established. An outlay of Rs. 134.00 lakhs is proposed for the establishment of block level rural hospitals during 1979-80.

(iv) *Opening of subsidiary health centres in rural areas* : At the end of the Fifth Plan, (1977-78) there were 716 rural dispensaries in the State. During the current year 200 new dispensaries will be established. It is proposed to set up 250 new dispensaries in 1979-80, and the final target of one dispensary per 5000 population will be realised by 1984-85 or 1985-86. Since the building for the dispensary is to be provided by the local community, the plan provision is mainly for staff, and other miscellaneous expenses. Only Rs. 10.00 lakhs have been proposed for construction of buildings in the areas, where the local community is too poor to provide accommodation.

(v) *Improvement of subsidiary health centres* : This scheme is also being discontinued from 1979-80. An outlay of Rs. 10.00 lakhs is proposed for the spill-over works.

(vi) *Establishment of dental clinics in each block* : An outlay of Rs. 4.00 lakhs is proposed for the establishment of dental clinics at block headquarters. At the end of the Fifth Five Year Plan (1977-78) there were 48 dental clinics at block headquarters. Twenty dental clinics are proposed to be set up during the current year. During 1979-80 establishment of 10 dental clinics is proposed.

(vii) *Providing specialists teams in rural areas* : It is proposed to provide 10 teams of specialists at block level. Each team will consist of specialists in six specialities viz. medicine, surgery, midwifery and gynaecology, Eye and E.N.T., paediatrics and anaesthesia. Each such team will be provided with a mini-bus for enabling it to provide services to the

block population at regular intervals. An outlay of Rs. 10.00 lakhs is proposed for this purpose.

Rural Water Supply

18.8 The total cost of providing piped water supply to all the 12188 villages in the State is estimated at Rs. 257.00 crores. This is beyond the capacity of the State. Government have decided that for the present the coverage should be limited to scarcity villages only. The following criteria have been laid down by Government of India for identifying the scarcity villages :—

- The villages (i) without an assured source of drinking water within 1.6 K.M. or so, or ;
 (ii) where the source of water supply is endemic to water born diseases like Cholera or ;
 (iii) where there is excess salinity, iron or flouride.

18.9 According to these criteria 3800 villages have been identified as scarcity villages in the State. These villages are located both in sub-montanous areas and the plains. In the sub-montanous area, the water sources are either deep or very far from the villages and in the plains water is highly brackish or saline or it contains excessive flourides.

18.10 As per revised design criteria of 15 gallons (70 litres) per head per day and a terminal pressure of 8 mitres, the total cost of providing piped water supply to 3800 scarcity villages has been estimated at Rs.142.00 Crores. The detail of actual expenditure upto the end of Fourth Plan, actual expenditure for the period 1974-78, anticipated expenditure for 1978-79 and the proposed outlay for 1979-80 are given below :—

Year	Expenditure (Rs. in Crores)			Total
	State Plan Scheme	Govt. of India Scheme		
1	2	3	4	
Upto 1973-74	..	12.59	..	12.59
During 1974-78	..	17.14	1.00	18.14
During 1978-79 (Anticipated Expenditure)	..	4.05	1.00	5.05
During 1979-80 (Proposed outlay)	..	5.00	N.A.	5.00
Total	..	38.78	2.00	40.78

18.11 During Sixth Five Year Plan, an outlay of Rs. 39.70 crores has been proposed for Rural Water Supply Schemes. For 1979-80, an outlay of Rs. 5.00 crores has been set aside for this scheme to commission water supply in 135 villages.

18.12 Major targets and achievements under the programme are given below :—

Year	No. of villages in which Water supply scheme		
	Commissioned	In pro- gress	
1	2	3	
Upto 1973-74	..	524	1043
During 1974—78	..	1150	563
During 1978-79 (anticipated)..		130	610
During 1979-80 (target) ..		135	N.A.
Total	..	1939	

The balance liability under this scheme at the end of 1979-80 shall be Rs. 101.22 crores.

Rural Roads

18.13 Under this programme, the following two schemes are being implemented.

(i) *Village Link Roads* : High priority was given to the construction of rural roads during the Fourth Plan. Against a sum of Rs. 8.14 crores originally provided in the Fourth Plan for the construction of Village Link Roads, an expenditure of Rs. 35.52 crores was incurred. During the Fifth Plan period (1974—78), the expenditure incurred on this programme was as much as Rs. 29.26 crores, out of total expenditure of Rs. 39.63 crores on Sub head 'Roads and Bridges'. During this period, 5261 Kms. of road length was completed, bringing the total road kilometreage constructed under this programme from 15985 at the end of Fourth Plan to 21246 at the close of Fifth Plan period. The number of villages not connected by roads, which stood at 3800 at the end of Fourth Plan was reduced to 1785 on 31st March, 1978, by connecting 2015 villages during 1974-78. In the current year, an outlay of Rs. 1550.00 lakhs has been provided and the anti-

icipated expenditure will be of the order of Rs. 1378.00 lakhs. It is anticipated that 2000 Kms. of road length will be added to the village roads net work giving metalled links to 1400 villages. The number of villages left unlinked at the beginning of 1979-80 would be 385, which would require construction of 640 Kms. of road length. A sum of Rs. 500.00 lakhs has been proposed for 1979-80 for spill over work and to construct the balance of 640 Kms. of road length required to provide links to the remaining villages.

ii. Zilla Parishad Roads:—Under this programme, the Zilla Parishad roads have been taken over by the State Government for bringing them upto P. W. D standard. A sum of Rs. 35.91 lakhs was spent during 1974—78. A sum of Rs. 45.00 lakhs has been proposed for 1979-80, against a provision Rs. 20.00 lakhs during the current year.

Houses for landless labour householders. (Harijan Houses).

18.14 With a view to improving the housing conditions of the landless workers in the rural areas, the Minimum Needs Programme envisages a provision of 100 sq. yards house-sites free of cost to such workers. The loans are also given for construction of houses on these sites.

18.15 House sites have already been allotted to the landless workers in the rural areas and almost all the eligible persons have been covered during the Fifth Five-Year Plan. The problem now is one of providing loans for construction of houses. For this purpose Housefed is raising institutional finance for the advancement of loans to the allottees. The Housing Board has also been entrusted with the responsibility of constructing houses on the house-sites allotted free to landless agricultural workers especially Harijans. During 1977-78, a sum of Rs. 1.5 crores was provided to the Housing Board for this purpose and during 1978-79, Rs. 1.00 crore have been given.

18.16 The Housing Board took up the construction of 3946 houses during 1977-78 and additional construction of 5000 houses during 1978-79, by raising loan from HUDCO. By the end of 1978-79, the construction of 8946 houses would be completed. During 1979-80, an outlay of Rs. 70 lakhs has been proposed. It is hoped that the Housing Board will supplement this provision by raising additional loan

from HUDCO and they should be able to take up the construction of additional 3500 houses during 1979-80.

Environmental improvement of Urban Slums (Slum Clearance/Improvement)

18.17 The fast rate of urbanisation has led to the development of slums in practically all the growing towns of the State. Schemes can be taken up for clearance of slums and construction of new houses for slum dwellers. For this purpose, legislation, called the Punjab Slum Areas (Improvement and Clearance) Act 1961, exists. Under this Act local bodies have been empowered to declare areas as slums and proceed to demolish the existing buildings etc. The approach during the Sixth Five-Year Plan is not to demolish the existing slums and re-establish the slum dwellers at new places, but to provide basic amenities like drinking water, paving of streets, drainage, public urinals and laterines etc., in the existing slums, so that the living conditions of the dwellers could be improved.

18.18 During 1974—78, Rs. 219.00 lakhs were expended on slum clearance improvement of slums. During Sixth Five-Year Plan an outlay of Rs. 5.80 lakhs has been proposed for the limited work of environmental improvement of slums by providing civic amenities like drinking water, paving of streets, drainage, public urinals and latrines etc. For 1979-80, an outlay of Rs. 2.00 lakhs has been proposed for this purpose.

Nutrition.

18.19 A sum of Rs. 28.72 lakhs was spent during 1974—78 to tackle the problem of mal-nutrition by taking care of the expectant and nursing mothers and the pre-school children of the weaker sections of society in the age group of 0—6 years covering 40402 beneficiaries in 5 districts, Faridkot, Ferozepur, Kapurthala, Gurdaspur and Hoshiarpur and one ICDS block Nurpur Bedi, district Ropar. The expenditure likely to be incurred on this programme in 5 districts and three ICDS blocks during 1978-79 will come to Rs. 18.00 lakhs. An outlay of Rs. 16.00 lakhs is proposed to continue this programme in these five districts and three ICDS blocks. The rate of diet is 30 paise per head per day for 300 days. In ICDS, block, the traditional food is given and in five districts the bread prepared by MODERN BAKERIES is supplied.

Special Component Plan for Scheduled Castes

The Scheduled Castes in the State constitute about 25 percent of the total population. They are spread all over the State in varying proportion. This proportion is higher than the State average in Jullundur, Hoshiarpur, Faridkot and Bhatinda districts. Ferozpur District has the lowest percentage (18.2%) of Scheduled Castes. The following table indicates the district-wise distribution of Scheduled Castes population:—

TABLE I—District-wise distribution of Scheduled Castes

District	Total Population	Scheduled Castes Population	Percentage of S.C. to the total Population
Gurdaspur	12,29,249	1,67,110	21.7
Amritsar ..	18,35,500	4,18,746	22.8
Kapurthala ..	4,29,514	1,06,201	24.7
Jullundur ..	14,54,501	4,77,853	32.9
Hoshiarpur ..	10,52,153	3,03,521	28.8
Ropar ..	5,49,102	1,26,363	23.0
Ludhiana ..	14,19,421	3,37,315	23.8
Ferozpur ..	10,44,936	1,89,918	18.2
Faridkot ..	11,53,760	3,34,807	29.0
Bhatinda ..	10,25,271	2,64,251	25.8
Sangrur ..	11,46,650	2,71,322	23.7
Patiala ..	12,11,003	2,50,810	20.7
Total	1,35,51,060	33,48,217	24.47

19.2. Spatial distribution in rural and urban areas shows that 85% of the scheduled castes live in villages as compared to 73% non-scheduled castes. The following table gives the rural and

urban population of scheduled castes and non-scheduled castes:—

TABLE II—Rural Urban Population
(Figure in lakhs)

	Rural	Urban	Total
Non-Scheduled Castes	74.79 (73.3%)	27.24 (26.7%)	102.03 (100.0%)
Scheduled Castes	28.56 (85.3%)	4.92 (14.7%)	33.48 (100.0%)

Occupational classification of scheduled caste population reveals that 58 per cent of them are agricultural labourers as compared to 8 per cent of the non-scheduled castes. Only 10.7 per cent are cultivators, mostly small and marginal farmers. Thus a majority of them are found to be engaged in agriculture. Little more than 2 per cent are engaged in trade and commerce. Though the proportion of scheduled castes and non-scheduled castes is the same in the manufacturing, processing and repair industry, the scheduled castes are mostly to be found engaged in flaying, tanning and shoe-making/repairing. The following table gives the occupational distribution of scheduled castes and non-scheduled castes:—

TABLE III : Occupational classification
(Figure in lakhs)

Occupation	Scheduled Castes	Non-Scheduled Castes
1. Cultivators ..	1.02 (10.66)	15.63 (52.87)
2. Agricultural labourers ..	5.55 (57.99)	2.32 (7.85)
3. Livestock, fishing, hunting and plantation, orchards and allied activities	0.17 (1.78)	0.20 (0.68)
4. Mining and quarrying ..	..	..
5. Manufacturing, processing and repair	1.08 (11.29)	3.34 (11.30)
6. Construction ..	0.22 (2.30)	0.55 (1.86)
7. Trade and Commerce ..	0.21 (2.19)	3.01 (10.18)
8. Transport and Communication	0.25 (2.61)	0.85 (2.88)
9. Other Services ..	1.07 (11.18)	3.66 (12.38)
Total ..	9.57 (100.00)	29.56 (100.00)

19.3. The level of literacy among the scheduled castes population is very low, a little more than 16 per cent of the male literate as compared to more than 39 per cent of the non-scheduled castes. About 4 per cent of the scheduled caste women are literate as compared to 12.37 per cent men. The table below indicates the proportion of literate male and female population of scheduled castes :—

TABLE-IV : Percentage of literacy among Scheduled Castes
(Figure in lakhs)

	Male	Female	Total
Literates ..	4.14	1.26	5.40
Percentage ..	12.37	3.76	16.13

19.4. Most of the scheduled castes are below the poverty line. Lack of education, low income occupations and rapid growth in their population are among the major reasons for their economic backwardness. About 58 per cent of them are agricultural labourers. Those who are classified as cultivators may actually be no better than daily wage earners in the matter of income. The artisans among them, mostly leather workers, continue to suffer from a number of handicaps in improving their skills and working conditions. Besides, a number of them continue to be engaged in un-hygienic occupations like scavenging and cleaning of lavatories.

19.5. Since the First Five-Year Plan special programmes for the welfare of Scheduled Castes have been regularly formulated and implemented. Emphasis

has been laid on (i) programmes for the spread of education, (ii) programmes for economic development and (iii) programmes for housing, environmental improvement and other social assistance. Scheduled Castes have also benefited from the various Plan programmes and schemes implemented for creating necessary economic infra-structure and social services. However, benefits from the general sector do not seem to have made any significant impact in improving the living standards of this class of people. For achieving the goal of social justice, it is imperative that the scheduled castes, who constitute the poorer and the more vulnerable section of the community, should receive maximum benefits from plan programmes. For this purpose Special Component Plan for Scheduled Castes has been prepared after identifying programmes and schemes which are divisible and in whose case outlays can be quantified in favour of scheduled castes. The earmarking of funds under each scheme is not strictly in proportion to their population in the State. It varies from 10 per cent in the case of some schemes to 100 per cent of the Plan provision under other schemes.

19.6. The total outlay of the Special Component Plan for 1979—83 is Rs. 35.80 crore. This is 35.5 per cent of the total Plan provision of the identified schemes. For 1979-80 a provision of Rs. 5.84 crores has been made for the Component Plan. Details of the Plan provision and outlays earmarked for scheduled castes under the various sub-heads of development are given in Annexure I. Schemewise details of funds provided under the Special Component plan for scheduled Castes are given in Annexure II.

ANNEXURE I
SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

Summary Statement by Heads of Development

(Rs. in lakhs)

Sub head of Development	1979-83		1979-80	
	Plan Provision	Outlay earmarked for Scheduled Castes	Plan Provision	Outlay earmarked for Scheduled Castes
1	2	3	4	5
1. Agriculture ..	2385.23	382.00	418.90	72.50
2. Soil Conservation ..	789.00	79.00	178.00	17.80
3. Animal Husbandry ..	632.70	175.75	110.30	29.35
4. Dairying and Milk Supply ..	231.37	62.50	39.80	11.20
5. Fisheries ..	56.33	14.00	3.00	0.75
6. Community Development and Panchayats ..	515.76	130.00	53.80	14.00
7. Cooperation ..	13.00	9.00	2.00	1.35
8. Industry and Minerals ..	1546.44	183.00	300.93	34.90
9. General Education ..	150.26	37.50	32.93	8.25
10. Technical Education ..	6.00	1.50	0.80	0.20
11. Housing ..	1572.32	635.60	340.00	138.50
12. Labour and Labour Welfare ..	2.00	0.50	0.50	0.13
13. Welfare of Scheduled Castes and Backward Classes ..	1766.05	1766.05	245.00	245.00
14. Social Welfare ..	228.80	57.20	24.70	6.30
15. Nutrition ..	184.80	46.30	16.00	4.00
16. Stationery and Printing ..	0.48	0.10	0.12	0.03
Total ..	10080.54	3580.00	1766.78	584.26

ANNEXURE II

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

Head : AGRICULTURE

(Rs. in lakhs)

Scheme	1979-83		1979-80		
	Plan Provision	Outlay earmarked for Scheduled Castes	Plan provision	Outlay earmarked for Scheduled Castes	
Agricultural education, extension and farmers training					
A(P)2-14	Facilities for training of middle level technicians in agriculture	11.59	2.90	1.10	0.25
A(P)2-19	Earn while you learn scheme	4.00	1.50	..	..
	Total	15.59	4.40	1.10	0.25
Extension and Farmer training					
A(P)3-5	Training of farmers	8.00	1.00	1.80	0.25
A(P)3-7	Higher Training and condensed Course for in-service ASIs/CIs/GSSs	7.50	1.00	2.00	0.25
	Total	15.50	2.00	3.80	0.50
Land Reclamation					
A(P)5-3	Amendment of alkali soils (Sharing basis)	1346.00	134.63	215.00	21.50
	Total	1346.00	134.60	215.00	21.50
High Yielding Varieties Programme					
A(P)8-2	Integrated Rural Development Programme	329.00	82.25	50.00	12.50
	Total	329.00	82.25	50.00	12.50
Small farmers and agricultural labourers					
A(P)11-1	Scheme for small farmers and agricultural labourers	264.00	100.00	65.00	25.00
	Total	264.00	100.00	65.00	25.00
Horticulture					
A(P)16-3	Development of Horticulture	300.14	30.00	54.85	5.50
A(P)16-4	Development of Horticulture in Shivalik Hills	15.00	3.75	4.15	1.00
	Total	315.14	33.75	59.00	6.50
Employment Promotion Programme					
A(P)19-1	Setting up of 300 Agro-Service Centres—Payment of interest subsidy to the entrepreneurs	100.00	25.00	25.00	6.25
A(P)19-2	Secu. margin money assistance to entrepreneurs for setting up of agro-service Centres for (persons under centrally sponsored scheme)	..	..	..	..
	Total	100.00	25.00	25.00	6.25
	Grand Total :	2385.23	382.00	418.90	72.50

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

HEAD : SOIL CONSERVATION

(Rs. in lakhs)

Scheme	1979-83		1979-80		
	Plan Provision	Outlay earmarked for Scheduled Castes	Plan Provision	Outlay earmarked for Scheduled Castes	
1	2	3	4	5	
Soil Conservation Schemes					
SC(A)4-1	Soil and Water Conservation on Water Shed basis	400.00	40.00	130.00	13.00
SC(A)4-2	Pilot project on development of Kandi area with World Bank assistance	249.00	25.00	22.00	2.20
SC(A)4-3	Soil Conservation Works in Border areas	100.00	10.00	24.00	2.40
SC(A)4-6	Development of bet areas	40.00	4.00	2.00	0.20
	Total	789.00	79.00	178.00	17.80

HEAD : ANIMAL HUSBANDRY

Cattle Development					
AH5-10	Assistance to Small Marginal Farmers and Agricultural labourers for rearing of cross-breed heifers (State Share)	90.50	40.00	9.30	4.10
AH5-20	Training of farmers in artificial insemination technique	7.50	2.00	..	..
	Total	98.00	42.00	9.30	4.10
Poultry Development					
AH6-3	Strengthening of poultry extension services	10.00	2.50	..	..
AH6-4	Establishment of Poultry Estates in the selected localities for providing employment to educated unemployed	15.00	3.75	1.00	0.25
	Total	25.00	6.25	1.00	0.25
Other Live Stock Development					
AH9-5	Kandi Water Shed and Area Development Project	227.20	57.00	15.00	3.75
AH9-7	I. R. D. P.	282.50	70.50	85.00	21.25
	Total	509.70	127.50	100.00	25.00
	Grand Total	632.70	175.75	110.30	29.35

HEAD : DAIRYING AND MILKSUPPLY

Dairy Development					
DM2-5	Special Employment Programme-introduction of scientific and commercial milk production	102.10	25.50	30.00	7.50
	Total	102.10	25.50	30.00	7.50
Education and Training					
DM3-1	Training of technical personnel	4.27	1.00	0.80	0.20
	Total	4.27	1.00	0.80	0.20
Other Expenditure					
DM5-2	Supply of Subsidized Milk to Weaker section	20.00	10.00	5.00	2.50
DM5-3	Integrated Rural Development Programme	73.00	18.00	4.00	1.00
DM5-4	Subsidy for Milk Chilling-cum-Demonstration Centres in border/Sub-mountain, bet and backward areas	32.00	8.00	..	..
	Total	125.00	36.00	9.00	3.50
	Grand Total	231.37	62.50	39.80	11.20

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

HEAD : FISHERIES

(Rs. in lakhs)

	1979-83		1979-80		
	Pan Provision	Outlay earmarked for Scheduled Castes	Plan Provision	Outlay earmarked for Scheduled Castes	
1	2	3	4	5	
Others					
F.H. 4.2	Promotion of intensive fish culture by providing assistance to private/Co-operative sectors (I. R. D. P.)	56.33	14.00	3.00	0.75
Total		56.33	14.00	3.00	0.75

HEAD : COMMUNITY DEVELOPMENT AND PANCHAYATS

Community Development and Panchayats

C.D. 8	Composite programme for women and pre-school children and strengthening of craft centres	15.76	5.00	3.80	1.25
C.D. 9	Pavement of streets and Construction of drains	500.00	125.00	50.00	12.75
Total		515.76	130.00	53.80	14.00

HEAD : CO-OPERATION

Industrial Cooperatives

C.N. 10.3	Assistance to Handloom Co-operatives—interest concessions	4.00	3.00	0.50	0.35
C.N. 10.4	Assistance to Handloom Weavers Co-operative for rebate on cloth sale	5.00	3.00	1.00	0.60
C.N. 10.5	Development of handloom Industry—supply of improved appliances	4.00	3.00	0.50	0.40
Total		13.00	9.00	2.00	1.35

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES.

HEAD : INDUSTRY AND MINERALS

(Rs in lakhs)

Scheme	1979-83		1979-80		
	Plan Provision	Outlay earmarked for Scheduled Castes	Plan Provision	Outlay earmarked for Scheduled Castes	
Small Scale Industries					
IN 4.1	Credit facilities for the development of small scale industries ..	60.00	15.00	15.00	3.75
IN 4.2	Subsidy ..	4.00	1.00	1.00	0.25
IN 4.5	Outright subsidy ..	81.00	10.00	10.00	1.25
IN 4.14	Modernisation of small scale industries ..	37.70	3.00	7.50	0.75
IN 4.21	Shoe and Leather goods Training Centre, Longowal ..	1.60	1.60	0.40	0.40
IN 4.22	Interest subsidy ..	25.00	6.40	5.00	1.25
IN 4.25	Training for self-employment ..	12.00	3.00	1.00	0.25
IN 4.26	Promotion of self-employment through seed/capital/margin money assistance ..	80.00	20.00	5.00	1.25
IN 4.28	Supply of machinery on hire purchase basis ..	40.00	10.00	5.00	1.25
IN 4.29	Training for Guaranteed Employment ..	36.00	4.00	5.00	0.50
	Total ..	377.30	74.00	54.90	10.90
Industrial Estates					
IN 5.1(iii)	Interest free loan ..	770.00	50.00	150.00	10.00
IN 5.1(ix)	Land subsidy ..	120.00	10.00	30.00	2.50
IN 5.1 (x)	Investment loans ..	80.00	10.00	20.00	2.50
	Total ..	970.00	70.00	200.00	15.00
Handloom/Textile Industries					
IN 6.2	Interest free loans for margin money ..	8.00	2.00	2.00	0.50
IN 6.3	Training of weavers ..	2.00	1.00	0.50	0.25
	Total ..	10.00	3.00	2.50	0.75
Village Industries					
IN 7.1	Integrated Rural Development Programme ..	175.00	35.00	40.00	8.00
	Total ..	175.00	35.00	40.00	8.00
Handicrafts					
IN 8.1	Development of handi-craft industries ..	14.14	1.00	3.53	0.25
	Total ..	14.14	1.00	3.53	0.25
	Grand Total ..	1546.44	183.00	300.93	34.90

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

HEAD : 'GENERAL EDUCATION

(Rs in lakhs)

Scheme	1979-83		1979-80		
	Plan Provision	Outlay earmarked for Scheduled Castes	Plan Provision	Outlay earmarked for Scheduled Castes	
1	2	3	4	5	
Middle School Education (Classes VI to VIII)					
ED 2.2	Non-Formal Education	6.00	1.50	1.50	0.40
	Total	6.00	1.50	1.50	0.40
Secondary Education (High/Higher Secondary Schools)					
ED 3.3	Scholarships for poor but brilliant students	26.24	6.50	6.56	1.65
	Total	26.24	6.50	6.56	1.65
Adult Education					
ED 5.1	Literacy in rural areas (Non-Formal Education 15-35 age group)	53.02	13.25	9.87	2.45
	Total	53.02	13.25	9.87	2.45
Scholarships					
ED 14.1	Scholarships	65.00	16.25	15.00	3.75
	Total	65.00	16.25	15.00	3.75
	Grand Total	150.26	37.50	32.93	8.25

HEAD : TECHNICAL EDUCATION

Other Programme

T.E. 8.3	Book Bank for Poor Students—				
	(a) Engineering Colleges	2.00	0.50	0.25	0.06
	(b) Government Polytechnics	2.00	0.50	0.30	0.08
	(c) Private Polytechnics	2.00	0.50	0.25	0.06
	Total	6.00	1.50	0.80	0.20

HEAD : HOUSING

Other Housing Schemes

HG 2.2	Harijans houses	*350.00	300.00	70.00	65.00
HG 2.3	Loans for Low Income Group houses	280.00	100.00	60.00	21.00
HG 2.4	Loans for Government servants	704.00	176.00	150.00	37.54
HG 2.5	Loans for building houses in urban estates	238.32	59.60	60.00	15.00
	Total	1572.32	635.60	340.00	138.50

HEAD : LABOUR AND LABOUR WELFARE

Craftsmen Training

IT(C) 1.6	Apprenticeship Training Wing	2.00	0.50	0.50	0.13
	Total	2.00	0.50	0.50	0.13

*Rs. 50 lacs out of allocation under H.G. 2.2 may be spent for other economically weaker section of the society.

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

HEAD : WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES

Scheme	1979-83		1979-80		
	Plan Provision	Outlay earmarked for Scheduled Castes	Plan Provision	Outlay earmarked for Scheduled Castes	
1	2	3	4	5	
Education Programmes					
SC 1.1	Pre-matric coaching to students ..	136.40	136.40	24.00	24.00
SC 1.2	Grant for the purchase of stationery and books (6th to 8th Class students)	123.20	123.20	22.40	22.40
SC 1.3	Grant for the purchase of law, medical and engg. books ..	5.28	5.28	1.00	1.00
SC 1.4	Training in Stenography ..	10.56	10.56	3.00	3.00
	Total ..	275.44	275.44	50.40	50.40
Economic uplift					
SC 2.1	Subsidy for the purchase of —				
	(i) Agricultural land ..	70.40	70.40	15.00	15.00
	(ii) Houses/Wells on land ..	14.08	14.08	3.00	3.00
	(iii) Stamp duty ..	2.53	2.53	0.60	0.60
SC 2.2	Technical training in industrial trades ..	35.20	35.20	8.00	8.00
SC 2.5	Interest free loans/subsidy to Scheduled Castes going abroad for employment	22.00	22.00	2.00	2.00
	Total ..	144.21	144.21	28.60	28.60
Health, Housing and other Programmes					
SC 3.1	Legal Aid ..	1.76	1.76	1.00	1.00
SC 3.2	Construction of Dharamsaalas/ Chupals ..	256.96	256.96	44.00	44.00
SC 3.3	Environmental improvement of Harijan Basties including drinking water wells	647.68	647.68	76.00	76.00
SC 3.4	Construction of houses for sweepers, scavengers, flayers and tanners	352.00	352.00	30.00	30.00
	Total ..	1258.40	1258.40	151.00	151.00
Welfare of Vimukat Jaties					
SC 4.1	Construction of houses for Vimukat Jaties ..	88.00	88.00	15.00	15.00
	Total ..	88.00	88.00	15.00	15.00
	Grand Total ..	1766.05	1766.05	245.00	245.00

SPECIAL COMPONENT PLAN FOR SCHEDULED CASTES

HEAD : SOCIAL WELFARE

(Rs in lakhs)

Scheme	1979—83		1979-80	
	Plan Provision	Outlay earmarked for Scheduled Castes	Plan Provision	Outlay earmarked for Scheduled Castes
1	2	3	4	5
Family and Child Welfare				
SW 2.1 Assistance to dependent children	88.00	22.00	10.00	2.50
Total	88.00	22.00	10.00	2.50
Women Welfare				
SW 3.1 Assistance to widows and desitutes	132.00	33.00	12.66	3.25
Total	132.00	33.00	12.66	3.25
Welfare of Handicapped				
SW 4.1 Scholarships to the handicapped	0.88	0.22	0.10	0.03
SW 4.2 Supply of prosthetic aid to the handicapped	1.76	0.44	0.44	0.12
Total	2.64	0.66	0.54	0.15
Other Programmes				
SW 6.1 Grant-in-aid to voluntary organisations	6.16	1.54	1.50	0.40
Total	6.16	1.54	1.50	0.40
Grand Total	228.80	57.20	24.70	6.30

HEAD : NUTRITION

N.1 Programme for pre-school children	166.30	41.60	16.00	4.00
N.2 Programme for pregnant and lactating mothers	18.50	4.70		
Total	184.80	46.30	16.00	4.00

HEAD : PRINTING AND STATIONERY

PT 1.6 Apprenticeship scheme for type writer mechanic	0.48	0.10	0.12	0.03
Total	0.48	0.10	0.12	0.03

PART II
STATEMENTS

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ANNUAL PLAN—1979-80

STATEMENT I

HEADS OF DEVELOPMENT

Outlays and Expenditure

(Rs in lakhs)

Head of Development	Fifth Plan outlay as finalised in October, 1976	1974—78 Actuals	1977—78 Actuals	1978—83		1978-79				Proposed outlay (1979-80)			
				Five-Year Plan Outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital Content of total outlay
				Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14
I—Agriculture and Allied Sectors													
Agriculture	6169·67	4673·08	1508·75	11087·43	—	1956·86	—	1807·67	—	1800·00	—	—	824·28
Minor Irrigation	2550·90	1428·23	421·29	3094·80	—	534·00	—	480·60	—	520·00	—	—	510·00
Soil Conservation	907·48	603·89	237·03	2311·00	—	375·00	—	337·50	—	300·00	—	—	172·00
Food	33·00	30·71	13·46	19·36	—	—	—	*	—	5·00	—	—	—
Animal Husbandry	1003·63	493·34	183·83	1705·58	—	312·06	—	293·35	—	260·00	—	—	21·50
Dairying and Milk Supply	598·64	211·08	41·17	939·49	—	107·12	—	96·41	—	100·00	—	—	41·62
Fisheries	111·75	59·73	20·24	306·68	—	33·00	—	29·70	—	30·00	—	—	12·30
Forests	607·75	476·74	176·88	1519·00	—	155·00	—	155·50	—	175·00	—	—	20·00
Community Development and Panchayats	640·21	456·92	159·60	1027·76	—	190·00	—	171·00	—	150·00	—	—	140·00
Total: I	12623·03	8433·72	2762·25	22011·10	—	3663·04	—	3371·73	—	3340·00	—	—	1741·70
II—Co-operation	1585·41	879·13	299·46	2757·03	—	450·00	—	405·00	—	475·00	—	—	210·24
Total: II	1585·41	879·13	299·46	2757·03	—	450·00	—	405·00	—	475·00	—	—	210·24
III—Irrigation and Power													
Irrigation	6553·73	4956·57	1940·26	25306·28	—	2707·00	—	2436·30	—	3450·00	—	—	3450·00

*A provision of Rs 19·90 lakhs has been made during the course of the year : Rs 9·90 lakhs for construction of godowns and Rs 10·00 lakhs for open storage complexes.

Anti-Water Logging, Drainage and Flood Control	2230.00	1893.80	663.80	4910.00	—	950.00	—	1255.00	—	750.00	—	—	750.00
Power	39877.54	30354.09	7185.69	56723.04	—	9130.00	—	8217.00	—	9800.00	—	—	9800.00
Total : III	48661.27	37204.46	9789.75	86939.32	—	12787.00	—	11908.30	—	14000.00	—	—	14000.00
IV—Industry and Minerals													
Large and Medium Industries		2935.15	878.55	4652.96	—	844.00	—	802.10	—	960.50	—	—	943.50
Small Scale Industries	6615.78	803.10	236.19	1709.93	—	446.32	—	358.69	—	284.50	—	—	189.75
Mines and Minerals		17.87	7.42	14.00	—	5.00	—	5.00	—	5.00	—	—	4.24
Total : IV	6615.78	3756.12	1122.16	6376.89	—	1295.32	—	1165.79	—	1250.00	—	—	1137.49
V—Transport and Communications													
Civil Aviation	62.59	49.97	17.58	93.05	—	8.00	—	7.20	—	9.00	—	—	8.50
Roads and Bridges	4965.18	3963.15	1329.15	8600.00	3000.00	2000.00	1570.00	1850.00	1398.00	1500.00	545.00	—	1500.00
Road Transport	3486.51	2142.51**	514.08	4094.20	—	495.00	—	445.50	—	600.00	—	—	600.00
Tourism	227.91	170.65	58.68	285.84	—	50.00	—	45.00	—	45.00	—	—	23.00
Total : V	8742.19	6326.28	1919.49	13073.09	3000.00	2553.00	1570.00	2347.70	1398.00	2154.00	545.00	—	2131.50
VI—Social and Community Services													
General Education	4327.00	3055.72**	1156.32	5941.98	3001.92	1541.98	726.24	1417.78	726.24	595.00	203.79	—	101.93
Technical Education	125.25	71.91**	24.54	387.30	—	35.30	—	31.77	—	42.00	—	—	10.15
Public Health and Sanitation	1940.02	1129.08	426.26	5846.65	3021.85	702.30	322.50	644.57	289.47	680.00	278.46	—	419.65
Rural Water Supply	3066.00	1713.63	533.00	3970.00	3970.00	450.00	450.00	405.00	405.00	500.00	500.00	—	500.00
Housing	5041.82	2922.50	734.91	5762.32	450.00	800.00	100.00	760.00	100.00	1000.00	70.00	—	1000.00
Urban Development	5720.18	3975.53	1038.91	8377.60	5.80	1020.00	—	648.00	—	1200.00	2.00	—	1182.00
Information and Publicity	96.90	101.11	54.07	265.00	—	45.00	—	40.50	—	40.00	—	—	—
Labour & Labour Welfare	272.88	161.70	53.05	420.11	—	69.00	—	62.10	—	60.00	—	—	30.50
Welfare of Scheduled Castes and Backward Classes	1885.71	1284.60	254.18	2369.53	—	255.00	—	229.50	—	275.00	—	—	30.00
Social Welfare	241.49	211.84	96.36	495.78	—	71.00	—	63.90	—	80.00	—	—	52.80
Nutrition ||	57.49	28.72	12.00	204.80	204.80	20.00	20.00	18.00	18.00	16.00	16.00	—	—
Total : VI	22774.74	14656.34	4383.60	34041.07	10654.37	5009.58	1618.74	432.12	1538.71	4488.00	1070.25	—	3327.03

**This does not tally with the figures given in the Draft Sixth Plan on account of revision of actuals in the case of few sub-heads.

ANNUAL PLAN—1979-80
STATEMENT I
HEADS OF DEVELOPMENT
Outlay and Expenditure

(Rs in lakhs)

Head of Development	Fifth Plan outlay as finalised in October, 1976	1974—78		1977-78		1978—83		1978-79		Proposed Outlay (1979-80)			
		Actuals	Actuals	Five Year Plan outlay proposed		Approved Outlay		Anticipated expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
				Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14
VII—Economic Services													
Statistics	63.93	36.40	12.49	107.53	—	20.00	—	18.00	—	17.00	—	—	—
Planning Machinery	—	—	—	88.00	—	—	—	—	—	17.00	—	—	—
Total : VII	63.93	36.40	12.49	195.53	—	20.00	—	18.00	—	34.00	—	—	—
VIII—General Services													
Stationery & Printing	92.72	31.63	6.03	80.89	—	20.12	—	18.11	—	13.00	—	—	11.23
Film Corporation	133.50	76.50	3.00	30.80	—	—	—	—	—	—	—	—	—
Punjab State Civil Supplies Corporation	235.00	184.00	9.00	147.28	—	10.00	—	9.00	—	10.00	—	—	10.00
Public Works *	404.81	330.73	86.65	2071.56	—	125.00	—	112.50	—	282.00	—	—	282.00
Administrative Training Institute	—	1.00	1.00	63.96	—	5.00	—	4.50	—	11.00	—	—	—
Employment Promotion Programme	***1092.85	—	—	61.94	—	61.94	—	55.75	—	—	—	—	—
Total : VIII	1958.88	623.86	105.68	2456.43	—	222.06	—	199.86	—	316.00	—	—	303.23
Grand Total	103025.23	71916.31	**20394.88	167850.46	13654.37	26000.00	3188.74	23737.50	2936.71	26057.00	1615.25	—	22851.19

*Divisional Offices, Tehsil Buildings, Courts, patwar khans, Circurt Houses and Rest Houses.

***The figures of Employment promotion programme have been included in the respective sub-heads except where indicated.

ANNUAL PLAN—1979-80
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	Fifth Plan outlay as finalised in October, 1976	1974-78		1977-78		1978-83		1978-79				Proposed Outlay 1979-80		
			Actuals	Actuals	Five year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	of which MNP	Foreign exchange content of total outlay	Capital content of total outlay	
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
PUNJAB AGRICULTURAL UNIVERSITY															
1. Research:															
A(P) 1.1	Chemical, physical and biological studies on water-logged soils		7.11	2.10	2.41	—	2.41	—	2.41	—	2.60	—	—	—	
A(P) 1.2	Facilities for research on soil water plant relationship		6.40	1.88	2.16	—	2.16	—	2.16	—	2.38	—	—	—	
A(P) 1.3	Studies on the nutrition of oilseeds and pulses		3.63	1.12	1.30	—	1.30	—	1.30	—	1.43	—	—	—	
A(P) 1.4	Cotton research		5.17	1.35	1.54	—	1.54	—	1.54	—	1.54	—	—	—	
A(P) 1.5	Quality improvement in oilseeds crops		5.72	1.71	1.96	—	1.96	—	1.96	—	2.15	—	—	—	
A(P) 1.6	Facilities for quality breeding in cereals and pulses		6.51	1.28	1.48	—	1.48	—	1.48	—	1.63	—	—	—	
A(P) 1.7	Facilities for off season growing of breeding material of various crops in Lahaul Valley and Southern India		8.51	1.75	1.83	—	1.83	—	1.83	—	2.01	—	—	—	
A(P) 1.8	Improvement of forages and establishment of forage unit		19.34	6.23	6.58	—	6.58	—	6.58	—	7.83	—	—	—	
A(P) 1.9	Strengthening of entomological research in oil seeds		1.13	0.45	0.59	—	0.59	—	0.59	—	0.65	—	—	—	
A(P) 1.10	Scheme for strengthening the insect toxicology and pesticides residues		5.14	1.08	1.35	—	1.35	—	1.35	—	1.48	—	—	—	
A(P) 1.11	Pests of minor crops-Ishablog, mentha, celery chicory, ajwain, saunf etc.		0.55	0.19	0.20	—	0.20	—	0.20	—	0.22	—	—	—	
A(P) 1.12	Research and development studies on the malting of indigenous cereals		3.23	0.96	0.97	—	0.97	—	0.97	—	1.15	—	—	—	

ANNUAL PLAN—1979-80
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in Oct, 1976	1974-78	1977-78	1978—83		1978-79		Proposed outlay 1979-80					
			Actuals	Actuals	Five Year Plan outlay proposed		Approved Outlay	Anticipated Expenditure	Total	Of which	Foreign exchange	Capital content of total outlay		
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP	MNP	content of total outlay		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A(P) 1.13	Studies on the milling per bolling and associated physio-chemical aspects of rice		1.41	0.45	0.58	—	0.58	—	0.58	—	0.60	—	—	—
A(P) 1.14	Studies on the development of fruit juices and beverages		1.70	0.53	0.63	—	0.63	—	0.63	—	0.69	—	—	—
A(P) 1.15	Studies on the quality of hen eggs on poultry farms, marketing channel in Punjab and production, processing and preservation of poultry and poultry products		2.75	0.78	0.63	—	0.63	—	0.63	—	0.69	—	—	—
A(P) 1.16	Studies on milling, baking and related compositional and rheological properties of the Punjab and extra provincial wheats as influenced by variety, ecology, fertilizers, and harvest conditions with a view to improving commercial and consumer utilisation		5.03	1.50	1.82	—	1.82	—	1.82	—	1.96	—	—	—
A(P) 1.17	Establishment of section of Ecology		6.32	1.78	2.10	—	2.10	—	2.10	—	2.31	—	—	—
A(P) 1.18	Development of research facilities in Nematology at PAU, Ludhiana		4.12	1.26	1.43	—	1.43	—	1.43	—	1.57	—	—	—
A(P) 1.19	Intensification of research on breeding of vegetable varieties and studies on the cultural and nutritional requirements for processing		6.38	2.00	2.35	—	2.35	—	2.35	—	2.58	—	—	—
A(P) 1.20	Analysis of income and expenditure patterns of Punjab farmers		4.71	1.70	1.98	—	1.98	—	1.98	—	2.17	—	—	—
A(P) 1.21	Higher education, research and training in foods and nutrition in Agricultural Universities and Colleges in India		0.45	—	—	—	—	—	—	—	—	—	—	—
A(P) 1.22	Research on tubewell design criteria and development of improved tubewell components		2.06	0.60	0.71	—	0.71	—	0.71	—	0.78	—	—	—
A(P) 1.23	Engineering studies for utilisation of agricultural by-products		1.78	0.50	0.63	—	0.63	—	0.63	—	0.69	—	—	—

A(P) 1.24	Low temperature storage of perishable products	2.28	0.63	0.80	—	0.80	—	0.80	—	0.88	—	—	—
A(P) 1.25	Strengthening of farm machinery, development and research	7.45	1.61	1.35	—	1.35	—	1.35	—	1.48	—	—	—
A(P) 1.26	Strengthening of Testing Centre	6.34	1.65	1.40	—	1.40	—	1.40	—	1.50	—	—	—
A(P) 1.27	Design and development of structures equipment and for animal production system	6.66	1.52	1.22	—	1.22	—	1.22	—	1.34	—	—	—
A(P) 1.28	Utilization of solar energy for creation of optimum environment for animal and plant production system	5.79	1.75	0.99	—	0.99	—	0.99	—	1.10	—	—	—
A(P) 1.29	Reproductive physiology of birds and mammals	6.80	1.62	1.95	—	1.95	—	1.95	—	2.15	—	—	—
A(P) 1.30	Harmonal regulation in crops and fruit-trees	7.17	2.11	2.35	—	2.35	—	2.35	—	2.57	—	—	—
A(P) 1.31	Setting up of laboratory for germplasm and fungicides evaluation against plant pathogens under artificial opyphytotics	8.56	2.34	2.69	—	2.69	—	2.69	—	2.95	—	—	—
A(P) 1.32	Utilization of agricultural wastes microbiological conversion into food and feed protein	5.26	1.42	1.70	—	1.70	—	1.70	—	1.87	—	—	—
A(P) 1.33	Strengthening of agronomic research on weed control	0.70	—	—	—	—	—	—	—	—	—	—	—
A(P) 1.34	Biochemical evaluation of pulses and their products	3.19	0.86	0.97	—	0.97	—	0.97	—	1.06	—	—	—
A(P) 1.35	Chemistry of some natural products and their significance on agriculture	2.39	0.72	0.75	—	0.75	—	0.75	—	0.82	—	—	—
A(P) 1.36	Studies on potentials of new hetrocyclic compounds as systematic fungicides	1.96	0.55	0.55	—	0.55	—	0.55	—	0.60	—	—	—
A(P) 1.37	Strengthening of Physics Department-research solid State biophysics (Mossbaur effect)	6.55	1.04	1.17	—	1.17	—	1.17	—	1.28	—	—	—
A(P) 1.38	Micronutrients research establishment of plant analysis laboratory in the Department of Soils	3.39	1.13	1.27	—	1.27	—	1.27	—	1.40	—	—	—
A(P) 1.39	Strengthening of soil testing facilities	3.45	1.03	1.21	—	1.21	—	1.21	—	1.33	—	—	—
A(P) 1.40	Supervised integrated control of cotton pests	3.61	0.99	1.17	—	1.17	—	1.17	—	1.29	—	—	—
A(P) 1.41	Scheme for research on production and storage of vegetable seeds	3.52	1.21	1.40	—	1.40	—	1.40	—	1.54	—	—	—
A(P) 1.42	Scheme on investigation of root nodulation bacterial of leguminus crops	1.72	0.50	0.54	—	0.54	—	0.54	—	0.59	—	—	—
A(P) 1.43	Studies on the agronomy of new crops in Punjab	2.72	1.00	1.12	—	1.12	—	1.12	—	1.23	—	—	—
A(P) 1.44	Construction of office-cum-laboratory building and grape training system at Fruit Research Station, Bhatinda	8.00	—	—	—	—	—	—	—	—	—	—	—

ANNUAL PLAN—1979-80

STATEMENT II : Schemes

HEAD : AGRICULTURE

(Rs. in lakhs)

Head of Development	Minor head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78 Actuals	1977-78 Actuals	1978—83		1978-79				Proposed outlay 1979-80			
					Five Year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A(P) 1.45	25 per cent State share on account of I.C.A.R. co-ordinated projects		39.22	13.72	75.00	—	15.00	—	15.00	—	11.25	—	—	—
A(P) 1.46	Instrumentation Cell		0.80	0.80	0.80	—	0.80	—	0.80	—	0.85	—	—	—
A(P) 1.47	Fisheries research scheme		—	—	6.00	—	1.00	—	1.00	—	1.00	—	—	—
A(P) 1.48	Strengthening of irrigation facilities at P.A.U. Farm, Ludhiana		—	—	11.60	—	1.60	—	1.60	—	1.60	—	—	—
A(P) 1.49	Investigation on the system of farming and irrigation management		—	—	2.00	—	2.00	—	2.00	—	—	—	—	—
A(P) 1.50	Development of Rice Research Substation, Rauni, Patiala		—	—	7.90	—	1.40	—	1.40	—	1.30	—	—	—
A(P) 1.51	Development of Cotton Sub-station Goniana, district Faridkot		—	—	7.70	—	1.20	—	1.20	—	1.00	—	—	—
A(P) 1.52	Breeding of superfine quality (Basmati) rice varieties for Punjab		—	—	4.70	—	0.70	—	0.70	—	0.70	—	—	—
A(P) 1.53	Breeding for resistance to Karnal Bunt disease in wheat		—	—	7.00	—	—	—	—	—	1.50	—	—	—
A(P) 1.54	Development of improved varieties of pulses resistant to drought and diseases for dry tracts of south western districts of Punjab		—	—	4.00	—	—	—	—	—	—	—	—	—
A(P) 1.55	Development of improved varieties of durum wheat		—	—	3.00	—	—	—	—	—	—	—	—	—
A(P) 1.56	Strengthening of research facilities in soil microbiology		—	—	6.00	—	—	—	—	—	1.00	—	—	—
A(P) 1.57	Development of facilities for research and training in soil survey, genesis and classification		—	—	6.50	—	—	—	—	—	1.06	—	—	—

	of alkali soils and use of brackish irrigation water	—	—	4.50	—	—	—	—	—	—	—	—
A(P) 1.59	Surveillance of insect pests and plant diseases	—	—	4.00	—	—	—	—	—	1.00	—	—
A(P) 1.60	Development of integrated control programme against fruit flies	—	—	3.50	—	—	—	—	—	—	—	—
A(P) 1.61	Research on aerial spraying of crops for insect control	—	—	3.50	—	—	—	—	—	—	—	—
A(P) 1.62	Surveillance of insect pests and plant diseases Plant Pathology	—	—	5.00	—	—	—	—	—	1.00	—	—
A(P) 1.63	Epidemiology and control of Karnal Bunt of Wheat	—	—	3.00	—	—	—	—	—	—	—	—
A(P) 1.64	Maintenance of races of fungal obligate parasites for their use in germplasm screening	—	—	2.00	—	—	—	—	—	—	—	—
A(P) 1.65	Experimental Fruit Research Stations Gurdaspur, Gangan and Bahadurgarh	—	—	10.00	—	—	—	—	—	1.50	—	—
A(P) 1.66	Tissue analysis scheme for determination of nitrogen status of fruit-trees in Punjab	—	—	5.00	—	—	—	—	—	—	—	—
A(P) 1.67	Research on post-harvest handling fruits-packing house operation	—	—	2.00	—	—	—	—	—	—	—	—
A(P) 1.68	Scheme for production of foundation seed of fodders	—	—	7.50	—	—	—	—	—	—	—	—
A(P) 1.69	Forage conservation and feeding value of silage and hay in milch cattle	—	—	2.50	—	—	—	—	—	—	—	—
A(P) 1.70	Establishment of Regional Research Sub-station in Fodder	—	—	8.00	—	—	—	—	—	—	—	—
A(P) 1.71	Studies in tillage agronomy	—	—	3.50	—	—	—	—	—	0.70	—	—
A(P) 1.72	Agronomic research in Agro-Ecological zone	—	—	5.00	—	—	—	—	—	—	—	—
A(P) 1.73	Intensification of weed control	—	—	3.50	—	—	—	—	—	—	—	—
A(P) 1.74	Crop association studies under multiple cropping	—	—	4.00	—	—	—	—	—	0.50	—	—
A(P) 1.75	Studies in economics of production, management, marketing and processing of livestock and their products	—	—	6.00	—	—	—	—	—	—	—	—
A(P) 1.76	Sociological analysis of impact of rural development programme	—	—	3.00	—	—	—	—	—	—	—	—
A(P) 1.77	Study of demand for medium and long term credit needs of the Punjab farmers	—	—	4.00	—	—	—	—	—	0.60	—	—
A(P) 1.78	Diffusional studies and synthesis of pesticides/insecticides	—	—	2.50	—	—	—	—	—	—	—	—

ANNUAL PLAN 1979-80
STATEMENT II : SCHEMES
HEAD AGRICULTURE

(Rs in lakhs)

Head of Development	Minor Head of Development/Name of the scheme	Fifth Plan 1974-78		1977-78 Actuals	1978-83		1978-79				Proposed outlay 1979-80			
		outlay as finalised, Actuals in Oct 1976			Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital Content of total outlay
				Total	Of which MNP	Total	Of which MNP	Total	Of which MNP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A(P) 1.79	Screening and application of terpenoids as plant growth regulators	—	—	—	2.50	—	—	—	—	—	—	—	—	—
A(P) 1.80	Study of factors affecting the nature of ligno-cellulose complex in fodders and its influence on the utilisation of fodder by farm animals	—	—	—	5.00	—	—	—	—	—	—	—	—	—
A(P) 1.81	Study of memberances of oilseeds in relation to their role in determinating the quality and quantity of oil	—	—	—	4.00	—	—	—	—	—	—	—	—	—
A(P) 1.82	Research and development of mushroom cultivation	—	—	—	8.00	—	—	—	—	—	—	—	—	—
A(P) 1.83	Study of biology and control of bird pests	—	—	—	3.00	—	—	—	—	—	—	—	—	—
A(P) 1.84	Study of effect of farm drugs on farm growth and metabolism in plants	—	—	—	2.50	—	—	—	—	—	—	—	—	—
A(P) 1.85	Research Programme in Botany Department (physiology of seed viability, storability and quality changes as influenced by heavy rains and low/high temperature during crop maturation, harvesting, threshing and storage of wheat gram, massar and raya)	—	—	—	2.50	—	—	—	—	—	—	—	—	—
A(P) 1.86	Establishment of Regional Research and Multiplication Centre Usmah, district Amritsar	—	—	—	6.00	—	—	—	—	—	—	—	—	—
A(P) 1.87	Establishment of Regional Research and seed Multiplication Centre, Rampura Phool	—	—	—	6.00	—	—	—	—	—	0.70	—	—	—

A(P) 1.88	Establishment of vegetable Research Station, Jullundur	—	—	3.00	—	—	—	—	—	0.40	—	—	—
A(P) 1.89	Scheme for research in postharvest handling of vegetables	—	—	2.00	—	—	—	—	—	—	—	—	—
A(P) 1.90	Study of effect of selected motivational techniques on the adoption rate of farm technology by farmers	—	—	3.00	—	—	—	—	—	0.50	—	—	—
A(P) 1.91	Research project for increasing effectiveness of extension workers	—	—	5.00	—	—	—	—	—	—	—	—	—
A(P) 1.92	Establishment of research unit in the Department of Home Management	—	—	5.00	—	—	—	—	—	—	—	—	—
A(P) 1.93	Establishment of research unit in the Department of Home Science Education and Extension	—	—	3.00	—	—	—	—	—	—	—	—	—
A(P) 1.94	Establishment of research unit in the Department of Food and Nutrition	—	—	5.00	—	—	—	—	—	—	—	—	—
A(P) 1.95	Establishment of research unit in the Department of Child Development	—	—	4.00	—	—	—	—	—	—	—	—	—
A(P) 1.96	Strengthening of research facilities in measurement, control and instrumentation	—	—	5.00	—	—	—	—	—	0.40	—	—	—
A(P) 1.97	Utilisation of agricultural wastes as a renewable feedstock for the chemical process industry	—	—	4.00	—	—	—	—	—	—	—	—	—
A(P) 1.98	Solar energy at Punjab Agricultural University, Ludhiana	—	—	2.00	—	—	—	—	—	—	—	—	—
A(P) 1.99	Edible oil engineering research	—	—	4.00	—	—	—	—	—	} 1.00	—	—	—
A(P) 1.100	Food Engineering research	—	—	5.00	—	—	—	—	—		—	—	—
A(P) 1.101	Drying, dehydration & Preservation of food materials	—	—	5.00	—	—	—	—	—		—	—	—
A(P) 1.102	Establishment of Farm Machinery Research and Development Centre	—	—	6.50	—	—	—	—	—	—	—	—	—
A(P) 1.103	Additional facilities for Farm Machinery Testing Centre	—	—	5.50	—	—	—	—	—	—	—	—	—
A(P) 1.104	Development of farm machinery management data	—	—	4.00	—	—	—	—	—	—	—	—	—
A(P) 1.105	Establishment of Regional Centre in Soil and Water Management for south west Punjab	—	—	10.00	—	—	—	—	—	—	—	—	—
A(P) 1.106	Evolving design criteria for efficient & economic execution of land and water management works	—	—	5.00	—	—	—	—	—	—	—	—	—

ANNUAL PLAN—1979-80

STATEMENT II : SCHEMES

HEAD : AGRICULTURE

(Rs. in Lakhs')

Head of development	Minor Head of Development/Name of the scheme	Fifth Plan outlay as finalised in October 1976	1974-78		1977-78		1978-83		1978-79		Proposed outlay (1979-80)				
			Actuals	Actuals	Five Year Plan outlay Proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital Content of total outlay	
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP					
															Total	Of which MNP	Total	Of which MNP
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
A(P) 1.107	Field irrigation system design evaluation and improvement		—	—	3.00	—	—	—	—	—	—	—	—	—	—
A(P) 1.108	Utilisation of farm and industrial wastes with Particular emphasis on gobar and fly ash		—	—	4.00	—	—	—	—	—	—	—	—	—	—
A(P) 1.109	Engineering properties of land resources and construction technology of rural housing		—	—	2.00	—	—	—	—	—	—	1.00	—	—	—
A(P) 1.110	Computer Centre		—	—	10.00	—	—	—	—	—	—	2.00	—	—	—
A(P) 1.111	Genetic evaluation of grain and fodder quality of pennistems		—	—	3.25	—	—	—	—	—	—	—	—	—	—
A(P) 1.112	Biochemical genetics of heterosis and related phenomenon for the development of economic traits		—	—	3.25	—	—	—	—	—	—	0.50	—	—	—
A(P) 1.113	Establishment of trisomic stocks and linkage groups in pennisetum typhoids		—	—	3.25	—	—	—	—	—	—	—	—	—	—
A(P) 1.114	Development of male sterility sources with disease resistance back-ground in pearl millet		—	—	2.25	—	—	—	—	—	—	0.40	—	—	—
A(P) 1.115	Scheme for developing suitable sampling and estimation procedures for determining total fodder production		—	—	3.00	—	—	—	—	—	—	—	—	—	—
A(P) 1.116	Application of solid state physics to agriculture (soils, plant and blood metabolism of animals)		—	—	2.00	—	—	—	—	—	—	—	—	—	—
A((I)1.117	Establishment of Institute of Post Harvest Technology		—	—	8.00	—	—	—	—	—	—	1.00	—	—	—
A((P)1.118	Construction of field store		—	—	17.00	—	—	—	—	—	—	3.00	—	—	—
A(P)1.119	Strengthening of Regional Research Stations		—	—	16.38	—	—	—	—	—	—	—	—	—	—

A(P)1-120 Setting up research cell in the Department of Business Management

6.00

Total Research

246.68

69.40

502.91

83.53

83.53

103.55

2. Agricultural Education Extension, and Farmers Training

A(P)2-1 Introduction of course of Business Management in Agriuculture

4.94

1.44

1.71

1.71

1.71

1.70

A(P) 2-2 Farm Women's training programme-one year Certificate Course in Home Science and Selected Agriculture Practices

4.93

1.48

1.75

1.75

1.75

1.95

A(P) 2-3 Expension and Improvement of library services

12.75

3.75

4.10

4.10

4.10

4.00

A(P) 2-4 Universty adminstratration scheme

5.40

2.15

2.50

2.50

2.50

2.60

A(P) 2-5 Students welfare activities

9.35

2.85

3.50

3.50

3.50

3.50

15.00

A(P) 2-6 Residences and Campus development

25.00

6.00

58.55

8.55

8.55

15.00

A(P) 2-7 College of Agriculture

28.35

8.50

9.52

9.52

9.52

10.47

A(P) 2-8 College of Basic Science and Humanities

17.18

6.08

62.00

7.00

7.00

7.88

A(P) 2-9 College of Agricultural Engineering under graduate, post-graduate programme

22.05

6.30

6.73

6.73

6.73

5.40

A(P) 2-10 College of Home Science

6.05

2.00

20.36

2.36

2.36

2.57

A(P) 2-11 University Press

—

—

2.00

—

—

0.50

6.00

A(P) 2-12 College of Home Science at Faridkot (Kaoni)..

—

—

52.00

5.00

5.00

8.00

2.80

A(P) 2-13 Diversification of education in College of Agriculture

—

—

46.08

—

—

5.00

A(P) 2-14 Facilities for training of middle level technicians in agriculture

—

—

11.59

—

—

1.10

A(P) 2-15 Diploma course in crop protection

—

—

3.45

—

—

A(P) 2-16 Centre of advanced studies in agricuotural engineering

—

—

26.00

—

—

—

A(P) 2-17 Practical training in agricultural engineering

—

—

20.00

—

—

3.04

A(P) 2-18 Institute of Diploma Course in Home Science-upgrading of one year certificate course in Home Science and selected agricultural practices

—

—

12.00

—

—

A(P) 2-19 Earn while you learn scheme

—

—

4.00

—

—

A(P) 2-20 Introduction of integrated work experinece in Home Management residence laboratories / representing various socio-economic groups in rural settings

—

—

1.00

—

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ANNUAL PLAN 1979-80

STATEMENT-II : SCHEMES

HEAD : AGRICULTURE

(Rs. in lakhs)

Head of Development	Minor Head of Development (Name of the Scheme)	Fifth Plan 1974-78		1977-78	1978-83		1978-79		Proposed outlay 1979-80					
		outlay as finalised in October, 1976		Actuals	Five year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange Content of total outlay	Capital Content of total outlay
		Actuals	Actuals	Total	Of which MNP	Total	Of which MNP	Total	Of which MNP	12	13	14	15	
A(P) 2-21	Hostel, sports cultural activities and other student amenities	—	—	20.00	—	—	—	—	—	4.00	—	—	2.30	
A(P) 2-22	Intorduction of library teaching and strengthening of library services at research stations and library extension services	—	—	15.00	—	—	—	—	—	3.50	—	—	—	
A(P) 2-23	Strengthening of University Administration ..	—	—	15.50	—	—	—	—	—	4.50	—	—	—	
A(P) 2-24	Farm advisory service scheme at district level Fardlkot district	—	—	8.10	—	1.60	—	1.60	—	1.50	—	—	—	
A(P) 2-25	Facilities for extension/education in crop varieties	0.57	0.32	0.37	—	0.37	—	0.37	—	0.40	—	—	—	
A(P) 2-26	Provision of one extension specialist in home management and three extension specialists in child care food and nutrition and clothing and textiles ..	1.73	0.78	0.88	—	0.88	—	0.88	—	0.95	—	—	—	
A(P) 2-27	Communication Centre ..	13.65	3.95	7.90	—	2.40	—	2.40	—	2.64	—	—	—	
A(P) 2-28	Establishment of a centre for in-service training of extension personnel	—	—	10.00	—	—	—	—	—	1.50	—	—	—	
A(P) 2-29	Establishment of training Unit in agricultural engineering	—	—	10.00	—	—	—	—	—	2.00	—	—	1.18	
A(P) 2-30	Establishment of Extension Centres at Regional Research Stations	—	—	15.00	—	—	—	—	—	—	—	—	—	
A(P) 2-31	Strengthening of farm advisory services (Plant Pathology, vegetable)	—	—	10.00	—	—	—	—	—	—	—	—	—	
A(P) 2-32	Establishment of Plant disease clinic at PAU	—	—	1.00	—	—	—	—	—	0.75	—	—	—	
A(P) 2-33	Establishment of Integrated Home-Science Extension Training Centre	—	—	8.00	—	—	—	—	—	2.00	—	—	—	

A(P)2-34	Strengthening of farm management extension wing in the Department of Economics and Sociology	—	—	2.00	—	—	—	—	—	—	—	—
A(P)2-35	Establishment of extension service in agri-business management	—	—	2.00	—	—	—	—	—	—	—	—
Total : Education & Extension		151.95	45.60	474.59	—	57.97	—	57.97	—	96.45	—	27.28
Grand Total : PAU		398.63	115.00	977.50	—	141.50	—	141.50	—	200.00	—	27.28

AGRICULTURE DEPARTMENT

3. Extension and Farmers Training

A(P)3-1	Higher training of selected village level workers	}											
A(P)3-2	Deputation of village level workers		5.27	0.82	6.95	—	1.45	—	1.45	—	1.70	—	—
A(P)3-3	Agricultural Information Service		9.21	2.28	4.25	—	3.25	—	3.25	—	—	—	—
A(P)3-4	Foreign-in-service training												
A(P)3-5	Training of farmers												
A(P)3-6	Grant-in-aid to young Farmers Association												
A(P)3-7	Higher training and condensed course of in-service ASIs/CIs/GIs												
A(P)3-8	Setting up of compost training centre in the State			150.00	—	—	—	—	—	20.00	—	—	
Total		25.42	6.47	186.90	—	8.90	—	9.60	—	27.20	—	—	

4. Direction and Administration

A(P)4.1	Staff for implementing the Plan schemes of Agriculture department	33.32	13.79	18.00	—	17.00	—	14.00	—	—	—	—
A(P)4.2	Re-organisation of agricultural extension/administration	—	—	60.00	—	20.00	—	5.00	—	30.00	—	—
A(P)4.3	Strengthening of planning machinery at head-quarter level	—	—	2.50	—	—	—	—	—	0.80	—	—
Total		33.32	13.79	80.50	—	37.00	—	19.00	—	30.80	—	—

ANNUAL PLAN—1979-80

STATEMENT II : SCHEMES

HEAD:—AGRICULTURE

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	Fifth Plan Outlay as finalised in October, 1976	1974—78		1977-78		1978—83		1978-79		Proposed outlay 1979-80			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5. Land Reclamation														
A(P) 5.1	Reclamation of alkaline/saline lands including culturable waste land		19.43	9.64	60.00	—	10.03	—	14.00	—	12.40	—	—	—
A(P) 5.2	Soil conditioner & distribution of gypsum on subsidised basis		34.93	10.50	1561.00	—	215.00	—	200.00	—	215.00	—	—	—
A(P) 5.3	Amendment of alkali soils (sharing basis)		39.15	36.00										
A(P) 5.4	Setting up of Land Reclamation Cell		—	—										
	Total		93.51	56.14	1757.00	—	236.45	—	225.42	—	261.40	—	—	—
6. Multiplication and Distribution of Seeds														
A(P) 6.1	Seed Certification Authority		5.56	0.30	1.50	—	1.50	—	2.08	—	—	—	—	—
A(P) 6.2	Seed production and distribution		29.81	8.35	127.00	—	22.00	—	12.00	—	20.00	—	—	—
A(P) 6.3	Contribution to Land Development and Reclamation Corporation		64.41	56.00	60.00	—	25.00	—	40.00	—	15.00	—	—	15.00
A(P) 6.4	World Bank Seed Project/establishment of Punjab State Seed Corporation		41.18	10.00	31.00	—	—	—	—	—	10.00	—	—	10.00
A(P) 6.5	Expansion of seed testing laboratory (State's share)		—	—	4.10	—	1.04	—	0.20	—	1.00	—	—	—
	Total		140.96	74.65	223.60	—	49.54	—	54.28	—	46.00	—	—	25.00

7. Manures and Fertilizers

A(P) 7-1	Establishment of Soil Testing Laboratories including Mobile Testing Laboratory ..	14.20	7.11	113.25	—	13.25	—	11.89	—	12.00	—	—	—
A(P) 7-2	Fertilizer, demonstration and training on cultivators fields	3.24	0.84	6.00	—	1.00	—	1.00	—	1.40	—	—	—
A(P) 7-3	Subsidy for the off-time storage of fertilizer for timely availability	1,243.27	502.80	300.00	—	200.00	—	200.00	—	50.00	—	—	—
Total		1,260.71	510.75	419.25	—	214.25	—	212.89	—	63.40	—	—	—

8. High Yielding Varieties Programme

A(P) 8-1	IADP (Ferozepur, Sangrur, Gurdaspur, Faridkot and Amritsar)	18.23	5.84	6.70	—	6.70	—	6.80	—	—	—	—	—
A(P) 8-2	Integrated Rural Development Programme ..	—	—	439.00	—	110.00	—	70.00	—	50.00	—	—	—
Total		18.23	5.84	445.70	—	116.70	—	76.80	—	50.00	—	—	—

9. Plant Protection

A(P) 9-1	Ground spraying of crops	208.38	85.00	625.05	—	74.96	—	73.60	—	80.00	—	—	—
A(P) 9-2	Loans for aerial spraying of crops ..	505.66	118.23	1245.00	—	225.00	—	220.00	—	250.00	—	—	250.00
A(P) 9-3	Intensification of Plant Protection works ..	20.29	4.65	46.20	—	6.20	—	7.70	—	10.00	—	—	—
A(P) 9-4	Control of white grubs diseases on bajra and Jowar in endemic areas	—	—	1.35	—	1.35	—	—	—	—	—	—	—
A(P) 9-5	Fertilizers quality control laboratories ..	—	—	3.00	—	1.00	—	1.00	—	1.00	—	—	1.00
A(P) 9-6	Control of weeds and loose smut ..	17.22	17.22	200.00	—	50.00	—	45.00	—	30.00	—	—	—
A(P) 9-7	Development of quality control of agricultural inputs insecticides testing laboratories	0.82	0.82	23.90	—	6.00	—	6.00	—	6.00	—	—	1.00
A(P) 9-8	Plant Protection work at block level ..	—	—	150.00	—	—	—	—	—	50.00	—	—	—
A(P) 9-9	Construction of helipads for aerial spray of cotton	—	—	100.00	—	—	—	—	—	20.00	—	—	20.00
Total		752.37	225.92	2,394.50	—	364.51	—	353.30	—	447.00	—	—	272.00

10. Commercial Crops

A(P) 10-1	Development of Sugarcane around sugar factory areas	23.70	6.01	65.30	—	15.30	—	13.25	—	4.50	—	—	—
A(P) 10-2	Scheme for maximising groundnut production	24.22	6.16	37.60	—	7.60	—	6.25	—	—	—	—	—

ANNUAL PLAN—1979-80
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	Fifth Plan 1974—78 outlay as finalised in October, 1976	1977-78		1978—83		1978-79		Proposed outlay 1979-80					
			Actuals	Actuals	Five year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	OF which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A(P) 10·3	Scheme for working out index on cost of cultivation of sugarcane		0·02	—	—	—	—	—	—	—	—	—	—	—
A(P) 10·4	Integrated Cotton Development Programme ..		19·52	10·30	13·10	—	8·10	—	5·68	—	6·80	—	—	—
A(P) 10·5	Intensification of Cotton ..		—	—	6·50	—	5·50	—	4·03	—	—	—	—	—
A(P) 10·6	Development of sugarcane in Zira and Gurdaspur area for the public sector sugar mills		—	—	34·00	—	9·00	—	5·32	—	3·70	—	—	—
A(P) 10·7	Implementation of Cotton Ginning and Processing Factory Act		—	—	1·50	—	0·50	—	0·13	—	—	—	—	—
	Total		67·46	22·47	158·00	—	46·00	—	34·66	—	15·00	—	—	—
11. Small Farmers and Agricultural Labourers														
A(P) 11·1	Scheme for Small Farmers and Agricultural labourers		234·00	63·00	374·00	—	110·00	—	213·00	—	65·00	—	—	—
	Total		234·00	63·00	374·00	—	110·00	—	213·00	—	65·00	—	—	—
12. Agricultural Engineering														
A(P) 12·1	Establishment of testing, maintenance and standard certification of agricultural machinery		—	—	40·00	—	—	—	—	—	18·00	—	—	—
A(P) 12·2	Agro-Industries Corporation ..		32·00	1·00	22·00	—	10·00	—	10·00	—	4·00	—	—	4·00
A(P) 12·3	Strengthening of Engineering Section ..		2·15	1·29	12·60	—	11·60	—	11·60	—	—	—	—	—
	Total		34·15	2·29	74·60	—	21·60	—	21·60	—	22·00	—	—	4·00

3. Agriculture Economics and Statistics

A(P) 13-1	Coordination scheme of sample survey for methodological investigation into H.Y.V.P.	0.67	0.30	1.30	—	0.30	—	0.27	—	—	—	—
A(P) 13-2	Agriculture Census (State's share)	0.18	0.18	—	—	—	—	—	—	—	—	—
A(P) 13-3	Field staff of statistical wing of Agriculture Department	—	—	5.00	—	—	—	—	—	1.20	—	—
Total		0.85	0.48	6.30	—	0.30	—	0.27	—	1.20	—	—

14. Warehousing

A(P) 14-1	Construction and Operation of warehouses	40.84	11.00	125.00	—	30.00	—	30.00	—	25.00	—	—	25.00
A(P) 14-2	Small size storage facilities at farm level	0.42	0.42	8.00	—	2.00	—	—	—	—	—	—	—
Total		41.26	11.42	133.00	—	32.00	—	30.00	—	25.00	—	—	25.00

15. Agricultural Marketing and Quality Control

A(P) 15-1	Strengthening of Marketing section	4.45	1.32	2.62	—	1.62	—	1.53	—	—	—	—	—
A(P) 15-2	Grading of foodgrains and oil-seeds in regulated markets	8.61	2.79	3.78	—	2.78	—	2.78	—	3.00	—	—	—
A(P) 15-3	Development of Mandis	894.56	233.90	715.00	—	275.00	—	200.00	—	110.00	—	—	103.00
Total		907.62	238.01	721.40	—	279.40	—	204.31	—	113.00	—	—	103.00

16. Horticulture

A(P) 16.1	Establishment of grape-nursery-cum-demonstration centres and strengthening of grape vine cultivation	4.87	2.23	3.40	—	2.32	—	2.30	—	—	—	—	—
A(P) 16.2	Creation of separate horticulture wing and Marketing of fruits	—	—	9.00	—	8.00	—	1.00	—	6.00	—	—	—
A(P) 16.3	Development of Horticulture	26.77	6.85	313.52	—	13.38	—	13.57	—	54.85	—	—	30.00
A(P) 16.4	Development of Horticulture in Shivalik hills	1.20	1.20	19.15	—	4.15	—	4.15	—	4.15	—	—	—
A(P) 16.5	Intensification of nursery production in the existing Government gardens and nurseries	2.98	2.98	—	—	—	—	—	—	—	—	—	—
A(P) 16.6	Package programme on citrus including high density planting	—	—	0.30	—	0.05	—	0.05	—	0.10	—	—	—
A(P) 16.7	Demonstration-cum-fruit preservation unit	—	—	10.00	—	—	—	—	—	4.00	—	—	2.50
A(P) 16.8	Project for the development of Horticulture around Pathankot areas of Gurdaspur District	—	—	—	—	—	—	0.52	—	5.00	—	—	2.25
A(P) 16.9	Kandi area watershed development project (World Bank)	—	—	—	—	—	—	—	—	15.90	—	—	7.25
Total		35.82	13.26	355.37	—	27.90	—	21.59	—	90.00	—	—	42.00

ANNUAL PLAN— 1979-80
STATEMENT II : SCHEMES
HEAD : AGRICULTURE

(Rs. in lakhs)

Head of Development	Minor head of Development/ Name of the Scheme	Fifth Plan Outlay as finalised in October, 1976	1974-78	1977-78	1978-83		1978-79		Proposed Outlay 1979-80					
			Actuals	Actuals	Five-Year Plan Outlay Proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
17. Agricultural Credit														
A(P) 17.1	Support to Ordinary and Special debenture of LMB		272.52	77.07	875.50	—	175.50	—	165.50	—	146.00	—	—	146.00
A(P) 17.2	Purchase of debenture of SCLMB for the purchase of tractors and agricultural implements		260.80	34.75	200.00	—	—	—	—	—	50.00	—	—	50.00
A(P) 17.3	ARC scheme for the reclamation of alkaline/saline soils		7.95	2.95	1210.00	—	10.00	—	5.00	—	50.00	—	—	50.00
A(P) 17.4	Grant of loans for grape cultivation and construction of bowers under ARC scheme debenture support for horticulture		—	—	37.00	—	5.00	—	—	—	6.00	—	—	6.00
A(P) 17.5	Gobar Gas Plant—Debenture Support	..	—	—	31.00	—	5.00	—	—	—	6.00	—	—	6.00
A(P) 17.6	Dairy Development	..	—	—	45.00	—	5.00	—	—	—	10.00	—	—	10.00
A(P) 17.7	Poultry, piggery, sheep-breeding, cattle feed processing unit, etc.		—	—	102.00	—	—	—	—	—	13.00	—	—	13.00
	Total	..	541.27	114.77	2500.50	—	200.50	—	170.50	—	281.00	—	—	281.00
18. Vegetables														
A(P) 18.1	Production and Multiplication of Seed Potato		47.07	14.46	120.00	—	20.00	—	17.75	—	35.00	—	—	20.00
A(P) 18.2	Crop Competition	..	0.31	0.03	—	—	—	—	—	—	—	—	—	—

A(P) 18.3	Pre-harvest forecasting of crops-yields	..	0.12	—	—	—	—	—	—	—	—	—
A(P) 18.4	Intensification of vegetable production	..	—	—	2.45	—	1.45	—	1.20	—	—	—
A(P) 18.5	Development of Vegetables in rural areas	..	—	—	8.00	—	—	—	—	—	2.00	—
Total		..	47.50	14.49	130.45	—	21.45	—	18.95	—	37.00	20.00
19 Employment Promotion Programme												
A(P) 19.1	Setting up of 300—Agro Service Centres Payment of interest subsidy to the entrepreneurs	}	40.00	20.00	148.86	—	48.86	—	—	—	25.00	25.00
A(P) 19.2	Seed Margin money assistance to entrepreneurs for setting up of agro-service centres (for persons under centrally sponsored schemes)		—	—	—	—	—	—	—	—	—	—
Total		..	40.00	20.00	148.86	—	48.86	—	—	—	25.00	25.00
Total Agriculture Department		..	4274.45	1393.75	10109.93	—	1815.36	—	1666.17	—	1600.00	797.00
Grand Total		..	6169.67	4673.08	1508.75	11087.43	—	1956.86	—	1807.67	1800.00	824.28

MINOR IRRIGATION

1 Agriculture Department—(a)—Investigation and Development of Ground Water Resources												
MI(A) 1.1	Strengthening of Boring Section Ground-water Survey and Investigation		6.81	2.32	17.60	—	3.50	—	3.50	—	—	—
MI(A) 1.2	Setting-up of Ground Water Cell		5.89	1.62	9.20	—	2.20	—	2.80	—	—	—
MI(A) 1.3	Ground Water Cell (Strengthening of Ground water and surface water organisation)		—	—	43.00	—	13.00	—	6.00	—	9.20	—
Total			12.70	3.94	69.80	—	18.70	—	12.30	—	9.20	—
(b) Construction and deepening of wells and Tanks												
MI (A) 1.4	Grant of subsidy for sinking repair of wells		0.35	0.05	1.00	—	0.50	—	0.44	—	0.30	—
MI (A) 1.5	Grant of subsidy for sinking/repair of tubewells/— pumping sets		2.08	0.30	2.00	—	0.80	—	0.67	—	0.50	—
Total			2.43	0.35	3.00	—	1.30	—	1.11	—	0.80	—
Total Minor Irrigation — Agriculture Department			15.13	4.29	72.80	—	20.00	—	13.41	—	10.00	—

ANNUAL PLAN—1979-80
STATEMENT II—SCHEMES
HEAD : IRRIGATION

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	1974-78		1977-78	1978-83	1978-79				Proposed Outlay 1979-80				
		Fifth plan outlay as fina- lised in Oct. 1976	Actuals	Actuals	Five year plan outlay proposed	Approved outlay		Anticipatory Expendiur		Total of which MNP	Foreign exchange content of total outlay	Capital content of total outlay		
			Total	of which MNP		Total	of which MNP	Total	of which MNP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2. IRRIGATION DEPARTMENT														
MI(I) 2.1	Integrated utilisation of water Resources		83.77	12.55	117.00	—	25.00	—	22.50	—	20.00	—	—	20.00
MI(I) 2.2	Sinking of tubewells in different Blocks		173.94	25.44	36.00	—	13.00	—	11.70	—	8.00	—	—	8.00
MI(I) 2.3	Conversion of exploratory bores into production tubewells for Irrigation		—	—	31.00	—	10.00	—	9.00	—	7.00	—	—	7.00
MI(I) 2.4	Lift and flow irrigation schemes		33.68	24.83	83.00	—	15.00	—	13.50	—	14.00	—	—	14.00
MI (I) 2.5	Construction of ghats on canals		36.21	5.18	10.00	—	2.00	—	1.80	—	2.00	—	—	2.00
MI(I) 2.6	Sprinkler Irrigation schemes		—	—	53.00	—	5.00	—	4.50	—	5.00	—	—	5.00
MI (I) 2.7	Underground system for Government Tubewells		—	—	48.00	—	—	—	—	—	4.00	—	—	4.00
	Total Minor Irrigation- irrigation Department		327.60	67.00	378.00	—	70.00	—	63.00	—	60.00	—	—	60.00
3. PUNJAB STATE TUBEWELL CORPORATION														
MI(I)3.1	Punjab State Tubewell Corporation		1085.50	350.00	2644.00	—	444.00	—	404.19	—	450.00	—	—	450.00
	Grand Total Minor Irrigation		2550.90	1428.23	421.29	3094.80	—	534.00	—	480.60	—	520.00	—	510.00

SOIL CONSERVATION

1. Soil Conservation and Engineering Department

Direction and Administration

SC(A)1.1	Strengthening of Soil Conservation Organisation	14.72	4.25	7.00	—	7.00	—	5.00	—	—	—	—
	Total	14.72	4.25	7.00	—	7.00	—	5.00	—	—	—	—
2. Soil survey and Testing												
SC(A)2.1	Detailed soil survey for command and problem areas	11.68	3.33	23.00	—	6.00	—	5.00	—	4.00	—	—
SC(A)2.2	Strengthening of State Soil Survey Organisation	0.03	0.03	23.00	—	4.00	—	4.00	—	4.00	—	—
	Total	11.71	3.36	46.00	—	10.00	—	9.00	—	8.00	—	—
3. Education and Training												
SC(A)3.1	Training, research and demonstration	3.33	1.52	33.00	—	3.00	—	3.00	—	4.00	—	—
SC(A)3.2	Conservation irrigation techniques	—	—	42.00	—	—	—	—	—	6.00	—	—
SC(A)3.3	Applied research on soil conservation practices and methods	—	—	20.00	—	—	—	—	—	4.00	—	—
	Total	3.33	1.52	95.00	—	3.00	—	3.00	—	14.00	—	—
4. Soil Conservation Schemes												
SC(A)4.1	Soil and Water conservation on watershed basis	241.03	65.80	500.00	—	100.00	—	100.00	—	130.00	—	100.00
SC(A)4.2	Pilot Project on development of kandi areas with World Bank assistance	—	—	249.00	—	—	—	—	—	22.00	—	16.00
SC(A)4.3	Soil conservation works in border areas	63.07	20.46	124.00	—	24.00	—	24.00	—	24.00	—	22.00
SC(A)4.4	Land development work in command areas	178.00	108.05	735.00	—	90.00	—	90.00	—	45.00	—	20.00
SC(A)4.5	Soil conservation works in central districts on IRD pattern	51.64	21.89	416.00	—	126.00	—	93.00	—	42.00	—	—
SC(A)4.6	Development of bet area	—	—	40.00	—	—	—	—	—	2.00	—	2.00
SC(A)4.7	Scheme for ravine reclamation	—	—	40.00	—	—	—	—	—	3.00	—	3.00
SC(A)4.8	Setting up of Soil Conservation Corporation	—	—	4.00	—	—	—	—	—	1.00	—	—
	Total	533.74	216.23	2108.00	—	340.00	—	307.00	—	269.00	—	163.00
	Total : Soil Conservation and Engineering Department	563.50	225.33	2256.00	—	360.00	—	324.00	—	291.00	—	163.00

ANNUAL PLAN 1979-80
STATEMENT 11 : SCHEMES
HEAD : SOIL CONSERVATION

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	5th Plan outlay as finalised in October 1976	1974-78	1977-78	1978-83		1978-79				Proposed outlay 1979-80			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved Outlay		Anticipatory Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
II. Forest Department—Soil Conservation Scheme														
SC(F) 1	Soil and water conservation on watershed basis		22.50	7.20	50.00	—	10.00	—	9.00	—	9.00	—	—	9.00
	Total		22.50	7.20	50.00	—	10.00	—	9.00	—	9.00	—	—	9.00
III. Irrigation Department—Soil Conservation Scheme														
SC(I) 1	Reclamation of rakkar and thur areas		17.89	4.50	5.00	—	5.00	—	4.50	—	—	—	—	—
	Total		17.89	4.50	5.00	—	5.00	—	4.50	—	—	—	—	—
	Grand Total		907.48	603.89	237.03	2311.00	—	375.00	—	337.50	—	300.00	—	172.00
FOOD														
FD-1	Acquisition of land for open storage complexes		30.10	13.46	13.36	—	—	—	10.00*	—	2.00	—	—	—
FD-2	Construction of storage godowns		0.61	—	6.00	—	—	—	9.90*	—	3.00	—	—	—
	Total		33.00	30.71	19.36	—	—	—	19.90*	—	5.00	—	—	—

*A provision of Rs 19.90 lakhs has been made during the course of the year : Rs 9.90 lakhs for construction of godowns and Rs 10.00 lakhs for open storage complexes

ANIMAL HUSBANDRY

1 Direction and Administration

AH 1.1	Directorate of Animal Husbandry—creation of Planning-Cell	0.46	0.23	3.60	—	0.60	—	0.50	—	0.50	—	—	—
AH 1.2	Directorate of Animal Husbandry—creation of information and Publicity Cell	—	—	5.50	—	0.50	—	0.10	—	0.70	—	—	—
AH 1.3	Intensive Cattle Development Projects—Strengthening of offices of District Animal Husbandry Officers and Project Officers	—	—	5.00	—	—	—	—	—	1.40	—	—	—
AH 1.4	Directorate of Animal Husbandry—Project for Institutional Finance	—	—	2.00	—	—	—	—	—	0.40	—	—	—
AH 1.5	Establishment of Animal Husbandry and Dairy Development Board	—	—	10.00	—	—	—	—	—	—	—	—	—
Total		0.46	0.23	26.10	—	1.10	—	0.60	—	3.00	—	—	—

2. Veterinary Services and Animal Health

AH 2.1	State Livestock Sanitary Laboratory	2.82	0.72	—	—	—	—	—	—	—	—	—	—
AH 2.2	Opening of new Veterinary Dispensaries	69.33	23.52	23.40	—	23.40	—	38.71	—	—	—	—	—
AH 2.3	Strengthening and upgrading of existing Veterinary Dispensaries	39.75	12.30	13.10	—	13.10	—	13.80	—	—	—	—	—
AH 2.4	Establishment of Mobile Veterinary Units	26.09	6.99	9.00	—	9.00	—	0.20	—	—	—	—	—
AH 2.5	Punjab Veterinary Vaccine Institute, Ludhiana	9.44	3.32	14.00	—	4.00	—	3.50	—	1.50	—	—	—
AH 2.6	Prophylactic vaccination against Foot and Mouth Disease	10.98	2.65	1.00	—	1.00	—	1.00	—	—	—	—	—
AH 2.7	Expansion of State Livestock Sanitary Lab.	1.19	0.41	0.40	—	0.40	—	0.40	—	—	—	—	—
AH 2.8	Expansion of State Veterinary Medical Store	2.74	1.14	8.00	—	3.00	—	2.40	—	1.00	—	—	0.50
AH 2.9	Modernization of slaughter houses	4.00	—	—	—	—	—	—	—	—	—	—	—
AH 2.10	All India Coordination Research Project for Epidemiological Studies on Foot and Mouth	0.29	0.08	0.10	—	0.10	—	0.10	—	—	—	—	—
AH 2.11	Foot and Mouth Disease Control Programme—vaccination of cattle and buffaloes in selected areas	1.48	0.85	17.50	—	2.50	—	5.00	—	2.00	—	—	—
AH 2.12	Setting up of 3 Polyclinics	—	—	20.00	—	—	—	—	—	—	—	—	—
AH 2.13	Setting up of a State Veterinary Council (State's share)	—	—	0.50	—	—	—	—	—	0.15	—	—	—
AH 2.14	Setting up of Punjab Meat Processing and Marketing Corporation	—	—	10.00	—	—	—	—	—	—	—	—	—
Total		168.11	51.98	147.00	—	56.50	—	65.11	—	4.65	—	—	0.50

ANNUAL PLAN—1979-80

STATEMENT 11 : SCHEMES

HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78 Actuals	1977-78 Actuals	1978-83		1978-79		Proposed outlay (1979-80)					
					Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3. Veterinary Education and Research														
A H 3.1	Grant-in-aid to Punjab Agricultural University, Ludhiana		115.23	38.64	240.00	—	40.00	—	43.00	—	50.00	—	—	—
Total			115.23	38.64	240.00	—	40.00	—	43.00	—	50.00	—	—	—
4. Investigation and Statistics														
AH 4.1	Integrated survey in livestock (State's share)		1.92	0.68	5.30	—	0.80	—	0.80	—	1.05	—	—	—
AH 4.2	Creation of Statistical Units at the existing Cattle Breeding Farms		0.45	0.12	0.25	—	0.25	—	0.20	—	—	—	—	—
AH 4.3	Pilot studies for estimation of death and birth rates in bovines		0.04	—	—	—	—	—	—	—	—	—	—	—
AH 4.4	Estimation of structure and indices of cost of production of livestock production (State's share)		—	—	2.25	—	—	—	—	—	—	—	—	—
AH 4.5	Estimation of production, assessment of livestock and development programme of cultivated fodder (State's share)		—	—	2.25	—	—	—	—	—	0.70	—	—	—
Total			2.41	0.80	10.05	—	1.05	—	1.00	—	1.75	—	—	—
5. Cattle Development														
AH 5.1	Jersey Cattle Breeding Farm, Ropar		3.98	1.57	0.50	—	0.50	—	0.50	—	—	—	—	—
AH 5.2	Holstein Friesian Cattle Breeding Farm, Mattewara		10.91	1.86	—	—	—	—	—	—	—	—	—	—

AH 5.3	ICDP scheme for Semen Banks, Ropar Kapurthala and Fodder Bank, Mattewara	4.46	1.01	0.25	—	0.25	—	0.25	—	—	—	—
AH 5.4	Indo-swiss Project, Patiala	3.40	—	—	—	—	—	—	—	—	—	—
AH 5.5	Indo-Swiss Project (2nd Phase), Patiala	83.05	35.21	36.00	—	36.00	—	51.80	—	10.00	—	0.50
AH 5.6	Establishment of Semen Bank, Ropar/Kapurthala	7.97	1.94	26.60	—	17.00	—	6.00	—	—	—	0.50
AH 5.7	Intensive cross-breeding of indigenous cattle with imported frozen semen-Frozen Semen Station, Amritsar	6.52	0.64	1.00	—	1.00	—	1.00	—	—	—	—
AH 5.8	Training of farmers in rearing, feeding, breeding and management of exotic/cross-bred cattle	5.29	1.54	6.50	—	1.50	—	1.50	—	1.25	—	—
AH 5.9	Establishment of Intensive Cattle Development Projects	3.78	2.57	3.00	—	3.00	—	3.00	—	—	—	—
AH 5.10	Assistance to Small/Marginal Farmers and Agricultural Labourers for rearing of cross-bred heifers (State's share)	12.33	4.03	101.00	—	10.50	—	10.42	—	9.30	—	—
AH 5.11	Rounding up of wild and stray cattle	0.25	0.25	0.75	—	0.75	—	0.75	—	—	—	—
AH 5.12	Setting up of a Sahiwal Cattle breeding Farm for production of cross-bred bulls	—	—	19.62	—	3.12	—	—	—	—	—	—
AH 5.13	Government Holstein Friesian Cattle Breeding Farm, Mattewara (expansion)	4.42	4.42	8.50	—	3.50	—	3.04	—	1.00	—	0.50
AH 5.14	Frozen Semen Station, Amritsar (expansion)	—	—	23.10	—	15.50	—	2.80	—	—	—	0.50
AH 5.15	Setting up of Bull Station-cum-Semen Banks and L. N. Plants	—	—	30.00	—	—	—	—	—	3.00	—	3.00
AH 5.16	Opening of 200 Livestock Welfare Centres	—	—	100.00	—	—	—	—	—	—	—	—
AH 5.17	Setting up of Small Cattle Breeding Units of 10 cows	—	—	18.50	—	—	—	—	—	1.00	—	—
AH 5.18	Financial support for the development of Gaushalas in the State	—	—	5.00	—	—	—	—	—	—	—	—
AH 5.19	Kule Majra Co-operative Farm	—	—	44.50	—	—	—	—	—	10.00	—	10.00
AH 5.20	Training of farmers in artificial insemination technique	—	—	7.50	—	—	—	—	—	—	—	—
Total		146.36	55.04	432.32	—	92.62	—	81.06	—	35.55	—	15.00

**ANNUAL PLAN—1979-80
STATEMENT II SCHEMES
HEAD : ANIMAL HUSBANDRY**

(Rs. in lakhs)

Head of development	Minor head of development/name of the Scheme	Fifth Plan outlay as finalised in October, 1976	1974—78	1977-78	1978—83		1978-79				Proposed outlay (1979-80)			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6. Poultry Development														
AH 6.1	Intensive Egg and Poultry Production-cum-Marketing Centre, Kot-Kapura		2.21	—	—	—	—	—	—	—	—	—	—	—
AH 6.2	Additional production of day old pullets at State poultry farms		3.15	1.49	11.50	—	1.50	—	1.50	—	—	—	—	—
AH 6.3	Strengthening of poultry extension services		—	—	10.00	—	—	—	—	—	—	—	—	—
AH 6.4	Establishment of Poultry Estates in selected localities for providing employment to educated unemployed		—	—	15.00	—	—	—	—	—	1.00	—	—	—
AH 6.5	Grant-in-aid to Punjab Poultry Corporation (for the marketing of eggs, egg tray project expansion of feed compounding activities, storage of eggs and risk insurance charges)		—	—	35.00	—	—	—	—	—	10.00	—	—	—
AH 6.6	Purchase of special development debentures for poultry programme		—	—	25.00	—	—	—	—	—	10.00	—	—	—
	Total		5.36	1.49	96.50	—	1.50	—	1.50	—	21.00	—	—	—
7. Sheep and Wool Development														
AH 7.1	Sheep Breeding Farm, Dhar		1.07	—	—	—	—	—	—	—	—	—	—	—
AH 7.2	Expansion and strengthening of Wool Grading-cum-Marketing Centre, Ludhiana,		2.17	1.09	0.30	—	0.30	—	0.25	—	—	—	—	—
AH 7.3	Sheep Breeding Farm, Dhar (expansion)		3.94	0.91	0.70	—	0.70	—	0.50	—	—	—	—	—
AH 7.4	Strengthening of Intensive Sheep and Wool Development Centres		6.24	1.66	0.70	—	0.70	—	1.75	—	—	—	—	—

AH 7.5	Setting up of a Sheep and Wool Development Corporation	—	—	15.90	—	0.90	—	10.90	—	10.00	—	—
AH 7.6	Supply of exotic cross-bred rams to the bonafide sheep breeders	—	—	3.00	—	—	—	—	—	0.50	—	—
AH 7.7	Supply of shearing and spraying equipment at the Sheep & Wool Extension Centres	—	—	14.00	—	—	—	—	—	2.00	—	—
Total		13.42	3.66	34.60	—	2.60	—	3.40	—	12.50	—	—

8. Piggery Development

AH 8.1	Expansion of Pig Breeding Farms/Units	3.21	0.50	11.10	—	1.10	—	2.85	—	2.00	—	0.50
AH 8.2	Establishment of new Pig Breeding Farm	5.99	3.84	12.10	—	5.30	—	5.15	—	3.00	—	2.00
AH 8.3	Strengthening and expansion of pig marketing facilities	—	—	1.00	—	—	—	—	—	—	—	—
AH 8.4	Aid to Punjab Poultry Corporation for transport of pigs (State's share)	—	—	0.50	—	—	—	—	—	—	—	—
Total		9.20	4.34	24.70	—	6.40	—	8.00	—	5.00	—	2.50

9. Other Livestock Development

AH 9.1	Evaluation of performance of buffalo bulls in field conditions	—	—	12.50	—	—	—	—	—	2.00	—	—
AH 9.2	Rearing of buffalo calves	0.51	—	6.00	—	—	—	—	—	2.00	—	—
AH 9.3	Integrated buffalo breeding and sire evaluation programme	—	—	2.80	—	2.80	—	—	—	—	—	—
AH 9.4	Conservation of high yielding buffaloes-maintenance of herd books of Murrah and Nili buffaloes	—	—	20.00	—	—	—	—	—	3.00	—	—
AH 9.5	Kandi Water Shed and Area Development Project	—	—	227.20	—	—	—	—	—	15.00	—	1.00
AH 9.6	Setting up of Polytechnics of Animal Husbandry and Agricultural Training	—	—	10.00	—	—	—	—	—	2.00	—	2.00
AH 9.7	Integrated rural development programme	15.20	15.20	371.93	—	89.43	—	80.00	—	85.00	—	—
AH 9.8	Training for self-employment-training in poultry, piggery and dairying	0.65	0.65	0.76	—	0.76	—	0.76	—	—	—	—
AH 9.9	Training to Matriculates as Pashu Rakshaks, margin money and assistance to trained persons for the purchase of veterinary kits	7.12	6.66	4.30	—	4.30	—	3.00	—	—	—	—
Total		23.48	22.51	655.49	—	97.29	—	83.76	—	109.00	—	3.00

ANNUAL PLAN—1979-80
STATEMENT II : SCHEMES
HEAD : ANIMAL HUSBANDRY

(Rs. in lakhs)

Head of Development	Minor Head of Development, name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78		1977-78		1978-83		1978-79		Proposed Outlay (1979-80)			
			Actuals	Actuals	Five year plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	of which MNP	Foreign exchange content of total outlay	Capital Content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10. Feed and Fodder Development														
AH 10.1	Establishment of Forage planting Material Production Farm, Mattewara		8.36	4.37	2.00	—	2.00	—	2.00	—	—	—	—	—
AH 10.2	Intensification of existing Forage Planting Material Production Farm		0.28	0.28	11.24	—	1.50	—	1.36	—	2.55	—	—	0.50
AH 10.3	Fodder seed production through registered growers		0.67	0.49	1.50	—	1.50	—	2.06	—	—	—	—	—
AH 10.4	Creation of Cell for Feed and Fodder at State level		—	—	2.00	—	1.00	—	0.50	—	1.00	—	—	—
AH 10.5	Production and distribution of fodder seeds		—	—	5.00	—	5.00	—	—	—	—	—	—	—
AH 10.6	Development of feed and fodder resources		—	—	2.00	—	2.00	—	—	—	—	—	—	—
AH 10.7	Production and popularisation of newly evolved fodder varieties		—	—	45.08	—	—	—	—	—	14.00	—	—	—
	Total		9.31	5.14	68.82	—	13.00	—	5.92	—	17.55	—	—	0.50
	Grand Total		1003.63	493.34	183.83	1705.58	—	312.06	—	293.35	—	260.00	—	21.50

DAIRYING AND MILK SUPPLY												
1. Direction and Administration												
DM 1.1	Strengthening of headquarters staff	2·81	1·04	6·25	—	1·25	—	1·25	—	1·50	—	—
Total		2·81	1·04	6·25	—	1·25	—	1·25	—	1·50	—	—
2. Dairy Development												
DM 2.1	Cattle Feed Factories	—	—	395·00	—	15·00	—	15·00	—	5·00	—	5·00
DM 2.2	Dairy Extension units for intensification of milk production	18·46	5·73	66·34	—	11·34	—	11·34	—	21·00	—	5·00
DM 2.3	Punjab Dairy Development Corporation	67·45	14·50	22·00	—	2·00	—	2·00	—	5·00	—	5·00
DM 2.4	Operation Flood Phase II	—	—	15·00	—	—	—	—	—	—	—	—
DM 2.5	Special employment programme-introduction of scientific and commercial milk production	1·32	0·89	131·22	—	29·12	—	18·41	—	30·00	—	4·20
Total		87·23	21·12	629·56	—	57·46	—	46·75	—	61·00	—	19·20
3. Education and Training												
DM 3.1	Training of technical personnel	0·81	0·15	5·00	—	0·73	—	0·73	—	0·80	—	—
Total		0·81	0·15	5·00	—	0·73	—	0·73	—	0·80	—	—
4. Milk Supply Scheme												
DM 4.1	Establishment of rural distribution centres	7·53	1·10	20·00	—	—	—	—	—	—	—	—
D.M. 4.2	Establishment of Composite Milk Plant, Gurdaspur	5·61	—	—	—	—	—	—	—	—	—	—
D.M. 4.3	Establishment of Composite Milk Plant, Mohali	30·00	—	—	—	—	—	—	—	—	—	—
D.M. 4.4	Establishment of Milk Chilling-cum-Demonstration Centres in border, sub-montane, bet and other backward areas	34·54	7·18	127·40	—	37·40	—	37·40	—	22·42	—	22·42
D.M. 4.5	Milk Plant, Ludhiana—completion	2·38	—	—	—	—	—	—	—	—	—	—
D.M. 4.6	Milk Plant, Bhatinda—completion	5·01	1·26	—	—	—	—	—	—	—	—	—
Total		85·07	9·54	147·40	—	37·40	—	37·40	—	22·42	—	22·42

ANNUAL PLAN— 1979-80

STATEMENT II: SCHEMES

HEAD : FISHERIES

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78	1977-78	1978-83		1978-79				Proposed outlay (1979-80)			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5. Other Expenditure														
M. 5.1	Assistance to Dairy Cooperatives		20.16	4.32	21.28	—	5.28	—	5.28	—	5.28	—	—	—
D.M. 5.2	Supply of subsidized milk to weaker section		15.00	5.00	25.00	—	5.00	—	5.00	—	5.00	—	—	—
D.M. 5.3	Integrated rural development programme		—	—	73.00	—	—	—	—	—	4.00	—	—	—
D.M. 5.4	Subsidy for Milk Chilling-cum-Demonstration Centres in border, sub-montane, bet and backward areas		—	—	32.00	—	—	—	—	—	—	—	—	—
	Total		35.16	9.32	151.28	—	10.28	—	10.28	—	14.28	—	—	—
	Grand Total		598.64	211.08	939.49	—	107.12	—	96.41	—	100.00	—	—	41.62
FISHERIES														
1. Direction and Administration														
FH--1.1	Strengthening of staff at headquarters and in sub-offices		—	—	14.00	—	—	—	—	—	2.00	—	—	—
	Total		—	—	14.00	—	—	—	—	—	2.00	—	—	—
2. Fish Farms														
FH 2.1	Completion of Fish Seed Nurseries/Farms and construction of Fish Seed Farms in the remaining districts		43.82	11.69	92.14	—	6.14	—	6.14	—	8.00	—	—	7.00
FH 2.2	Fish seed collection from bundhs and natural sources		—	—	10.00	—	—	—	—	—	1.00	—	—	—
FH 2.3	Establishment of Aquarium-cum-Museum		0.90	0.23	26.00	—	1.00	—	1.00	—	1.00	—	—	0.60
FH 2.4	Fish culture in Shah Nahar Reservoir		1.86	1.01	13.00	—	5.00	—	5.00	—	1.00	—	—	0.70
	Total		46.58	12.93	141.14	—	12.14	—	12.14	—	11.00	—	—	8.30

3. Research, Education and Training

FH 3.1	Establishment of Hydrobiological Research Station, Cage Culture and Mobile Fisheries Field Laboratory	1.62	0.36	9.76	—	0.26	—	0.26	—	1.00	—	—	0.50
FH 3.2	Fisheries information, extension and training —	4.37	3.00	14.00	—	3.40	—	3.40	—	1.00	—	—	—
FH 3.3	Creation of conservation division for riverine fisheries and head works	3.31	1.90	1.20	—	1.20	—	1.20	—	—	—	—	—
Total		9.30	5.26	24.96	—	4.86	—	4.86	—	2.00	—	—	0.50

4. Others

FH— 4.1	Development of fisheries in Kandi Area, Water Shed and Area Development Project (World Bank Assisted)	—	—	31.50	—	—	—	—	—	4.00	—	—	3.00
FH 4.2	Promotion of intensive fish culture by providing assistance to private/cooperative sectors (IRDP)	0.71	0.71	61.33	—	5.00	—	3.00	—	3.00	—	—	—
FH 4.3	Exploitation and marketing of fish from stocked ponds	—	—	7.75	—	—	—	—	—	1.00	—	—	—
FH 4.4	Creation of Economic and Statistical Wing in the Fisheries Department	—	—	10.00	—	1.00	—	0.20	—	1.00	—	—	—
FH— 4.5	Survey of fisheries potential in the State	—	—	7.00	—	1.00	—	0.50	—	1.00	—	—	0.50
FH 4.6	Opening of fish snack counters	3.14	1.34	—	—	—	—	—	—	—	—	—	—
FH 4.7	Punjab Fisheries Development Corporation	—	—	7.00	—	7.00	—	7.00	—	5.00	—	—	—
FH— 4.8	Demonstration of fish culture	—	—	2.00	—	2.00	—	2.00	—	—	—	—	—
Total		3.85	2.05	126.58	—	16.00	—	12.70	—	15.00	—	—	3.50
Grand Total		111.75	59.73	20.24	306.68	—	33.00	—	29.70	—	30.00	—	12.30

FORESTS

1. Forest Research

FT 1.1	Forest Research	3.10	0.75	6.00	—	1.10	—	1.10	—	1.15	—	—	—
Total		3.10	0.75	6.00	—	1.10	—	1.10	—	1.15	—	—	—

2. Education and Training

FT 2.1	Training of staff	1.95	0.85	5.00	—	0.90	—	0.85	—	0.95	—	—	—
Total		1.95	0.85	5.00	—	0.90	—	0.85	—	0.95	—	—	—

ANNAUL PLAN—1979-80

STATEMENT II : SCHEMES

HEAD : FORESTS

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78 Actuals	1977-78 Actuals	1978-83		1978-79		Proposed outlay (1979-80)					
					Five Year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capit. l content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3. Forest Conservation and Development														
FT 3.1	Development of grass land and pastures		0.17	—	5.00	—	—	—	—	—	1.00	—	—	—
FT 3.2	Development of forests on private lands		3.77	2.00	21.00	—	1.00	—	1.00	—	4.00	—	—	—
FT 3.3	Planting along link roads on private lands		—	—	16.00	—	—	—	—	—	3.00	—	—	—
	Total		3.94	2.00	42.00	—	1.00	—	1.00	—	8.00	—	—	—
4. Plantation Schemes														
FT 4.1	Plantation of Sissoo, Babul, Eucalyptus, Chil, Poplar etc.		218.26	59.95	285.00	—	65.00	—	72.29	—	46.00	—	—	—
FT 4.2	Pilot project of mixed plantations on waste lands/Panchayat lands		3.00	2.00	33.00	—	3.00	—	3.00	—	5.00	—	—	—
FT 4.3	Development of Social Forestry-Reforestation of degraded forests		12.68	8.38	48.70	—	8.70	—	8.70	—	8.00	—	—	—
	Total		233.94	70.33	366.70	—	76.70	—	83.99	—	59.00	—	—	—
5. Farm Forestry														
FT 5.1	Farm Forestry		74.21	30.95	172.00	—	22.00	—	21.36	—	22.00	—	—	—
	Total		74.21	30.95	172.00	—	22.00	—	21.36	—	22.00	—	—	—
6. Communication and Buildings														
FT 6.1	Construction of buildings		4.32	2.00	25.00	—	5.00	—	5.00	—	5.00	—	—	5.00
	Total		4.32	2.00	25.00	—	5.00	—	5.00	—	5.00	—	—	5.00
7. Preservation of Wild Life														
FT 7.1	Preservation of Wild Life		8.14	3.00	38.00	—	6.00	—	3.02	—	6.00	—	—	—
FT 7.2	Establishment of Zoological Park		147.14	67.00	212.00	—	40.00	—	37.45	—	40.00	—	—	15.00
	Total		155.28	70.00	250.00	—	46.00	—	40.47	—	46.00	—	—	15.00

8. Other Expenditure												
FT 8.1	Share capital contribution to Forest Corporation	—	—	76.00	—	1.00	—	1.00	—	4.00	—	—
FT 8.2	Environmental forestry	—	—	13.00	—	1.00	—	0.43	—	2.50	—	—
FT 8.3	Kundi Water Sited Area Development Project	—	—	300.00	—	—	—	—	—	20.00	—	—
FT 8.4	Acquisition of land in Shiwaliks	—	—	250.00	—	—	—	—	—	5.10	—	—
FT 8.5	Demarcation of forests	—	—	12.00	—	—	—	—	—	1.00	—	—
	Total	—	—	651.00	—	2.00	—	1.43	—	32.60	—	—
9. Survey of Forest resources												
FT 9.1	Establishment of Planning and Statistical Cell	—	—	1.30	—	0.30	—	0.30	—	0.30	—	—
	Total	—	—	1.30	—	0.30	—	0.30	—	0.30	—	—
	Grand Total	607.75	476.74	176.88	1519.00	—	155.00	—	155.50	—	175.00	20.00
COMMUNITY DEVELOPMENT AND PANCHAYATS												
CD 1	Grant-in-aid to Panchayat Samitis for employment of Panchayat Secretaries recruited under 'Half-a-million Jobs Programme'	123.15	38.32	41.00	—	41.00	—	39.00	—	—	—	—
CD 2	Strengthening of head-quarters staff	0.80	0.34	1.00	—	1.00	—	0.70	—	—	—	—
CD 3	Training of panches and sarpanches	8.10	2.40	3.00	—	3.00	—	2.50	—	—	—	—
CD 4	Financial assistance to Panchayats, Panchayat Samitis and Zila Parishads for expenditure on revenue earning schemes	73.59	45.76	289.00	—	63.00	—	48.80	—	62.00	—	61.00
CD 5	Study tours of non-officials	0.52	0.08	1.20	—	0.20	—	0.20	—	0.20	—	—
CD 6	Incentive grants to Panchayats for stepping up tax efforts	7.63	—	—	—	—	—	—	—	—	—	—
CD 7	Disposal of sullage water and sanitation	23.35	6.00	8.00	—	8.00	—	8.00	—	—	—	—
CD 8	Composite programme for women and pre-school children-strengthening of craft centres	2.57	1.10	20.56	—	4.80	—	4.80	—	3.80	—	—
CD 9	Pavement of streets and construction of drains	161.74	35.00	540.00	—	40.00	—	40.00	—	50.00	—	50.00
CD 10	Assistance to Panchayats for expenditure on Panchayat works	24.00	15.00	71.00	—	11.00	—	10.00	—	15.00	—	15.00
CD 11	Development of Model Villages	30.87	15.00	30.00	—	10.00	—	10.00	—	10.00	—	10.00
CD 12	Staff for implementation of Integrated Rural Development Programme	0.60	0.60	8.00	—	8.00	—	7.00	—	5.00	—	—
CD 13	Underground water sewerage	—	—	15.00	—	—	—	—	—	4.00	—	4.00
	Grand Total	640.21	456.92	159.60	1027.76	—	190.00	—	171.00	—	150.00	140.00

ANNUAL PLAN - 1979-80
STATEMENT II : SCHEMES
HEAD : CO-OPERATION

(Rs. In lakhs)

Head of Development	Minor Head of Development /Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78		1978-83		1978-79				Proposed outlay 1979-80			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COOPERATION														
1. Direction and Administration														
CN 1.1	Additional departmental staff		8.02	4.25	115.00	—	27.00	—	27.00	—	45.00	—	—	—
	Total		8.02	4.25	115.00	—	27.00	—	27.00	—	45.00	—	—	—
2. Credit Cooperatives														
CN 2.1	Assistance to Co-operative Banks for technical cell		2.55	1.10	—	—	—	—	—	—	—	—	—	—
CN 2.2	Assistance to Central Co-operative Banks for opening new branches		6.85	3.70	35.36	—	4.80	—	4.80	—	21.10	—	—	—
CN 2.3	Assistance to Central Cooperative Banks in border areas for special stabilisation fund		21.60	5.40	—	—	—	—	—	—	—	—	—	—
CN 2.4	Assistance to Primary Co-operative Land Mortgage Banks as managerial subsidy		0.66	—	—	—	—	—	—	—	—	—	—	—
CN 2.5	Assistance to Primary Co-operative Land Mortgage Banks for construction of office buildings		6.00	3.00	—	—	—	—	—	—	—	—	—	—
CN 2.6	Assistance to Cooperative Primary Agricultural Service Societies for construction of godowns		30.86	30.86	329.67	—	13.20	—	13.20	—	76.22	—	—	76.22
CN 2.7	Share capital contribution to ;		(134.46)	(31.52)	(620.00)	—	(170.00)	—	(130.00)	—	(60.00)	—	—	(60.00)

(i)	Punjab State Co-operative Land Mortgage Bank	2.00	—	—	—	1.00	—	1.00	—	1.00	—	—	1.00
(ii)	Central Co-operative Banks	41.50	13.00	—	—	15.00	—	5.00	—	5.00	—	—	5.00
(iii)	Urban Co-operative Banks	—	—	140.00	—	—	—	—	—	—	—	—	—
(iv)	Punjab State Co-operative Banks	5.00	—	—	—	1.00	—	—	—	—	—	—	—
(v)	Primary Co-operative Land Mortgage Banks	28.05	6.10	—	—	23.00	—	14.00	—	9.00	—	—	9.00
(vi)	Primary Agri. Service Societies	57.91	12.42	480.00	—	130.00	—	110.00	—	45.00	—	—	45.00
CN 2.8	Reorganisation and revitalisation of Central Co-operative Banks	119.67	79.84	151.00	—	1.00	—	1.00	—	1.28	—	—	—
CN 2.9	Assistance to reorganised Primary Agricultural Service Societies as managerial subsidy	—	—	243.10	—	65.20	—	65.20	—	93.00	—	—	—
CN 2.10	Subsidy for building premises of new branches of Central Co-operative Banks at focal points under IRDP	—	—	53.20	—	—	—	—	—	23.40	—	—	23.40
Total		322.65	155.42	1432.33	—	254.20	—	214.20	—	275.00	—	—	159.62

3. Housing Cooperatives

CN 3.1	Share capital contribution to Housing Societies/Housing Federation as margin money	59.00	—	—	—	—	—	—	—	—	—	—	—
CN 3.2	Assistance to Housing Societies/Federation as managerial subsidy	3.25	3.25	2.15	—	—	—	—	—	0.50	—	—	—
CN 3.3	Subsidy to Housefed for differential rate of interest	6.14	5.49	—	—	—	—	—	—	—	—	—	—
Total		68.39	8.74	2.15	—	—	—	—	—	0.50	—	—	—

4. Labour Co-operatives

CN 4.1	Assistance for technical cell in district Co-operative Labour Unions and State level federation	0.83	0.72	0.50	—	0.50	—	0.50	—	—	—	—	—
Total		0.83	0.72	0.50	—	0.50	—	0.50	—	—	—	—	—

5. Farming Co-operatives

CN 5.1	Assistance to Co-operative Farming Societies	0.36	—	—	—	—	—	—	—	—	—	—	—
CN 5.2	Assistance to Co-operative Tubewell Irrigation Societies	1.00	—	—	—	—	—	—	—	—	—	—	—
Total		1.36	—	—	—	—	—	—	—	—	—	—	—

ANNUAL PLAN 1979-80
STATEMENT II—SCHEMES
HEAD : CO- PERATION

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	5th Plan outlay as finalised in Oct. 1976	1974-78	1977-78	1978-83		1978-79				Proposed outlay 1979-80			
			Actuals	Actuals	Five Year Plan Outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6. Ware-housing and Marketing														
CN 6.1	Assistance to new marketing societies as managerial subsidy		1.01	0.33	—	—	—	—	—	—	—	—	—	—
CN 6.2	Share capital contribution to Co-operative Marketing Societies		19.58	5.50	26.00	—	1.00	—	1.00	—	4.00	—	—	4.00
CN 6.3	Assistance to Cooperative Marketing Societies for setting up grading units		1.35	0.60	—	—	—	—	—	—	—	—	—	—
CN 6.4	Assistance to Co-operative Marketing Societies for construction of godowns		4.00	—	—	—	—	—	—	—	—	—	—	—
CN 6.5	Assistance for development of export of vegetables, fruits and other products by Markfed		(—)	(—)	(24.00)	(—)	(—)	(—)	(—)	(—)	(2.00)	(—)	(—)	(1.50)
(i)	Share capital as margin money		—	—	8.00	—	—	—	—	—	1.50	—	—	1.50
(ii)	Cold Storage		—	—	—	—	—	—	—	—	—	—	—	—
(a)	Loan		—	—	12.00	—	—	—	—	—	—	—	—	—
(b)	Share Capital		—	—	3.00	—	—	—	—	—	—	—	—	—
(iii)	Subsidy for technical and marketing cell		—	—	1.00	—	—	—	—	—	0.50	—	—	—
Total			25.94	6.43	50.00	—	1.00	—	1.00	—	6.00	—	—	5.50

7. Processing Cooperatives

CN 7.1	Assistance to agriculture processing units (other than Sugar Mills)	188.06	15.86	60.75	—	5.00	—	—	—	0.50	—	—	0.50
Total		188.06	15.86	60.75	—	5.00	—	—	—	0.50	—	—	0.50

8. Dairy Cooperatives

CN 8.1	Share capital contribution to Primary Cooperative Milk Societies, Unions and Milk Federation	68.85	25.00	66.50	—	8.50	—	8.50	—	6.00	—	—	6.00
CN 8.2	Managerial subsidy to Primary Cooperative Milk Societies and Unions	37.41	17.79	—	—	—	—	—	—	—	—	—	—
CN 8.3	Assistance to Federation of Milk Unions for technical cell	2.42	1.36	6.00	—	2.00	—	2.00	—	2.00	—	—	—
CN 8.4	Subsidy to Milk Unions for :	(—)	(—)	(131.60)	—	(48.60)	—	(48.60)	—	(61.00)	—	—	(6.00)
	(i) Managerial cost	—	—	20.00	—	6.00	—	6.00	—	5.00	—	—	—
	(ii) Purchase of chemicals for testing milk	—	—	16.00	—	3.00	—	3.00	—	8.00	—	—	—
	(iii) Transport charges	—	—	19.00	—	3.00	—	3.00	—	8.00	—	—	—
	(iv) Purchase of diesel jeeps	—	—	9.60	—	3.60	—	3.60	—	6.00	—	—	6.00
	(v) Farmers Induction Programme (Study tours)	—	—	3.00	—	3.00	—	3.00	—	—	—	—	—
	(vi) Extension Programme audio visual aids	—	—	16.00	—	6.00	—	6.00	—	10.00	—	—	—
	(vii) Procurement and inputs wing	—	—	24.00	—	12.00	—	12.00	—	12.00	—	—	—
	(viii) Spearhead team expenses	—	—	24.00	—	12.00	—	12.00	—	12.00	—	—	—
CN 8.5	Assistance to Milk Producers Societies for :	(—)	(—)	(141.90)	(—)	(52.90)	(—)	(52.90)	(—)	(15.00)	(—)	(—)	(3.00)
	(i) Managerial cost	—	—	71.80	—	18.80	—	18.80	—	9.00	—	—	—
	(ii) Milk testing equipment	—	—	35.05	—	17.05	—	17.05	—	3.00	—	—	3.00
	(iii) First aid artificial insemination boxes and cattle crates	—	—	35.05	—	17.05	—	17.05	—	3.00	—	—	—
CN 8.6	Subsidy to Milk Federation for training of audit/inspection staff	—	—	2.55	—	0.55	—	0.55	—	1.00	—	—	—
CN 8.7	Share capital contribution to milk unions/ Federation for setting up dairy processing and allied units	—	—	58.00	—	—	—	—	—	—	—	—	—
Total		108.68	44.15	406.55	—	112.55	—	112.55	—	85.00	—	—	15.00

ANNUAL PLAN— 1979-80
STATEMENT II : SCHEMES
HEAD : COOPERATION

(Rs. in lakhs)

Head of Development	Minor Head of Development /Name of the scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78	1977-78	1978-83		1978-79				Proposed outlay 1979-80			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved Outlay		Anticipated Expdr.		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
9. Cooperative Sugar Mills														
CN 9.1	Share capital contribution for installation of new Cooperative Sugar Mills		—	—	230.00	—	10.00	—	10.00	—	—	—	—	—
CN 9.2	Share Capital contribution for expansion of existing Cooperative Sugar Mills		—	—	110.00	—	—	—	—	—	20.00	—	—	20.00
CN 9.3	Share capital contribution for setting up of Cooperative Khandsari Units		—	—	18.00	—	—	—	—	—	—	—	—	—
CN 9.4	Subsidy for technical cell with sugar Mills Federation		—	—	6.00	—	—	—	—	—	1.00	—	—	—
Total			—	—	364.00	—	10.00	—	10.00	—	21.00	—	—	20.00
10. Industrial Cooperatives														
CN 10.1	Participation in the share capital of Industrial Cooperatives including Federation/Unions and Projects in Cooperative sector and ICB's		9.00	4.00	49.50	—	9.50	—	9.50	—	4.50	—	—	4.50
CN 10.2	Subsidy to CCB's/SBI for advancing loans to Industrial Cooperatives at 2½ % rate of interest		2.00	0.50	6.50	—	1.50	—	1.50	—	1.00	—	—	—
CN 10.3	Assistance to Handloom Weavers Cooperatives-interest concession		0.25	0.25	4.50	—	0.50	—	0.50	—	0.50	—	—	—
CN 10.4	Assistance to Handloom Weavers Cooperatives for rebate on cloth sale		1.00	1.00	6.00	—	1.00	—	1.00	—	1.00	—	—	—

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CN 10.5	Development of handloom industry-supply of improved appliances	4.00	4.00	6.00	—	2.00	—	2.00	—	0.50	—	—	0.12
CN 10.6	Share capital contribution to Punjab Handloom Weavers Apex Cooperative Society	5.00	2.50	7.50	—	2.50	—	2.50	—	1.50	—	—	1.50
CN 10.7	Managerial subsidy to the Punjab Handloom Weavers Apex Cooperative Society	0.50	0.25	2.50	—	0.50	—	0.50	—	0.50	—	—	—
CN 10.8	Contribution to share capital of Primary Model Handloom Weavers' Cooperative Societies	12.50	7.50	9.00	—	5.00	—	5.00	—	—	—	—	—
CN 10.9	Managerial subsidy to Model Handloom Weavers' Cooperative Societies	1.90	1.40	1.50	—	1.50	—	1.50	—	—	—	—	—
CN 10.10	Subsidy to Model Handloom Weavers' Cooperative Societies for construction of sheds	6.25	3.75	2.50	—	2.50	—	2.50	—	—	—	—	—
CN 10.11	Managerial subsidy to Industrial Cooperatives including Handloom Weavers' Cooperatives	—	—	18.75	—	3.75	—	3.75	—	—	—	—	—
CN 10.12	Subsidy to Industrial Cooperatives for employing craft teachers	—	—	5.00	—	—	—	—	—	0.50	—	—	—

Total

42.40	25.15	119.25	—	30.25	—	30.25	—	10.00	—	—	—	6.12
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11. Consumers Cooperatives

CN 11.1	Assistance to Cooperative Consumers Stores as working capital	8.24	2.04	—	—	—	—	—	—	—	—	—	—
CN 11.2	Contribution to share capital of Central Consumers Stores	15.20	3.00	16.00	—	—	—	—	—	1.00	—	—	1.00
CN 11.3	Share capital contribution to Primary Co-operative Stores	0.72	—	4.00	—	—	—	—	—	0.50	—	—	0.50
CN 11.4	Share Capital contribution to State Co-operative Consumer Federation	20.81	6.00	14.00	—	4.00	—	4.00	—	2.00	—	—	2.00
CN 11.5	Loan assistance for construction of regional godowns of Consumer Federation	6.12	1.88	—	—	—	—	—	—	—	—	—	—
CN 11.6	Subsidy to Primary Cooperative Agriculture Service Societies for employment of Secretaries cum-Salesmen in rural areas	16.50	4.50	—	—	—	—	—	—	—	—	—	—
CN 11.7	Assistance for construction of godowns for rural distribution programme	1.76	1.76	—	—	—	—	—	—	—	—	—	—
CN 11.8	Assistance to nucleus Co-operative Agricultural Service Societies for marketing procurement and supply shops	5.00	5.00	—	—	—	—	—	—	—	—	—	—
CN 11.9	Subsidy to State Cooperative Consumer Federation for business and financial management cell	—	—	2.00	—	—	—	—	—	0.50	—	—	—
CN 11.10	Subsidy for rehabilitation of weak central stores/ Federation	—	—	34.00	—	—	—	—	—	7.00	—	—	—

Total

74.35	24.18	70.00	—	4.00	—	4.00	—	11.00	—	—	—	3.50
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ANNUAL PLAN 1979-80
STATEMENT II : SCHEMES
HEAD : COOPERATION

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in October 1976	1974-78	1977-78	1978-83		1978-79				Proposed outlay 1979-80			
			Actuals	Actuals	Five year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
12. Education														
CN 12.1	Member education and leadership training of non-officials through Punjab Co-operative Union		10.25	3.00	7.50	—	2.50	—	2.50	—	2.00	—	—	—
	Total		10.25	3.00	7.50	—	2.50	—	2.50	—	2.00	—	—	—
13. Research and Training														
CN 13.1	Training of Co-operative Subordinate personnel		2.74	1.00	6.00	—	2.00	—	2.00	—	1.00	—	—	—
CN 13.2	Study tours		0.12	0.05	2.00	—	—	—	—	—	0.50	—	—	—
CN 13.3	Subsidy for research and case studies through Punjab Co-operative Union		—	—	2.00	—	—	—	—	—	0.50	—	—	—
	Total		2.86	1.05	10.00	—	2.00	—	2.00	—	2.00	—	—	—
14. Information and Publicity														
CN 14.1	Publicity through Punjab Co-operative Union		3.60	1.50	5.00	—	1.00	—	1.00	—	1.00	—	—	—
	Total		3.60	1.50	5.00	—	1.00	—	1.00	—	1.00	—	—	—
15. Other Co-operatives														
CN 15.1	Assistance to co-operatives for manufacturer of inputs for supply to farmers		10.38	8.25	—	—	—	—	—	—	—	—	—	—
CN 15.2	Share capital contribution to Co-operative Cold Storage in sub-montane and border areas		10.00	—	—	—	—	—	—	—	—	—	—	—
CN 15.3	Assistance to Co-operative Poultry Marketing Societies		1.36	0.76	—	—	—	—	—	—	—	—	—	—
	Total		21.74	9.01	—	—	—	—	—	—	—	—	—	—
	Total Co-operative Department		1585.41	879.13	299.46	2643.03	—	450.00	—	405.00	—	459.00	—	210.24

16. Co-operative Audit

CN 16·1	Staff for audit of Credit Cooperatives	—	—	77·30	—	—	—	—	—	12·00	—	—	—
CN 16·2	Staff for audit of Societies other than Credit Co-operatives	—	—	17·70	—	—	—	—	—	0·83	—	—	—
CN 16·3	Training and education of audit staff	—	—	0·60	—	—	—	—	—	0·05	—	—	—
CN 16·4	Direction and Administration of Co-operative Audit	—	—	18·40	—	—	—	—	—	3·12	—	—	—
Total		—	—	114·00	—	—	—	—	—	16·00	—	—	—
Grand Total		1585·41	879·13	299·46	2757·03	—	450·00	—	405·00	—	475·00	—	210·24

IRRIGATION**1. Multipurpose Projects**

MP1·1	Beas Project Unit I	521·85	99·91	119·00	—	51·00	—	51·00	—	37·00	—	—	37·00
MP1·2	Beas Project Unit-I (Extension)	—	—	98·00	—	10·00	—	10·00	—	10·00	—	—	10·00
MP1·3	Beas Project Unit-II	1109·57	269·53	305·00	—	120·00	—	120·00	—	25·00	—	—	25·00
MP1·4	Beas Project Unit-II(Extension)	—	—	538·00	—	50·00	—	50·00	—	54·00	—	—	54·00
MP1·5	Thein Dam	569·61	383·43	9795·00	—	600·00	—	540·00	—	1350·00	—	—	1350·00
MP1·6	Diversion Weir of Shahnehar canal	1234·38	501·29	885·00	—	550·00	—	471·90	—	290·00	—	—	290·00
MP1·7	Dholbaha Dam	24·73	3·56	370·00	—	50·00	—	45·00	—	75·00	—	—	75·00
MP1·8	Shahapur Kandi Project	0·50	0·50	501·00	—	1·00	—	1·00	—	1·00	—	—	1·00
MP1·9	Low Dams in Kandi area	—	—	500·00	—	—	—	—	—	23·00	—	—	23·00
Total		3460·64	1258·22	13111·00	—	1432·00	—	1288·90	—	1865·00	—	—	1865·00

2. Major and Medium Irrigation schemes

IR 2·1	Extension of non-perennial Irrigation to areas in UBDC tract	205·96	31·97	114·00	—	20·00	—	18·00	—	10·00	—	—	10·00
IR 2·2	Utilisation of surplus Ravi Beas waters	166·45	21·06	266·00	—	20·00	—	168·00	—	110·00	—	—	110·00
IR 2·3	Extension and improvement of Shahnehar Canal	168·52	97·82	550·00	—	150·00	—	135·00	—	140·00	—	—	140·00
IR 2·4	Lining of Channels	875·95	509·96	10550·00	—	950·00	—	705·00	—	1250·00	—	—	1250·00
IR 2·5	Construction of New Distributries, Minors and Bridges	—	—	410·28	—	80·00	—	72·00	—	20·00	—	—	20·00
IR 2·6	Sirhind Feeder Lift scheme	—	—	5·00	—	5·00	—	4·50	—	—	—	—	—
IR 2·7	Modernisation of existing canals	—	—	50·00	—	—	—	—	—	5·00	—	—	5·00
IR 2·8	Improvement of channels in Banur canal system	3·60	—	—	—	—	—	—	—	—	—	—	—
IR 2·9	Garhshanker lift irrigation scheme	0·50	0·50	—	—	—	—	—	—	—	—	—	—
Total		1,420·98	661·31	11945·28	—	1225·00	—	1102·50	—	1535·00	—	—	1535·00

ANNUAL PLAN 1979-80
STATEMENT II: SCHEMES
HEADS: POWER

(Rs in lakhs)

Head of Development	Minor head of the Scheme	of Developmen/Name of the Scheme	Fifth Plan outlay as finalised in Oct., 76	1974—78	1977-78	1978—83		1978-79		Proposed outlay (1979-80)					
				Actuals	Actuals	<i>Five Year Plan outlay proposed</i>		<i>Approved outlay</i>		<i>Anticipated Expenditure</i>		Total	of which MNP	Foreign Exchange content of total outlay	Capital content of total outlay
						Total	of which MNP	Total	of which MNP	Total	of which MNP				
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
3. Water Development															
WD 3·1	Investigation of schemes			68.79	19·29	226·00	—	46·00	—	41·40	—	45·00	—	—	45·00
WD 3·2	Research			6·16	1·44	24·00	—	4·00	—	3·50	—	5·00	—	—	5·00
	Total			74·95	20·73	250·00	—	50·00	—	44·90	—	50·00	—	—	50·00
	Grand Total		6553.73	4956·57	19,40·26	25306·28	—	2707·00	—	2436·30	—	3450·00	—	—	3450·00
	Anti-Water logging, drainage and Flood Control		2230.00	1893·80	663·80	4910·00	—	950·00	—	1255·00	—	750·00	—	—	750·00
Power															
1. Generation															
(a) Multipurpose projects															
MP 1·1	Beas Project Unit-I			8143·01	1438·43	1755·00	—	740·00	—	740·00	—	541·00	—	—	541·00
MP 1·2	Beas Project Unit-I (Extension)			34·74	34·74	1433·00	—	145·00	—	145·00	—	147·00	—	—	147·00
MP 1·3	Beas Project Unit-II			334·59	76·54	94·00	—	37·00	—	37·00	—	57·00	—	—	57·00
MP 1·4	Beas Project Unit-II (Extension)			6·26	6·26	165·00	—	16·00	—	16·00	—	17·00	—	—	17·00
MP 1·5	Thein Dam			—	—	500·00	—	400·00	—	—	—	20·00	—	—	20·00
MP 1·6	Shahpur Kandi Project			0·31	0·31	6·00	—	1·00	—	—	—	1·00	—	—	1·00
	Total (a)			8518·91	1556·28	3963·00	—	1339·00	—	938·00	—	783·00	—	—	783·00

(b) Power Projects												
PP 1-1	Shanan Renovation Project	289.69	95.51	402.00	—	206.00	—	194.00	—	137.00	—	137.00
PP 1-2	Shanan Extension Project	916.46	200.68	594.00	—	398.00	—	313.00	—	100.00	—	100.00
PP 1-3	Guru Nanak Dev Thermal Plant, Bhatinda Units I & II	516.26	(—)284.35	—	—	—	—	..	—	—	—	—
PP 1-4	Guru Nanak Dev Thermal Plant Exten., Bhatinda Units III & IV	4732.21	1037.22	1370.00	—	670.00	—	670.00	—	400.00	—	400.00
PP 1-5	Anandpur Sahib Hydrel Project	1789.35	620.59	6810.00	—	1600.00	—	1762.00	—	2355.00	—	2355.00
PP 1-6	Mukerian Hydrel Project	330.54	55.55	6682.00	—	200.00	—	270.00	—	1100.00	—	1100.00
PP 1-7	UBDC Project Stage-I	(—)81.72	—	65.00	—	—	—	13.00	—	10.00	—	10.00
PP 1-8	Participation in Hydro project of H.P. & J.K.	1.12	0.16	20.00	—	4.00	—	1.00	—	4.00	—	4.00
PP 1-9	Guru Nanak Dev Thermal Plant Exten. Stage-II Units V & VI	0.07	0.07	7000.00	—	15.00	—	—	—	100.00	—	100.00
PP 1-10	Ropar Thermal Project	0.51	0.51	4715.00	—	200.00	—	20.00	—	100.00	—	100.00
PP 1-11	Bhakra Right & Left Bank Projects	16.96	—	—	—	—	—	—	—	—	—	—

Total (b)	8511.45	1726.04	27658.00	—	3293.00	—	3243.00	—	4306.00	—	—	4306.00
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Total	17030.36	3282.32	31621.00	—	4632.00	—	4181.00	—	5089.00	—	—	5089.00
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2. Transmission

PP 2-1	Beas Transmission											
	(i) B.C.B.	807.65	254.80	238.00	—	170.00	—	170.00	—	68.00	—	68.00
	(ii) P.S.E.B.	2661.59	468.92	942.00	—	392.00	—	327.00	—	300.00	—	300.00
PP 2-2	UBDC Project	369.37	90.13	63.00	—	43.00	—	56.00	—	65.00	—	65.00
PP 2.3	Bhakra Right Bank											
	(i) B.M.B.	39.56	—	—	—	—	—	—	—	—	—	—
	(ii) P.S.E.B.	63.92	51.30	14.00	—	14.00	—	17.00	—	12.00	—	12.00
PP 2.4	Bhakra Left Bank—											
	(i) B.M.B.	0.98	—	—	—	—	—	—	—	—	—	—
	(ii) P.S.E.B.	1.16	—	—	—	—	—	—	—	—	—	—

ANNUAL PLAN 1979-80

STATEMENT II: SCHEME

HEAD : POWR

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	Fifth Plan Outlay as finalised in October, 1976	1974-78		1977-78		1978-83		1978-79		Proposed outlay (1979-80)			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign Exchange content of total outlay	Capital Content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PP 2.5	Guru Nanak Dev Thermal Plant, Bhatinda ..		709.76	80.69	351.00	—	55.00	—	51.00	—	50.00	—	—	50.00
PP 2.6	Guru Nanak Dev Thermal Plant, Extn. Plant Bhatinda		196.11	88.68	491.00	—	73.00	—	58.00	—	112.00	—	—	112.00
PP 2.7	Shanan Extension Project ..		83.14	49.26	308.00	—	130.00	—	72.00	—	67.00	—	—	67.00
PP 2.8	220 KV, 132 KV & 66 KV Transmission works for the 5th Plan connected with new projects		207.97	190.00	4110.00	—	607.00	—	582.00	—	995.00	—	—	995.00
PP 2.9	220 KV, 132 KV & 66 KV Transmission works for 6th Plan connected with new projects		—	—	2865.00	—	—	—	—	—	—	—	—	—
PP 2.10	Transmission lines for Dehar Extension project ..		—	—	470.00	—	—	—	—	—	—	—	—	—
PP 2.11	Improvement of Transmission system and Reduction of Transmission losses ..		320.91	78.81	1940.00	—	180.00	—	180.00	—	320.00	—	—	320.00
PP 2.12	Sub-Transmission Works ..		633.89	385.02	1274.00	—	334.00	—	334.00	—	531.00	—	—	531.00
PP 2.13	P.L.C. Equipment ..		—	—	153.00	—	—	—	—	—	—	—	—	—
	Total ..		6096.01	1737.61	13219.00	—	1998.00	—	1847.00	—	2520.00	—	—	2520.00
	3. Normal Development and Distribution													
PP 3.1	Normal Development & Distribution ..		2647.90	730.70	4650.00	—	750.00	—	666.00	—	700.00	—	—	700.00

4. Rural Electrification

PP 4.1 Rural Electrification

(i) R.E.C.	2425.19	690.87	2920.00	—	400.00	—	440.00	—	470.00	—	—	470.00
(ii) Plan	2076.52	727.07	4180.00	—	1280.00	—	1062.00	—	985.00	—	—	985.00
Total	4501.71	1417.94	7100.00	—	1720.00	—	1502.00	—	1455.00	—	—	1455.00

5. Power Development

PD 5.1 Survey and Investigation	27.10	12.08	35.04	—	20.00	—	12.00	—	8.00	—	—	8.00
PD 5.2 Research, Testing Laboratory and Load Despatch Centre	51.01	5.04	98.00	—	10.00	—	9.00	—	28.00	—	—	28.00
Total	78.11	17.12	133.04	—	30.00	—	21.00	—	36.00	—	—	36.00
Grand Total	39877.54	30354.09	7185.69	56723.04	—	9130.00	—	8217.00	—	9800.00	—	9800.00

INDUSTRY AND MINERALS

1. Industrial and Financial Institutions

IN 1.1 Punjab financial Corporation	112.50	25.00	90.00	—	50.00	—	47.50	—	40.00	—	—	40.00
IN 1.2 Industrial Financial Corporation of India	4.95	—	15.00	—	—	—	—	—	1.00	—	—	1.00
Total	117.45	25.00	105.00	—	50.00	—	47.50	—	41.00	—	—	41.00

2. Investment in Public Undertakings

IN 2.1 Punjab State Industrial Development Corporation	1398.40	495.00	2450.00	—	500.00	—	474.00	—	475.00	—	—	475.00
IN 2.2 Punjab State Small Industries Corporation	36.00	13.00	142.00	—	50.00	—	45.00	—	35.00	—	—	35.00
IN 2.3 Punjab State Electronics Development and Production Corporation	50.00	30.00	110.00	—	35.00	—	30.00	—	15.00	—	—	15.00
IN 2.4 Punjab State Handloom and Textile Development Corporation	47.20	20.00	55.00	—	10.00	—	5.00	—	8.00	—	—	8.00
IN 2.5 Punjab State Hosiery and Knitwear Development Corporation	32.28	15.00	80.00	—	30.00	—	30.00	—	12.00	—	—	12.00
IN 2.6 Punjab Export Corporation	16.00	5.00	5.00	—	5.00	—	1.00	—	—	—	—	..
Total	1579.88	578.00	2842.00	—	630.00	—	585.00	—	545.00	—	—	545.00

ANNUAL PLAN 1979-80
STATEMENT II : SCHEMES
HEAD : INDUSTRIES AND MINERALS

(Rs in lakhs)

Head of Development	Minor Head of Development /Name of the Scheme	Fifth plan outlay as finalised in Oct. 1976	1974-78	1977-78	1978-83	1978-79				Proposed outlay (1979-80)				
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital Content of total outlay
					Total	of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3. Direction and Administration														
IN 3.1	Cell for Non-resident Indians		0.43	0.18	4.40	—	0.40	—	0.30	—	1.00	—	—	—
IN 3.2	Development of Agro-based Industries and provision for specific studies, feasibility reports, survey, research and development		3.09	0.54	6.00	—	1.00	—	1.13	—	0.81	—	—	—
IN 3.3	Marketing Intelligence Cell		2.85	1.18	1.20	—	1.20	—	1.44	—	—	—	—	—
IN 3.4	Strengthening of industrial development wing at the Directorate		—	—	1.00	—	1.00	—	—	—	—	—	—	—
IN 3.5	Liaison offices at Bombay and Calcutta		6.51	1.83	1.50	—	1.50	—	2.06	—	—	—	—	—
IN 3.6	Schemes completed/discontinued during 1974-78		0.50	—	—	—	—	—	—	—	—	—	—	—
	Total		13.38	3.73	14.10	—	5.10	—	4.93	—	1.81	—	—	—
4. Small Scale Industries														
IN 4.1	Credit facilities for the development of small scale industries		144.95	42.00	102.00	—	42.00	—	42.00	—	15.00	—	—	15.00
IN 4.2	Subsidy		4.13	1.20	6.00	—	2.00	—	2.00	—	1.00	—	—	1.00
IN 4.3	Grant of 1 per cent subsidy to PFC for concessional finances in selected backward districts		1.87	0.58	3.90	—	0.70	—	0.70	—	0.80	—	—	—

IN 4.4	Grant of 2 per cent subsidy in the rate of interest on loans by PFC for purchase of generating sets	2.57	0.39	1.60	—	0.60	—	0.60	—	0.30	—	—
IN 4.5	Out right subsidy	—	—	85.00	—	4.00	—	3.00	—	10.00	—	10.00
IN 4.6	Seven new Industrial Development-cum-Service Centres	53.15	28.44	66.46	—	42.59	—	35.54	—	14.75	—	6.00
IN 4.7	Five New Quality Marking Centres	29.43	15.00	29.00	—	9.00	—	7.48	—	4.91	—	0.50
IN 4.8	Tool Room, Ludhiana	6.07	1.32	51.60	—	25.00	—	24.60	—	5.00	—	5.00
IN 4.9	Sewing Machine Development Centre, Ludhiana	2.03	—	18.00	—	1.00	—	—	—	1.00	—	0.50
IN 4.10	Hand tool Designs Institute, Jullundur	5.35	1.17	31.00	—	5.00	—	—	—	5.00	—	5.00
IN 4.11	Punjab Test House, Ludhiana	15.58	4.35	27.00	—	7.00	—	5.96	—	6.50	—	2.00
IN 4.12	Machine Tool and Design Development Centre, Batala	2.40	0.40	70.00	—	5.00	—	—	—	5.00	—	3.00
IN 4.13	Training of Technical staff by participation in special training programme and visit to industries in other States	0.84	0.14	1.00	—	0.15	—	0.15	—	0.20	—	—
IN 4.14	Modernisation of small scale industries	11.30	4.97	47.70	—	10.00	—	7.42	—	7.50	—	—
IN 4.15	Research and Development Centre for Bicycles, Ludhiana	1.90	—	10.00	—	1.00	—	—	—	1.00	—	0.50
IN 4.16	Electronic Development and Testing Laboratory SAS Nagar	55.93	24.92	60.00	—	20.00	—	18.00	—	8.00	—	4.00
IN 4.17	Development of leather industries	24.96	13.73	78.70	—	25.00	—	15.60	—	21.30	—	12.00
IN 4.18	Consultancy—technical services and testing facility centres for chemical industries	—	—	10.00	—	—	—	—	—	2.25	—	0.75
IN 4.19	Export awards	—	—	1.20	—	—	—	—	—	0.30	—	—
IN 4.20	District Industries Centres	—	—	87.75	—	—	—	2.51	—	21.62	—	9.00
IN 4.21	Shoe and Leather Goods Training Centre, Longowal	—	—	1.60	—	—	—	—	—	0.40	—	—
IN 4.22	Interest subsidy	—	—	25.00	—	—	—	—	—	5.00	—	5.00
IN 4.23	Loans to Punjab State Small Industries Corporation	—	—	15.00	—	—	—	—	—	2.50	—	2.50
IN 4.24	Extension of existing building of CFTRI at Ludhiana	0.51	0.51	11.00	—	1.00	—	1.00	—	5.00	—	5.00
IN 4.25	Training for self employment	5.01	0.36	15.00	—	3.00	—	1.00	—	1.00	—	—
IN 4.26	Promotion of self employment through seed/capital/margin money assistance	60.26	—	105.00	—	25.00	—	20.00	—	5.00	—	5.00

ANNUAL PLAN,—1979-80
STATEMENT II : SCHEMES
HEAD : INDUSTRIES AND MINERALS

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the scheme	Fifth Plan outlay as finalised in October, 1976	1974-78		1977-78		1978-83		1978-79		Proposed outlay (1979-80)			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IN 4.2	Establishment of Industrial/Commercial Estates		55.00	—	15.00	—	—	—	—	—	5.00	—	—	5.00
IN 4.28	Supply of machinery on hire-purchase basis ..		25.00	—	40.00	—	—	—	—	—	5.00	—	—	5.00
IN 4.29	Training for Guaranteed Employment ..		13.41	1.41	45.00	—	9.00	—	6.00	—	5.00	—	—	—
IN 4.30	Participation in International Fairs ..		12.02	2.90	15.00	—	3.00	—	13.71	—	3.00	—	—	—
IN 4.31	Publicity ..		0.94	0.40	10.00	—	1.00	—	1.00	—	2.25	—	—	—
IN 4.32	Sports Goods Complex ..		—	—	38.50	—	8.50	—	—	—	4.00	—	—	4.00
IN 4.33	Surgical Instruments Complex ..		0.62	0.62	26.00	—	1.00	—	—	—	1.50	—	—	1.05
IN 4.34	Regional Centre of I.S.I. at S.A.S. Nagar ..		8.38	5.25	7.50	—	5.00	—	5.00	—	2.50	—	—	2.50
IN 4.35	Augmentation of Regional Centre of SASMIRA at Amritsar		6.41	2.25	3.00	—	2.00	—	2.00	—	—	—	—	—
IN 4.36	Export promotion programme ..		1.65	0.45	0.60	—	0.60	—	0.68	—	—	—	—	—
IN 4.37	Subsidy for purchase of generating sets ..		72.60	10.00	2.50	—	2.50	—	1.39	—	—	—	—	—
IN 4.38	Trade Centre ..		12.39	7.64	6.00	—	6.00	—	5.20	—	4.00	—	—	4.00
IN 4.39	Modernisation of workshops ..		1.65	0.36	0.40	—	0.40	—	—	—	—	—	—	—
IN 4.40	Unit for manufacture of blanks for cut glass wares		5.00	0.35	5.00	—	5.00	—	2.00	—	—	—	—	—
IN 4.41	Extension Centre, Jullundur ..		3.04	1.63	2.00	—	2.00	—	2.00	—	—	—	—	—
IN 4.42	Pilot production of Bag tanning of Hides at Government Tanning Centres at Banga, Kot-Kapura and Malerkotla		7.08	4.11	5.60	—	5.60	—	5.60	—	—	—	—	—
IN 4.43	Strengthening of organisation dealing with schemes		5.34	1.48	1.50	—	1.50	—	1.50	—	—	—	—	—

IN 4-44	Punjab Khadi and Village Industries Board ..	1.84	1.84	2.82	—	2.82	—	2.82	—	—	—	—
IN 4-45	State Export Development Fund ..	—	—	2.00	—	2.00	—	—	—	—	—	—
IN 4-46	Warehouse at Bombay ..	10.00	5.00	5.00	—	5.00	—	5.00	—	—	—	—
IN 4-47	Schemes completed/discontinued during 1974—78	12.34	4.80	—	—	—	—	—	—	—	—	—
	Total ..	683.45	189.97	193.93	—	291.96	—	241.46	—	182.58	—	113.30
5. Industrial Estates												
IN 5-1 (i)	Acquisition of Land ..	802.78	145.64	605.00	—	105.00	—	105.00	—	160.50	—	160.50
	(ii) Loan to PSSIC ..	226.06	20.00	153.40	—	—	—	—	—	39.00	—	39.00
	(iii) Interest Free loan ..	192.63	101.75	873.00	—	103.00	—	103.00	—	150.00	—	150.00
	(iv) Maintenance charges ..	15.36	10.00	20.00	—	10.00	—	10.00	—	10.00	—	—
	(v) Feasibility report ..	0.49	0.14	1.00	—	1.00	—	1.00	—	—	—	—
	(vi) Electricity charges of street light at focal points ..	1.59	0.77	6.40	—	2.00	—	2.00	—	1.00	—	—
	(vii) Large and medium industries staff ..	0.10	0.10	1.00	—	1.00	—	1.00	—	—	—	—
	(viii) Land acquisition staff ..	4.77	1.67	3.00	—	3.00	—	2.00	—	—	—	—
	(ix) Land subsidy ..	—	—	120.00	—	—	—	—	—	30.00	—	30.00
	(x) Investment loans ..	—	—	80.00	—	—	—	—	—	20.00	—	20.00
	(xi) Schemes completed/discontinued during 1974—78	11.55	0.15	—	—	—	—	—	—	—	—	—
	Total ..	1255.33	280.22	1,862.80	—	225.00	—	224.00	—	410.50	—	399.50
6. Handloom/Textile Industries												
IN 6-1	Installation of jacquard machines ..	10.50	5.05	15.60	—	5.10	—	5.10	—	3.00	—	3.00
IN 6-2	Interest free loans for margin money ..	4.26	1.01	11.36	—	3.36	—	1.36	—	2.00	—	2.00
IN 6-3	Training of weavers ..	1.54	0.54	2.50	—	0.50	—	0.50	—	0.50	—	—
IN 6-4	Rebate on sale of cotton handloom cloth ..	—	—	5.00	—	—	—	—	—	2.00	—	—
IN 6-5	Development of handloom industries in sub-montane areas (Training-cum-production Centre)	—	—	10.00	—	—	—	—	—	2.50	—	—
IN 6-6	Construction of workshop for weavers ..	—	—	10.00	—	—	—	—	—	2.00	—	2.00
IN 6-7	Development of weaving industry ..	0.87	0.53	0.60	—	0.60	—	0.60	—	—	—	—
IN 6-8	Additional staff for handloom development ..	0.25	0.25	1.00	—	1.00	—	0.46	—	—	—	—
IN 6-9	Export processing zone of hosiery goods at Ludhiana	22.00	—	5.00	—	5.00	—	—	—	—	—	—
IN 6-10	Assistance for conversion of pit looms into framelooms	10.30	5.30	5.00	—	5.00	—	2.75	—	—	—	—
IN 6-11	Schemes completed/discontinued during 1974—78	1.63	—	—	—	—	—	—	—	—	—	—
	Total ..	51.35	12.68	66.06	—	20.56	—	10.77	—	12.00	—	7.00

ANNUAL PLAN—1979-80
STATEMENT II : SCHEMES
HEAD : INDUSTRIES AND MINERALS

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in October, 1976	1974-78		1977-78		1978-83		1978-79		Proposed outlay (1979-80)				
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay	
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
7. Village Industries															
IN 7-1	Integrated Rural Development Programme ..		18-03	18-03	225-00	—	50-00	—	35-65	—	40-00	—	—	22-00	
8. Handicrafts															
IN 8-1	Development of handicraft industries ..		3-82	1-57	21-64	—	7-50	—	3-36	—	3-53	—	—	0-31	
9. Sericulture															
IN 9-1	Development of sericulture industries ..		2-71	1-25	19-00	—	5-00	—	3-52	—	5-16	—	—	4-14	
10. Statistics															
IN 10-1	Statistical cell ..		2-01	0-88	3-20	—	1-20	—	1-00	—	0-42	—	—	..	
11. Mines and Minerals															
IN 11-1	Development of mines and minerals ..		17-87	7-42	14-00	—	5-00	—	5-00	—	5-00	—	—	4-24	
12. Weights and Measures															
IN 12-1	Implementation of Weights and Measures Act ..		10-84	3-41	10-16	—	4-00	—	3-60	—	3-00	—	—	1-00	
Grand Total		..	6615-78	3756-12	1122-16	6376-89	—	1,295-32	—	1,165-79	—	1,250-00	—	—	1,137-49

ROADS AND BRIDGES 1. State Highways, District and Other Roads

RD 1.1	Main Roads and missing links ..		145-07	44-12	200-00	—	38-00	—	42-00	—	40-00	—	..	40-00
RD 1.2	Improvement, widening and providing additional crust on the existing roads		311-20	109-02	2,500-00	—	85-00	—	135-00	—	325-00	—	—	325-00

2. Machinery and Equipment—													
R.D. 2.1	Machinery	45.03	15.23	500.00	—	20.00	—	20.00	—	125.00	—	125.00	
3. Minimum Needs Programme—													
R.D. 3.1 Village roads—													
(i)	Link roads	2926.13	907.22	2,800.00	2,800.00	1,550.00	1,550.00	1,378.00	1378.00	500.00	500.00	500.00	
(ii)	Provincialisation of Zila Parishad Roads	35.91	16.49	200.00	200.00	20.00	20.00	20.00	20.00	45.00	45.00	45.00	
4. Planning and Research—													
R.D. 4.1	Research	3.00	1.00	—	—	—	—	—	—	—	—	—	
5. Safety works including bridges													
R.D. 5.1	Bridges	156.88	51.51	1,200.00	—	100.00	—	140.00	—	250.00	—	250.00	
6. Other expenditure													
R.D. 6.1	Central Road Fund	169.24	96.98	300.00	—	100.00	—	70.00	—	50.00	—	50.00	
R.D. 6.2	Improvement of roads within Municipal limits	161.84	83.87	400.00	—	75.00	—	33.00	—	50.00	—	50.00	
R.D. 6.3	Bye-passes	6.65	2.06	400.00	—	10.00	—	10.00	—	90.00	—	90.00	
R.D. 6.4	Research and development, field training, labs. and purchase of equipment	2.20	1.65	100.00	—	2.00	—	2.00	—	25.00	—	25.00	
Grand Total		4,969.61	3,963.15	1,329.15	8,600.00	3,000.00	2,000.00	1,570.00	1,850.00	1,398.00	1,500.00	545.00	1,500.00
Road Transport													
RT 1	PEPSU Road Transport Corporation	4,83.85	170.51	838.92	—	105.00	—	94.50	—	105.00	—	105.00	
RT 2	Punjab Roadways	1658.66	343.57	3255.28	—	390.00	—	351.00	—	495.00	—	495.00	
Grand Total		3486.51	2142.51	514.08	4094.20	—	495.00	—	445.50	—	600.00	—	600.00
Civil Aviation													
1. Training and Education—													
AV1.1	(i) Grant-in-aid and subvention to clubs	16.61	5.50	5.50	—	5.50	—	4.70	—	—	—	—	
	(ii) Establishment of Air-craft Maintenance Engineering School	—	—	1.50	—	—	—	—	—	1.50	—	1.00	
2. Aerodromes and Air Route Service													
AV 2.1	Construction/Development of aerodromes and extension of existing runways	26.79	12.08	25.55	—	2.50	—	2.50	—	2.50	—	2.50	
3. Machinery and Equipment													
AV 3.1	Advanced training of pilots	6.57	—	60.50	—	—	—	—	—	5.00	—	5.00	
Grand Total		62.59	49.97	17.58	93.05	—	8.00	—	7.20	—	9.00	—	8.50

ANNUAL PLAN—1979-80
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	Fifth Plan outlay as finalised in Oct., 1976	1974—78	1977-78	1978—83						Proposed outlay 1979-80			
			Actuals	Actuals	Five-Year Plan outlay proposed		Approved outlay		Anticipated expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
TOURISM CORPORATION	Share capital contribution to Punjab State Tourism Development Corporation		170.65*	58.68	285.84	—	50.00	—	45.00	—	45.00	—	—	45.00
GENERAL EDUCATION														
SCHOOL EDUCATION														
1. Elementary Education														
(Classes I—V)														
ED 1.1	Expansion of facilities for full time Schools		(618.59)	(235.99)	(618.68)	(618.68)	(256.88)	(256.88)	(256.88)	(256.88)	(36.22)	(36.22)	(—)	(—)
	(a) Opening of single teacher Primary Schools		618.59	235.99	252.75	252.75	246.88	246.88	246.88	246.88	0.42	0.42	—	—
	(b) Furniture for Govt. Primary Schools		—	—	50.00	50.00	10.00	10.00	10.00	10.00	10.00	10.00	—	—
	(c) Improvement of Primary Schools		—	—	273.93	273.93	—	—	—	—	18.45	18.45	—	—
	(d) Lavatories and drinking water facilities		—	—	42.00	42.00	—	—	—	—	3.85	3.85	—	—
	(e) Library Services		—	—	—	—	—	—	—	—	3.00	3.00	—	—

*Expenditure was incurred by the Department of Tourism.

	B. Non-Formal Education Part-time Classes 1 to V (6-11) Introduction of Non-Formal Education Programme	—	—	—	—	—	—	—	—	0.50	0.50	—	—
ED 1.2	Construction of Class Rooms/School buildings	3.14	0.38	39.00	30.00	9.00	—	9.00	—	10.00	10.00	—	10.00
ED 1.3	Strengthening of Science Education	(20.19)	(8.09)	(4.20)	—	(4.20)	—	(4.20)	—	1.50	(1.50)	—	—
	(a) Replenishment of Science Kits	20.19	8.09	4.20	—	4.20	—	4.20	—	(1.50)	1.50	—	—
	(b) Provision of Science Kits for Primary Schools	—	—	—	—	—	—	—	—	—	—	—	—
ED 1.4	Administration and Supervision additional staff	—	—	48.83	48.83	—	—	—	—	8.28	8.28	—	—
	Total	641.92	244.46	710.71	697.51	270.08	256.88	270.08	256.88	56.00	56.00	—	10.00
	2. Middle School Education (Classes VI to VIII)	(789.73)	(367.77)	(1502.27)	(1502.27)	(459.36)	(459.36)	(459.36)	(459.36)	(51.52)	(51.52)	(—)	(—)
ED 2.1	Expansion of facilities for full time Schools—												
	(a) Furniture for Government Middle Schools and Middle Deptts. of High and Higher Secondary Schools	—	—	72.50	72.50	14.50	14.50	14.50	14.50	14.50	14.50	—	—
	(b) Upgradation of Primary Schools to Middle Standard	789.73	367.77	444.86	444.86	—	—	—	—	7.64	7.64	—	—
	(c) Posts of PTI for Government Middle Schools and Middle Deptts. of High/Higher Secondary Schools	—	—	116.86	116.86	—	—	—	—	29.38	29.38	—	—
	(d) Additional posts of masters/mistresses on account of additional enrolment	—	—	868.05	868.05	444.86	444.86	444.86	444.86	—	—	—	—
ED 2.2	Non-Formal Education	0.78	0.33	11.00	11.00	5.00	5.00	5.00	5.00	1.00	1.00	—	—

ANNUAL PLAN 1979-80
STATEMENT II: Schemes
HEAD: GENERAL EDUCATION

(Rs in lakhs)

Head of Development	Minor head of Development/Name of the Scheme	Fifth Plan Outlay finalised in Oct., 1976	1974-78		1977-78		1978-83		1978-79		Proposed outlay (1979-80)			
			Actuals	Actuals	Five-Year Plan outlay proposed		Approved outlay		Anticipated expenditure		Total	of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	ED 2.3 Children Book Trust/ Theatre Group —		(2.80)	(—)	(10.85)	(10.85)	(—)	(—)	(—)	(—)	(2.40)	(2.40)	(—)	(—)
	(i) Children Books Trust		2.80	—	—	—	—	—	—	—	—	—	—	|
	(ii) Children Theatre Group		—	—	10.85	10.85	—	—	—	—	2.40	2.40	—	—
	ED 2.4 Construction of buildings		(3.31)	(0.66)	(190.50)	(189.50)	(1.00)	—	(1.00)	—	(5.49)	(5.49)	(—)	5.49
	(i) Class rooms/Schools buildings		3.31	0.66	15.00	15.00	—	—	—	—	3.00	3.00	—	3.00
	(ii) Science rooms for Govt. Middle Schools		—	—	175.50	174.50	1.00	—	1.00	—	2.49	2.49	—	2.49
	ED 2.5 Qualitative improvements		(393.43)	(110.99)	(581.80)	(455.64)	(131.16)	—	(131.16)	(5.00)	(61.69)	(61.69)	(—)	(—)
	(i) Works experience (Vocationalisation of education)		94.62	26.50	388.10	358.10	30.10	—	30.10	—	43.70	43.70	—	—
	(ii) Strengthening of Science Education													
	(a) Additional post of Science Masters/Mistresses		293.34	82.36	168.63	74.80	93.83	—	93.83	—	10.84	10.84	—	—
	(b) Supply of Science Kits for Govt. Middle Schools		—	—	10.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	—	—
	(c) Replenishment of Science Kits for Govt. Middle Schools		—	—	6.00	6.00	—	—	—	—	1.50	1.50	—	—

(iii) Introduction of Domestic Science in Govt. Middle Schools and Middle Departments of High/Higher Secondary Schools	6.47	2.08	9.07	6.84	2.23	—	2.23	—	0.65	0.65	—	—
B D 2.6 Additional staff for supervision	—	—	68.11	68.11	—	—	—	—	12.72	12.72	—	—
Total ..	1190.05	479.70	2364.53	2237.37	596.52	469.36	596.52	469.36	134.82	134.82	..	5.49

3. Secondary Education (High/Higher Secondary Schools)

ED 3.1 (a) Upgradation of Government Middle Schools to High Standard	425.22	204.89	622.23	—	337.16	—	337.16	—	21.90	—	—	—
(b) Establishment of quality High Schools (Rural)	—	—	—	—	—	—	—	—	35.80	—	—	—
ED 3.2 Implementation of 10+2 Pattern of Education Appointment of teachers/ Supervisory Staff	—	—	2.82	—	2.82	—	2.82	—	—	—	—	—
ED 3.3 Scholarships for poor but brilliant students	12.26	3.78	32.99	—	6.75	—	6.75	—	6.56	—	—	—
ED 3.4 Construction of Buildings—												
(i) Class rooms ..	—	—	2.00	—	2.00	—	2.00	—	—	—	—	—
(ii) Laboratories ..	56.78	—	32.00	—	—	—	—	—	7.50	—	—	7.50
(iii) Extension of existing buildings/construction of new buildings	6.76	11.87	98.00	—	20.00	—	20.00	—	24.00	—	—	24.00
ED 3.5 Improvement Programmes—												
(i) Strengthening of Science Education	(100.07)	(25.13)	(310.22)	(—)	(33.00)	(—)	(33.00)	(—)	(26.84)	(—)	(—)	(—)
(a) Holding of Science Talent Search Exam.	—	—	1.00	—	0.20	—	0.20	—	0.20	—	—	—
(b) Creation of posts of Lab. Attendants	—	—	117.85	—	—	—	—	—	7.89	—	—	—

ANNUAL PLAN- 1979-80
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Head of Development	Minor head of Development/Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78	1977-78	1978-83		1978-79				Proposed outlay (1979-80)			
			Actuals	Actuals	Five-Year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	(ii) Work experience		64.11	13.00	19.77	—	19.77	—	19.77	—	—	—	—	—
	(iii) Other improvement in schools—													
	(a) Introduction of Library service in Govt./High/Higher Secondary Schools		21.68	7.26	64.75	—	7.46	—	7.46	—	5.49	—	—	—
	(b) Improvement of High Schools		—	—	68.00	—	—	—	—	—	8.50	—	—	—
	(iv) Diversification of Courses—													
	(a) Introduction of Home Science in Government High/Higher Secondary Schools		14.28	4.87	16.64	—	5.57	—	5.57	—	1.44	—	—	—
	(b) Introduction of Music in High/Higher Secondary Schools		—	—	12.21	—	—	—	—	—	0.87	—	—	—
	(v) Lavatory and Drinking water facilities for Girls students		—	—	10.00	—	—	—	—	—	2.50	—	—	—
	Total		601.09	245.67	1100.26	—	401.73	—	401.73	—	122.60	—	—	31.50

4. Teachers Education

ED 4.1	Secondary Stage (i) Inservice Training of Teachers	44.35	13.37	57.89	—	17.89	—	17.89	—	10.00	—	—	—
	(ii) State Institute of Education/Science Education	—	—	15.00	—	—	—	—	—	3.00	—	—	—
	Total	44.35	13.37	72.89	—	17.89	—	17.89	—	13.00	—	—	—

5. Adult Education

ED 5.1	Literacy in rural areas (Non-formal Education 15-35 age-group)	5.70	2.58	63.92	53.02	10.90	—	10.90	—	9.87	9.87	—	—
ED 5.2	Production of Literature and follow up material	—	—	3.20	3.20	—	—	—	—	—	—	—	—
ED 5.3	Libraries (Follow up Programme)	—	—	10.82	10.82	—	—	—	—	0.80	0.80	—	—
ED 5.4	Administration and Super- vision	1.79	0.57	0.66	—	0.66	—	0.66	—	2.30	2.30	—	—
	Total	7.49	3.15	78.60	67.04	11.56	—	11.56	—	12.97	12.97	—	—

6. Physical Education , Games and Sports and Youth Services

ED 6.1	Holding of Coaching Camps and Competitions	—	—	7.00	—	1.00	—	1.00	—	1.50	—	—	—
ED 6.2	Creation of posts of D.P. Es.	—	—	177.37	—	38.10	—	22.25	—	9.04	—	—	—
ED 6.3	Starting of Sports Wings	59.69	18.15	56.00	—	4.12	—	19.97	—	4.79	—	—	—
	Total	59.69	18.15	240.37	—	43.22	—	43.22	—	15.33	—	—	—

7. Additional Staff for Direction, Administration and Supervision

ED 7.1	Additional Inspection Staff	—	—	14.27	—	—	—	—	—	2.28	—	—	—
	Total	—	—	14.27	—	—	—	—	—	2.28	—	—	—

ANNUAL PLAN 1979-80
STATEMENT II: SCHEMES
HEAD: GENERAL EDUCATION

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78	1977-78	1978-83		1978-79				Proposed outlay 1979-80			
			Actuals	Actuals	Five Year Plan proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
8. Employment and Promotion Programme														
ED 8.1	Training to 500 Scheduled Caste Graduates as B.EDs		4.95	—	—	—	—	—	—	—	—	—	—	—
ED 8.2	Training to 1500 Scheduled Caste Matriculates as J.B. Ts.		15.89	2.77	8.44	—	8.44	—	8.44	—	—	—	—	—
	Total		20.84	2.77	8.44	—	8.44	—	—	—	—	—	—	—
	Total School Education		2565.43	1007.27	4590.07	3001.92	1349.44	726.24	1349.44	726.24	357.00	203.79	—	46.99

II COLLEGE AND UNIVERSITY EDUCATION

9. Direction and Administration and Supervision

ED 9.1	Strengthening of Educational Administration		—	—	12.00	—	2.00	—	2.00	—	1.59	—	—	—
ED 9.2	Strengthening of Planning Machinery in the Directorate		—	—	2.37	—	—	—	—	—	0.50	—	—	—
	Total		—	—	14.37	—	2.00	—	2.00	—	2.09	—	—	—

10. Assistance to Universities for Non-technical Courses

ED 10.1	Grant-in-aid to Universities		43.84	6.17	312.34	—	12.34	—	12.34	—	56.24	—	—	—
	Total		43.84	6.17	312.34	—	12.34	—	12.34	—	56.24	—	—	—

11. Government Colleges

ED 11.1	Expansion of facilities	..	125.44	36.49	183.11	—	41.75	—	41.75	—	51.75	—	—	45.00
ED 11.2	Improvement of Existing Colleges	..	40.25	18.07	178.51	—	39.00	—	39.00	—	26.32	—	—	6.00
ED 11.3	Development of College Education under U.G.C. sharing scheme	..	4.89	4.89	39.00	—	7.00	—	7.00	—	8.00	—	—	—
ED 11.4	Strengthening of College Administration	..	—	—	5.60	—	1.00	—	1.00	—	0.73	—	—	—
Total		..	170.58	59.45	406.22	—	88.75	—	88.75	—	86.30	—	—	51.00

12. Assistance to Non-Government Colleges

ED 12.1	Grant-in-aid to Non-Government Colleges	..	36.32	2.10	37.66	—	—	—	—	—	4.00	—	—	—
Total		..	36.32	2.10	37.66	—	—	—	—	—	4.00	—	—	—

13. Students Welfare

ED 13.1	Hostels for Government Colleges	..	7.44	1.99	15.82	—	0.82	—	0.82	—	2.50	—	—	2.00
Total		..	7.44	1.99	15.82	—	0.82	—	0.82	—	2.50	—	—	2.00

14. Scholarships

ED 14.1	Scholarships	..	33.57	11.92	79.17	—	14.17	—	14.17	—	15.00	—	—	—
Total		..	33.57	11.92	79.17	—	14.17	—	14.17	—	15.00	—	—	—

15. Other Programmes

ED 15.1	Seminars and Refresher Courses	..	0.14	—	—	—	—	—	—	—	—	—	—	—
Total		..	0.14	—	—	—	—	—	—	—	—	—	—	—

Total University Education		..	292.19	81.63	865.58	—	118.08	—	118.08	—	166.13	—	—	53.00
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III. OTHER PROGRAMMES**16. Art and Culture**

ED 16.1	Establishment and Strengthening of District Libraries	..	10.46	1.69	4.42	—	1.92	—	1.92	—	3.87	—	—	1.62
Total		..	10.46	1.69	4.42	—	1.92	—	1.92	—	3.87	—	—	1.62

17. Languages :

ED 17.1	Development of Language—Hindi, Punjabi & Urdu	..	12.68	4.09	39.25	—	4.25	—	4.25	—	9.00	—	—	—
Total		..	12.68	4.09	39.25	—	4.25	—	4.25	—	9.00	—	—	—

ANNUAL PLAN 1979-80
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs. in lakhs)

Head of Development	Minor head of Development/ Name of the Scheme	Fifth Plan Outlay as finalised October, 1976	1974-78	1977-78	1978-83		1978-79		Proposed outlay (1979-80)					
			Actuals	Actuals	Five Year Plan outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
18. Youth Services and N.S.S.														
ED 18.1	Direction and Administration		6.05	2.84	8.61	—	3.00	—	3.00	—	—	—	—	—
ED 18.2	Punjab Inter University Youth Festival		1.02	0.50	2.50	—	0.50	—	0.50	—	0.50	—	—	—
ED 18.3	Teachers Training Camp for College/Higher Secondary/High Schools		0.26	0.14	1.54	—	0.16	—	0.16	—	0.33	—	—	—
ED 18.4	(a) Youth Leadership Training Camp	}	5.25	1.73	7.10	—	1.00	—	1.00	—	1.30	—	—	—
	(b) Hiking Trekking Mountaineering in high altitude areas				3.70	—	0.50	—	0.50	—	0.87	—	—	—
ED 18.5	Grant-in-aid to Village Youth Clubs		0.15	—	2.41	—	0.21	—	0.21	—	0.50	—	—	—
ED 18.6	Inter State Tour		1.94	0.54	5.50	—	0.60	—	0.50	—	1.20	—	—	—
ED 18.7	Grant-in-aid to College/School Youth Clubs		0.77	0.39	3.50	—	0.50	—	0.50	—	0.60	—	—	—
ED 18.8	Promotion of Adventure Programme		—	—	11.25	—	—	—	—	—	—	—	—	—
ED 18.9	Planning Forums		0.45	0.10	1.14	—	0.28	—	0.28	—	0.20	—	—	—
ED 18.10	N.S.S.		18.28	5.87	42.37	—	7.50	—	7.50	—	7.50	—	—	—
ED 18.11	State Employment Promotion Programme		4.70	—	4.54	—	4.54	—	4.54	—	—	—	—	—
Total			38.97	12.11	96.16	—	18.79	—	18.79	—	13.00	—	—	—
19. Sports and Games														
ED 19.1	Coaching Scheme		27.35	11.16	47.00	—	12.00	—	12.00	—	5.00	—	—	—
ED 19.2	Competition Scheme		10.18	3.02	22.75	—	2.75	—	2.75	—	4.80	—	—	—
ED 19.3	Scholarships		3.98	1.53	10.75	—	0.75	—	0.75	—	2.50	—	—	—

ED 19.4	Construction of Villages and block level playgrounds	3.70	1.35	7.00	—	1.00	—	1.00	—	—	—	—
ED 19.5	Purchase of Sports equipment	19.70	7.39	29.00	—	5.00	—	5.00	—	5.00	—	—
ED 19.6	State Sports Academy	0.58	0.09	7.00	—	—	—	—	—	—	—	—
ED 19.7	Sports Hostels	2.07	1.36	33.50	—	3.50	—	3.50	—	4.70	—	—
ED 19.8	Construction of Sports Complexes (grant-in-aid)	36.00	13.00	70.00	—	10.00	—	10.00	—	13.00	—	—
ED 19.9	Grant-in-aid to Indian mountaineering foundation	0.25	—	—	—	—	—	—	—	—	—	—
ED 19.10	Planning -cum-Research audio visual aids cell	—	—	3.00	—	—	—	—	—	—	—	—
Total		103.81	38.90	230.00	—	35.00	—	35.00	—	35.00	—	—

20 Archives

ED 20.1	Archives	0.52	0.32	30.25	—	0.25	—	0.25	—	0.50	—	—
Total		0.52	0.32	30.25	—	0.25	—	0.25	—	0.50	—	—

21 Revision of District Gazetteers

ED 21.1	Revision of District Gazetteers	0.65	0.40	2.25	—	0.25	—	0.25	—	—	—	—
Total		0.65	0.40	2.25	—	0.25	—	0.25	—	—	—	—

22. Archaeology and Museum

ED 22.1	Conservation of Ancient and Historical Monuments (Office Expenses)	10.45	4.45	25.00	—	0.25	—	5.00	—	5.00	—	—
ED 22.2	Archaeological Operations Excavation and Exploration (Office Expenses)	1.76	0.76	3.00	—	0.80	—	0.80	—	0.40	—	—
ED 22.3	Display Equipment for existing Museum/ Galleries including purchase of Art and antique objects	1.78	0.78	4.00	—	0.80	—	0.80	—	0.80	—	—
ED 22.4	Opening of Museum at Anandpur Sahib, Ropar and Khatkar Kalan	—	—	4.00	—	0.50	—	0.50	—	—	—	—
ED 22.5	Development of the State Archaeological Library	—	—	1.00	—	—	—	—	—	0.10	—	—
ED 22.6	Publication of Archaeological Reports	—	—	1.00	—	—	—	—	—	—	—	—
ED 22.7	Exhibition in the Rural Areas of Punjab	—	—	1.00	—	—	—	—	—	—	—	—

ANNUAL PLAN 1979-80
STATEMENT II : SCHEMES
HEAD : GENERAL EDUCATION

(Rs in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth plain out- Ojay as fiutlay innalisedr, Octobe 1976	1974-78		1978-83		1978-79		Proposed outlay (1979-80)						
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Fore- ign exchange content of total outlay	Capital content of total outlay	
					Total	Of which NMP	Total	Of which MNP	Total	Of which MNP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ED 22.8	Land Scaping Unit		—	—	4.00	—	—	—	—	—	—	—	—	—	
ED 22.9	Strengthening of Archaeology and Museum Department Administrative and other Staff		1.69	0.84	7.90	—	1.50	—	1.50	—	—	—	—	—	
ED 22.10	Equipment and Machinery		—	—	3.00	—	—	—	—	—	0.40	—	—	—	
ED 22.11	Lectures and Conferences		—	—	1.00	—	—	—	—	—	—	—	—	—	
ED 22.12	Canon Park Shed		0.22	0.22	0.10	—	0.10	—	0.10	—	—	—	—	—	
ED 22.13	Transplantation of Paintings		1.00	—	1.00	—	—	—	—	—	0.40	—	—	—	
ED 22.14	Setting up of an Archaeological Laboratory including the Chemical Conservation expenses of Archaeological building antiquities and Museum objects		0.86	0.76	4.00	—	0.70	—	0.70	—	0.40	—	—	—	
ED 22.15	Other schemes		1.38	0.38	—	—	0.60	—	0.60	—	—	—	—	—	
	Total		22.10	7.99	60.00	—	10.00	—	10.00	—	7.50	—	—	—	
23 Promotion of Art and Culture															
ED 23.1	Revival of Folk Song, Dances and Promotion of Drama and performing Arts		—	—	—	—	2.00	—	2.00	—	0.75	—	—	—	
ED 23.2	Sponsoring of Cultural Troupe Artists to other States, Holding of Cultural Musical Seminars/Festival/Competitions, Remunera- tion to experts for giving lectures on Arts and Culture Awards to indigent writer/Artists		—	—	—	—	2.00	—	2.00	—	1.25	—	—	—	
ED 23.3	Grant-in-aid to Institutions engaged in the promotion of Art and Culture		—	—	—	—	—	—	—	—	1.00	—	—	—	
	Total		8.91	1.93	24.00	—	4.00	—	4.00	—	3.00	—	—	—	
	Grand Total		4327.00	3055.72	1156.32	5941.98	3001.92	1541.98	726.24	*1541.98	726.24	595.00	203.79	—	101.61

*The Anticipated expenditure is under consideration and likely to be reduced

TECHNICAL EDUCATION—

1. Direction and Administration

TE 1.1	Strengthening of Directorate	—	—	5.30	—	0.80	—	0.20	—	0.80	—	—	—
	Total	—	—	5.30	—	0.80	—	0.20	—	0.80	—	—	—

2. Engineering College (Private)

TE 2.1	Diversification of Course at TIET, Patiala	—	—	15.00	—	—	—	—	—	0.40	—	—	—
TE 2.2	Sandwich Degree Course in Textile Technology, TIET, Patiala	—	—	10.00	—	—	—	—	—	0.40	—	—	—
TE 2.3	Diversified Degree Course in Electronics & Electrical Communication at GNEC, Ludhiana	—	—	8.00	—	—	—	—	—	0.80	—	—	—
TE 2.4	Diversified sandwich type Degree Course in Production Engg. at GNEC, Ludhiana	—	—	7.00	—	—	—	—	—	0.40	—	—	—
TE 2.5	Production/Service-cum-Training Centre in Engg. Colleges	—	—	4.00	—	—	—	—	—	0.40	—	—	—
TE 2.6	Part-time Degree Course in Engg. Colleges	—	—	4.00	—	—	—	—	—	0.40	—	—	—
TE 2.7	Revision of Staff structure in Engg. Colleges	—	—	4.00	—	—	—	—	—	0.40	—	—	—
TE 2.8	Faculty Exchange Programme & Visiting Professors	—	—	2.00	—	—	—	—	—	0.40	—	—	—
TE 2.9	Consultancy Service in Engg. Colleges	—	—	2.00	—	—	—	—	—	0.40	—	—	—
TE 2.10	Implementation of Credit system in Engg. Colleges	—	—	2.00	—	—	—	—	—	0.40	—	—	—
TE 2.11	Modernisation of Equipment	—	—	11.00	—	1.00	—	1.00	—	1.60	—	—	—
TE 2.12	Replacement of obsolete equipment	—	—	6.00	—	—	—	—	—	0.40	—	—	—
TE 2.13	Diversified Degree Course in Electronics & Communication TIET, Patiala	—	—	4.80	—	2.80	—	2.50	—	0.80	—	—	—
TE 2.14	Creation of post of Training-cum-Placement Officer in Engg. Colleges	—	—	0.52	—	0.52	—	0.17	—	—	—	—	—
	Total	—	—	80.32	—	4.32	—	3.67	—	7.20	—	—	—

3. Government Polytechnics

TE. 3.1	1-Year Post Diploma Course in Dairy Engg. at G.P., Amritsar	—	—	7.30	—	—	—	—	—	0.80	—	—	0.80
TE 3.2	1-Year Post Diploma Course in Tel. Technology at G.P. Hoshiarpur	—	—	5.00	—	—	—	—	—	0.40	—	—	0.40

ANNUAL PLAN —1979-80
STATEMENT II : SCHEMES
HEAD : TECHNICAL EDUCATION

(Rs. in lakhs)

Head of Development	Minor head of Development/ Name of the Scheme	Fifth Plan Outlay as finalised in October 1976	1974-78		1977-78		1978-83		1978-79		Proposed Outlay (1979-80)			
			Actuals	Actuals	Five Year Plan Outlay Proposed		Approved Outlay		Anticipated expenditure		Total	Of which MNP	Foreign exchange contents of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
TE 3.3	1-Year Post Diploma Course in Heat Treatment at G.P., Batala		—	—	6.50	—	—	—	—	—	0.40	—	—	0.40
TE 3.4	Diversified Diploma Course in Electronics in Electrical Communication at G.P., Hoshiarpur		—	—	5.08	—	2.08	—	2.08	—	0.40	—	—	—
TE 3.5	Diploma Course in Commercial Practice at G.P. Hoshiarpur		—	—	2.65	—	1.25	—	1.25	—	0.25	—	—	—
TE 3.6	Diversified Post Diploma Course in Refrigeration & Air conditioning at G.P., Amritsar		—	—	3.45	—	0.85	—	0.35	—	0.15	—	—	—
TE 3.7	Production-cum-Training Centre at Govt. Poly., Amritsar		—	—	10.00	—	—	—	—	—	2.00	—	—	0.80
TE 3.8	Service-cum-Training Centre at G.P., Batala		—	—	4.00	—	—	—	—	—	0.40	—	—	0.40
TE 3.9	Setting up Government Polytechnic at Bhatinda		—	—	16.00	—	—	—	—	—	4.00	—	—	4.00
TE 3.10	Part-time Civil/Elect./Mech/Engg. Diploma Course at Government Polytechnics, Batala/Hoshiarpur/Amritsar		—	—	8.58	—	0.58	—	0.50	—	0.96	—	—	—
TE 3.11	Revision of staff structure		—	—	2.00	—	—	—	—	—	0.16	—	—	—
TE 3.12	Modernisation of equipment		—	—	9.60	—	1.60	—	1.60	—	1.60	—	—	—
TE 3.13	Replacement of obsolete equipment		—	—	4.00	—	—	—	—	—	0.40	—	—	—
	Total		—	—	84.16	—	6.36	—	5.78	—	11.92	—	—	6.80

4. Private Polytechnics

TE 4.1	Advance level Diploma Course in Printing Technology at T.P. Patiala			20.00	—	—	—	—	—	3.60	—	—
TE 4.2	3-Year Architectural Assistantship course at T.P. Patiala	—	—	7.00	—	—	—	—	—	0.60	—	—
TE 4.3	Diversified 3-Year Diploma Course in Plastic & Rubber Technology at GNEC, Ludhiana	—	—	6.00	—	—	—	—	—	0.60	—	—
TE 4.4	Diversified 3-Year Diploma Course in Tool & Die Making Technology at GNEC, Ludhiana	—	—	10.00	—	—	—	—	—	0.40	—	—
TE 4.5	1-Year Post Diploma Course in Electronics at MC, Poly, Jullundur	—	—	2.50	—	—	—	—	—	0.60	—	—
TE 4.6	1-Year Post Diploma Course in Hospital Engg. at T.P., Patiala	—	—	2.00	—	—	—	—	—	0.40	—	—
TE 4.7	AMIE Course at GNEC, Ludhiana	—	—	1.50	—	—	—	—	—	0.25	—	—
TE 4.8	PTD Course in Civil Engg. at M. C. Jullundur	—	—	1.00	—	—	—	—	—	0.15	—	—
TE 4.9	Revision of staff structure	—	—	2.00	—	—	—	—	—	0.20	—	—
TE 4.10	Modernisation of equipment	—	—	7.20	—	1.20	—	1.20	—	1.20	—	—
TE 4.11	Replacement of obsolete equipment	—	—	3.00	—	—	—	—	—	0.40	—	—
TE 4.12(a)	PTD Course in Electrical & Civil Engg. at T. P., Patiala	—	—	0.80	—	0.80	—	0.50	—	—	—	—
(b)	PTD Course in Mechanical Engg. at GNEC, Ludhiana	—	—	0.42	—	0.42	—	0.42	—	—	—	—
TE 4.13	AMIE Course at T.P. Patiala	—	—	0.45	—	0.45	—	0.15	—	—	—	—
Total		—	—	63.87	—	2.87	—	2.27	—	8.40	—	—

5. Industrial Training Schemes

TE 5.1(a)	Introduction of new courses at G.P. for Women Jullundur	—	—	12.00	—	4.00	—	3.60	—	1.00	—	0.25
(b)	Starting of Evening Classes at G.P. for Women, Jullundur	—	—	3.00	—	—	—	—	—	0.50	—	—
TB 5.2 (a)	Modernisation of building/Machinery equipment & Lib. at G.I. of Garment Technology, Amritsar	—	—	9.00	—	—	—	—	—	1.00	—	0.25
(b)	Starting of 2nd shift at G.I. of Garment Technology, Amritsar	—	—	3.00	—	—	—	—	—	0.50	—	—

ANNUAL PLAN—1979-80
STATEMENT II : SCHEMES

HEAD : TECHNICAL EDUCATION

(Rs. in lakhs)

Head of Development	Minor head of Development/Name of the Scheme	1974—78		1977-78		1978—83		1978-79				Proposed outlay (1979-80)			
		Fifth Plan Outlay as finalised in October, 1976		Actuals		Five-year Plan outlay Proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign change content of total outlay	Capital content of total outlay
		Total	Of which MNP	Total	Of which MNP	Total	Of which MNP	Total	Of which MNP						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
TE 5.3(a)	Modernisation of Old Machinery/equipment/Library at Punjab Institute of Textile Technology, Amritsar	—	—	—	10.00	—	—	—	1.80	—	1.00	—	—	0.25	
(b)	Starting of 2nd shift at Punjab Instt. of Textile Tech., Amritsar	—	—	—	3.00	—	—	—	—	—	0.50	—	—	—	
TE 5.4	Modernisation of building/machinery/equipment/Library at Govt. Institute of Textile Chem. & Knitting Technology, Ludhiana	—	—	—	25.00	—	2.00	—	1.80	—	2.00	—	—	1.00	
TE 5.5	Modernisation of building/machinery/equipment & Library at Government Taunung Institute, Jullundur	—	—	—	27.00	—	2.00	—	1.80	—	1.50	—	—	0.50	
Total		—	—	—	92.00	—	10.00	—	9.00	—	8.00	—	—	2.25	
6. Scholarships															
TE 6.1	Degree Students of Engineering Colleges	—	—	—	1.43	—	0.43	—	0.43	—	0.54	—	—	—	
TE 6.2	Diploma Students of Government Polytechnics	—	—	—	1.60	—	0.60	—	0.60	—	0.66	—	—	—	
TE 6.3	Diploma Students of Private Polytechnics	—	—	—	1.97	—	0.97	—	0.97	—	1.10	—	—	—	
Total		—	—	—	5.00	—	2.00	—	2.00	—	2.30	—	—	—	

7. Faculty Development

TE 7.1	Training Reserve :—												
	(a) Engineering Colleges	..	—	—	2.00	—	—	—	—	—	0.08	—	—
	(b) Government Polytechnics	..	—	—	3.00	—	—	—	—	—	0.09	—	—
	(c) Private Polytechnics	..	—	—	2.00	—	—	—	—	—	0.08	—	—
TE 7.2	Purchase of Teaching Aids—												
	(a) Government Polytechnics	..	—	—	3.00	—	1.00	—	1.00	—	0.30	—	—
	(b) Private Polytechnics	..	—	—	3.35	—	0.75	—	0.75	—	0.25	—	—
TE 7.3	Quality improvement programme	..	—	—	2.00	—	2.00	—	2.00	—	—	—	—
TE 7.4	Training in T.T.T.I.—												
	(a) Government Polytechnics	..	—	—	0.30	—	0.30	—	0.30	—	—	—	—
	(b) Private Polytechnics	..	—	—	0.30	—	0.30	—	0.30	—	—	—	—
	Total	..	—	—	15.95	—	4.35	—	4.35	—	0.80	—	—

8. Other Programme

TE 8.1	Students amenities—												
	(a) Engineering Colleges	..	—	—	4.00	—	—	—	—	—	0.12	—	0.12
	(b) Government Polytechnics	..	—	—	4.40	—	0.40	—	0.40	—	0.16	—	0.16
	(c) Private Polytechnics	..	—	—	4.10	—	0.10	—	0.10	—	0.12	—	0.12
TE 8.2	Development of Libraries—												
	(a) Engineering Colleges	..	—	—	2.20	—	0.20	—	0.20	—	0.15	—	—
	(b) Government Polytechnics	..	—	—	2.40	—	0.40	—	0.40	—	0.30	—	—
	(c) Private Polytechnics	..	—	—	2.40	—	0.40	—	0.40	—	0.25	—	—
TE 8.3	Book Bank for poor students—												
	(a) Engineering Colleges	..	—	—	2.20	—	0.20	—	0.20	—	0.15	—	—
	(b) Government Polytechnics	..	—	—	2.40	—	0.40	—	0.40	—	0.30	—	—
	(c) Private Polytechnics	..	—	—	2.20	—	0.20	—	0.20	—	0.25	—	—
TE 8.4	Development of Campus—												
	(a) Engineering Colleges	..	—	—	4.00	—	—	—	—	—	0.15	—	0.15

ANNUAL PLAN 1979-80
STATEMENT II : SCHEMES
HEAD : TECHNICAL EDUCATION

(Rs in lakhs)

Head of Development	Minor Head of Development/ Name of the scheme	Fifth Plan Outlay as finalised in October, 1976	1974-78		1977-78		1978-83		1978-79		Proposed outlay (1979-80)			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign Exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	(b) Government Polytechnics		—	—	4.00	—	—	—	—	—	0.30	—	—	0.30
	(c) Private Polytechnics		—	—	4.00	—	—	—	—	—	0.25	—	—	0.25
	(d) Staff Quarters		—	—	2.00	—	2.00	—	2.00	—	—	—	—	—
	Total		—	—	40.30	—	4.30	—	4.30	—	2.50	—	—	1.10
	9. Employment Programme													
TE 9.1	Training to Scheduled Castes in Diploma Courses		—	—	0.40	—	0.30	—	0.20	—	0.08	—	—	—
	Grand Total		125.25	71.91	24.54	387.30	—	35.30	—	31.77	—	42.00	—	10.15
PUBLIC I. MEDICAL EDUCATION AND RESEARCH														
HEALTH AND SANITATION														
1. Direction and Administration :														
MD 1.1	Strengthening of Office of D.R.M.E. Punjab		0.88	0.31	2.40	—	0.40	—	0.40	—	0.30	—	—	—
	Total		0.88	0.31	2.40	—	0.40	—	0.40	—	0.30	—	—	—
2. Medical Relief:														
MD 2.1	Expansion and Improvement of S.G.T.B Hospital, Amritsar		174.73	79.36	290.30	—	65.30	—	56.80	—	60.45	—	—	52.20

	Expansion and Improvement of Rajinder Hospital, Patiala	—	81.89	34.61	180.00	—	30.00	—	20.00	—	35.30	—	—	32.50
MD 2.3	Expansion and Improvement of T.B. Hospital, Amritsar	—	6.09	2.26	43.20	—	2.50	—	2.00	—	5.10	—	—	2.75
MD 2.4	Expansion and Improvement of T.B. Hospital Patiala	—	4.61	2.22	10.50	—	2.50	—	2.15	—	1.00	—	—	0.50
	Total	—	267.32	118.45	524.00	—	100.30	—	90.95	—	101.85	—	—	87.95
3. Education														
MD 3.1	Expansion and Improvement of Medical College, Amritsar		36.78	20.08	93.50	—	53.50	—	47.45	—	11.60	—	—	11.00
MD 3.2	Expansion and Improvement of Medical College Patiala		43.03	23.79	57.50	—	42.50	—	38.00	—	2.10	—	—	1.70
MD 3.3	Expansion and Improvement of Dental College, Amritsar		4.90	1.83	6.65	—	2.00	—	1.70	—	0.70	—	—	—
MD 3.4	Expansion and Improvement of Dental Wing, Patiala		—	—	10.50	—	—	—	—	—	1.60	—	—	1.00
MD 3.5	Extra Coaching to Scheduled Castes M.B.B.S. students in Medical Colleges		—	—	1.80	—	0.30	—	0.30	—	0.35	—	—	—
MD 3.6	Taking over of Guru Gobind Singh Medical College, Faridkot		—	—	677.00	—	2.00	—	2.00	—	103.00	—	—	70.00
MD 3.7	Grants to Private Medical Colleges		5.00	5.00	40.00	—	—	—	—	—	—	—	—	—
	Total		89.71	50.70	886.95	—	100.30	—	89.45	—	119.35	—	—	83.70
4. Research :														
MD 4.1	Grant for applied Research		2.60	1.00	6.00	—	1.00	—	1.00	—	1.00	—	—	—
	Total		2.60	1.00	6.00	—	1.00	—	1.00	—	1.00	—	—	—
5. Training														
MD 5.1	Augmentation of training facilities for Para-Medical Staff		—	—	60.00	—	—	—	—	—	2.50	—	—	—
MD 5.2	State share of Centrally sponsored Schemes		—	—	5.00	—	—	—	—	—	—	—	—	—
	Total		—	—	65.00	—	—	—	—	—	2.50	—	—	—
Total : Medical Education & Research :			360.51	170.46	1484.35	—	202.00	—	181.80	—	225.00	—	—	171.65

ANNUAL PLAN—1979-80

STATEMENT H : SCHEMES

HEAD: PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Head of Development	Minor Head of the Scheme	Head of Development/Name of the Scheme	Fifth Plan outlay as finalised in October, 1976	1974—78	1977-78	1978—83		1978-79				Proposed Outlay (1979-80)			
				Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital Content of total outlay
						Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
II. PUBLIC HEALTH															
Minimum Needs Programme:															
PH 1.1	Completion and Improvement of Primary Health Centres		119.50	36.85	137.00	137.00	37.00	37.00	37.00	37.00	25.00	25.00	—	25.00	
PH 1.2	Completion and Improvement of Sub-Centres		83.41	29.34	36.00	36.00	36.00	36.00	36.00	36.00	—	—	—	—	
PH 1.3	Establishment of 25 bedded block level Rural Hospitals		21.07	16.78	1081.00	1081.00	24.00	24.00	24.00	24.00	91.50	91.50	—	66.50	
PH 1.4	Opening of Subsidiary Health Centres in Rural Areas		156.15	100.91	1594.35	1594.35	205.00	205.00	173.80	173.80	95.46	95.46	—	10.00	
PH 1.5	Improvement of Subsidiary Health Centres		14.08	3.72	39.50	39.50	6.50	6.50	6.50	6.50	10.00	10.00	—	10.00	
PH 1.6	Establishment of Dental Clinics in each block		11.90	3.26	34.00	34.00	14.00	14.00	12.17	12.17	4.00	4.00	—	2.50	
PH 1.7	Establishment of 25 bedded Rural Hospitals (1/3rd Scheme)		—	—	—	—	—	—	—	—	42.50	42.50	—	42.50	
PH 1.8	Providing specialists teams in Rural Areas		—	—	100.00	100.00	—	—	—	—	10.00	10.00	—	7.50	
Total			406.11	190.86	3021.85	3021.85	322.50	322.50	289.47	289.47	278.46	278.46	—	164.00	
2. Hospitals and Dispensaries:															
PH 2.1	Completion and Improvement of existing District Hospitals		63.96	19.13	35.00	—	35.00	—	35.00	—	—	—	—	—	
PH 2.2	Completion and Improvement of Tehsil and other Hospitals		99.98	21.47	28.00	—	28.00	—	28.00	—	—	—	—	—	
PH 2.3	Opening of new dispensaries in Urban Slum Areas/suitable urban places		15.73	7.46	46.50	—	10.50	—	9.50	—	3.00	—	—	—	

Rural areas of each District (P.K. Project)												
PH 2.5	Improvement of Lady Dufferin Hospital, Patiala	3.65	2.88	2.50	—	2.50	—	2.50	—	—	—	—
PH 2.6	Improvement of Punjab Mental Hospital, Amritsar	6.68	4.01	5.30	—	4.30	—	4.30	—	1.00	—	1.00
PH 2.7	Provincialisation of Local Bodies Hospital, Amritsar	4.89	1.85	26.75	—	1.75	—	1.75	—	2.50	—	—
PH 2.8	Upgradation of existing Hospitals (including Establishment of Hospital at S.A.S. Nagar)	—	—	415.00	—	—	—	—	—	60.00	—	58.00
PH 2.9	Establishment of Intensive Care Units in Distt. level Hospitals	—	—	75.00	—	—	—	—	—	6.00	—	5.00
Total		199.03	58.12	636.05	—	84.05	—	83.05	—	72.50	—	64.00
3. Training Programme :												
PH 3.1	Strengthening of Health and Family Welfare Training Centre at Jullundur (Estt. of Rural Medical Institute)	—	—	1.00	—	1.00	—	1.00	—	—	—	—
Total		—	—	1.00	—	1.00	—	1.00	—	—	—	—
4. Control/Eradication of Communicable Diseases :												
PH 4.1	Operational Cost of Centrally sponsored Schemes (State's share)—											
	(i) T.B.	3.74	1.13	23.30	—	1.50	—	1.50	—	4.40	—	3.40
	(ii) S.T.D. (V.D.)	0.19	—	2.00	—	—	—	—	—	—	—	—
	(iii) National Programme for the Control of visual Impairment and Blindness including Trachoma	11.04	4.77	25.45	—	14.50	—	10.50	—	1.10	—	—
	(iv) Malaria (Urban Spray)	9.02	9.02	50.00	—	35.00	—	25.00	—	3.60	—	2.60
Total		23.99	14.92	100.75	—	51.00	—	37.00	—	9.10	—	6.00
5. Other Programmes :												
PH 5.1	Administrative Re-organisation of the Punjab Health Department	6.47	2.62	17.70	—	9.70	—	7.70	—	0.60	—	—
PH 5.2	Immunisation against Polio	1.68	0.50	1.00	—	1.00	—	1.00	—	—	—	—
PH 5.3	Strengthening of State Health and District Laboratories	3.16	1.50	11.00	—	3.00	—	3.00	—	1.35	—	—
PH 5.4	Strengthening of Drug & Food Standard Control Organisation	—	—	10.00	—	—	—	—	—	2.36	—	—
PH 5.5	Strengthening of Health Statistical Organisation	0.25	0.16	2.50	—	0.50	—	0.50	—	0.34	—	—

ANNUAL PLAN 1979-80

STATEMENT II : SCHEMES

HEAD : PUBLIC HEALTH AND SANITATION

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976	1974-78 Actuals	1977-78 Actuals	1978-83		1978-79				Proposed Outlay (1979-80)			
					Five Year Plan outlay proposed		Approved outlay		Anticipated expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PH 5.6	Organisation of Mass Sterilisation Camps for Scheduled Castes Couples offering of higher incentives		85.87	—	—	—	—	—	—	—	—	—	—	—
PH 5.7	Multipurpose Workers Scheme		7.88	5.56	98.00	—	8.00	—	8.00	—	30.00	—	—	—
PH 5.8	Establishment of Central Medical, Store Depot, Punjab		—	—	20.00	—	0.80	—	0.80	—	4.20	—	—	—
PH 5.9	Replacement of vehicles of Health Department		—	—	20.00	—	—	—	—	—	5.00	—	—	5.00
PH 5.10	Establishment of Health Equipment Maintenance and Repair Unit		—	—	50.00	—	—	—	—	—	6.37	—	—	—
PH 5.11	Expansion of Immunisation Programme		—	—	4.00	—	—	—	—	—	2.62	—	—	—
PH 5.12	Training to Scheduled Castes as Multipurpose Health Workers		0.47	0.47	0.30	—	0.30	—	0.30	—	—	—	—	—
	Total		105.78	10.81	234.50	—	23.30	—	21.30	—	52.84	—	—	5.00
6. Employees State Insurance Corporation														
PH 6.1	E.S.I. Scheme		3.88	1.73	92.20	—	6.50	—	6.50	—	11.10	—	—	—
	Total		3.88	1.73	92.20	—	6.50	—	6.50	—	11.10	—	—	—
	Total: Public Health		738.79	276.44	4086.35	3021.85	488.35	322.50	438.32	289.47	424.00	278.46	—	239.00

ANNUAL PLAN 1979-80

STATEMENT II : SCHEMES

HEAD : HOUSING

(Rs. in lakhs)

Head of Development	Minor Head of Development/ Name of the Scheme	Fifth Plan 1974-78 outlay as finalised in Oct. 1976	1977-78		1978-83		1978-79				Proposed outlay (1979-80)				
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital Content of total outlay	
					Total	Of which MNP	Total	Of which MNP	Total	Of which MNP					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Other Housing Schemes															
HG 2.1	Subsidised industrial housing	..	305.04	34.88	160.00	—	—	—	—	—	40.00	—	—	40.00	
HG 2.2	Hartjan houses	..	150.00	150.00	450.00	450.00	100.00	100.00	100.00	100.00	70.00	70.00	—	70.00	
HG 2.3	Loans for Low Income Group houses	..	271.42	75.00	350.00	—	70.00	—	70.00	—	60.00	—	—	60.00	
HG 2.4	Loans to Government servants	..	516.25	175.00	879.00	—	175.00	—	163.00	—	150.00	—	—	150.00	
HG 2.5	Loans for building houses in urban estates	..	211.65	81.34	238.32	—	—	—	—	—	60.00	—	—	60.00	
HG 2.6	House-sites for landless workers	..	298.69	9.00	—	—	—	—	—	—	..	—	—	—	
HG 2.7	Development of villages under Habitat Programme	..	10.05	—	—	—	—	—	—	—	..	—	—	—	
	Total	..	1763.10	525.22	2077.32	450.00	345.00	100.00	333.00	100.00	380.00	70.00	—	380.00	
3. Other Programmes															
HG 3.1	Contribution to Housing Board	..	727.50	97.50	583.00	—	225.00	—	180.00	—	70.00	—	—	70.00	
	Total	..	727.50	97.50	583.00	—	225.00	..	180.00	—	70.00	—	—	70.00	
4. Police Housing and Jail Buildings															
HG 4.1	Houses for police	..	320.49	90.05	960.00	—	80.00	—	72.00	—	160.00	—	—	160.00	
	Total	..	320.49	90.05	960.00	—	80.00	—	72.00	—	160.00	—	—	160.00	
	Grand Total	..	5041.82	2922.50	734.91	5762.32	450.00	830.00	100.00	720.00*	100.00	1000.00	70.00	—	1000.00

*In addition Rs. 40.00 lakhs have been received as Central plan assistance for repair/reconstruction of houses damaged by floods.

URBAN DEVELOPMENT

UD-1	Urban Estates	..	2269.46	549.00	2612.00	—	500.00	—	280.00	—	400.00	—	—	400.00	
UD-2	Loans to Municipal Committees—														
	(a) Urban water supply sewerage	..	597.13	45.00	3910.00	—	150.00	—	135.00	—	700.00	—	—	700.00	
	(b) Other development works	..	204.40	—	—	—	—	—	—	—	—	—	—	—	
UD-3	Assistance to Improvement Trusts														
	(a) General activities	..	152.00	50.00	141.00	—	50.00	—	45.00	—	15.00	—	—	15.00	
	(b) Allotment of plots to urban harijans	..	—	—	100.00	—	—	—	—	—	15.00	—	—	15.00	
UD-4	Town and Regional Planning														
	(a) Rural sector area planning	} ..	58.54	15.91	108.80	—	20.00	—	18.00	—	18.00	—	—	—	
	(b) Urban sector area planning—New towns														
UD-5	Integrated Urban Development Programme	..	300.00	150.00	1100.00	—	100.00	—	—	—	—	—	—	—	
UD-6	Slum clearance/improvements	..	219.00	54.00	5.80	5.80	—	—	—	—	2.00	2.00	—	2.00	
UD-7	Water Supply and Sewerage Board	..	175.00	175.00	400.00	—	200.00	—	170.00	—	50.00	—	—	50.00	
Total			5750.18	3975.53	1038.91	8377.60	5.80	1020.00	—	648.00	—	1200.00	2.00	—	1182.00

INFORMATION AND PUBLICITY

1. Direction and Administration

IP 1.1	Strengthening of the Department of Public Relations	..	3.22	2.30	20.00	—	3.00	—	3.00	—	3.00	—	—	—
Total			3.22	2.30	20.00	—	3.00	—	3.00	—	3.00	—	—	—

2. Public Exhibition of Films

IP 2.1	Purchase and Production of Films	..	13.13	4.90	39.50	—	6.50	—	6.50	—	6.00	—	—	—
Total			13.13	4.90	39.50	—	6.50	—	6.50	—	6.00	—	—	—

3. Field Publicity

IP 3.1	Field publicity	..	20.83	6.90	55.00	—	9.00	—	9.00	—	9.00	—	—	—
IP 3.2	Audio-broadcasting	..	0.10	—	2.60	—	0.40	—	0.40	—	0.40	—	—	—
IP 3.3	Television scheme	..	6.33	2.00	11.00	—	3.00	—	3.00	—	1.00	—	—	—
Total			27.26	8.90	68.60	—	12.40	—	12.40	—	10.40	—	—	—

ANNUAL PLAN—1979-80

STATEMENT II: SCHEMES

HEAD: INFORMATION AND PUBLICITY

(Rs. in lakhs)

Head of Development	Minor head of Development/ Name of the Scheme	Fifth Plan outlay as finalised in October, 1976	1974—78	1977-78	1978—83		1978-79				Proposed outlay (1979-80)			
			Actuals	Actuals	Five Year Plan outlay proposed		Approved outlay		Anticipated expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4. Song and Drama Services and Photo Services														
IP 4.1	Song and drama services		2.84	1.10	20.60	—	4.00	—	4.00	—	4.00	—	—	—
IP 4.2	Setting up of State Cultural Troupe		5.40	5.40	6.00	—	6.00	—	1.50	—	—	—	—	—
	Total		8.24	6.50	26.60	—	10.00	—	5.50	—	4.00	—	—	—
5. Advertising and Visual Publicity														
IP 5.1	Community Listening		0.27	0.08	0.50	—	0.10	—	0.10	—	0.10	—	—	—
IP 5.2	Exhibitions		27.96	23.47	15.00	—	3.00	—	3.00	—	3.00	—	—	—
IP 5.3	Display Advertisements		12.97	4.67	24.00	—	4.00	—	4.00	—	2.70	—	—	—
	Total		41.20	28.22	39.50	—	7.10	—	7.10	—	5.80	—	—	—
6. Publications														
IP 6.1	Purchase and Production of literature		5.05	2.30	16.80	—	3.00	—	3.00	—	3.00	—	—	—
	Total		5.05	2.30	16.80	—	3.00	—	3.00	—	3.00	—	—	—
7. Information Centre														
IP 7.1	Information Centres		0.88	—	8.00	—	—	—	—	—	—	—	—	—
IP 7.2	Teleprinter lines		2.11	0.95	10.00	—	2.00	—	2.00	—	2.00	—	—	—
	Total		2.99	0.95	18.00	—	2.00	—	2.00	—	2.00	—	—	—

8. Others												
IP 8.1	Wall Paintings	0.02	—	1.70	—	0.50	—	0.50	—	0.30	—	—
IP 8.2	Purchase of Books for the Library at Headquarters	—	—	2.50	—	0.50	—	0.50	—	0.40	—	—
Total		0.02	—	4.20	—	1.00	—	1.00	—	0.70	—	—
9. New Programmes												
IP 9.1	Light and Sound	—	—	31.00	—	—	—	—	—	5.00	—	—
IP 9.2	Feed Back Studies	—	—	0.80	—	—	—	—	—	0.10	—	—
Total		—	—	31.80	—	—	—	—	—	5.10	—	—
Grand Total		96.90	101.11	54.07	265.00	—	45.00	—	40.50	—	40.00	—

LABOUR AND I. LABOUR WELFARE

LABOUR WELFARE 1. Industrial Relations												
LW 1.1	Strengthening of industrial relations machinery and machinery for enforcement of Labour Laws	10.23	4.60	6.00	—	6.00	—	5.40	—	—	—	—
LW 1.2	Strengthening of arbitration machinery	—	—	1.76	—	—	—	—	—	0.20	—	—
Total		10.23	4.60	7.76	—	6.00	—	5.40	—	0.20	—	—
2. Working Conditions and Safety												
LW 2.1	Strengthening of enforcement machinery for Minimum Wage Act, 1948	—	—	11.00	—	—	—	—	—	1.67	—	—
LW 2.2	Strengthening of Factory Inspectorate	—	—	2.64	—	—	—	—	—	0.30	—	—
LW 2.3	Setting up of a safety cell	—	—	3.57	—	—	—	—	—	0.83	—	—
Total		—	—	17.21	—	—	—	—	—	2.80	—	—
3. General Labour Welfare												
LW 3.1	Labour Welfare Centres	—	—	2.00	—	2.00	—	1.80	—	—	—	—
LW 3.2	Setting up of a mobile medical laboratory for examination of industrial workers	—	—	7.39	—	—	—	—	—	0.90	—	—
Total		—	—	9.39	—	2.00	—	1.80	—	0.90	—	—

ANNUAL PLAN—1979-80
STATEMENT II: SCHEMES
HEAD : LABOUR AND LABOUR WELFARE

(Rs. in lakhs)

1	2	3	4	5	1978-83		1978-79				Proposed Outlay 1979-80					
					Fifth Plan outlay as finalised in October, 1976	1974-78 Actuals	1977-78 Actuals	Five Year Plan		Approved Outlay		Anticipated Expenditure		Total	Of which— Foreign Exchange Content of total outlay	Capital content of total outlay
								Outlay proposed	Total	Total	Of which MNP	Of which MNP				
													of which MNP				Total	Of which MNP
6	7	8	9	10	11	12	13	14	15							
4. Research and Statistics																
	LW 4.1	Strengthening of Statistical Section ..	—	—	0.88	—	—	—	—	—	0.10	—	—	—		
		Total ..	—	—	0.88	—	—	—	—	—	0.10	—	—	—		
		Total : Labour Welfare ..	10.23	4.60	35.24	—	8.00	—	7.20	—	4.00	—	—	—		
II. EMPLOYMENT SERVICE																
1. Employment Exchanges																
	EE 1.1	Expansion of employment services ..	11.04	3.80	15.65	—	5.50	—	4.95	—	1.84	—	—	—		
	EE 1.2	Collection of employment market information ..	1.17	0.49	4.08	—	1.00	—	0.90	—	0.16	—	—	—		
	EE 1.3	Vocational Guidance ..	1.01	0.34	0.50	—	0.50	—	0.45	—	..	—	—	—		
		Total : Employment service ..	13.22	4.63	20.23	—	7.00	—	6.30	—	2.00	—	—	—		
III. INDUSTRIAL TRAINING																
1. Craftsmen Training																
	IT (C) 1.1	Conversion of un-popular trades into popular ones ..	24.11	4.50	25.00	—	5.00	—	5.00	—	5.00	—	—	—		
	IT(C) 1.2	Addition to and replacement of tools and equipment ..	20.47	5.50	25.00	—	5.00	—	5.00	—	5.00	—	—	—		
	IT(C) 1.3	Training, seminars and study tours of staff ..	4.69	0.76	5.00	—	1.00	—	1.00	—	1.00	—	—	—		
	IT(C) 1.4	Completion of ITI buildings and construction of I.T.I. Building at Nabha ..	25.55	7.90	40.00	—	10.00	—	8.00	—	8.00	—	—	8.00		

IT(C) 1-5	Training-cum-Placement Cell	1.16	0.52	4.00	—	0.60	—	0.60	—	0.80	—	—
IT(C) 1-6	Apprenticeship Training Wing	0.60	0.12	3.50	—	1.50	—	0.50	—	0.50	—	—
IT(C) 1-7	Mobile Training Centres in rural areas	8.74	3.20	10.10	—	2.50	—	2.50	—	—	—	—
IT(C) 1-8	Consolidation and expansion of Industrial Training Institute, Lalru	4.02	1.85	3.00	—	3.00	—	2.80	—	—	—	—
IT(C) 1-9	Consolidation and expansion of Industrial Training Institute, Baba Bakala	4.86	1.60	3.00	—	3.00	—	2.50	—	—	—	—
IT(C) 1-10	Instructional Centre at Chandigarh	—	—	2.40	—	0.40	—	0.40	—	0.50	—	—
IT(C) 1-11	Modernisation of Industrial Training Institute, Patiala under U.N.D.P./I.L.O. Programme	3.24	1.24	15.00	—	2.00	—	2.00	—	7.00	—	5.50
IT(C) 1-12	Conversion of R.A.T.C./J.T.S./G.I.S. into ITIs and opening of new ITIs in non-represented areas	—	—	100.00	—	—	—	—	—	10.00	—	8.00
IT(C) 1-13	New Apprenticeship Scheme outside the Apprenticeship Act, 1961	5.55	3.40	3.00	—	3.00	—	3.00	—	—	—	—
IT(C) 1-14	Intensive training to I.T.I. trained persons	1.55	0.28	The Schemes have been dropped during the year 1978-79.								
IT(C) 1-15	Intensive training in Television Technology											
IT(C) 1-16	Production of utility articles at ITI Gurdaspur and Ludhiana											
Total		104.54	30.87	239.00	—	37.00	—	33.30	—	37.80	—	21.50

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2. Industrial Schools for Girls

IT(S)2-1	Completion of building of Government Industrial Teachers Training Institute, Jullundur	1.21	0.04	4.50	—	0.50	—	0.25	—	2.00	—	2.00
IT(S)2-2	Construction of new buildings for schools	1.53	—	32.50	—	2.50	—	1.38	—	4.00	—	4.00
IT(S)2-3	Opening of new industrial schools and introduction of additional seats in existing schools	21.70	8.58	33.14	—	8.14	—	8.14	—	2.70	—	—
IT(S)2-4	Opening of new teachers training classes	2.02	0.83	8.54	—	0.90	—	0.90	—	1.00	—	—
IT(S)2-5	Opening of training-cum-production centres	2.14	0.70	5.97	—	0.97	—	0.80	—	1.00	—	—
IT(S)2-6	Study tours, training and re-training, educational study tours and seminars and conferences	1.08	0.50	2.50	—	0.50	—	0.50	—	0.50	—	—
IT(S)2-7	Modernisation and replacement of machinery in schools	—	—	5.00	—	—	—	—	—	2.00	—	—
Total		29.68	10.65	92.15	—	13.51	—	11.97	—	13.20	—	6.00

ANNUAL PLAN—1979-80
STATEMENT II: SCHEMES
HEAD : LABOUR AND LABOUR WELFARE

(Rs. in lakhs)

Head of Development	Minor head of Scheme	Development/Name of the	Fifth Plan 1974—78 Outlay as finalised in October, 1976	1977-78		1978—83		1978-89				Proposed Outlay 1979-80			
				Actuals	Actuals	Five Year Plan Outlay proposed		Approved Outlay		Anti. Expd.		Total	Of which M.N.P.	Foreign Exchange content of total outlay	Capital content of total outlay
						Total MNP	Of which MNP	Total	Of which MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
3. Professional training															
IT(P)3-1	Construction of building for Arts and Crafts Teachers Training Institute at Amritsar		—	—	30.00	—	—	—	—	—	3.00	—	—	3.00	
IT(P)3-2	Starting of Arts and Crafts Teachers Training Institute		2.80	1.78	2.00	—	2.00	—	2.00	—	—	—	—	—	
IT(P)3-3	Training of skilled workers in foot wear at Tanning Institute, Jullundur		0.44	0.28	0.32	—	0.32	—	0.28	—	—	—	—	—	
IT(P)3-4	Training of skilled workers for sports industry		0.79	0.24	0.42	—	0.42	—	0.30	—	—	—	—	—	
IT(P)3-5	Private Arts & Crafts Teachers Training Institute		—	—	0.75	—	0.75	—	0.75	—	—	—	—	—	
	Total		4.03	2.30	33.49	—	3.49	—	3.33	—	3.00	—	—	3.00	
	Total : Industrial Training		138.25	43.82	364.64	—	54.00	—	48.60	—	54.00	—	—	30.50	
	Grand Total		272.88	161.70	53.05	420.11	—	69.00	—	62.10	—	60.00	—	30.50	
1. Education Programme															
WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES	SC 1.1 Pre-matric coaching to students		73.50	16.40	165.40	—	29.00	—	26.10	—	24.00	—	—	—	
	SC 1.2 Grant for the purchase of stationery and books (6th to 8th Class students)		19.95	10.00	143.20	—	20.00	—	18.00	—	22.40	—	—	—	
	SC 1.3 Grant for the purchase of law, medical & engg. books		3.14	0.90	6.18	—	0.90	—	0.81	—	1.00	—	—	—	
	SC 1.4 Training in Stenography		—	—	13.56	—	3.00	—	2.70	—	3.00	—	—	—	
	Total		96.59	27.30	328.34	—	52.90	—	47.61	—	50.40	—	—	—	

2. Economic Uplift

SC 2.1 Subsidy for the purchase of:—

(a) Agricultural land ..	32.00	5.00	78.40	—	8.00	—	7.20	—	15.00	—	—	—
(b) Houses/Wells on land ..	6.41	1.01	15.68	—	1.60	—	1.44	—	3.00	—	—	—
(c) Stamp duty ..	1.14	0.18	2.82	—	0.29	—	0.26	—	0.60	—	—	—
SC 2.2 Technical Training in Industrial trades	24.73	7.37	43.20	—	8.00	—	7.20	—	8.00	—	—	—
SC 2.3 Punjab Backward Classes Land Development & Finance Corporation ..	74.00	64.00	378.48	—	30.00	—	30.00	—	30.00	—	—	30.00
SC 2.4 Punjab Scheduled Castes Land Development and Finance Corporation	188.00	—	—	—	—	—	—	—	—	—	—	—
SC 2.5 Interest free loans/subsidy to Scheduled Castes going abroad for employment	—	—	22.00	—	—	—	—	—	2.00	—	—	—

Total ..	326.28	77.56	540.58	—	47.89	—	46.10	—	58.60	—	—	30.00
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3. Health, Housing and other Programmes

SC 3.1 Legal Aid	0.10	0.02	1.81	—	0.05	—	0.04	—	1.00	—	—	—
SC 3.2 Construction of dharamshalas/chaupals	404.23	30.00	286.96	—	30.00	—	27.00	—	44.00	—	—	—
SC 3.3 Environmental Improvement of Harijan Basties including drinking water wells. ..	359.86	70.35	722.68	—	75.00	—	64.50	—	76.00	—	—	—
SC 3.4 Construction of houses for sweepers/scavengers, flayers and tanners ..	63.25	35.24	382.16	—	30.16	—	27.15	—	30.00	—	—	—
SC 3.5 Opening of creches for the children of working mothers sweepers/scavengers	2.29	1.71	4.00	—	4.00	—	3.60	—	—	—	—	—
Total ..	829.73	137.32	1397.61	—	139.21	—	122.29	—	151.00	—	—	—

4. Welfare of Vimukat Jaties

SC 4.1 Construction of houses for Vimukat gaties	32.00	12.00	103.00	—	15.00	—	13.50	—	15.00	—	—	—
Total ..	32.00	12.00	103.00	—	15.00	—	13.50	—	15.00	—	—	—
Grand Total ..	1885.71	1284.66	254.18	2369.53	—	255.00	—	229.50	—	275.00	—	30.00

ANNUAL PLAN—1979-80
STATEMENT II : SCHEMES
HEAD : SOCIAL WELFARE

(Rs. in lakhs)

Head of Development	Minor head of development/Name of the scheme	Fifth Plan Outlay as finalised in October, 1976	1974—78	1977-78	1978—83		1978-79		Proposed Outlay (1979-80)					
			Actuals	Actuals	Five Year Plan Outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which M.N.P.	Foreign Exchange content of total outlay	Capital content of total outlay
					Total	Of which M.N.P.	Total	Of which M.N.P.	Total	Of which M.N.P.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SOCIAL WELFARE														
1. Direction and Administration														
SW 1·1	Research, Training and Administration	..	0·50	0·20	2·56	—	0·80	—	0·30	—	0·44	—	—	—
	Total	..	0·50	0·20	2·56	—	0·80	—	0·30	—	0·44	—	—	..
2. Family and Child Welfare														
SW 2·1	Assistance to dependant children	..	24·62	15·12	106·00	—	18·00	—	16·80	—	10·00	—	—	—
SW 2·2	Construction of certified School	..	0·60	0·03	8·80	—	—	—	..	—	8·80	—	—	8·80
SW 2·3	Reception-cum-Observation Homes	..	2·38	1·32	2·00	—	2·00	—	1·80	—	—	—	—	—
	Total	..	27·60	16·47	116·80	—	20·00	—	18·60	—	18·80	—	..	8·80
3. Women Welfare														
SW 3·1	Assistance to widows and destitute women	..	160·42	73·49	172·50	—	40·50	—	39·40	—	12·66	—	—	—
SW 3·2	Home for widows and destitute women	..	1·63	0·72	3·58	—	1·20	—	1·10	—	0·30	—	—	—
	Total	..	162·05	74·21	176·08	—	41·70	—	40·50	—	12·96	—	—	..
4. Welfare of Handicapped														
SW 4·1	Scholarships to the Handicapped	..	0·85	0·20	1·38	—	0·50	—	0·45	—	0·10	—	—	—
SW 4·2	Supply of prosthetic aid to handicapped	..	0·60	0·15	2·26	—	0·50	—	0·45	—	0·44	—	—	—

SW 4.3	Home for mentally retard Children	..	4.00	2.22	1.50	—	1.50	—	0.90	—	—	—	—	—
SW 4.4	Assistance to victims of chronic diseases	..	2.80	1.20	1.50	—	1.50	—	1.00	—	—	—	—	—
SW 4.5	School for Blinds	..	6.71	1.12	—	—	—	—	—	—	—	—	—	—
Total		..	14.96	4.89	6.64	—	4.00	—	2.80	—	0.54	—	—	—
5. Eradication of Beggary														
SW 5.1	Eradication of Beggary	..	2.76	0.59	3.50	—	3.50	—	0.70	—	—	—	—	—
Total		..	2.76	0.59	3.50	—	3.50	—	0.70	—	—	—	—	—
6. Other Programmes														
SW 6.1	Grant-in-aid to voluntary Organisations	..	3.97	—	7.16	—	1.00	—	1.00	—	1.50	—	—	—
SW 6.2	Grant-in-aid to the PGI for the Blind	..	—	—	7.04	—	—	—	—	—	1.76	—	—	—
Total		..	3.97	—	14.20	—	1.00	—	1.00	—	3.26	—	—	—
7. Punjab State Women and Child Welfare Corporation														
SW 7.1	Share capital contribution to Punjab State Women and Child Welfare Corporation	..	—	—	176.00	—	—	—	—	—	44.00	—	—	44.00
Total		..	—	—	176.00	—	—	—	—	—	44.00	—	—	44.00
Grand Total		..	241.49	211.84	96.36	495.78	—	71.00	—	63.90	—	80.00	—	52.80

Nutrition

N. 1	Programme for pre-school children	..	25.85	} 12.00	{ 184.30	184.30	18.00	18.00	} 18.00	18.00	16.00	16.00	—	—	
N. 2	Programme for pregnant and lactating mothers	..	2.87												{ 20.50	20.50	2.00	2.00	{ 18.00	18.00	16.00	16.00	—	—
Total		..	57.49	28.72	12.00	204.80	204.80	20.00	20.00	18.00	18.00	16.00	16.00	—	—

ANNUAL PLAN—1979-80

STATEMENT II SCHEMES

HEAD : OTHER GENERAL ECONOMIC SERVICES

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the scheme	Fifth Plan Outlay as finalised in Oct. 1976	1974—78	1977-78	1978—83		1978-79				Proposed Outlay 1979-80				
			Actuals	Actuals	Five Year Plan Outlay proposed		Approved Outlay		Anticipated Expenditure		Total	Of which MNP	Foreign Exchange content of total outlay	Capital content of total outlay	
			6	7	Total	Of which MNP	Total	Of which MNP	Total	Of which MNP	12	13	14	15	
Other General Economic Services															
Statistics															
ST-1.1	Economics of various means of lift irrigation	0.28	0.28	—	—	—	—	—	—	—	—	—	—	—	—
ST-1.2	Strengthening of statistical machinery at different levels	53.85	30.06	10.50	17.30	—	17.30	—	15.30	—	During 1979-80 this scheme is to be converted into Non-Plan				
ST-1.3	Preparation of Indices of Industrial production and collection of statistics of small-scale industries	6.89	4.42	1.48	1.90	—	1.90	—	1.90	—	Ditto				
ST-1.4	Study of impact on employment in command areas of power projects and their spread effects on employment in adjoining areas	1.64	0.76	0.51	0.60	—	0.60	—	0.60	—	Ditto				
ST-1.5	Additional staff for machine tabulation unit	0.40	—	—	0.20	—	0.20	—	0.20	—	Ditto				
ST-1.6	Estimation of capital formation	—	—	—	14.52	—	—	—	—	—	2.90	—	—	—	
ST-1.7	Strengthening of district statistical offices at headquarters	—	—	—	28.69	—	—	—	—	—	5.90	—	—	—	
ST-1.8	Editing section at headquarters	—	—	—	2.83	—	—	—	—	—	0.60	—	—	—	
ST-1.9	Setting-up of data Bank	—	—	—	10.88	—	—	—	—	—	2.05	—	—	—	
ST-1.10	Purchase of computer timings	—	—	—	1.50	—	—	—	—	—	0.20	—	—	—	
ST-1.11	Surveys and studies	0.87	0.88	—	11.19	—	—	—	—	—	2.05	—	—	—	
ST-1.12	Strengthening of Evaluation section	—	—	—	7.94	—	—	—	—	—	1.50	—	—	—	
ST-1.13	Training of statistical personnel	—	—	—	9.98	—	—	—	—	—	1.80	—	—	—	
Total		63.93	36.40	12.49	107.53	—	20.00	—	18.00	—	17.00	—	—	—	

Planning Machinery (State's share)																				
PM-2.1	Additional staff at headquarters, accommodation and other facilities for them																			
PM-2.2	Planning machinery at the district and block levels																			
PM-2.3	Data processing, maintenance and retrieval equipment																			
PM-2.4	In-service training in planning techniques and procedures																			
PM-2.5	Strengthening and improvement of Planning Board Library																			
PM-2.6	Surveys & studies relating to planning																			
PM-2.7	Seminars and workshops on State Planning and participation in conferences on planning																			
PM-2.8	Miscellaneous programmes																			
Total												88.00	17.00							
GENERAL SERVICES	Grand Total STATIONERY AND PRINTING											63.93	36.40	12.49	195.53	20.00	18.00	34.00		
PT-1.1	(a) Opening of Typewriter workshops at Amritsar, Ferozepur, Hoshiarpur and Sangrur											5.24	2.50	2.80	2.80	2.80				
	(b) Opening of typewriter workshops at Ropar, Faridkot and Kapurthala													5.00				0.50		
PT-1.2	Strengthening of Central Workshops and headquarters at Chandigarh.											1.15	0.46	2.02	0.55	0.55		0.15		
PT-1.3	(a) Extension in Press Building Patiala.											12.37	2.72	6.00	5.00	2.99		1.00		1.00
	(b) Additional machinery and equipment for Government Press and Ticket Printing Unit, Patiala											0.15		33.65	6.65	6.65		4.00	4.00	4.00
	(c) Construction of staff quarters at Patiala.											11.77		2.99				0.23		0.23
PT-1.4	(a) Construction of Govt. Press at S.A.S Nagar											0.68	0.27	14.35	5.00	5.00		6.00		6.00
	(b) Machinery and equipment for Govt. Press at S.A.S Nagar													11.15						
PT-1.5	Additional Staff for Govt. Press Patiala (Ticket printing Unit) and Govt. Press at S.A.S. Nagar													2.33				1.00		
PT-1.6	Apprenticeship scheme for 10 typewriter mechanics											0.27	0.08	0.60	0.12	0.12		0.12		
Total												92.72	31.63	6.03	80.89	20.12	18.11	13.00	4.00	11.23

ANNUAL PLAN—1979-80
STATEMENT II: SCHEMES
HEAD: GENERAL SERVICES

(Rs. in lakhs)

Head of Development	Minor Head of Development/Name of the Scheme	Fifth Plan outlay as finalised in Oct. 1976.	1974-78 Actuals	1977-78 Actuals	1978-83		1978-79				Proposed outlay 1979-80			
					Five Year Plan outlay proposed		Approved outlay		Anticipated Expenditure		Total	Of which MNP	Foreign exchange content of total outlay	Capital content of total outlay
					Total	Of which MNP	Total	Of MNP	Total	Of which MNP				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
GENERAL SERVICES														
Film Corporation :														
2.1	Share capital contribution to Punjab Films and News Corporation	133.50	76.50	3.00	30.80	—	—	—	—	—	—	—	—	—
	Total	133.50	76.50	3.00	30.80	—	—	—	—	—	—	—	—	—
Punjab State Civil Supplies Corporation														
3.1	Share Capital contribution to PUNSUP	235.00	184.00	9.00	147.28	—	10.00	—	9.00	—	10.00	—	—	10.00
	Total	235.00	184.00	9.00	147.28	—	10.00	—	9.00	—	10.00	—	—	10.00
Public Works														
PW-4.1	Divisional Offices and tehsil buildings		209.89	29.56	857.75	—	21.75	—	19.57	—	100.00	—	—	100.00
PW-4.2	Courts		10.20	2.80	49.25	—	5.25	—	4.73	—	9.00	—	—	9.00
PW-4.3	Patwar Khanas		—	—	176.00	—	—	—	—	—	18.00	—	—	18.00
PW-4.4	Police Stations		—	—	176.00	—	—	—	—	—	50.00	—	—	50.00
PW-4.5	Jails		63.56	44.00	701.00	—	63.00	—	56.70	—	100.00	—	—	100.00
PW-4.6	Circuit Houses and Rest Houses		47.08	10.29	111.56	—	35.00	—	31.50	—	5.00	—	—	5.00
	Total	404.81	330.73	86.65	2071.56	—	125.00	—	112.50	—	282.00	—	—	282.00
Administrative Training Institute														
5.1	Establishment of Administrative Training Institute		1.00*	1.00*	63.96	—	5.00	—	4.50	—	11.00	—	—	—
	Total		1.00	1.00	63.96	—	5.00	—	4.50	—	11.00	—	—	—

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*In addition Rs 7.40 lakhs have been released to the institute from Non-Plan side.

STATEMENT III
ANNUAL PLAN—1979-80
Selected Targets and Achievements

Sr. No.	Item	Unit	Fifth Plan target (1974—79)	1974—78 Achievement	1977-78 Achievement	1978-83	1978-79		1979-80 proposed target
						Target proposed	Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9	10
1. Agriculture and Irrigation									
1	Area under forests	.. '000 Hec-tares	33.00	18.45	6.71	37.24	6.80	6.80	6.89
2	Area under Plantations	.. ..						
3	Area under Orchards	.. ..						
4	Area under other horticultural crops	.. ..						
5	Net cropped area	.. ..	NA	NA	NA	NA	NA	NA	NA
6	Gross cropped area	.. ..	6300	6250(P)	6250(P)	6800	6300	6300	6400
7	Area under Minor Irrigation—								
	(a) New Area (Potential added)	.. ..		4	4		3.3	3.3	3.8
	(b) Depreciation on existing works	.. ..		—Nil—					
	(c) Total potential available	.. ..						
	(d) Utilisation (i) Net	.. ..	2910	2850	2850	3030	2910	2910	2940
	(ii) Gross	.. ..						
8	Foodgrains—								
	(i) Kharif—								
	(a) Total area	.. ..	1410	1433	1433	1600	1440	1440	1500
	(b) Irrigated area	.. ..	1160	1174	1174	1330	1217	1217	1260
	(ii) Rabi—								
	(a) Total area	.. ..	2990	3040	3040	3100	3045	3045	3000
	(b) Irrigated area	.. ..	2410	2508	2508	2430	2498	2498	2460
	Foodgrains (Total)—								
	(a) Total area	.. ..	4400	4473	4473	4700	4485	4485	4500
	(b) Irrigated area	.. ..	3570	3682	3682	3760	3715	3715	3720
9	Area under Commercial crops								
	(Crop-wise)								
	Cotton								
	(a) Total	.. '000 Hec.	590	606	606	650	600	600	620
	(b) Irrigated Area	.. ..	590	594	594	640	592	592	600
	Sugar cane (Gur)								
	(a) Total	.. ..	140	116	116	125	125	125	125
	(b) Irrigated Area	.. ..	120	104	104	120	115	115	115
	Total Oil seeds								
	(a) Total	.. ..	350	299	299	375	320	320	340
	(b) Irrigated Area	.. ..	180	150	150	225	145	145	150

Sr. No.	Item	Unit	Fifth Plan target (1974-79)	1974-78 Achievement	1977-78 Achievement	1978-83	1978-79		1879-80
						Proposed Target	Target	Anticipated Achievement	Proposed Target
1	2	3	4	5	6	7	8	9	10
10	High Yielding Varieties Seed distributed (crop-wise)	..							
	(i) Wheat	.. Tonnes	7,000	2,800	2,800	7,500	5,000	3,400	5,000
	(ii) Paddy	.. "	800	1,200	1,200	4,000	2,000	1,950	2,600
	(iii) Maize	.. "	400	273	273	500	500	151	500
	(iv) Bajra	.. "	30	29	29	100	100	10	100
11	Area Consolidated	.. '000 Hec.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
12	Total Number of markets at Mandi level	Nos.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
13	No. of Regulated Markets	.. Nos.	115	109	109	115	110	110	N.A.
14	No. of grading Units	.. Nos.							
15	No. of Sub-market yards developed	Nos.							
16	Storage capacity available:	Nos.							
	(i) State Sector								
	(ii) Co-operative	..							
	(iii) State Warehousing Corpn.	..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	(iv) Others	..							
17	Agri. Implements distributed through Agro-Industries Corpn.	Nos.							
	(i) In pump sets								
	(ii) Power Tillers								
	(iii) Tractors								
II. Area under Major and Medium Irrigation									
	(a) New area (Potential) (at the end of the year)	'000 Hectares		349.5	21.5 (additional)	615.5	388.5	375.5	422.0
	(b) Total Potential available	"					Not yet worked out		
	(c) Utilisation— (at the end of the year)								
	(i) Net	"							
	(ii) Gross	..		344.5	21.5 (additional)	..	384.5	371.5	..
III. Power									
	(i) Installed capacity (at the end of the year)	(MW)	1354	1245	298	1800	1550	1544	1556
	(ii) Electricity generated (During the year)	(MKWH)	5104	3339	3339	7130	5104	4749	5433
	(iii) Electricity sold	(MKWH)	3306	2621	2621	5633	3306	3752	4292
	(iv) Transmission lines (220 KV and above)	Km	1429	947	947	1073	948	950	955

Serial No.	Item	Unit	Fifth Plan Target (1974-79)	1974-78 Achievement	1977-78 Achievement	1978-83 Target proposed	1978-79		1979-80 Proposed target
							Target	Anticipated achievement	
1	2	3	4	5	6	7	8	9	10
v Rural Electrification—									
(a)	Villages electrified	Nos.	All the 12126 villages	5048	All the villages stand electrified as on may 1976	—	—	—	—
(b)	Pumpsets energised by electricity	Nos.	1,50,000	66,949	28,772	149500	37500	32000	30000
(c)	Tubewells energised by electricity	Nos.							
IV. Transport —									
(1) Roads (at the end of the year)									
1. State Highways— (Km)									
(a)	Surfaced		1950	1900	—	1900	1900	1900	1900
(b)	Unsurfaced		—	—	—	—	—	—	—
(c)	Total		1950	1900	—	1900	1900	1900	1900
2. Major District Roads — (Km)									
(a)	Surfaced		2150	2100	—	2100	2100	2100	2100
(b)	Unsurfaced		—	—	—	—	—	—	—
(c)	Total		2150	2100	—	2100	2100	2100	2100
3. Other District Roads— (Km)									
(a)	Surfaced		2373	2346	6**	2506	2369	2369	2394
(b)	Unsurfaced	..	—	—	—	—	—	—	—
(c)	Total	..	2373	2346	6**	2506	2369	2369	2394
4. Village Roads— (Km)									
(a)	Surfaced		23886	21246	1646**	25246	23886	23246	23886
(b)	Unsurfaced	..	—	—	—	—	—	—	—
(c)	Total		23886	21246	1646	25246	23886	23246	23886
5. Total Roads— (Km)									
(a)	Surfaced		30359	27592	1652	31752	30255	29615	30280
(b)	Unsurfaced		—	—	—	—	—	—	—
(c)	Total		30359	27592	1652	31752	30255	29615	30280
6.	Villages not connected by roads	(Nos.)	—	1785	@	—	—	385	—
7. Vehicles owned by State Transport Undertakings/Corporations—									
(a)	Punjab Roadways (Fleet of buses at the end of the year)	Nos.	—	2171	70**	2681	2271	2271	2321

*Should correspond to Census villages.

**During the year

@1036 villages were connected with link roads

Serial No.	Item	Unit	Fifth Plan Target (1974-79)	1974-78 Achievement	1977-78 Achievement	1978-83 Target Proposed	1978-79		1979-80 Proposed Target
							Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9	10
	(b) Pepsu Road Transport Nos. Corporation (Fleet Strength at the end of the year)		..	803	@29	1243	880	880	961
V. Village and Small Industries									
1. Small Scale Industries—									
	(i) Units functioning	(No., 000)		45.6	2.6	60.06	3.0	3.2	3.0
	(ii) Persons employed	(No. lakhs)	..	2.76	0.17	3.81	0.21	0.224	0.21
2. Industrial Estates/Areas—									
	(i) Estates/Areas functioning	(Nos.)	29	12	3	19+6 (Expansion)	2	2	4+4 Expansion
	(ii) Employment	(No. lakhs)	N.A.	0.048	N.A.	0.088	0.005	0.005	0.005
3. Handloom Industries—									
	Production	(M. metres)	..	25.00	0.35	40.00	5.00	5.00	2.00
4. Powerloom Industry—									
	Production	(M. metres)	..	680	20	1000	80	80	80
5. Sericulture—									
	(i) Production of raw-silk	('000kgs)	..	15.30	4.00	57.30	4.00	4.00	4.02
	(ii) Employment	(No. lakhs)	..	0.023	0.008	0.063	0.008	0.008	0.01
6. Coir Industry—									
	(i) Production of yarn	(,000 tonnes)	..	..	..	..	..	..	..
	(ii) Production of other items	(,000 tonnes)	..	..	..	..	..	..	..
	(iii) Employment	(No. lakhs)	..	..	..	..	..	..	..
7. Handicrafts—									
	Employment	(No. lakhs)	..	0.004	0.002	0.016	0.002	0.002	0.002
VI. Education									
A. ELEMENTARY EDUCATION									
1. Classes I-V									
(Age group 6-11),									
(i) Enrolment—									
	(a) Boys	(000)	—	1257	1257	1050	1173	1173	1157
	(b) Girls	"	—	1014	1014	875	977	977	963
	(c) Total	.. "	—	2271	2217	1925	2150	2150	2120
(ii) % age to age group—									
	(a) Boys	"	—	124.03	124.03	103.20	115.61	115.61	113.90
	(b) Girls	"	—	112.00	112.00	92.61	106.83	106.83	104.23
	(c) Total	"	—	118.40	118.4	98.10	111.45	111.45	109.30
2. Classes VI—VIII									
Age group (11-14) (000)									
(i) Enrolment									
	(a) Boys	"	—	394	394	597	..	..	..
	(b) Girls	"	—	242	242	398	..	..	..

@During the the year.

Serial No.	Item	Unit	Fifth Plan Target (1974-79)	1974-78 Achievement	1977-78 Achievement	1978-83 Proposed	1978-79		1979-80 Proposed Target
							Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9	10
	(c) Total	(000)	—	636	636	995	658	658	718
	(ii) Percente to age group—								
	(a) Boys	%	—	66.74	66.74	98.72	—	—	—
	(b) Girls	%	—	46.98	46.98	73.49	—	—	—
	(c) Total	%	—	57.5	57.5	86.80	59.09	59.09	64.02
B. SECONDARY EDUCATION									
Class es-IX—XI									
Age group (14—17)									
	(i) Enrolment								
	(a) Boys	(000)	—	162	162	256	—	—	—
	(b) Girls	"	—	96	96	154	—	—	—
	(c) Total	"	—	258	258	410	283	283	304
	(ii) Percentae to age group—								
	(a) Boys	%	—	28.74	28.74	43.15	—	—	—
	(b) Girls	%	—	19.61	19.61	29.51	—	—	—
	(c) Total	%	—	24.50	24.50	36.77	26.54	26.54	27.91
2. Classes XI—XII									
	(i) Enrolment in general Education—								
	(a) Boys	(000)	—	—	—	—	—	—	—
	(b) Girls	"	—	—	—	—	—	—	—
	(c) Total	"	—	—	—	—	—	—	—
C. ENROLMENT IN VOCATIONAL COURSES —									
	(a) Post-elementary stage	Nos.	—	55438	20268	—	12000	12000	12000
	(b) Post-high school stage	"	—	34052	11503	—	6000	6000	—
D. ENROLMENT IN PART TIME CONTINUATION COURSES—									
	(i) Age group 6—11	Nos.	—	—	—	—	—	—	—
	(ii) Age-group 11—14	"	—	4450	908	78,000	12,000	12,000	3,000
	(iii) Age group 14—16	"	—	—	—	—	—	—	—
	(iv) Age group 16—18	"	—	—	—	—	—	—	—
	(v) Total	"	—	4450	908	78000	12000	12000	3000
E. TEACHERS—									
	(a) Primary Schools	Nos.	—	43947	500	40	—	—	10
	(b) Middle Schools	"	—	21145	1800	10280	—	—	1400
	(c) High/Higher Secondary Schools.	"	—	15478	900	3020	1700	1160	800

Serial No.	Item	Unit	Fifth Plan Target (1974-79)	1974-78 Achievement	1977-78 Achievement	1978-83 Proposed	1978-79		1979-80 Proposed Target
							Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9	10
F. ADULT EDUCATION NUMBER OF PARTICIPANTS—									
	(a) 15—25 years	Nos.	—	—	—	—	—	—	—
	(b) Over 25 years	"	—	—	—	—	—	—	—
	(c) Total	..	—	9246	4271	710000	18000	18000	192000
	(d) Number of Centres—								
	(i) Central	"	—	167	91	200	200	200	—
	(ii) States	"	—	174	98	1400	400	400	1000
G. LIBRARIES—									
	(i) District Libraries	Nos.	—	8	—	—	—	—	One district Library to be opened
	(ii) Block Libraries	"	—	—	—	—	—	—	—
	(iii) Village Libraries	"	—	—	—	—	—	—	—
	(iv) Mobile Libraries	..	—	—	—	—	—	—	—
H. UNIVERSITY EDUCATION									
(Excluding Correspondence Courses)									
	(i) Enrolment—								
	(a) Pre-degree level	(000Nos.)	—	36	36	—	—	43	—
	(b) First degree level	"	—	73	73	—	—	88	—
	(c) Post graduate level	"	—	6	6	—	—	7	—
	Enrolment in Correspondence Courses—								
	Pre-degree level	Nos	—	505	505	—	—	600	—
	First degree level	"	—	947	947	—	—	1010	—
	Post graduate level	"	—	894	894	—	—	990	—
	Technical Education— (Annual intake)								
	Diploma courses	Nos.	1255	1255	1255	1815	1255	1255	1685
	Degree Courses	"	360	360	360	440	360	360	440
VII. Health and Family Welfare									
	(i) Hospitals/Dispensaries—								
	(a) Urban	.. Nos.	20+6 (Up-gradation)	18+3	2	68	8	9	14
	(b) Rural	.. Nos.	688+4+1PHC	388+8	206	1,302	200	250	280

Serial No.	Item	Unit	Fifth Plan Targets (1974-79)	1974-78 Achievement	1977-78 Achievement	1978-83 Target proposed	1978-79		1979-80 proposed Target
							Target	Anticipated Achievement	
1	2	3	4	5	6	7	8	9	10
(ii) Beds—									
	(a) Urban Hospital and Dispensaries	.. Nos.	385	328	8	1,145	95	145	140
	(b) Rural Hospitals and Dispensaries including upgraded PHCs	Nos.	2,848	1,764	960	6,400	800	800	1,690
(iii) Primary Health Centres—									
	(a) Main Centres	.. No.	1	1	—	—	—	—	—
	(b) Sub-Centres	.. No.	172	172	—	—	—	—	—
(iv) Training of Nurses—									
	Institutes	.. No.	} Existing institutions to be continued.						
	Annual Intake	.. No.	}						
	Annual Outturn	.. No.	}						
(v) Training of Auxiliary Nurse-mid-wives—									
	Institutes	.. Nos.	} Ditto						
	Annual Intake	.. Nos.	}						
	Annual Outturn	.. Nos.	}						
(vi) Control of diseases—									
	T.B. Clinics	.. Nos.	—	—	—	—	—	—	—
	Leprosy Control Units	.. Nos.	—	—	—	—	—	—	—
	V.D. Clinics	.. Nos.	4	—	—	—	—	—	—
	Filaria Units	..	—	—	—	—	—	—	—
	S.E.T. Centres	.. Nos.	—	—	—	—	—	—	—
(vii) Maternity and Child Welfare Centres—									
(viii) Medical Education—									
	Medical Colleges	.. Nos.	..	5	5	5	5	5	5
	Annual admissions	.. Nos.	400	400	400	460	400	400	400
	Annual Outturn	.. Nos.	390	390	390	450	390	390	390
(ix) Family Welfare—									
	(1) Rural F.W. Centres	.. No.	3	3	3	} Not yet fixed by Government of India			
	(2) District F.W. Bureaus	.. No.	—	—	—	}			
	(3) City F.W. Centres	No.	—	—	—	}			
	(4) Urban F.W. Centres	.. No.	4	—	—	40	4	5	9
	(5) Post-partum Centres	.. No.	—	—	—	25	Not fixed by G.O.I.		
	(6) Regional F.W. Training Centres	.. No.	—	—	—	—	—	—	—
	(7) ANM Training Schools	.. No.	—	—	—	3	—	3	3

Serial No.	Item	Unit	Fifth Plan Targets (1974-79)	1974-78 Achievement	1977-78 Achievement	1978-83 Target	1978-79 Target	Anti-cipated achievement	1979-80 Proposed target
1	2	3	4	5	6	7	8	9	10
VIII Water Supply and Sanitation									
A. Urban Water Supply Corporation									
Towns—									
(i)	Augmentation of Water/Supply	.. MGD	..	12.48	12.48	40.97	16.04	16.04	20.54
(ii)	Population covered	.. Millions	..	0.28	0.28	0.742	0.401 (Revised)	0.401 (Revised)	0.484
Other towns									
(a) Fresh Schemes—									
(i)	Towns covered	.. No.	15	11	6	25	3	3	5
(ii)	Population covered	.. Millions	0.30	0.068	0.2 (Revised)	1.2	0.3 (Revised)	8.3	0.1
(b) Augmentation Schemes—									
(i)	Towns covered	.. No.	55	46	46	60	(The schemes in progress during 1978-79 will continue in 1979-80.)		
(ii)	Population covered	.. Millions	0.45	(Part population)	(Part Population)	(Part Population)			
B. Urban Sanitation—									
Sewerage Schemes—									
(a) Fresh Schemes—									
(i)	Towns covered	.. No.	15	9	4	20	3	3	4
(ii)	Population covered	.. Millions	0.15	0.055	0.03	(Part Population)	0.03 (Revised)	0.03	0.04
D rainage Schemes—									
(a) Fresh Schemes—									
(i)	Towns covered	.. No.	} This information is covered in 'B' above.						
(ii)	Population covered	.. Millions							
(b) Augmentation Schemes—									
(i)	Towns covered	.. No.	} This information is covered in 'B' above.						
(ii)	Population covered	.. Millions							
(C) Rural Water Supply Under Normal Programme—									
(a) Piped Water Supply—									
(i)	Villages covered	.. No.	} Nil						
(ii)	Population covered	.. Millions							
(b) Bored wells/Tube wells with hand pumps—									
(i)	Villages covered	.. No.	} Nil						
(ii)	Population covered	.. Millions							
(c) Dug wells—									
(i)	Villages covered	.. No.	} Nil						
(ii)	Population covered	.. Millions							

Serial No.	Item	Unit	Fifth Plan Target (1974-79)	1974-78 Achievement	1977-78 Achievement	1978-83 Target Proposed	1978-79 Target	Anticipated Achievement	1979-80 Target	
1	2	3	4	5	6	7	8	9	10	
Under Minimum Needs Programme—										
(a) Piped Water Supply—										
	(i) Villages covered	.. Nos.	1,380	1,150	202	850	150	130	135	
	(ii) Population covered	.. Millions	N.A.	1.11	0.22	1.06	0.18	0.16	0.17	
(b) Bored wells/Tube wells with hand pumps—										
	(i) Villages covered	.. Nos.	—	—	—	—	—	—	—	
	(ii) Population covered	.. Millions	—	—	—	—	—	—	—	
Dug Wells—										
	(i) Villages covered	.. Nos.	—	—	—	—	—	—	—	
	(ii) Population covered	.. Millions	—	—	—	—	—	—	—	
IX. HOUSING										
1.	Integrated subsidised housing scheme for industrial workers	.. No. of houses	3929	390	78	1500	—	—	360	
2.	Low Income Group Housing Scheme— (Housing Board)	.. No. of houses	N.A.	796	268	1,500	1,048*	1,048*	200	
	(Others)	.. Ditto	5141	5,103	1,400	8,500	1,700	1,700	1,456	
	Total	.. Ditto	N.A.	5,899	1,668	10,000	2,748	2,748	1,656	
3.	Middle Income Group Housing Scheme	.. Ditto	228	742	287	850	488*	438*	25	
4.	Rental Housing Scheme— (Housing Board)	.. Ditto	—	—	—	12,092+ 1322 (Flats)	128 (Flats)	128 (Flats)	2444+ 997 (Flats)	
	(Others)	.. Ditto	2500	719	100	—	100	100	160	
	Total	.. Ditto	2500	719	100	12,092+ 1322 Flats	128 (Flats) +100 (houses)	128 (Flats) +100 (houses)	2604+ 997 (Flats)	
5.	Police Housing Scheme	Ditto	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
6.	Slum Clearance housing scheme	.. Ditto	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
7.	Land Acquisition and Development—	No. of Acres area	} 6500	} 4,763	} 518	} 900	} 650	} 650	} —	
	(a) Acquisition	acquired and								developed
	(b) Development	developed								
	Village Housing Projects Scheme	.. No. of houses	—	—	—	—	—	—	—	
9.	Provision of Houses, sites to rural workers in rural areas	No. of families benefited.	1,71,163	All the eligible families in the State have been covered.						—
X. URBAN DEVELOPMENT										
Financial Assistance to Local Bodies										
(a) Renummerative Schemes—										
	(i) Shops and market centres	.. N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	(ii) Other remunerative schemes	.. N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	

*Includes the completion of those houses which were already under construction during the previous years.

Sl. No.	Item	Unit	Fifth Plan Targets (1974-78)	1974-78	1977-78	1978-83	1978-79		1979-80	
				Achievements	Achievements	Targets Proposed	Targets	Anticipated Achievements	Proposed targets	
1	2	3	4	5	6	7	8	9	10	
(b) Non-remunerative schemes										
(i)	Construction of Roads	..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
(ii)	Construction of Parks	..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
(iii)	Beautification schemes	..	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
2.	Town and Regional Planning	..	Preparation of block reports and development plans	40	28	12	72	12	15	15
		..	Preparation of Development Plans of focal villages under IRDP	—	—	18	207	27	45	45
3.	Environmental improvement of slums	..	No. of persons benefited	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
II. Training of Craftsmen Institutions										
(a)	Existing	..	Nos.	29	29	29	29	29	29	29
(b)	New	..	Do	—	—	—	4	2	2	1
	Intake Existing	..	Do	11,772	11,772	96	—	—	—	—
	Outturn Intake	..	Do	—	—	—	—	—	—	—
	New Outturn	..	Do	—	—	—	384	192	192	96
III. Backward Classes—										
(a)	Pre-matric education Incentives:									
(i)	*Scholarships stipends	..	Nos.	2,65,000	32,377	12,920	1,60,000	29,000	29,000	31,000
(ii)	Other incentives like boarding stationery and uniforms	..	No. of students	—	1,35,440	57,579	4,80,000	80,000	80,000	1,00,000
(iii)	Ashram Schools	..	Nos.	—	—	—	—	—	—	—
(b)	Economic Aid—									
(i)	for Agriculture	..	No. of families	1,460	800	100	1,494	160	144	300
(ii)	for Animal Husbandry	..	Ditto	—	—	—	—	—	—	—
(iii)	for Cottage industry	..	Ditto	—	—	—	—	—	—	—
(i)	House-sites	..	No. of families	—	—	—	—	—	—	—
(ii)	Drinking water wells/tanks	..	Nos.	8,300	6,459	1,440	6,000	900	900	1,500

The Scheme of stipend is being implemented by the Education Department on non-plan side. The Pre-metric coaching facilities are provided to Scheduled Castes in High/Higher Secondary schools of the States by engaging three teachers at the monthly remuneration of Rs. 100.00

STATEMENT IV

STATEMENT :
ANNUAL PLAN :

Minimum Needs Programme—Outlay and Expenditure—

Locations Districts/ Towns/ Villages	Name of the Scheme	Fifth Plan Outlay (1974—79)	1974—78 Actuals	1977-78 Actuals	1978—83 Proposed outlay	1978-79		1979-80	
						Approved outlay	Anti- cipated Expendi- ture	Proposed outlay	
1	2	3	4	5	6	7	8	9	
Entire State of Punjab	(i) Elementary Education								
	(a) Primary Education (Classes I-V)	..							
	Age-group 6—11	—	618·59	235·99	697·51	256·88	256·88	55·50	
	(b) Middle Education	..							
	(Classes VI—VIII)	..							
	Age-groups 11—14	..	—	789·73	367·77	2226·37	464·36	464·36	133·82
	(ii) Non-Formal Education—								
	(a) Age-group 6—11	..	—	—	—	—	—	—	0·50
	(b) Age-group 11—14	..	—	0·78	0·33	11·00	5·00	5·00	1·00
	(iii) Adult Education	..	—	—	—	67·04	—	—	12·97
	Total	..	—	1409·10	604·09	3001·92	726·24	726·24	203·79
	*PHI-1 Completion and improvement of PHCs.			119·50	36·85	137·00	37·00	37·00	25·00
	PH 1·2 Completion and Improvement of sub-centres			83·41	29·34	36·00	36·00	36·00	..
	PH 1·3 Establishment of 25 bedded Block Level Rural Hospitals			21·07	16·78	1081·00	24·00	24·00	91·50
	PH 1·4 Opening of Subsidiary Health centres in Rural Areas			156·15	100·91	1594·35	205·00	173·80	95·46
*PH 1·5 Improvement of Subsidiary Health Centres			14·08	3·72	39·50	6·50	6·50	10·00	
PH 1·6 Establishment of Dental Clinic in each Block			11·90	3·26	34·00	14·00	12·17	4·00	
PH 1·7 Establishment of 25 bedded Rural Hospital (1/3rd scheme)			—	—	—	—	—	42·50	
PH 1·8 Providing specialists teams in Rural Areas			—	—	100·00	—	—	10·00	
Total			406·11	190·86	3021·85	322·50	289·47	278·46	
The schemes are located in the Rural areas of the Districts of Hoshiarpur, Patiala Papar, Gurdapsur, Ferozepur, Faridkot, Bhatinda, Sangrur, Amritsar, Jullundur and Kapurthala			1713·63	533·00	3970·00	450·00	405·00	500·00	

*Additional drugs/equipment also provided under these schemes.

IV

1979-80

Targets and Achievements

(Rs. in lakhs)

Physical Targets

Unit	Fifth Plan Target	1974-78 Achievement	1977-78 Achievement	1978-83 Target proposed	1978-79		1979-80 Proposed Target
					Target	Likely achievement	
10	11	12	13	14	15	16	17
Cummulative Enrolment (000) Classes I—V (Age-group 6—11)	2291	2271	2271	1925	2150	2150	2120
Percentage to age-group	113.5	118.4	118.4	98.10	111.45	111.45	109.30
Classes VI—VIII Age-group 11—14	640	636	636	995	658	658	718
Percentage to age-group	59.2	57.50	57.50	86.80	59.09	59.09	64.02
(i) Number of participants (Age-group 15—35)	.. —	9246	4271	2,10,000	18,000	18,000	1,92,000 (Progressive)
(ii) Number of Centres							
(a) Central (No.)	.. —	167	91	200	200	200	—
(b) State (No.)	.. —	174	78	1400	400	400	1000
No.	..	One P.H.C. and 103 class IV posts for 73 P.H.C.s	—	—	—	—	—
No.	172	172	—	—	—	—	—
No.	29	10	5	102	50	50	30
No.	688	388	200	1200	200	200	250
No.	—	—	—	—	—	—	—
No.	80	40	20	45	20	20	10
No.	(Targets included in Scheme PH 1.3)						
Teams	—	—	—	—	—	—	10
No. of Villages (W/s Scheme Commissioned)	1380	1150	202	850	150	130	135

STATEMENT :
ANNUAL PLAN :
Minimum Needs Programmes—

Location: Districts/ Towns/ villages	Name of Scheme	Fifth Plan Outlay 1974—79)	1974—78 Actuals	1977-78 Actuals	1978—83 Proposed outlay	
1	2	3	4	5	6	
Nutrition :						
Faridkot, Feroze- pur, Kapurthala, Gurdaspur, Hoshiarpur and ICDS Blocks, Nur- pur Bedi (Ropar), Lambi (Faridkot), Nathana (Bhatinda)	Nutrition	..	57.49	28.72	12.00	204.80
Rural Areas						
	RD 3.1 Village Roads:					
	(i) Link Roads	2926.13	907.22	2800.00
	(ii) Provincialisation of Zila Prishad Roads	35.91	16.49	200.00
URBAN DEVELOPMENT						
Towns	1. Slum clearance	219.00	54.00	5.80
HOUSING						
Villages	1. Harijan housing scheme	..	250.00	150.00	150.00	450.00

IV

1979-80

Outlays and Expenditure—Targets and Achievements

(Rs. in lakhs)

1978-79		1979-80		Physical Targets							
Approved outlay	Anticipated expenditure	Proposed outlay	Unit	Fifth Plan target	1974-78 achievement	1977-78 achievement	1978-83 Targets proposed	1978-79		1979-80	
								Target	Likely Achievement	Target	Proposed Target
7	8	9	10	11	12	13	14	15	16	17	
20.00	18.00	16.00	Bene.	60788	40402	17000	185000	20386	20000	16000	
1550.00	1378.00	500.00	Kms.	7904	5261	1646	4000	2640	2000	640	
20.00	20.00	45.00	(Funds are being utilized for the improvement of existing roads to bring up to the P.W.D. standard)								
—	—	2.00	NA	NA	NA	NA	NA	NA	NA	NA	
100.00	100.00	70.00	No. of houses	3946	3946 houses under construction	3946 houses under construction	16400	5000	5000	3500	

ANNUAL PLAN 1979-80

STATEMENT V

Centrally-sponsored Schemes—Outlay and Expenditure

(Rs. in lakhs)

Name of the Scheme	Fifth Plan Outlay (1974—79)	1974—78	1977-78	1978—83	1978-79		1979-80	
		Actual Expendi- ture	Actual Expendi- ture	Outlay Proposed	Approved Outlay	Anti- cipated Expendi- ture	Proposed Outlay	
1	2	3	4	5	6	7	8	
Agriculture								
CS. 1	Farmers Training and Education in HYVP-Running of Farmers Training Centre at Patiala, Jullundur, Hoshiarpur, Bhatinda and Ropar	..	24.35	} 10.55	{ 84.00	9.30	9.30	10.40
CS. 2	Grant-in-aid to Khalsa College, Amritsar	..	4.64		{ 8.00	1.57	1.57	1.57
CS. 3	Grant-in-aid to Punjab Agricultural University, Ludhiana	..	4.80		{ 8.00	1.56	1.56	1.57
CS. 4	Intensive Cotton Distt. Programme	..	105.13	55.82	377.00	77.10	64.45	88.06
CS. 5	ICDP Sub-Scheme for production of nucleus seed of cotton in Punjab	..	3.60	0.98	—	0.98	0.98	—
CS. 6	Laying out demonstration plots—package of Improved Practices of Sun-flower	..	0.46	—	—	—	—	—
CS. 7	Co-ordination Programme for Development Measurement Techniques and Estimating methodology relating to crops pilot studies and pre-harvest forecasting of crop yield in Punjab	..	0.34	—	—	—	—	—
CS. 8	Scheme to enable the small farmers in eradication of pests in endemic areas by aero-chemical operation	..	57.65	0.69	22.50	5.70	5.70	5.70
CS. 9	Intensive Pulses Development Programme	..	15.71	7.18	80.00	8.55	6.55	14.89
CS. 10	Coordination Scheme of Sample Survey of Methodological investigation into HYVP	..	2.32	0.89	1.00	0.90	0.81	Shifted to Committed Sector
CS. 11	Scheme for the Development of Oilseeds—Intensive Oilseeds Development Programme	..	8.89	3.25	110.00	13.75	18.25	19.62
CS. 12	Gobar Gas Plants	..	78.55	—	100.00	23.43	—	20.00
CS. 13	Minikit Scheme of Wheat Seed Programme	..	0.20	—	—	0.05	—	—
CS. 14	Timely Reporting—Revised Calendar Operation and improved crop Statistics	..	5.22	2.42	13.00	2.77	2.77	3.19
CS. 15	Scheme for Amendment of Alkali Soils	..	95.73	72.00	3122.00	431.00	268.00	350.00
CS. 16	Scheme for Conducting of Agricultural Census	..	3.33	2.78	4.70	1.71	1.71	0.52
CS. 17	Scheme for Package Programme of citrus including high-density planting	..	0.81	0.81	19.40	1.23	0.95	1.30
CS. 18	Development of Sugarcane	..	7.33	3.68	31.00	5.14	4.70	6.01

ANNUAL PLAN—1979-80

STATEMENT V

Centrally-sponsored Schemes— Outlay and Expenditure

(Rs. in lakhs)

Name of the Scheme	Fifth	1974—78	1977-78	1978-83	1978-79		1979-80	
	Plan Outlay (1974— 79)	Actual expendi- ture	Actual expendi- ture	Outlay proposed	Approved outlay	Anti- cipated expendi- ture	Proposed outlay	
1	2	3	4	5	6	7	8	
CS. 19	Scheme for the Promotion of Scientific Storage of foodgrains of domestic level	..	0.10	0.10	1.50	0.26	0.26	0.30
CS. 20	Scheme for the Promotion of Scientific Storage of foodgrains at domestic level, Principal, Khalsa College, Amritsar	..	0.06	0.06	0.60	0.07	0.06	0.07
CS. 21	Scheme for Promotion of Scientific Storage of foodgrains at domestic level, grant-in-aid to Comptroller, PAU, Ludhiana	..	—	—	0.60	0.06	0.06	0.06
CS. 22	Scheme for the control of white grubs on groundnut	..	—	—	1.58	1.58	—	—
CS. 23	Scheme for the Development of Quality Control of Inputs—Fertilizer Quality Control Laboratories	..	0.35	0.35	16.00	2.72	2.72	3.00
CS. 24	Scheme for the Development of Agricultural Inputs for Insecticides Testing Laboratory	..	—	—	19.70	1.50	1.50	2.00
CS. 25	Expansion of Seed Testing Laboratories	..	—	—	15.60	6.57	2.00	6.80
CS. 26	Scheme for the Pilot Project for Compost making by landless labourers	..	0.05	0.05	—	—	—	—
CS. 27	Scheme for the Pilot Project and Development of Kandi Area in Hoshiarpur District.	..	0.84	0.84	124.90	—	—	1.00
CS. 28	Integrated Rural Development Project—Hoshiarpur District	..	1.00	—	—	—	—	0.50
CS. 29	Scheme for Re-organisation of Agriculture Extension/Administration in the State	..	—	—	120.00	60.00	—	90.00
CS. 30	Scheme for the Provision of Improved grain storage bins to farmers in the Punjab State	..	—	—	150.00	—	5.00	15.00
CS. 31	Scheme for the Provision of financial assistance (in the shape of subsidy) to the farmers for the construction of non-metallic bins for storage of foodgrains	..	—	—	25.00	—	—	5.00
CS. 32	Scheme for the Intensification of farm mechanisation and popularisation of improved agricultural implements	..	—	—	86.50	—	2.76	16.80
CS. 33	Scheme for National Pests	..	—	—	20.00	—	—	—
CS. 34	Scheme for the control of Weeds and loos-smut	..	—	—	205.00	—	—	30.00
CS. 35	Seed Certification Authority	..	—	—	5.00	—	—	5.40
CS. 36	Scheme for the Development of Sugarbeet in Bhogpur Sugar Mills area	..	—	—	—	—	—	6.24
Total	..	..	421.46	162.45	4772.58	657.50	401.66	705.00

ANNUAL PLAN—1979-80

STATEMENT V

Centrally Sponsored Schemes—Outlay and Expenditure

(Rs in lakhs)

Name of Scheme		Fifth Plan	1974-78	1977-78	1978-83	1978-79		1979-80
		Outlay (1974-79)	Actual Expendi- ture	Actual Expendi- ture	Outlay proposed	Approved Outlay	Anti- cipated Expendi- ture	Proposed Outlay
1		2	3	4	5	6	7	8
SOIL CONSERVATION								
CS 1	Strengthening of State soil Survey Organisation	—	0.02	0.02	23.00	4.00	1.84	4.00
CS 2	Soil and Water Conservation in catchments of river valley projects	—	—	—	60.00	—	—	10.00
Total		—	0.02	0.02	83.00	4.00	1.84	14.00
MINOR IRRIGATION								
CS 1	Ground Water Cell (Strengthening of Ground Water and Surface Water Organisation)	—	—	—	43.00	13.00	6.00	9.20

ANNUAL PLAN—1979-80

STATEMENT V

Centrally Sponsored Schemes—Outlay and Expenditure

(Rs. in lakhs)

Name of Scheme	Fifth Plan outlay (1974—79)	1974-78 Actual Expdr.	1977-78	1978—83	1978-79		1979-80	
			Actual Expdr.	Outlay proposed	Approved outlay	Anticipated Expdr.	Proposed Outlay	
1	2	3	4	5	6	7	8	
ANIMAL HUSBANDRY								
CS 1	Estt. of Vigilance Units under Rinderpest Eradication Programme	3.50	1.44	0.65	0.64	0.64	0.64	—
CS 2	Esstt. of Check Posts under Rinderpest Eradication Programme	2.62	0.04	—	1.79	1.79	1.79	—
CS 3	Project on Int. Cross-breeding of indigenous cattle with imported Frozen Semen (F. S. S. Amritsar)	18.75	10.40	2.00	3.75	3.75	3.75	—
CS 4	Centrally Sponsored Scheme for assisting Small/Marginal Farmers and Agrl. Labourers for rearing of Cross-bred heifers	—	24.03	7.83	199.00	20.50	20.42	18.05
CS 5	Expansion and strengthening of Pb. Vety. Vaccine Institute, Ludhiana	—	7.30	3.32	14.00	4.00	3.50	1.50
CS 6	Pilot Studies for estimations of birth and death rates in bovines in Pb.	—	0.48	—	—	—	—	—
CS 7	All India Coordinated Res. Project for Epidemiological Studies on Foot and Mouth	1.80	0.87	0.24	0.27	0.27	0.27	—
CS 8	Foot and Mouth Disease Control Programme—Project for vaccination of cattle and Buffaloes in selected areas	—	2.95	1.70	35.00	5.00	5.00	4.00
CS 9	Strengthening of arrangements for Animal Husbandry Statistics in the State	3.76	1.13	0.68	5.30	0.80	0.80	1.05
CS 10	Central Sector Scheme—Implementation of Poultry, Piggery and Sheep Production programmes through Small/Marginal Farmers and Agrl. Labourers	—	25.06	6.37	809.72	79.33	16.00	97.60
CS 11	Setting up of a State Vety. Council	—	—	—	0.50	—	—	0.15
CS 12	Estimation of Structure and Indices of cost of production of livestock products	—	—	—	2.25	—	—	—
CS 13	Estimation of production—assessment of livestock Dev. Programme of cultivated fodder	—	—	—	2.25	—	—	0.70
CS 14	Setting up of Bull Stations-cum-Semen Banks and L. N. Plants	—	—	—	100.00	—	—	To be indicated by G. O. I.

ANNUAL PLAN—1979-80

STATEMENT V

Centrally Sponsored Schemes—Outlay and Expenditure

(Rs in lakhs)

Name of Scheme	Fifth Plan	1974-78	1977-78	1978-83	1978-79		1979-80	
	Outlay 1974-79	Actual Expdr.	Actual Expdr.	Outlay proposed	Approved Outlay	Anticipated Expdr.	Proposed Outlay	
1	2	3	4	5	6	7	8	
CS 15	Setting up of a Sahiwal Cattle Breeding Farm for production of Cross-bred bulls	—	—	—	16.50	—	—	—
CS 16	Expansion of Govt. Holstein Friesian Cattle Breeding Farm, Matthewara (Ludhiana)	—	—	—	5.00	—	—	1.00
CS 17	Conservation of high yielding Buff. and maintenance of herd Books of Murrah and Nili Buffaloes	—	—	—	20.00	—	—	3.00
CS 18	Evaluation of performance of Buff. bulls, in field conditions	—	—	—	12.50	—	—	2.00
CS 19	Rearing of Male Buff. calves and setting up of mother Bull Farms	—	—	—	6.00	—	—	2.00
CS 20	Grant-in-aid to Pb. Poultry Corporation for the marketing of eggs, Egg Tray Project, Expansion of Feed Compounding Activities, storage of eggs and risk insurance charges etc.	—	—	—	20.00	—	—	10.00
CS 21	Setting up of a Sheep and Wool Dev. Corporation	—	—	—	15.00	—	—	10.00
CS 22	Aid to Pb. Poultry Corporation for transport of Pigs	—	—	—	0.50	—	—	—
TOTAL		30.43	73.70	22.79	1269.97	116.08	52.17	151.05

ANNUAL PLAN—1979-80

STATEMENT V

Centrally-sponsored Schemes—Outlay and Expenditure

(Rs. in lakhs)

Name of Scheme	Fifth Plan	1974-78	1977-78	1978-83	1978-79		1979-80
	Outlay (1974-79)	Actual Expdr.	Actual Expdr.	Outlay proposed	Approved Outlay	Anticipa- ted Expendi- ture	Proposed Outlay
1	2	3	4	5	6	7	8
FISHERIES							
CS 1 Creation of Fisheries Information and Extension Division ..	4.50	2.49	1.95	1.40	1.40	1.40	—
CS 2 J. R. D. P. (Central), Hoshiarpur ..	—	1.25	1.25	—	—	—	—
CS 3 Pilot Project for Intensive Development of Inland Fish Culture in Punjab—Setting up of Fish Farmers Development Agencies in the State ..	—	21.64	17.54	6.77	6.77	6.77	—
Total ..	4.50	25.38	20.74	8.17	8.17	8.17	—
FORESTS							
CS 1 Mixed plantations on waste lands, Panchayat Lands and Forest areas ..	—	41.44	10.66	—	—	—	—
CS 2 Mixed plantations on waste lands, Panchayat lands as Pilot Project ..	—	16.00	11.00	116.00	22.00	22.00	12.50
CS 3 Development of Social Forestry reforestation of degraded forests ..	—	21.05	16.76	154.15	34.15	34.15	30.35
CS 4 Pilot Project on development of Kandi areas of Hoshiarpur District ..	—	9.00	9.00	—	—	—	—
CS 5 Forestry Research on wind-breaks and shelter-belts ..	—	—	—	5.00	0.62	0.62	1.00
CS 6 State share capital of the equity in forest corporation ..	—	—	—	75.00	—	—	—
Total ..	—	87.49	47.42	350.15	56.77	56.77	43.85
COOPERATION							
CS 1 Agricultural stabilisation fund	100.00	19.80	5.00	80.00	10.00	7.00	10.00
CS 2 Assistance for construction of rural godowns by reorganised Primary Agricultural Service Societies	600.00	46.83	46.83	496.71	22.00	127.25	114.33
CS 3 Margin money to the Punjab State Coop. Supply and Marketing Federation for purchase and distribution of fertilizers	250.00	117.00	—	200.00	200.00	—	—
CS 4 Setting up of large size retail outlets	—	6.75	1.35	30.00	5.35	5.35	5.75
CS 5 Distribution of consumers articles in rural areas	—	103.67	103.67	450.00	20.00	200.20	200.00
CS 6 Margin money as share capital contribution to Punjab Handloom Weavers Apex. Coop. Society	—	3.00	3.00	20.00	2.50	2.50	1.50

ANNUAL PLAN—1979-80

STATEMENT V

Centrally sponsored Schemes—Outlay and Expenditure

(Rs. in lakhs)

Name of Scheme	Fifth Plan Outlay (1974-79)	1974-78	1977-78	1978-83	1978-79		1979-80
		Actual Expendi- ture	Actual expendi- ture	Outlay proposed	Approved outlay	Anticipated Expendi- ture	proposed outlay
1	2	3	4	5	6	7	8
CS 7 Margin money as share capital to Punjab Handloom Weavers Co-operative Apex. Society for setting up show rooms- cum- sale centres	—	—	—	10.00	2.00	2.00	5.00
CS 8 Assistance for construction of marketing godowns	—	—	—	15.00	11.25	11.25	—
CS 9 Assistance for setting up small sized retail outlets/Janta shops	—	—	—	10.00	3.90	3.90	4.00
CS 10 Assistance for technical and promotional cell of various apex federations	—	—	—	70.00	2.00	—	14.00
CS 11 Assistance for production-cum-training centres of Handloom Apex Society	—	—	—	5.00	3.00	3.00	2.00
CS 12 Assistance to Punjab Handloom Weavers Apex Co-op. Society for setting up processing units	—	—	—	10.00	—	—	5.00
CS 13 Rehabilitation and Revitalization of weak Co-op. Marketing Societies	—	—	—	25.00	—	—	4.00
CS 14 Margin money to Agri. Service Societies at Focal Points under IRDP for direct procurement and distribution of Agri. inputs	—	—	—	200.00	—	—	—
CS 15 Rehabilitation of Processing Units	—	—	—	20.00	—	—	—
CS 16 Assistance for setting up Service/Repair Centres by the Selected Marketing Societies	—	—	—	10.00	—	—	—
CS 17 Margin-money assistance to State Marketing Federation of Fruit and Vegetable Cooperatives	—	—	—	10.00	—	—	—
CS 18 Assistance to Poultry Cooperatives for strengthening of share capital and setting up manufacturing units	—	—	—	10.00	—	—	—
CS 19 Assistance for preparation of project reports/feasibility studies to Milk-fed and other State Federations	—	—	—	10.00	—	—	—
CS 20 Assistance for providing specialised training to technical managerial personnel of Cooperatives	—	—	—	2.00	—	—	—
CS 21 Share capital participation in Coop. Sugar Factories and Coop. Spinning Mills	—	—	—	220.00	—	—	78.75
Total	950.00	297.05	159.85	1903.71	282.00	362.45	444.33

ANNUAL PLAN—1979-80

STATEMENT V

Centrally Sponsored Schemes Outlays and Expenditure

(Rs. in lakhs).

Name of the Scheme	Fifth Plan Outlay (1974—79)	1974-78	1977-78	1978-83	1978-79		1979-80	
		Actual Expendi- ture	Actual Expendi- ture	Outlay propos- ed	Approved Outlay	Antici- pated Expendi- ture	Proposed Outlay	
1	2	3	4	5	6	7	8	
POWER								
220 KV Switching Station, Dasuya	—	—	—	160.00	—	—	20.00	
INDUSTRIES								
CS 1	10-15 per cent outright grant of subsidy Scheme	125.00	128.49	25.00	150.00	25.00	25.00	30.00
CS 2	Rural Industries Project, Malerkotla	27.25	20.90	8.31	6.42	6.42	6.42	—
CS 3	Rural Industries Project, Hoshiarpur	43.95	15.95	6.64	5.29	5.29	5.29	—
CS 4	Rural Artisan Programme (MFAL), Hoshiarpur	3.50	3.41	1.02	1.00	1.00	1.00	—
CS 5	Rural Artisan Programme (SFDA), Sangrur	—	1.08	0.24	2.40	2.40	2.40	—
CS 6	Engineer Entrepreneurs Programme Interest subsidy	29.30	5.83	1.83	10.00	2.00	2.00	2.00
CS 7	Setting up of Nucleus Cell for updating the census data	1.30	0.27	0.27	3.52	0.70	0.37	0.85
CS 8	Export Production Project	—	31.51	16.53	28.46	28.46	28.46	—
CS 9	Census-cum-survey of Industrial Units	—	—	—	9.30	—	0.30	2.00
CS 10	Rebate on sale of Handloom cloth	—	—	—	5.00	—	—	1.25
CS 11	Processing house for powerlooms	—	—	—	50.00	—	—	12.50
CS 12	District Industries Centres	—	—	—	272.25	—	—	79.25
CS 13	Schemes completed/discontinued during 1974—78	58.59	58.54	—	—	—	—	—
	Total	288.89	265.98	59.84	543.64	71.27	71.24	127.85
EDUCATION								
1.	Taking over of N.F.C. Scheme	—	125.44	34.55	206.11	36.79	36.79	38.84
2.	Social Education Programme—							
	(i) Non-Formal Education in the age-group 15—35	—	2.06	0.64	18.50	3.00	3.00	—
	(ii) Creation of Administrative Structure for Adult Education at State level	—	—	—	—	—	—	2.00
3.	Setting up of an Educational Technology Cell	—	2.35	1.01	14.55	2.46	2.46	—
4.	Setting up of State Survey Unit	—	—	—	1.65	—	—	0.96
5.	National Merit Scholarship scheme	—	8.13	3.20	24.35	4.60	4.60	4.75
6.	National Loan Scholarships scheme	—	18.99	4.00	25.00	5.00	5.00	5.00
	Total	—	156.97	43.40	290.16	51.85	51.85	51.55

ANNUAL PLAN—1979-80

STATEMENT V

Centrally Sponsored Schemes—Outlays and Expenditure

(Rs. in lakhs)

Name of Scheme	Fifth Plan	1974—78	1977-78	1978—83	1978-79	1979-80	
	Outlay (1974—79)	Actual Expendi- ture	Actual Expendi- ture	Outlay proposed	Approved Outlay	Anticipated expendi- ture	Proposed Outlay
1	2	3	4	5	6	7	8
WELFARE OF SCHEDULED CASTES AND BACKWARD CLASSES							
1. Post Matric Scholarships	100.00	132.00	65.00	400.00	60.00	60.00	65.00
2. Girls Hostel	5.00	2.90	0.80	7.50	1.50	1.50	1.50
3. I.A.S. Coaching Centre	15.00	4.75	0.75	15.00	3.00	3.00	3.00
Total	120.00	139.65	66.55	422.50	64.50	64.50	69.50
SOCIAL WELFARE							
1. Functional Literacy for adult women	2.80	0.82	0.82	7.50	1.50	1.05	4.50
2. Children in need of care of protection	5.09	2.46	2.46	14.09	2.09	2.09	3.00
Total	7.89	3.28	3.28	21.59	3.59	3.14	7.50
PUBLIC HEALTH AND SANITATION							
CS 1. Family Welfare Programme	1338.80	999.20	211.39	2107.05	370.20	370.20	426.60
CS 2. National Malaria Eradication Programme (Rural)	268.00	403.65	188.68	1400.00	276.00	276.00	278.00
CS 3. National Malaria Eradication Programme (Urban)	39.53	—	—	155.00	29.00	29.00	30.00
CS 4. National T.B. Control Programme	81.00	14.07	—	49.00	9.00	9.00	10.00
CS 5. National Small-pox Eradication Programme	25.00	23.54	5.89	46.25	8.25	8.25	8.75
CS 6. National Leprosy Control Programme	7.00	2.54	1.08	22.26	2.80	2.80	4.59
CS 7. National School Health Programme	—	0.03	0.03	2.75	0.45	0.45	0.50
CS 8. National S.T.D. (V.D.) Control Programme	12.15	—	—	0.25	—	—	0.06
CS 9. National Programme for the control of visual impairment and Blindness including Trachoma.	10.87	5.47	—	13.92	12.48	12.48	Decision regarding Central share not indicated by G.O.I so for. 0.75
CS 10. Establishment of Psychiatric clinics	2.50	0.19	0.19	10.20	0.60	0.60	0.75
CS 11. Training and Employment of Multipurpose workers	—	3.81	1.42	128.86	25.53	25.53	25.63
CS 12. Strengthening of Combined food and drugs laboratories	—	2.05	2.05	4.00	4.00	—	—
CS 13. Community Health Works Scheme	—	7.58	7.58	—	35.26	35.26	63.84
CS 14*. Improvement of Training facilities in the Existing 4 ANM's Schools	—	—	—	28.15	—	—	6.05
CS 15*. Opening of 3 New ANM's Schools for Health Workers (Female)	—	—	—	33.54	—	—	14.00
CS 16*. Opening of new Basic Training Schools for Health Workers (Male)	—	—	—	7.40	—	—	4.30
CS 17*. Promotional courses for Health Workers (Male and Female)	—	—	—	8.64	—	—	3.44
Grand Total	1784.85	1462.13	418.31	4017.27	773.57	769.57	876.51

*Schemes started in the current year out of the overall plan savings of Centrally sponsored schemes.

ANNUAL PLAN 1979-80

STATEMENT—V

Centrally Sponsored Schemes—Outlays and Expenditure

(Rs. in lakhs) -

Name of Scheme	Fifth Plan Outlay (1974—79)	1974—78	1977-78	1978—83	1978-79		1979-80
		Actual Expendi- ture	Actual Expendi- ture	Outlay proposed	Approved Outlay	Anticipated Expendi- ture	Proposed outlay
1	2	3	4	5	6	7	8
I.S.M. and Homoeopathy :							
CS-18—Assistance to Post-graduate Department in I.S.M.	7.00	3.45	1.08	13.29	2.39	1.39	2.50
CS-19—Establishment of I.S.M. Pharmacies (including Herbal Farms and Drug Testing Laboratories)	10.00	—	—	13.25	—	1.00	2.70
Total ..	17.00	3.45	1.08	26.54	2.39	2.39	5.20
Grand Total ..	1801.85	1465.58	419.13	4043.81	775.96	771.96	881.71
RURAL WATER SUPPLY							
CS-1—Accelerated Rural Water Supply Programme	—	100.00	100.00	Cannot be indicated as there is no information from the Govt. of India as to how much amount will be made available during this period	100.00	100.00	Cannot be indicated as there is no information from the Govt. of India as to how much amount will be made available during this period
Urban Development							
CS-1—Swampy Village Utilisation Schemes	115.00	137.42	87.83	350.00	—	90.00	100.00
CS-2—Conversion of dry latrines into sanitary latrines	25.34	15.48	14.64	100.00	—	9.00	—
CS-3—Setting up of compost plants at Ludhiana, Jullundur and Amritsar	—	—	—	99.00	—	—	50.00
CS-1—Economic Census and Survey	7.53	4.15	3.46	No outlay was proposed by the department as the work of this scheme at state level has been taken up on the directions of Govt. of India.	Original 1.52 Revised 2.75	2.52	Not to be proposed by State Govt. It is to be fixed by the Govt. of India.

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 Date: