



PERFORMANCE BUDGETS

1980-81

SCHOOL EDUCATION
COLLEGIATE EDUCATION
AND
TECHNICAL EDUCATION

GOVERNMENT OF TAMIL NADU

PERFORMANCE BUDGET FOR 1980—81.

SCHOOL EDUCATION

PART A.

Introduction.

The Director of School Education is the major head of the department in-charge of School Education (while the Director of Government Examinations is in-charge of Examinations and the Director of Adult Education and Non-Formal Education of Adult Education and Non-formal Education at School level. The Director of School Education is assisted by 3 Joint Directors 6 Deputy Directors, 2 Personal Assistants, 1 Financial Controller, 1 Administrative Officer, 1 Senior Accounts Officer and other Assistant Directors to look after the special items of work.

2. The Chief Educational Officers at the revenue district level, the District Educational Officers at the Educational district level, Inspectresses of Girls Schools at the circle level (in respect of Girls Schools) and the Deputy Inspectors of Schools at the range level watch the progress and development of School Education in their respective jurisdiction. The Government schools are administered direct by the department. The Inspector of Anglo-Indian School supervises the Anglo-Indian schools in the State and the Inspector of Matriculation Schools supervises the Matriculation schools.

3. The aims and objects of the School Education Department are :—

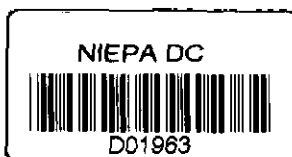
1. To expand schooling facilities and achieve cent per cent enrolment of the pupils of the age groups 6—11 and 11—14 and improve the enrolment of age group 14—17.

2. To improve the quality of education in schools by providing (or assisting in the provision of) adequate school buildings, laboratories, school libraries, play grounds, etc., promoting science education in a sustained manner ; creating additional posts of teachers for the additional enrolment of pupils ; improving the professional competence of school teachers by giving in-service training, etc., improving methods of evaluating the scholastic attainments of pupils and implementing schemes like free supply of midday meals to poor pupils in elementary schools and free supply of books and uniforms to the needy pupils.

3. To provide such incentives as may be necessary for the welfare of students and teachers.

4. The expansion in schooling facilities in Tamil Nadu over the years, will be seen from the following figures :

Year.	Elementary Schools.		High Schools. (including Higher Secondary from 1978-79).	
	Number of schools.	Number of students.	Number of schools.	Number of students.
(1)	(2)	(3)	(4)	(5)
		(in lakhs).		(in lakhs).
1950-51	16,037	18.05	573	3.06
1960-61	22,621	27.52	1,196	6.47
1965-66	30,706	49.22	2,234	12.08
1975-76	32,690	60.99	2,965	14.61
1976-77	33,036	63.13	3,020	17.99
1977-78	33,104	65.85	3,058	18.31
1978-79	33,130	67.46	3,108	17.97
1979-80	33,347	68.35	3,226	20.44



FINANCIAL REQUIREMENTS.

The Financial requirements for the School Education Department for the year 1980-81 are shown below :

Serial number and Nature of Classification.	Accounts 1978-79		Revised Estimate 1979-80.		Budget Estimate 1980-81.	
	Non-Plan.	Plan.	Non-Plan.	Plan.	Non-Plan.	Plan.
(1)	(2)	(3)	(4)	(5)	(5)	(7)
(Rupees in lakhs.)						
<i>I. Programme and Activity classification—</i>						
1. Direction and Administration.	2,60.00	8.16	2,88.89	7.97	3,04.94	14.07
2 Elementary Education ..	83,64.49	4,76.04	94,13.68	1,88.92	97,63.15	6,85.01
3 Midday Meals	4,52.59	21.10	5,11.40	9.99	5,29.05	0.02
4 Secondary Education ..	49,67.73	4,22.28	51,52.27	89.85	54,18.68	1,50.77
5 Higher Secondary Education.	..	3,76.12	9,15.85	12,50.99	10,36.54	8,34.69
6 Teacher Education ..	38.52	11.51	45.15	13.67	49.24	16.65
7 Anglo-Indian Schools, Pre-Primary, etc.	47.44	0.15	51.63	0.12	51.03	0.12
8 Boarding homes and Orphanages.	62.09	..	62.09	..	62.09	..
9 Scholarships and concessions.	15.45	0.40	21.51	11.12	27.52	22.12
10 S.C.E.R.T.	6.27	1.48	9.17	4.26	7.85	7.94
11 Examinations	1,37.81	0.92	1,34.56	..	1,69.14	6.16
12 Adult and Non-formal Education.	1.38	13.14	1.74	1,39.35	1.55	1,61.15
13 Miscellaneous	6.83	2.31	6.40	2.28	6.61	2.24
14 Pension to staff of Non-Government Educational Institutions.	5,61.32	..	7,24.06	..	7,56.87	..
Total	1,49,21.92	13,33.61	1,73,38.40	17,18.52	1,81,84.26	19,00.94
	1,62,55.53		1,90,56.92		2,00,85.20	

Sub. National Systems Unit,
National Institute of Educational
Planning and Administration
17-B, Safdarjung Road, New Delhi-110016
DOC. No. 1963 -
Date 7/12/84

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Serial Number and nature of classification.		Accounts 1978-79.		Revised Estimate 1979-80.		Budget Estimate 1980-81.	
		Non-Plan.	Plan.	Non-Plan.	Plan.	Non-Plan.	Plan.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	

((Rupees in lakhs).)

II. Objective-wise Classification:—

1	Salaries	33,12.03	2,64.93	37,67.50	1,43.18	42,64.91	2,71.99
2	Wages	26.27	21.51	77.57	0.04	79.29	0.04
3	Travel Expenses ..	30.11	6.87	28.22	1.30	28.34	0.98
4	Office Expenses ..	41.10	4.04	38.03	3.28	39.27	3.04
5	Payments for Professional and Special services.	5.63	2.00	6.34	3.00	7.31	3.02
6	Rents	11.52	0.44	15.33	0.73	14.81	0.97
7	Grants-in-aid	1,07,91.55	610.97	1,24,51.52	5,33.54	1,27,55.73	11,84.52
8	Scholarships	15.45	0.40	21.51	11.12	27.52	22.12
9	Buildings	4.14	3,15.25	0.06	5,21.48	3.08	1,91.40
10	Machinery and Equipment.	3.81	6.01	0.93	8.96	1.37	78.19
11	Motor Vehicles	23.85	6.15	35.64	11.95	40.52	3.68
12	Maintenance	1.73	..	1.14	0.01	1.14	0.01
13	Materials and Supplies	75.24	5.51	85.47	22.01	86.65	23.02
14	Inter Account Transfers	(—) 18.06	16.00	(—) 2.00	..	(—) 2.00	..
15	Other Charges	36.23	73.53	82.08	4,57.92	79.45	1,17.96
16	Pensions	5,61.32	..	7,29.06	..	7,56.87	..
	Total	1,49,21.92	13,33.61	1,73,38.40	17,18.52	1,81,84.26	19,00.94
		1,62,55.53		1,90,56.92		2,00,85.20	

Serial number and nature of classification.	Accounts 1978—79		Revised estimate 1979—80		Budget estimate 1980—81	
	Non-plan.	Plan.	Non-plan.	Plan.	Non-plan.	Plan.
	(2)	(3)	(4)	(5)	(6)	(7)
	(Rupees in lakhs).					
III. Sources of financing—						
266. A. ak. Pension to staff of non-Government Educational Institutions.	5,61.32	..	7,24.06	..	7,56.87	..
277. Education	1,43,49.97	9,33.36	1,66,04.40	10,72.04	1,74,14.09	11,59.54
277. Education (Under Demand 28).	..	85.00	..	1,25.00	..	5,50.00
277. Education (Under Demand 37).	..	48.91	..	17.87	3.08	5.19
288. Social Security and Welfare.	6.49	..	10.00	..	10.22	..
459 Capital Outlay on Office buildings.	0.10	..	(—) 0.07	..	..	0.51
477. Capital Outlay on Education Art and Culture (School Buildings).	4.04	2,66.34	0.01	5,03.61	..	1,85.70
Total	1,49,21.92	13,33.61	1,73,38.40	17,18.52	1,81,84.26	19,00.94
	1,62,55.53		1,90,56.92		2,00,85.20	

I. DIRECTION AND ADMINISTRATION.

<i>Accounts 1978—79.</i>		<i>Revised estimate 1979—80.</i>		<i>Budget estimate 1980—81.</i>	
<i>Non-plan.</i>	<i>Plan.</i>	<i>Non-plan.</i>	<i>Plan.</i>	<i>Non-plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
260.00	8.16	288.89	7.97	304.94	14.07

(Rupees in lakhs).

The Director of School Education is assisted at the head quarters by 3 Joint Directors (one for Personnel and Elementary Education one for Secondary Education, and one for Higher secondary education), 6 Deputy Directors (one for Elementary Education, one for Secondary, 2 for Higher Secondary Education, one for Midday meals and one for Educational Technology Cell) and 11 officers to look after special aspects of education like Science Education, Anglo-Indian Education, Audio Visual Education, Educational statistics etc., besides one Financial Controller and one Administrative Officer. At present there are 14 Chief Educational Officers—one for Coimbatore and the Nilgiris, one for Tiruchirapalli and Pudukkottai and one each for all the other 12 Revenue Districts in the State.

There are 50 District Educational officers, one Inspector of Anglo Indian Schools, 1 Inspector of Matriculation Schools and 458 Deputy Inspectors. There are also 7 Inspectresses of Girls Schools.

2. ELEMENTARY EDUCATION.

<i>Accounts 1978—79</i>		<i>Revised estimate 1979—80</i>		<i>Budget estimate 1980—81</i>	
<i>Non-plan.</i>	<i>Plan.</i>	<i>Non-plan.</i>	<i>Plan.</i>	<i>Non-plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
8,364.49	476.04	9,413.68	188.92	9,763.15	685.01

(Rupees in lakhs).

The expenditure on maintaining Government elementary schools and on payment of grants to local bodies and aided managements for running their elementary schools is debited to this head.

The expenditure on salaries of the additional posts of teachers created during the Fifth Plan Period in elementary and higher elementary schools under the State Plan schemes for additional enrolment of pupils of the age groups 6—11 and 11—14 was shown under the plan sector of the Budget till end of 1978—79. From 1979—80 only the expenditure on the additional posts created from 1979—80 will be shown under plan, that on the additional posts created during the fifth plan period being transferred to non-plan from 1979—80 as committed expenditure. 94.64 per cent of the children of the age group 6—11 and 59.68 per cent of the age group 11—14 had been enrolled by 1979—80.

3. MIDDAY MEALS.

<i>Accounts 1978—79.</i>		<i>Revised estimate 1979—80.</i>		<i>Budget estimate 1980—81.</i>	
<i>Non-plan.</i>	<i>Plan.</i>	<i>Non-plan.</i>	<i>Plan.</i>	<i>Non-plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
452.59	21.10	511.40	9.99	529.05	0.02

(Rupees in lakhs).

About 20·25 lakhs of pupils studying in Stds. I to VIII of elementary schools in the State are getting free midday meals at an expenditure of about Rs. 5 crores supplemented by gift food from CARE of the value of about Rs. 7 crores per annum. More details of this scheme are given in the Education Demand Note for 1980—81.

4. SECONDARY EDUCATION.

<i>Accounts 1978—79.</i>		<i>Revised estimate 1979—80.</i>		<i>Budget estimate 1980—81.</i>	
<i>Non-plan.</i>	<i>Plan.</i>	<i>Non-plan.</i>	<i>Plan.</i>	<i>Non-plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(Rupees in lakhs).					
4,967·73	422.28	5,152.27	89.85	5,418.68	150.77

The expenditure on maintaining the Government high schools and that on the teaching and other grants given to Aided and Municipal High Schools are shown under this classification. Teaching grant and maintenance grants are paid to aided secondary schools as per the rules in force. Grants are given at two-thirds of the net approved expenditure, to Corporations and Municipalities for maintaining their high schools.

The expenditure on the additional posts created during the fifth plan period on the State Plan scheme for additional enrolment of pupils of age group 14—17 was shown under the plan sector of the budget till the end of 1978—79 and it has been transferred to Non-plan from 1979—80.

Under the Plan Scheme for improving facilities for teaching science, about 993 high schools had got science laboratory grants by 1979—80. From 1974—75 the rate of grant is Rs. 55,000 each for Government schools and Rs. 40,200 for non-Government schools.. Twenty Five more schools will be covered in 1980—81. There are now 42 mobile science laboratory vans serving high schools in rural areas without any science laboratory facilities.

5. HIGHER SECONDARY EDUCATION.

<i>Accounts 1978-79.</i>		<i>Revised Estimates 1979-80.</i>		<i>Budget Estimate 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
..	376.12	915.85	1,250.99	1,036.54	834.69

The scheme of Higher Secondary Education entered the second year in 1979—80. A large building programme was completed in 1979—80. The provision for 1980—81 includes a Part II provision of Rs. 4.47 crores.

6. TEACHER EDUCATION.

<i>Accounts 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
38.52	11.51	45.15	13·67	49·24	16.65

There are at present 78 teachers training institutes in this State containing facilities for turning out Secondary Grade Trained Teachers. Admissions are made only in alternate years

7. ANGLO INDIAN SCHOOLS ; PRE-PRIMARY SCHOOLS, ETC.

<i>Accounts 1978-79.</i>		<i>Revised Estimate, 1979-780.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
47.44	0.15	51.63	0.12	51.03	0.12

The various kinds of recognised special schools in the State and their numbers are shown below :

Oriental Schools	.. .. .	18 (13 Sanskrit and 5 Arabic).
Pre-Primary Schools	.. .. .	40.
Anglo-Indian Schools	.. .. .	40 (35 High Schools, 4 Primary Schools and 1 Training School).
Sainik School (Amaravathinagar)	.. .. .	1.

The Sainik School at Amaravathinagar prepares boys academically, physically and psychologically for entry into the National Defence Academy or into other walks of life. Boys are admitted to the school through a common All India Entrance Examination which is held once a year during January and February. The strength of the school including new admissions is 606. Scholarships are sanctioned by the Government of Tamil Nadu from their funds to the students of Tamil Nadu Domicile studying in the Sainik school on income-cum-merit basis. 493 students are holding Tamil Nadu Government scholarships.

A sum of about Rs. 5 lakhs per year is spent on the six pre-vocational training centres in the State. School drop-outs of the age group 11-14 are admitted in the centres and given education-cum-craft training for three years.

A Regional Pre-vocational Training Centres is also functioning attached to the M.Ct. Muthiah Chettiar High School, Purasawalkam.

8. BOARDING HOMES AND ORPHANAGES.

<i>Accounts, 1978-79.</i>	<i>Revised Estimate, 1979-80.</i>	<i>Budget Estimate, 1980-81.</i>
<i>Non-Plan.</i>	<i>Non-Plan.</i>	<i>Non-Plan.</i>
(1)	(2)	(3)
(RUPEES IN LAKHS.)		
62.09	62.09	62.09

The institutions which are primarily homes for children, having facilities for the education of the inmates are admitted to aid from State Funds. At least 50 per cent of the inmates in the Homes for children shall be certified destitutes belonging to this State and shall be studying in recognised schools. Grants are given on behalf of the inmates between the ages of 5 to 20 (5 to 25 in the case of Physically handicapped children), There are 375 homes for children in the State. The number of inmates in these homes is 48,000.

9. SCHOLARSHIPS AND CONCESSIONS.

<i>Accounts 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
15.45	0.40	21.51	11.12	27.52	22.12

School Education in Tamil Nadu is free at all stages. An important scheme of scholarships is the rural talent scholarships tenable for the entire school course which are awarded from 1971-72. Under the scheme, scholarships are awarded every year newly to four students in each panchayat union.

10. STATE COUNCIL FOR EDUCATIONAL RESEARCH AND TRAINING.

<i>Accounts 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
6.27	1.48	9.17	4.26	7.85	7.94

These S.C.E.R.T. formed in May, 1975 by integrating the three units namely State Institute of Educational State Evaluation Unit and State Institute of Science Education is incharge of Educational Research and Training at School level.

From 28th August, 1978, the S.C.E.R.T. has been transferred from the Director of Government Examinations to the Director of School Education. The provision for 1980-81 includes Rs. 3.50 lakhs for new building.

11. EXAMINATIONS.

<i>Accounts, 1978-79. :</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
137.81	0.92	134.56	..	1,69.14	6.16

Till February 1975, the Director of School Education was also the Commissioner for Government Examinations. From February 1975, the Government have appointed a separate head of the department the Director of Government Examinations in-charge of examinations at School Education Level.

The Director of Government Examinations arranges for preparing and conducting a number of examinations under his control, publishing the results and despatching the certificates. About 36 examinations are conducted every year some of them annually and some twice a year including the S.S.L.C. and A.I.S.L.C. examinations and from May 1980, the H.S.L.C. examination.

12. ADULT AND NON-FORMAL EDUCATION.

<i>Accounts, 1978-79.</i>		<i>Revised Estimate, 1979-80. :</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
1.38	13.14	1.74	1,39.35	1.55	1,61.15

The Director of Government Examinations and Non-formal Education is now in-charge of Adult Education and Non-formal Education. Details of the schemes being implemented are given in the Education Demand-Note. These schemes will go a long way in promoting universal literacy and taking education to the drop-outs from schools.

13. MISCELLANEOUS.

<i>Accounts 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
6.83	2.31	6.40	2.28	6.61	2.24

The provision represents miscellaneous grants, expenditure on State Awards for teachers, contribution to the National Foundation for Teachers Welfare, etc.

14. PENSION TO STAFF OF NON-GOVERNMENT EDUCATIONAL INSTITUTIONS.

<i>Accounts, 1978-79</i>	<i>Revised Estimate, 1979-80</i>	<i>Budget Estimate, 1980-81</i>
<i>Non-Plan.</i>	<i>Non-Plan.</i>	<i>Non-Plan.</i>
(1)	(2)	(3)
(RUPEES IN LAKHS.)		
5,61.32	7,24.06	7,56.87

With successive liberalisations of the pension scheme for non-Government teachers originally introduced from 1st April 1955, the teaching and non-teaching staff of all aided schools and colleges and Technical Education Institutions as well as teachers in Local Body Schools are now eligible for pension and other retirement benefits. This item is shown under school education since, the bulk of the beneficiaries belong to Aided and Local Body Schools.

RECEIPTS RELATING TO SCHOOL EDUCATION.

	<i>Accounts, 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
	(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)						
077. Education	9,71.08		7,12.24		6,47.67	

The admission fees and special fees such as Library, Laboratory and Medical inspection fees received in all Government High Schools and training schools are credited to the above head. Overpayments made to local bodies while releasing Education Grants and Midday meal grants are also credited to this head, when recovered. The other items of receipts are:—

- (i) Audit fees paid by management of aided schools ;
- (ii) Stipends recovered from students for failure to fulfil the terms of their agreement ;
- (iii) Examination fees paid by students ; and
- (iv) Other Miscellaneous recoveries.

COLLEGIATE EDUCATION.

PART A.

INTRODUCTION.

The Directorate of Collegiate Education, which was formed in October 1965, is the authority for planning and execution of programmes relating to Collegiate Education. It is responsible for executing co-ordinated development and expansion of Collegiate Education. The development and expansion of Collegiate Education gained considerable momentum after the formation of a separate Directorate. Before the formation of this Directorate, there were only 92 Arts Colleges and 18 Training Colleges, whereas in 1979-80 there are 187 (51 Government and 136 Aided) Arts Colleges and 23 (Government 7 and Aided 16) Training Colleges in the State. During the year 1979-80, one College viz., Pre-University College, Annamalai University ceased to function due to abolition of Pre-University Course in Tamil Nadu. Besides, there are 23 other colleges in the State. In addition to this, evening courses are conducted in 30 Colleges.

The following figures show the development and expansion of Collegiate Education in recent years :—

Arts and Science Colleges.

Year.	Number of Colleges.			Enrolment.	Number of teachers employed.	Amount spent excluding buildings.
	Government.	Aided.	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
						(RUPEES IN LAKHS.)
1969-70	39	101	140	1,52,000	7,500	3,91
1970-71	43	117	160	1,64,000	8,200	4,43
1971-72	46	123	169	1,84,000	8,900	5,71
1972-73	49	123	172	1,98,000	10,100	6,49
1973-74	51	127	178	1,96,000	10,100	7,03
1974-75	51	132	183	2,00,000	10,800	7,11
1975-76	51	138	189	1,96,600	11,165	10,78
1976-77	51	138	189	2,03,300	11,616	13,07
1977-78	51	137	188	2,09,000	12,206	17,72
1978-79	51	137	188	2,01,000	12,142	21,69
1979-80 (Revised Estimate).	51	136	187	1,35,700	12,190	22,91

The details of Training Colleges etc. are given at the end of Part C.

The teacher pupil ratio in 1979-80 was 1 : 10 in Government Colleges and 1 : 12 in Aided Colleges.

Quantitative expansion apart, a number of special programmes for the qualitative improvement of Collegiate Education have been introduced under the aegis of the Department and they are explained below at the appropriate places.

PART-B.

The Financial requirements for Collegiate Education in 1980-81 are indicated below :—

TABLE-I.

(1)	Accounts, 1978-79.		Revised Estimate, 1979-80.		Budget Estimate, 1980-81.	
	Non-Plan.	Plan.	Non-Plan.	Plan.	Non-Plan.	Plan.
	(2)	(3)	(4)	(5)	(6)	(7)
(RUPEES IN LAKHS.)						
<i>I. Programme and Activity Classification.</i>						
1 Direction and Supervision.	19.76	5.63	33.14	0.25	39.71	1.25
2 Grants to Universities ..	1,21.90	1,04.92	1,15.34	40.70	1,16.70	29.91
3 Maintenance of existing Arts and Science Colleges—						
(a) Government ..	5,37.00	94.24	7,05.64	37.40	7,02.96	69.02
(b) Non-Government ..	10,28.52	2.52	10,92.21	0.05	12,41.60	0.05
4 Maintenance of Existing Training Colleges—						
(a) Government ..	40.42	0.13	51.40	10.61	58.89	0.01
(b) Non-Government ..	24.21	..	22.60	..	23.60	..
5 Law Colleges	16.68	3.63	22.65	10.98	17.83	12.83
6 Maintenance of Existing Special Institutions—						
(a) Government ..	4.70	..	7.86	..	7.30	..
(b) Non-Government ..	16.26	..	17.73	..	18.34	..
7 Scholarships, concessions, stipends, incentive to students, etc.	74.43	37.00	64.74	40.00	64.44	40.00
8 Miscellaneous	3.89	46.66	6.08	46.02	6.45	51.01
	18,87.77	2,94.73	21,39.39	1,76.01	22,97.82	2,04.08
Total ..	21,82.50		23,15.40		25,01.90	

TABLE-II

(1)	<i>Accounts, 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
	(2)	(3)	(4)	(5)	(6)	(7)
	(RUPEES IN LAKHS)					
I. OBJECTWISE CLASSIFICATION—						
1 Salaries	5,50.42	74.80	7,44.70	12.06	7,58.95	10.46
2 Wages	10.43	..	9.87	..	8.91	..
3 Travel Expenses	2.49	0.29	3.13	0.16	3.17	0.13
4 Office Expenses	15.73	0.41	21.47	0.25	19.58	0.66
5 Payments for Professional and Special Services.	..	..	0.06	..	0.06	—
6 Rents, Rates and Taxes.	6.86	0.25	5.84	0.20	3.17	0.20
7 Grants in aid	11,94.75	1,54.10	12,52.60	86.76	1,404.96	80.97
8 Scholarships	75.26	37.00	65.75	40.00	64.83	40.00
9 Buildings	0.63	13.01	0.69	23.97	..	43.02
10 Machinery Equipment .. ..	..	5.17	..	2.65	..	17.66
11 Motor Vehicles .. .. .	..	..	1.61	..	0.27	..
12 Maintenance	0.05	..	0.06	..	0.20	..
13 Other charges	31.15	9.70	33.61	9.96	33.72	10.98
Total	18,87.77	2,94.73	21,39.39	1,76.01	22,97.82	2,04.08
	21,82.50		23,15.40		25,01.90	

TABLE III.

SOURCES OF FINANCING.

(1)	<i>Accounts 1978-79.</i>		<i>Revised estimate 1979-80.</i>		<i>Budget estimate, 1980-81.</i>	
	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
	(2)	(3)	(4)	(5)	(6)	(7)
(RUPEES IN LAKHS.)						
DEMAND 17—EDUCATION—						
277. Education—						
C. Special Education ..	30.69	13.10	28.16	6.01	28.16	6.00
E. University and Other Higher Education.	18,47.67	2,02.28	20,98.33	65.83	22,58.14	68.86
G. Sports and Youth Welfare (National Service Scheme).	..	29.33	..	40.00	..	45.00
278-A. Arts and Culture (Music Colleges and Manuscripts Library).	6.69	0.01	10.79	0.20	10.40	1.20
288. Social Security and Welfare.	2.09	..	1.42	..	1.12	..
WORKS—						
277. Education	0.63	0.23	0.69	0.01	..	..
477. Capital Outlay ..	..	12.78	..	24.03	..	41.02
483. Capital Outlay on Housing.	..	..	..	(—)0.07	..	2.00
LOANS AND ADVANCES—						
677. Loans for Education Arts and Culture. (National Loan Scho- larships Scheme).	..	37.00	..	40.00	..	40.00
Total ..	18,87.77	2,94.73	21,39.39	1,76.01	22,97.82	2,04.08
	21,82.50		23,15.40		25,01.90	

PART C.

EXPLANATION FOR FINANCIAL REQUIREMENTS.

1. *Direction and Supervision.*

<i>Accounts 1978-79.</i>		<i>Revised estimate, 1979-80.</i>		<i>Budget estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
19.76	5.63	33.14	0.25	39.71	1.25

(Rupees in lakhs.)

The Director of Collegiate Education is assisted by a Joint Director, a Deputy Director, a Senior Accounts Officer, a Personal Assistant, an Assistant Director and Two Special Officers—One for Scholarships and the other for English. All these Officers have state-wide jurisdiction. During the year 1979-80, Five Regional Offices in Madras, Madurai, Tiruchirappalli, Tirunelveli and Coimbatore with Regional Deputy Directors of Collegiate Education and other auxiliary staff were created.

The following table gives the strength of the other personnel in the Directorate:—

<i>Category.</i>	1974-75.	1975-76.	1976-77.	1977-78.	1978-79.	1979-80
(1)	(2)	(3) ¹	(4)	(5)	(6)	(7)
Principals, Chief Professors, Professors, etc., in Government Colleges and Officers formerly called Gazetted.	409	426	467	489	3,040 (including Assistant Professors).	565
Other Officers such as Assistant Professors, Part-time Professors, Tutors and Demonstrators, Physical Directors etc., in teaching staff.	3,697	3,769	3,838	4,003	1,489	3,831
Ministerial staff	896	937	937	1,025	1,050	1,206
Other Staff	104	178	190	196	200	450
Basic Government Servants, etc.	595	601	601	605	674	697
Total ..	5,701	5,911	6,033	6,318	6,453	6,749

The Control of the Government Oriental Manuscripts Library, Madras which was exercised by the Director of Collegiate Education from 1976-77, has been transferred to the Director of Archaeology, Madras from 1980-81.

2. GRANTS TO UNIVERSITIES.

<i>Accounts, 1978-79.</i>		<i>Revised estimate, 1979-80.</i>		<i>Budget estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)

(RUPEES IN LAKHS).

1,21.90	1,04.92	1,15.34	40.70	1,16.70	29.91
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There are three Universities in the State viz., the University of Madras, Madurai Kamaraj University and Annamalai University (apart from the Tamil Nadu Agricultural University at Coimbatore and the Perarignar Anna University of Technology, Madras). Recurring Block grants are sanctioned to them, every year, for meeting the normal expenditure. In 1979-80, the quantum of Block grant to Annamalai University and Madurai Kamaraj University has been enhanced. Special grants are also sanctioned as and when proposals are received from the University concerned for meeting certain special items of expenditure. Such grants are sanctioned since 1971-72 for conducting orientation course for college teachers in Universities. Further, grants for various Plan Schemes are also sanctioned to the Universities. The Annamalai University is of unitary type and has celebrated the Golden Jubilee in December 1979. The University Grants Commission scales of pay have been extended to the teaching staff of Universities also. Provisions of Rs. 1.00 lakh each have been made in the Budget Estimate for 1980-81, for the establishment of new Universities at Coimbatore and Tiruchirappalli.

3. MAINTENANCE OF ARTS AND SCIENCE COLLEGES.

	<i>Accounts 1978-79.</i>		<i>Revised estimate, 1979-80.</i>		<i>Budget estimate, 1980-81.</i>	
	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(RUPEES IN LAKHS).

(a) Government	.. ..	5,37.00	94.24	7,05.64	37.40	7,02.96	69.20
(b) Aided	.. ..	10,28.52	2.52	10,92.21	0.05	12,41.60	0.05

(a) GOVERNMENT COLLEGES.

The emphasis on qualitative improvement is the chief feature of development of Government Colleges during the past few years. During the year 1979-80, 46 additional degree and 5 Post Graduate courses were started in Government Colleges. Evening Courses were continued to be conducted in certain Government Colleges.

There are continuing schemes for provision of buildings, laboratory equipments, students amenities and play-field facilities for Colleges.

To have effective control over the financial matters of Government Colleges, posts of Bursars have been created since 1974-75 and 41 posts have so far been created.

The scales of pay of teachers in Colleges have been revised on the basis of the recommendations of the UGC with effect from 1st April 1974 with monetary benefits from 1st January 1977.

(b) *Aided Colleges.*

The Aided Colleges get assistance from Government by way of teaching, building and equipment grants and contributions to the Provident Fund of their teachers. The total number of Aided Colleges in 1979-80 has reduced to 136 from 137 in 1978-79, as one College, viz. Pre-University College, Annamalai University ceased to function consequent on the abolition of Pre-University Course in Tamil Nadu. The Scales of pay and other allowances to which the staff in Government Colleges are eligible are applied to the staff in Aided Colleges also for computing the grant-in-aid.

From the year 1972-73, teaching grant was paid at 80 percent of the net deficit of Aided Colleges on the basis of the actual income. The Government have revised that pattern of grant-in-aid from 1st June 1977, under which the entire net deficit on salary expenditure is met by the Government. Further the Government have recently ordered the *direct* payment of salary to staff of Aided Colleges. A non-salary grant at 80 percent of the approved items of expenditure on repairs, upkeep, contingencies, stationery etc., is released annually.

4. *Maintenance of Teacher Training Colleges—*

	<i>Accounts 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
	(1)	(2)	(3)	(4)	(5)	(6)
	(RUPEES IN LAKHS).					
(a) Government	40.42	0.13	51.40	0.61	58.89	0.01
(b) Non-Government ..	24.21	..	22.60	..	23.60	..

(a) *Government.*

There are now seven Government Training Colleges in the State. An Extension Service Centre functions at Teachers' College, Saidapet. Evening M.Ed., Courses are conducted in 6 Government Training Colleges and Part-time courses in "Diploma in Higher Education" were started from 1977-78 in three Government Training Colleges.

(b) *Non-Government.*

There are sixteen Aided Training Colleges which are getting grants-in-aid from Government as in the case of Aided Arts and Science Colleges. Extension Service Centres function in three Aided Training Colleges.

5. *Law Colleges—*

	<i>Accounts 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
	(RUPEES IN LAKHS).					
Law Colleges	16.68	3.63	22.65	10.98	17.83	12.83

This represents the expenditure on the Government Law Colleges at Madras, Madurai, Coimbatore and Tiruchirappalli. Law Colleges at Coimbatore and Tiruchirappalli were started from 1979-80.

5. Maintenance of Existing Special Institutions.—

(1)	Accounts, 1978-79.	Revised Estimate, 1979-70.	Budget Estimate, 1980-81.
	Non-Plan. (2)	Non-Plan. (3)	Non-Plan. (4)
		(RUPEES IN LAKHS)	
(a) Government	4.70	7.86	7.30
(b) Non-Government ..	16.26	17.73	18.34

(a) Government.

The expenditure on Government Music Colleges at Madras and Madurai has been shown under "a. Government".

(b) Non-Government.

The Special Institutions under Aided Managements come under this category and they are described below :—

1. *Physical Education Colleges.*—The three Physical Education Colleges, viz., Y.M.C.A., College of Physical Education, Madras, Alagappa College of Physical Education, Karaikudi, Maruthi College of Physical Education, Perianaickanpalayam, Coimbatore are maintained by private agencies.

2. *The Madras School of Social Work.*—The Madras school of Social Work founded in 1952 has been affiliated to the University of Madras from July 1976. It conducts M.A. Course in Social Work and 95 students were on the rolls in 1979-80.

3. *Madurai Institute of Social Work.*—

The Madurai Institute of Social Work was formed in 1969 and is affiliated to Madurai Kamaraj University. It trains candidates every year on full time basis for the profession of Social Work by offering two-year Post-graduate Course. There were 79 students in 1979-80. One year M.A. Diploma Course in Social Rehabilitation has been started from 1977-78 and from the year 1979-80.

Two year Post-graduate Diploma Course in
Personnel Management and Industrial Relations
and

Three months Certificate Course in Science of
Creative Intelligence.

have also been started in the Institute.

4. *Oriental Colleges.*—There are 15 Oriental Colleges in Tamil Nadu under Private Managements with 1784 Students and 133 teachers in 1979-80. An Ayurvedic College is also functioning with an intake of 32 students and with 5 staff members.

5. *Rural Higher Institute.*—There is one Rural Higher institution, viz., The Gandhigram Rural Institute (Deemed University) at Gandhigram in Madurai District. It is affiliated to the National Council for Rural Higher Education of the Union Ministry of Education. The emphasis of the Institute is to impart practical field programmes in rural communities in addition to theoretical instruction and it stands for gandhian ideals in education. It gets a grant of Rs. 1.50 lakhs per annum. The Institute had 443 students and 75 teachers in 1979-80. It has been declared a Deemed University from 1976-77.

7. Scholarships, Concessions, etc.,—

Accounts, 1978-79.		Revised Estimate, 1979-80.		Budget Estimate, 1980-81.	
Non-Plan.	Plan.	Non-Plan.	Plan.	Non-Plan.	Plan.
(1)	(2)	(3)	(4)	(5)	(6)
74.43	37.00	64.74	40.00	64.44	40.00

(RUPEES IN LAKHS.)

The three important scholarships schemes administered by the Department are (1) National Scholarships Scheme (2) National Scholarships Scheme to the Children of Teachers and (3) National Loan Scholarships Scheme. The total number of scholarships sanctioned under these three schemes in 1979-80 has been given in the Demand Note.

The Schemes have been extended to the students studying in Higher Secondary Course also from 1978-79: A provision of Rs. 28 lakhs has been made for paying stipends to Tamil Medium students in degree Courses.

8. MISCELLANEOUS.

Accounts, 1978-79.		Revised Estimate, 1979-80.		Budget Estimate, 1980-81.	
Non-Plan.	Plan.	Non-Plan.	Plan.	Non-Plan.	Plan.
(1)	(2)	(3)	(4)	(5)	(6)
3.89	46.66	6.08	46.02	6.45	51.01

(RUPEES IN LAKHS.)

The important items covered under this head are explained below :

Institute of Mathematical Science, Madras :—

The Institute of Mathematical Science was started in January 1962. It is jointly financed by the State Government and the Government of India. Every year the State Government make a contribution of Rs. 3.5 lakhs and the Government of India 3.5 lakhs. This Institute is modelled on the Institute for Advanced Study at Princeton, U.S.A. and has Ph. D. Programme. Student^s from various universities in India holding Master Degree can get their Ph.D. Degree from their parent Universities working under the guidance of the academic staff of the Institute.

Besides fulfilling the functions of a University at Higher levels of Post M.Sc., education, the Institute organises, twice or thrice a year, Conferences and Seminars on current trends in research in several aspects of Mathematics and Theoretical Physics and conducts summer school on advanced topics in these subjects for the benefit of lecturers in Post-Graduate Colleges and bright and promising students in M.Sc. Classes and other Research workers.

Institute of Traditional Cultures :—

The institute is located at the University of Madras. It gets an annual grant of Rs. 16,000 from the State Government. It promotes studies and research in traditional cultures with emphasis on Tamil Culture.

Conduct of Training Course for College Teachers :—

To improve the quality of English Teaching, in service training programmes in the teaching of English at the College level are conducted periodically with the collaboration of the British Council and the Universities.

National Service Schemes :—

The National Service Schemes was first started in November 1969 with an initial strength of 2,000. Its strength gradually increased and has reached 40,000 in 1979-80. The cost of the scheme is met by Government of India and the Government of Tamil Nadu in the ratio of 7:5. A sum of Rs. 45 lakhs has been provided in the year 1980-81 for meeting the States' share of the expenditure. The object of the programme is to arouse the Students' Social consciousness and utilise their Services for the Community especially in literacy work.

Preparation of College Text-Books in Tamil :

Provisions of Rs. 3 lakhs in Revised Estimate for 1979-80 and Rs. 3.00 lakhs in Budget Estimate for 1980-81 have been made for paying grants to the Tamil Nadu Text Book Society for bringing out Collegiate Books in Tamil.

RECEIPTS RELATING TO COLLEGIATE EDUCATION.

	<i>Accounts,</i> 1978-79.	<i>Revised</i> <i>Estimate,</i> 1979-80.	<i>Budget</i> <i>Estimate.</i> 1980-81.
	(RUPEES IN LAKHS).		
077. Education—E. University—			
(a) Fees-Government Colleges	51.58	58.10	60.00
(b) Government Training Colleges	0.39	0.36	0.36
G. General .. .. .	..	6.00	6.00

Fees for tuition, registration and admission and fines in Government Arts and Training Colleges (including those which have secondary departments and model schools attached to them) are credited to "E-University". Other Miscellaneous receipts are credited to "G. General".

APPENDIX IX.
INDICES OF ACHIEVEMENTS.

I number of Colleges, Students and Teachers Employed in 1979-80.

(1)	Arts and Science Colleges.	Teacher Train- ing Colleges.	Physical Educa- tion Colleges.	Oriental Colleges.	School of Social Work.	Rural Higher Insti- tutions.	Mus ic Colle- ges.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>Number of Colleges</i>							
<i>Government—</i>							
Men	37	5	..	..	..	..	2
Women	14	2	..	..	..	..	..
Total	51	7	..	..	..	..	2
<i>Aided—</i>							
Men	97	8	3	15	2	1	..
Women	39	8	..	..	..	..	..
Total	136	16	3	15	2	1	..
Grand total—Government and Aided Colleges.	187	23	3	15	2	1	2
<i>Number of students on Rolls—</i>							
Men	90,481	1,333	271	1,198	129	397	133
Women	45,245	1,932	95	586	45	46	293
Total	1,35,726	3,265	366	1,784	174	443	426
<i>Number of Teachers employed—</i>							
Men	8,444	131	31	111	12	61	23
Women	3,746	115	5	22	4	9	12
Total	12,190	246	36	133	16	70	35

Course wise Breakup of Students enrolled in arts and Science Colleges in 1979-80.

(1)	Men. (2)	Women. (3)	Total. (4)
<i>Degree—</i>			
B.A.	28,732	19,140	47,872
B.Sc.,	37,485	19,362	56,847
B.Com.	18,370	3,374	21,744
Total	84,587	41,876	1,26,463
<i>Post-Graduate—</i>			
M.A.	2,586	1,902	4,488
M.Sc.	2,069	1,273	3,342
M.Com.	926	103	1,029
Ph. D. and M. Phil.	313	91	404
Total	5,894	3,369	9,263

PERFORMANCE BUDGET, 1980-81

TECHNICAL EDUCATION.

INTRODUCTION.

One of the important factors which determines the level of economic and social development is the progress made in the field of Technical Education. Such realisation forged the formation of separate department and also the constitution of State Board of Technical Education and Training in 1957. At the end of First Five Year Plan there were only three Engineering Colleges and six Polytechnics. Now the department has under its aegis, 6 Engineering Colleges, 40 Polytechnics (which include 3 Women's Polytechnics and 8 special Institutions) and 14 Technical High Schools, which have since been converted as Higher Secondary Schools (Vocational) from the academic year 1979-80. This department is responsible for ensuring the co-ordinated development of Technical Education at degree and diploma levels. According to the varied need of the Industries, a number of diversified, job-oriented courses have also been introduced in the institutions as recommended by the State Board of Technical Education and Training, Tamil Nadu.

FINANCIAL REQUIREMENT.

The financial requirements for the Technical Education Department in 1980-81 are detailed below :—

I. PROGRAMME AND ACTIVITY CLASSIFICATION.

(1)	Accounts 1978-79.		Revised estimate. 1979-80.		Budget estimate 1980-81.	
	Non-plan.	Plan.	Non-plan.	Plan.	Non-plan.	Plan.
	(2)	(3)	(4)	(5)	(6)	(7)
(RUPEES IN LAKHS.)						
1 Direction and Administration	56.88	..	62.04	..	66.50	3.68
2 Higher Secondary Schools (Vocational)	26.97	3.03	30.77	5.62	31.92	1.10
3 Polytechnics and Special Institutions	273.26	29.56	296.52	58.73	316.06	70.03
4 Engineering Colleges	251.76	87.90	197.45	41.36	208.23	66.72
5 Technical University .. .. .	..	19.93	250.00	1.05	180.00	0.01
6 Miscellaneous	9.28	6.39	4.59	6.99	8.24	7.28
Total	618.15	146.81	841.37	113.75	810.95	148.82
	764.96		955.12		959.77	

II. OBJECT-WISE CLASSIFICATION.

(1)	<i>Accounts, 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
	(2)	(3)	(4)	(5)	(6)	(7)
	(RUPEES IN LAKHS.)					
1 Salaries	276.36	26.09	260.12	7.01	292.95	23.87
2 Wages	2.95	..	3.05	0.12	3.08	0.12
3 Travel Expenses	4.86	0.61	5.31	0.50	5.21	0.10
4 Office Expenditure ..	17.95	0.26	14.49	0.12	14.57	1.31
5 Payments for Professional and Special Services ..	15.36	0.32	16.96	..	17.96	0.03
6 Rents, Rates and Taxes ..	11.01	..	8.66	0.03	8.66	0.04
3 Publications .. .. .	..	..	0.04	0.31	0.04	0.01
8 Advertising, Sales and Public expenses ..	2.59	..	2.02	..	2.02	..
9 Grants-in-aid	213.97	17.55	439.70	16.75	404.90	6.25
10 Scholarships, Stipend and Loans	11.61	6.90	41.28	7.05	12.95	5.10
11 Hospitality Expenditure	0.11	..	0.02	..	0.02	..
12 Major Works	9.38	10.88	0.51	19.02	4.00	42.29
13 Minor Works	3.06	1.12	6.98	0.97	3.00	..
14 Machinery and Equipment	8.95	73.40	2.14	53.79	1.74	63.41
15 Motor Vehicles	0.70	0.89	2.19	1.55	1.84	0.05
16 Maintenance	18.83	..	16.04	..	16.09	..
17 Materials and Supplies ..	0.61	..	1.15	..	1.25	1.10
18 Write-off/Losses	0.02	..	0.04	..	0.04	..
19 Other Charges	19.83	8.79	20.67	6.53	20.63	5.14
Total	618.15	146.81	841.37	113.75	810.95	148.82
	764.96		955.12		959.77	

III. SOURCE OF FINANCE.

(1)	Accounts, 1978-79.		Budget Estimate, 1979-80.		Revised Estimate, 1980-81.	
	Non-Plan.	Plan.	Non-Plan.	Plan.	Non-Plan.	Plan.
	(2)	(3)	(4)	(5)	(6)	(7)
(RUPEES IN LAKHS.)						
REVENUE :						
259. Public Works .. ..	..	..	12.79	..	12.77	..
277. Education—						
C. Special	3.75	0.09	3.75	0.05	4.17	0.04
F. Technical	570.54	107.51	772.63	79.60	765.08	82.73
		*24.98		*6.35	..	*6.64
H. General	0.86	..	0.80	..	0.80	1.00
278. Art and Culture ..	11.37	3.35	15.77	2.72	16.93	5.12
288. Social Welfare .. ..	..	..	0.20	..	0.20	..
CAPITAL :						
259. Public Works	15.21	..	..	..	..	..
277. F. Technical .. ..	..	1.08	..	..	..	..
477. Capital Outlay	9.38	9.80	0.51	19.03	4.00	49.29
LOANS :						
677. Loans	7.04	..	34.92	6.00	7.00	4.00
Total	618.15	146.81	841.37	113.75	810.95	148.82
	764.96		955.12		959.77	

*Centrally sponsored.

EXPLANATION FOR FINANCIAL REQUIREMENTS.

I. DIRECTION AND ADMINISTRATION.

<i>Accounts, 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
56.88	..	62.04	..	66.50	3.68

The salaries of the staff of the Directorate, the Construction Division and the expenditure on the conduct of examinations in Diploma and Commerce are shown under this classification.

The Director is assisted by an Additional Director, a Joint Director, a Deputy Director, a Superintendent Engineering Officer, a Chief Accounts Officer, a Special Officer, two Assistant Directors.

Information on the Commerce Examinations held by this department is given in the Appendix.

A departmental Audit Wing was also formed during 1979-80 with One Superintendent. During 1980-81, it is proposed to strengthen the Directorate by providing additional staff to set up an Evaluation Cell.

2. HIGHER SECONDARY SCHOOLS (VOCATIONAL).

<i>Accounts, 1978-79.</i>		<i>Revised Estimate, 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
26.97	3.03	30.77	5.62	31.92	1.10

Consequent on the introduction of 10+2 pattern of education in the State, the 14 Technical High Schools, under the control of this Department have been converted into Higher Secondary Schools (Vocational) and are affiliated to the Board of Higher Secondary Education from 1979-80. The Government have provided an amount of Rs. 2.40 lakhs towards conversion of these Institutions.

In 1979-80, the teacher, student ratio in the Higher Secondary Schools was 1:12 and the per capita expenditure on students was Rs. 4,550 (for entire course).

The details of annual intake of these institutions are given in Appendix.

3. POLYTECHNICS AND SPECIAL INSTITUTIONS.

<i>Accounts, 1978-79.</i>		<i>Revised Estimate 1979-80.</i>		<i>Budget Estimate, 1980-81.</i>	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS.)					
273.26	29.56	296.52	58.73	316.06	70.03

These institutions educate and train technicians, who constitute an intermediate category between the craftsman and the Engineer. These institutions offer 45 Diploma, 18 Post-Diploma and 17 Certificate courses in various institutions. The intake particulars are given in Appendix.

In 1979-80, the teacher students ratio in the Polytechnics was 1:13 and the per capita expenditure on student was Rs. 5,300 (for entire course).

During 1979-80, the following courses have been introduced in the institutions noted against each:—

1. Diploma in Electronics M.C.M. Polytechnic, Avadi, Madras.
2. Design and Drafting Technology P.S.G. Polytechnic, Coimbatore.
3. Naval Architecture (Elective) .. Central Polytechnic, Madras-20.

During 1980-81, the following courses are proposed to be introduced in the institutions noted against each:

Diploma Courses—

1. Electronics Government Polytechnic, Nagrcoil.
2. Costume Designing and Dress Making .. Government Polytechnic for Women, Madurai, Coimbatore.
3. Modern Farm Machinery Technology .. Ramakrishna Mission Technical Institute, Madras.
4. Refrigeration and Air Conditioning .. P.A.C. Ramasamy Raja Polytechnic, Rajapalayam.

Post Diploma—

1. Foundry Engineering Government Polytechnic, Coimbatore.

And it is also proposed to set up Audio-Visual and reprographic Centre at Government Polytechnic for Women, Coimbatore and a Physical Testing Laboratory at Institute of Leather Technology, Madras.

The Government have also approved the following additional facilities to the Institutions noted against each:

1. Additional facilities for Government Polytechnic, Krishnagiri.
2. Replacement of obsolete equipment .. Seshasayee Institute of Technology, Tiruchirappalli.
3. Additional facilities such as staff, equipment, etc., for electronics. Central Polytechnic, Madras.
4. Students amenities —
 - Water coolers Tamilnad Polytechnic, Madurai.
 - Water Cooler/Dispensary Alagappa Polytechnic, Chettinad and Government Polytechnic for Women, Madras.
5. Additional facilities to Industrial Design .. College of Arts and Crafts, Madras.
6. Production Wing — Tamilnadu Institute of Architecture and Sculpture, Mamallapuram.
7. Expansion of building facilities S.S. Polytechnic, Puttur, and College of Arts and Crafts, Kumbakonam.

NEW POLYTECHNICS.

A new Government Polytechnic at Krishnagiri has started functioning from the academic year 1979-80. The Government have also sanctioned the establishment of an Institute of Textile Technology at Komarapalayam and a Women's Polytechnic at Thanjavur under private management. During 1980-81, it is proposed to take advance action to establish a Government Polytechnic at Pudukottai District where there is no Polytechnic at present.

WOMEN'S WING.

In order to meet the demand from girls students seeking admission to Polytechnic courses, the Government have permitted the opening of Women's Wing in the following men's Polytechnics

1. Government Polytechnic, Trichy.
2. Government Polytechnic Tuticorin.
3. Valivalam Desikar Polytechnic, Nagapattinam.

The Government have also permitted the admission of girl students in Men's Polytechnics as and when found necessary within the overall intake of the institution.

COMMUNITY POLYTECHNIC.

As per the recommendations of the All India Council for Technical Education, certain Polytechnics have been selected by Government of India to act as focal points to promote transfer of Technology to rural community and such polytechnics have been designated as Community Polytechnics. The following Polytechnics have been selected under the scheme:

1. Sri Ramakrishna Mission Vidyalaya Polytechnic, Coimbatore.
2. Annamalai Polytechnic, Chettinad.
3. Bakthavatchalam Polytechnic, Kancheepuram.

The Government of India provide cent per cent financial assistance for this scheme.

UPGRADATION OF ARTS AND CRAFTS INSTITUTIONS.

After take over of these institutions by the Technical Education Department, many developments have taken place. The erstwhile certificate courses offered at Tamilnadu Institute of Architecture and Sculpture, Mamallapuram have been upgraded into Diploma courses and subsequently restructured to widen the employment avenues.

B.Sc., degree courses in the following specialisation have been introduced at the College of Arts and Crafts, Madras from the Academic Year 1978-79.

- (i) B.Sc., Degree course in Industrial Design, (Textile Design and Ceramic Design) and
- (ii) B.Sc., degree course in Visual Communication.

- These courses are affiliated to University of Madras.

A Special Advisory Committee of Arts and Crafts Institutions was constituted to advice on development programmes.

AUTONOMY

Autonomy has been granted so far to four Polytechnics at Institutional level and at departmental levels to 5 Institutions. It is proposed to extend the concept of autonomy to some more institutions.

COLLABORATION WITH COLOMBO PLAN STAFF COLLEGE, SINGAPORE

The Colombo Plan Staff College wanted to associate 3 to 4 Technician Institutions in India for co-operation and collaboration with their programmes in Technician Education, Planning, Curriculum Design and development of research work. The Government of India have recommended Central Polytechnic, Madras for implementation of such Programmes and to co-operate with the Colombo Plan Staff Colleges for Technician Education, Singapore.

EXPANSION OF LIBRARY FACILITIES

The library is a vital resource Centre for the educational institution. The Government are annually spending substantial amount for the development of Libraries. So far, the Libraries in Polytechnics have not been manned by qualified librarians. This proved a great handicap, in effectively making use of the library by the students. To overcome this difficulty, the Government have created posts of qualified librarians in all the Polytechnics.

4. ENGINEERING COLLEGES

<i>Accounts, 1978-79</i>		<i>Revised Estimate, 1979-80</i>		<i>Budget Estimate, 1980-81</i>	
<i>Non-Plan</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan</i>	<i>Plan.:</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS)					
251.76	87.90	197.45	41.36	208.23	66.72

The figure of annual intake of the Engineering Colleges are shown in Appendix. These institutions offer 17 Undergraduate courses, 43 Post-graduate course and 9 Post-graduate diploma courses.

During 1979-80, the teacher students ratio was 1 : 10 and the per capita expenditure on students was Rs. 15,900 (for the entire course).

A Planetarium has been established at the Government College of Engineering, Salem which was declared open for public on 6th February 1979.

An additional hostel building was constructed at the Government College of Engineering, Salem at a total cost of Rs. 3.26 lakhs.

During the recent years, efforts have been made to encourage Ph. D. registration of both full-time and part-time students in Engineering Colleges. To support this activity in private Engineering Colleges, the Government have sanctioned a recurring expenditure of Rs. 1.00 lakh every year.

During 1980-81 it is proposed to set up new Labs/Departments in Engineering Colleges, mentioned below :—

- | | | |
|---|----|---|
| (1) Power System and Applied Electronics Laboratory | .. | } Government College of Technology, Coimbatore. |
| (2) Bio-Engineering Department | .. | |
| (3) Industrial Electronics Laboratory | .. | |

And it is also proposed to modernise the Electronics Laboratory at Alagappa Chettiar College of Engineering and Technology, Karaikudi.

It is also proposed to provide additional building facilities in the following institutions :

- | | | |
|---------------------------------------|----|---|
| (1) Production Engineering Laboratory | .. | Government College of Technology, Coimbatore |
| (2) Expansion of Girls Hostel | .. | Government College of Engineering, Salem. |
| (3) Class Room and Fixtures: | .. | A. C. College of Engineering and Technology, Karaikudi. |
| (4) Annex to Dispensary | .. | Do. |

5. PERARIGNAR ANNA UNIVERSITY OF TECHNOLOGY.

<i>Accounts:</i> 1978-79		<i>Revised Estimate,</i> 1979-80		<i>Budget Estimate,</i> 1980-81	
<i>Non-Plan</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS)					
..	19.93	250.00	1.05	180.00	0.01

For the development of Engineering, Technology and allied science and for furthering the advancement of learning and prosecution of research in Engineering, Technology and Allied Sciences, the Perarignar Anna University of Technology was established on 4th September, 1978.

The University is of unitary type and the College of Engineering, Guindy is the principal seat of the University. The following four departments formerly of the University of Madras, located in the A. C. College of Technology, Madras, viz.—

- (i) Department of Chemical Technology
- (ii) Department of Leather Technology
- (iii) Department of Textile Technology
- (iv) School of Architecture and Town Planning.

form part of the University. In addition, the Madras Institute of Technology, Chrompet, Madras also forms part of the University.

The annual intake of the constituent institutions are shown in Appendix.

During 1979-80, degree course in Applied Geology, Post-graduates courses in Material Science and Diploma course in Production Management were introduced.

6. MISCELLANEOUS.

<i>Accounts,</i> 1978-79		<i>Revised Estimate,</i> 1979-80		<i>Budget Estimate,</i> 1980-81	
<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>	<i>Non-Plan.</i>	<i>Plan.</i>
(1)	(2)	(3)	(4)	(5)	(6)
(RUPEES IN LAKHS)					
9.28	6.39	4.59	6.99	9.24	7.28

Book Banks have been established in all the Technical Institutions to help the poor and needy students with assistance from the State Government and Voluntary Contributions from private agencies. The Government of India have recently sanctioned a sum of Rs. 2.55 lakhs towards establishment of Book Bank exclusively for Scheduled Caste and Scheduled Tribes students in Engineering Colleges.

PLACEMENT SECTION.

As part of the career guidance programme, Placement Sections have been created in all the technical institutions in recent years to help and guide the students in securing suitable placements. An Officer at the level of the Head of Department is nominated on part-time basis as Placement Officer.

AWARD OF PRIZES FOR PROJECT WORKS.

Under the scheme on award of prizes for Best Project Works, the Government sanctioned Rs. 8,400 every year for the award of the prizes to the final year students of Engineering Colleges and Polytechnics who produce the best project works. The Government have since enhanced the value of the prizes amount from Rs. 8,400 to Rs. 16,800 from 1979-80.

Faculty Development.

Under Quality Improvement Programme, teachers of Engineering Colleges are sent to Institutes of Higher Learning like Indian Institutes of Technology and Indian Institute of Science Bangalore to acquire Doctorate Degree. So far 59 members have obtained Doctorate Degree and 42 members are currently undergoing studies and 10 members were deputed in 1980-81.

As regards Polytechnics, the teachers are deputed to Technical Teachers' Training Institute, Madras. Till date 271 teachers have been trained, 40 are undergoing training and 30 more will be deputed in 1980-81.

Industrial Training.

Under the scheme, teachers of Engineering Colleges and Polytechnics are sent to various Industrial establishments for short-term training every year, so that they may acquaint themselves with the latest practices prevailing in Industry. So far, 465 staff members have been trained.

Continuing Education Programme

Under Continuing Education Programme, members of Faculty are deputed every year to attend seminars, short-courses, Summer Schools, etc. organised periodically by various technical Institutions in the country.

Consultancy Services.

Staff members of the teaching Institutions undertake approved technical consultancy services with Industry and private organisations and charges are collected for services so rendered. Besides these, various commercial tests are conducted in different laboratories of technical institutions.

Direct Central Assistance.

The Government of India have selected certain technical institutions of this Department for availing of the grant of Special Direct Central Assistance. The Scheme involves the State's share of assistance at 25 per cent of the total financial commitment of each proposal approved under the scheme. The Government of India have provided a total assistance of Rs. 88.76 lakhs for the period ending 1979-80. The State's matching share so far released comes to Rs. 25.30 lakhs.

APPENDICES.

Annual Intake of Technical Educational Institutions under the control of the Director of Technical Education.

1. HIGHER SECONDARY SCHOOLS (VOCATIONAL.)

Name of institutions.

Attached to—

Government—

1 Central Polytechnic, Madras	58
2 Tamil Nadu Polytechnic, Madurai	56
3 Government Polytechnic, Coimbatore .. .	58
4 Government Polytechnic, Vellore	60
5 Government Polytechnic, Nagercoil	61
6 Government Polytechnic, Tiruchirappalli	50
7 Government Polytechnic, Tutirocin	32
8 Alagappa Polytechnic, Karaikudi	26
9 Bakthavatsalam Polytechnic, Kancheepuram	63
10 Rajagopal Polytechnic, Gudiyatham	60
11 Valivalam Desikar Polytechnic, Nagapattinam	61
	<hr/>
Total ..	585
	<hr/>

Aided—

1 Seshasayee Institute of Technology, Tiruchirappalli ..	60
2 Nachimuthu Polytechnic, Pollachi	28
3 Sankar Institute of Polytechnic, Talaiyuthu	60
	<hr/>
Total ..	148
	<hr/>

Total—Government and Aided .. 733

(2) POLYTECHNICS AND SPECIAL INSTITUTIONS—

Name of the polytechnic.	Diploma.		Post diploma.		Certificate.	
	Full time.	Part time.	Full time.	Part time.	Full time.	Part time.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
GOVERNMENT :						
1 Central Polytechnic, Madras.	390	120	70	90	60	..
2 Tamil Nadu Polytechnic Madurai.	200	60	20	..	..	..
3 Government Polytechnic, Tiruchirappalli.	120	55	20	..	..	..
4 Government Polytechnic, Coimbatore.	180	60	..	..	..	..
5 Government Polytechnic, Tuticorin.	120	30	20	..	..	..
6 Government Polytechnic, Vellore.	180	60	..	..	..	..
7 Government Polytechnic, Nagercoil.	180	45	..	..	..	..
8 Government Polytechnic, Krishnagiri.	180	..	..	..	..	..
9 Alagappa Polytechnic, Karaikudi.	120	..	..	..	..	..
10 Government Polytechnic for Women, Madras.	220	..	10	..	..	6
11 Government Polytechnic for Women, Madurai.	80	..	..	..	..	..
12 Government Polytechnic for Women, Coimbatore.	120	..	..	..	40	..
PRIVATE :						
1 Annamalai Polytechnic, Chettinad.	180	..	..	..	..	..
2 Bakthavatchalam Polytechnic, Kancheepuram.	120	..	..	..	..	..
3 C.I.T. Sandwich Polytechnic, Coimbatore.	60	..	..	..	..	..
4 C.N. Polytechnic, Madras	180	..	..	..	..	..
5 Murugappa Chettiar Memorial Polytechnic, Avadi, Madras.	180	..	..	..	..	..
6 Muthiah Polytechnic, Annamalainagar.	140	..	..	..	..	..
7 Nachimuthu Polytechnic, Pollachi.	240	..	20	..	..	..
8 P.A.C. Ramaswamy Raja Polytechnic, Rajapalayam.	180	..	..	..	..	..

Name of the Polytechnic	Diploma.		Post Diploma.		Certificate.	
	Full time.	Part time.	Full time.	Part time.	Full time.	Part time.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
9 P.S.G. Polytechnic, Coimbatore.	180	..	16	..	..	..
10 Rajagopal Polytechnic, Gudiyattam.	120	..	..	..	..	..
11 Ramakrishna Mission Technical Institute, Madras.	40	..	..	..	..	..
12 Sankar Institute of Polytechnic, Sankar-nagar, Talaiyuthu.	120	..	..	..	..	..
13 Seshasayee Institute of Technology Tiruchirappalli.	180	..	..	..	..	..
14 Srinivasa Subbaraya Polytechnic, Puttur.	120	..	..	..	..	..
15 Thiagarajar Polytechnic, Salem.	160	..	..	..	..	..
16 Valivalam Desikar Polytechnic, Nagapattinam.	180	..	..	..	..	..
17 Virudhunagar S. Vellai-chamy Nadar Polytechnic, Virudhunagar.	220	..	..	..	..	..
18 C.M. Kothari Technological Institute, Madras.	15	..	..	..	..	..
19 Ramakrishna Mission Vidyalaya Polytechnic, Coimbatore.	60	..	..	..	..	..
SPECIAL INSTITUTIONS :						
1 Institute of Leather Technology, Madras.	20	..	..	..	10	..
2 Institute of Printing Technology, Madras.	60	35	..	..	..	210
3 Institute of Chemical Technology, Madras.	100	..	..	..	..	..
4 Institute of Textile Technology, Madras.	30	..	..	..	..	..
5 State Institute of Commerce Education, Madras.	75	..	..	..	..	..
6 Government College of Arts and Crafts, Madras.	70	..	24	..	..	..
7 Government College of Arts and Crafts, Kumbakonam.	20	..	..	..	..	..
8 Tamil Nadu Institute of Architecture and Sculpture, Mamallapuram.	30	..	..	..	..	..
(a) Total intake ..	5,170	465	200	90	130	216

(3) ENGINEERING COLLEGES :

Name of the college.	Under-graduate.		Post-graduate.		Post-graduate diploma.	
	Full-	Part-	Full-	Part-	Full-	Part-
	time.	time.	time.	time.	time.	time.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
GOVERNMENT :						
1 Government College of Technology, Coimbatore.	220	60	30	30	..	..
2 Government College of Engineering, Salem.	150	60	..	..	..	..
3 Alagappa Chettiar College of Engineering and Technology, Karaikudi.	190	50	..	..	5	5
AIDED :						
1 P.S.G. College of Technology, Coimbatore.	220	60	112	..	10	..
2 Thiagarajar College of Engineering, Madurai.	220	90	30	..	..	..
3 Coimbatore Institute of Technology, Coimbatore.	220	60	26	..	6	..
PERARIGNAR ANNA UNIVERSITY OF TECHNOLOGY :						
1 College of Engineering, Guindy, Madras-25.	295	136	151	71	12	..
2 Madras Institute of Technology, Madras.	165	..	40	..	..	..
3 Alagappa Chettiar College, Madras.	106	..	25	..	..	..
4 School of Architecture and Town Planning, Madras.	20	..	20	..	..	..
AUTONOMOUS :						
1 Regional Engineering College, Tiruchirappalli.	120	75	48	26	..	..
Total intake	1,926	591	482	127	33	5

COMMERCE EXAMINATIONS :

EXAMINATION SUBJECTS—

- (1) English Typewriting.
- (2) Tamil Typewriting
- (3) English Shorthand.
- (4) Tamil Shorthand.
- (5) Commercial Geography.
- (6) Accountancy.

NUMBER OF APPROVED INSTITUTIONS :

	1978	1979	1980
	1,400	1,500	1,700

Number of candidates (for all subjects)—

	<i>Appeared</i>	<i>Passed.</i>	<i>Percentage.</i>
June, 1978	72,965	29,265	40.0
December, 1978	76,152	31,442	41.0
May 1979	75,639	29,328	38.8
November 1979	70,352	27,895	39.6

Sub. National Systems Unit,
National Institute of Educational
Planning and Administration
17-A, Avenida de Mar, Manila 110016
DOC. No... 1963 ..
Date... 7/12/84 ..

