CHAPTER V

SPECIAL STUDIES ON PUPIL TEACHER MATIOS

EMPOLMENT BASED DUPIL TRACKER RATIO

The Importance

5.1.1. The bulk of education expenditure in Tamil Near in spent on salaries to teachers. 95 percent of the expenditure in 1975-76 budget is on salaries, grants-in-aid, contribution and subsidies. This includes salaries to non-teaching staff and a certain percent of subsidies and grants other than teaching grants. Even allowing 10 percent for such other items coming under non-teaching salary category, nearly 86 percent of expenditure goes for teachers' salaries. Therefore, teacher cost is the insjor item which needs our attention for effective cost control and meaningful cost reduction in the education

system. The next ocea for our indepth analysis will be the zone of actual teacher requirements for normal teaching under prescribed norms.

Funil-teacher ratio

Syl.2. Fupil-teacher ratio is the index to measure the teacher provision in the education systems. It is nomally computed as a ratio of the number of public on roll and the number of teachers employed. The pupil-teacher ratio varies with (a) the level of education, being large at the lower and small at the higher levels; (b) the effectiveness of the individual teacher (the average Japanese Primary School for instance has a class size of 50/60 and yet to one of the most efficient systems); (c) the level of development and financial resources of the end (d) the birth rate which usually determines Statear the size of the class. The teacher-pupil ratio is the most important factor determining costs on primary education and consequently the budget provisions.

SPECIAL STUDY ON PUPILS ATTENDANCE AND TEACHER APPOINTMENT IN PANCHAYAT UNION SCHOOLS

Objective

5.2.1. Majority of primary schools (70 percent) are managed by Panchayat Unions. Therefore, any strategy to streemline the education system should first of all be adopted in the Panchayat Union schools. With this view a special study was conducted on pupils' attendance and toacher appointment in Panchayat Union schools. Government have issued orders in G.O.Miscellancous No.250 to carly as 1964 to appoint teachers on the basis of average attendance. The objective of the special study

yos to find out whether the norms fixed by the Government in their order Miscellaneous No.250, dated 22nd February, 1964, governing the pupil-teacher ratio are strictly achered to in the Panchayat Union schools without any deviation and to explore how far control and corrective measures to improve the efficiency of the primary education system can be taken up.

Comple size

5,2.2. Out of a total of 374 Panchayat Unions in the State, primary education has been entrusted to 364
Panchyat Unions. Out of these 364 Panchayat Unions,
2 each from Chingleput and North Arcot were selected for the study. From each Union, six schools were selected involving a field study of 24 schools.

The acceets covered

5.2.3. Care was taken to see that the necessary espects of the question are covered in the study. Viz.. Exposts, monthly average attendance and pupil-teacher ratio as a mean of testing whether the norm referred to for the appointment of teacher in the primary schools have been complied with or not.

Tendi kadu noma

5.2.4. For this State, the pupil-teacher ratios as fixed in Government Order No.250, Education, dated 29th February 1964 for different types/levels of schools and for division of sections are as follows:

TABLE V-1

TEMBERS ATTRONISED BY G.O. Ms. No. 250, Education Dept., dated 29th February, 1964 (Summarised)

ends to vacantement of echoo	lo e	No.of eacher missil	30	atte	ly aver m c ance wired	
l. dinglo teacher school	* *	1	30			
e Other than Single Teache schools with combination two or more standards		2 3 4 5	55 75	and and	above above above above	,
i. If the otenderds are div into two or more section for each section		123 4 5	35 Det	ing (d	1 36 an 71 106 141	109 140
. If the standards are not cec lets two or more sec		1 2 3 4 5	55 75	and and	above above above above	•
i. (a) Upper Primary standa of Upper Primary con for each Std. (VI to	ools	1	20		,	
(b) For each coction	***	1 2 3	61	and	ovode ovode	
	(and	so on	afte		rds in	
i. Combination of standard there is no minimum aver ottendance of 20 in each Upper Primary standards	ක ලුල	3		b ns :6000	above s 55	
Incomplete Upper Frimary schools with standards V VII on the bighest	Zor Z	2 3 4 5 5	55 7 5	and and	above above avode ovode	

or moro sections)

Application

5.2.5. It will be instructive to examine how far the norms fixed by the Government in their order 10.250.

Education, deted 29th February 1964 concerning the pupil-teacher ratio are adhered to in the Panchayet Union schools.

The Rackeround

5.2.6. In accordance with Government Order No.250, Didication, in practice, the Panchayat Unions are compatent to appoint teachers for the schools under their control on the basis of the formula governed by the panil-teacher ratio. Hach year the District Educational Officer ellocates the number of now toacher's posts based on the financial genetion available. For purpose of calculating the average attendance each school under any particular management is treated as a unit in the case of sided schools. In the case of Pancheyat Unions, however, all the schools under the direct management of Panchayat Union are treated as a single unit. proctice acems to originate from pera 7 of an instruction issued by the Director of School Maketion in clarification of Government Order, Miscellaneous Wo.793, The relevant para reads 'In the case of Panchayat Union schools, the not additional envolment in all the schools put together may be taken into account for purpose of utilising the additional teacher's posts. If additional pages are required over and above the posts now allotted (one for each Panchayat Union) the Panchayat Union Commissioner may apply to the District Educational Officer, who will ellot additional posts to the extent necessary after satisfying himself whether all the conditions regarding additional envolment, pupil-teacher

ratio and other relevant rules in the matter are fulfilled. The grant due to the aided schools is sanctioned by the District Educational Officer every month. While senctioning the grant any secretee in the everage attendance in the month will be taken into account and the grant will be disallowed. In the case of Panchayat Unions, the grant is sunctioned by the Director of School Education in four equal instalments in the months of April. July, October and January on the basis of annual educational budget of each Penchayat Union as approved by the Disastor of Aural Davelopment. The private management is eligible for 100 percent teaching grant plus a maintenames great of 6 percent. The Penchayet Union as por Timil Nedu Pendhayat Act. 1950, is responsible for primary schools in its area and the Covernment pheres the cost through the following system of grants :

Lilustration as contained in Government Order Miscalleneous No. 2077. Education, deted 20th Scotember 1972

- (1) Total expenditure under Education Fund Account (ordinary)
- (2) Deduct: Per capite grant at a 6 with reference to 1971 census population
- (3) Dalance
- (4) Deduct: New Education grant with reference to new classification and new percentage
- . (5) Belance
 - (6) 4/9th of local dees transfer
 - (7) Balance to be met by the Panchayat Union from other sources

The practice

5.2.7. In practice, the inadequacy of average attendence in a Panchayat Union school in not an adequate reason to disallow the grant. It is enough if the monthly everage attendance in all the schools of any Panchayat Union taken together is sufficient when comparing it with that of the total number of teachers working in the Union. Only if the conthly average ottendance in all the Panchayat Union achools as taken together is not adequate to support the pupil-teacher rutto can the grant hel elsellowed to the junior-most teacher or teachers so the case may be provided in para 2(111) of Government Order No. 250, which reads 'the number of teochers fixed by the District Educational Officer should be continued until the next reflication and it would be the responsi-... bility of the teachers and the managements ensure that the required attendance is maintained throughout. the everage attendence decreases in any month, the grant due to the junior-most teacher or teachers will be Cicallowed'.

Recommendation

5.2.8. As the need for a teacher has to be assessed only with regard to the attendance in each school and on that basis the proper deployment of teachers be effected, it is recommended that the practice as explained above should be dropped in future. Additional teachers may be sanctioned based on the attendance in each school and not on the basis of attendance in all the schools in a panchayat Union put together.

Monthly average attendence and publi-teacher ratio

5,2.9. The monthly average attendance for the different

schools covered in the study and the number of teachers that are admissible/conctioned are shown in Toble V-2.

5.2.10. The table shows that out of 24 schools covered by the sample. 7 schools have teachers according to the norms prescribed and all others have had deviation. In the case of 12 schools there is a deficit and in 5 schools there is a surplus. While deficiency goes upto 6 teachers, the surplus recorded is 3.

Rancom check and the staff position

5.2.11. This is the picture that emerges, if the position of monthly attendance recorded is accepted as true. And this picture shows surplus staff to be negligible. A random check made by the study team in the case of 24 schools by questioning the pupils however raises a question about the reliability of the reported attendance.

5.2.12. Table V-3 shows the average attendance in the month of July 1973 (which is the month for fixing the edmissibility of teachers for the school) as compared to the actual attendance at the time of the visit.

5.2.13. It may be seen that when comparing the reported average attendance with the actual attendance, the actual attendance is lower in most of theschools. In certain actuals the actual attendance is as low as 50 percent of the reported average attendance. Special reasons like local celebrations of feativels or rains were not there to justify such a big disparity between average attendance and actual attendance on the day of visit so that the actual attendance can be taken to be normal attendance.

There V-2

REPORTED MONTHLY AVERAGE ATTENDANCE FROM MONTHLY RETURNS OF 24 SCHOOLS

	Panchayot Union school		atten	average dance ing	reachero			
			July 1973	0ct. 1973	Sanc	- Sli- -gible for July.	Eli- gible for	
(2)	(2)		(3)	(4)	(5)	(6)	. (7)	
-	iyar saab amba firibi pilipi ilikir hafa iliyir abay iliyol salan dilir dalar dalar daga daga daga daga faran bil			· 金叶 电子 344 电路 表现 电记录器 电流	hat the state that the	p in the state of		
VON	ARAPAKKAM	*				·	,	
2.	Perumbairkandigai Kadamalaiputhur Minnal Kilminnal	**	178 114 35	166 120 33	952445	9 5 2 6	86364	
5.	Kilathivekkam Minal Chithemur	**	125 76	122 79	4	6 4	6	
6.	Ganéhi Negar	**	118	121	5	ß	6	
KAT	Tankolathur					j.		
7.	Kalvoy	**	97	87	5	5	4	
	Ozholur	* *	33	34	52221	2	3	
	Permethonellur	₩ ₩	53 49	59 4 6	2	2	3	
	Irugundrampalli Malkalvoy	**	37	33	*	2	6	
	Kannivakkan	**	48	53	2	528888	2222	
CISE	TCAM							
13.	Tholelyuthu	* *	133	104	5	6	5	
14.	Arathavodi	**	121	108	4	6 6 9 9	55666	
15.	Pinjur	* *	122	757	4	6.	G	
	Paramanandel	* *	239	179	12	Ş	. 9	
	Kottavur	. **	109 138	121 133	4 9	3 9	ල ර	
	Kuppanathen MDI	* *	2.59	2.30	7		U	
	Unnomalaisemudram		52	47	9	9	ð	
	Kilmithur	**	81	82	2	å	ď	
	Kerigeri	**	138	133	2 2 5 3 8	2 6 3	26036	
	Some	**	64	72	3	3	3	
23.	Kalinjur	#.#	380	327			14	
34,	Vetheranthengel	* *	262	233	12	13	11 	
	WOAL			:	113	127	134	

Table V-3
Attendance at the time of Visit

J. No. School	r a G L	ance	Actual atran- gth of ataff	dance on the date of		rendered
(2)		aly'7 (3)	3 (4)	visit (5)	(6)	(7)
	20		,	* ***		
L. Permbairke			9	146	7	+3
2. Kadamalaipt	icinus	114	<u>s</u> .	120	6	-3.
3. Mirmel Kile			2	26	2	· 🚣 ,
4. Kilathivek	ien	125	4.	87	4	*
S. Minnalchitt	ièmie	7 6	4	39	2	+2
6. General Hage		110	5	90	. 4	+1
7. Kelvoy			Š.	84	4	+1
8. Ozbalur		33	5 2	23	1	41
9. Forumathane			2	45	2	(byes
o. Trungundra	malli	49.	2	48	2	444
1. Melkelvoy		37	1.	33	2	
2. Konnivakka	1	48	2	44	2	•••
3. Tholaiyuth	2	133	5 .	72	3	+2
4. Arathevodi		121	4	102	3 5	-1
5. Pinjur		122	4.	59	3	+1
6. Peramenende		238	12	182	9	+3
7. Kottevur		109	4	82	4	, ***
6. Kuppenathor		138	9	117	6	+3
9. Unnamelais			2	36		•
0. Kilmothur	**	81	2	65	3	-1
d. Kasigeri	• •	128	5	115	6	· -1
22. Senur	**		3	62	3	* 446
23. Kelinjur		380	8、	231	20	-2
14. Vetheranth	ingel	262	12	246	12	- ***
Total		-	113		104	+0

On this basis, the staff rendered surplus is 9 in respect of the 24 schools spread over the 4 sample blocks which works out to 8 percent over the required staff strength.

fonsted attendence

5.2.14. The fact of boosted attendance is further correbopated by the Table V-4, which shows the disparity in attendance as recorded by the schools and the actual attendance for a particular day.

5.2.15. It can be seen from the Table V-4 that boosted attendance is shown for as many as 34 pupils (32 percent) in certain schools (in Minnel Chithamur and Thalaiyuthu) and it is not negligible in 5 other cases where it is 10 and above.

Average attendance during prescribed Vigita of inspectors

5.2.16. It is, however, strange to see that there is no notable disparity between the monthly average attendance as recorded by the school and the attendance as recorded by the Deputy Inspectors of Schools Visiting the schools pariodically as is brought out by Table V-5.

Practice contrary to Government norms

5.2.17. Government Order, Miscellaneous No.250, stipulates that the minimum everage attendence for the continuance of any primary school shall be 20 and that no grant shall be calculated in a month for any teacher in a school if the everage total attendance for the month is less than 20 pupils. The schools in Table V-6 are allowed to continue contrary to the instructions circulated in Government Order.

The V-4

	SCHOOL ATTEMPA	ice nepot	and dead	VERIFIED	
5. M	o. Panchoyat Union	,	Atten- dance marked on the date of study (visit)	Actual attended after verification	Felso atten- dance
(2)	(2)		(3)	(4)	(5)
,		and them were properties about the properties and		anderen franke kentery fransjoet improved merepakansen betrekke mengsa belang	and an extension of the large terms.
	AMPAISIAN				
	Portabalifiandigari		168	146	5
2.	Kilathivakken	* *	97	87	10
3.	Winnelchithomur	**	73	39	34
te.	Canchi Negar	* 0	114	90	24
CHE	YCAM				
5.	TheLeLyuthu	**	106	72	34
6.	Arathemei		116	102	16
7.	Paramanandal	* *	192	162	10
KAT	PADI				
8.	Kilmothur	••	68	65	3
- 9,	Karigari	***	126	115	11
10.	Sonur	* *	66 '	G2	4
1140	Kelinjur	# / © /	235	331	Ģ

source : Study Report of the Director of Evaluation and Applied Rescond. Madros

Table V-5

SCHOOL ATTEMPANCE REPORTED BY THE SCHOOLS AND DEPUTY INSPECTORS OF SCHOOLS

9.1%	e. School	1 ,	Average atten- dancein July '73	of Depr	ince at ity Inepo from Juno itober 1:	ectos" e
	•			1	11	211
	•			Vicit	Vioit	Vicie
(l)	i interior an anterior de english di apage de anterior anterior an (8)	*** 	(3) ************************************	(4)	(5)	(6)
T.	Perumbalikandigai	٠.	178		-	**
	Kadamalofputhur	~ *	ĨĬĞ	, =	_	
	Minnal Kilminnal	**	35	34	35	\$60-
	K11ath1vokkom	4 *	125	114	122	753
5.	Minnalchithemur	4 4	76	**	***	-
5 *	Gandal Neger	**	118	104	106	- 100
	Rolvoy	4 4 "	97	93	* ,	èm
D.	Ozhalur	••	33	30	#**	34
	Perumathenellur	₩.	59	40	· · · · · · · · · · · · · · · · · · ·	, ((m)
	Irungundrenpalli	* #	49	50	49	52
	Melkalvoy	**	37		146	-
12.	Kennivakken	**	46	54	446	**
13.	Thelalyuthu	**	133	114	**	nji.
Lo.	Arathavodi	₩:#•	121	109	inte .	-
L S.	Pinjur	**	122	116	98	₩
	Paramandal	**	238	191	***	-in
	Nottavur	· · · · · · · · · · · · · · · · · · ·	109	115	, 44 .	***
	Kuppenathen	* #	130	144	106	466
19.		#·#	52	56	42.	37
30.	Kilmottur	**	91	86	98	ipi.
	Karlgori		128	123	101	-
	Senur	**	64	69	68	HÔY MA AT AT A
	Kelinjur	**	380	277	315	369
20.	Vetharunthangal	**	262	260	***	**

CONTRAVENING OF GOVERNMENT ORDER, MISCELLAMEOUS, No. 250. EDUCATION

•17	o. Hene of the	school	Average attendance for Octo- ber,1973	Number of teachers working
1.	Baburayanpettai	##	9	*
2,	Vaduklasputhur	• •	ġ	1.
9.	Mettunamilai	. * *	19	2
	Aneri&eva&a1	w. 3m	9	1

5.2.18. In Government Order, Miscellanesus, No.251.
Education, dated 29th June 1964, powers are given to the Director of Public Instruction in regard to opening of new schools as well as the ellotment of additional teachers both in Pancheyat Union areas and non-Panchayat Union areas. In pursuance of this order the annual budgetary and plan provisions for primary education is placed at the disposal of the Director and he is to allot the required provision to the District Educational Officers. In para 4 of the Covernment Order, Miscellaneous, No.1965, modifying the Order No.251, powers havebeen given to Panchayat Union Councils to open new schools without consulting the Saucation Department as follows:

"The Covernment direct that the Pancheyat Union Councils be empowered to open new primary schools without consulting the Education Department subject to the fulfilment of the conditions that the population of the area is not less than 300

and that there is no primary school within a redius of one mile. The Panchayet Union Councils should, however, obtain recognition for the schools newly opened within three months from the date of opening of the schools. In all other cases, the Pancheyat Union Councils should consult the Director of School Education before opening new schools."

5.2.19. The power conferred on Panchayat Union Councils leys down two conditions for opening of schools. The norm mentioned in the third condition, namely, the minimum number of pupils. 20 in a school for the entitlement of a teacher was not stipulated. This however coupled with treating the entire Panchayat Union as a unit for elletment of teachers has led to the opening of schools well below the minimum student strength as noted earlier.

He judicious distribution of teachers

5.2.20. Even within a Union, the teachers are not judicloudly distributed as can be seen from the Table V-7.

5.2.21. Hany an enemaly as described above arise due to dual control and supervision of education at primary level especially in respect of Panchayat Union schools. Further, the quality of education also suffers because, the teacher's position is difficult in Panchayat Union schools. Ighal Harain analyses the teacher's position in Panchayat Union schools of Rajasthan Clearly in his article 'Rural Local

^{1. 3.} M. Rudolph and L. I. Rudolph (ed), Education and Politics in Inde. Oxford University Pross. Delhi, 1972. p. 155.

TABLE V.7
DISTRIBUTION OF TEACHERS

•	Namo of school		Number of teachers working	Number of tenchers admissi- ble	Excess or defici- ency
ALC:	an yang sine saka masy pina ada saka saka diga saka saka saka saka saka saka saka sa				
	ziarapakkan Yichayat Union	*			
	Mathor	* *	9	6	*3
	Nedungal.	# :#-	7	4	+3
	Keelemir	**	7	S	+2
	Beburayanpettai Colony	* *	; 3.	2	·• 1
' -	Anaikunnen	m , #	1	3	-2
-	Porgal	* •	3	5	*2
	Hengam Nikhayat Union				
	Paramanandal	**	12) g	+3
•	Kuppanathan	**	9	7	+2
	Anyarebad		2	5	*3
	Mepaturai	**	2	4	2

Source: Study Report of the Director of Evoluation and Applied Research, Madras

Folitics and Primary School Management' as follows :

"The teacher's position is made more difficult because of the multiple control by the Wlock Development Officers and the Extension Officer, Education on the official side and the <u>prachen</u>, the <u>earpanch</u> and the <u>panches</u> (elected members of the pancheyat) on the unofficial side. When the official and non-official wings compire or stand at deggers drawn, his plight becomes pethetic."

5.2.22. Further the Report of the Panchayat Education Pinance Engulry Committee (1970) found out that like all other departments agriculture, public works etc., there should be technical personnel to assist the Block Development Officers and Chairmen of Panchoyat Union Councils in the management aspect of primary schools. The study Sound out that out of 375 Social Education Organisary/ Extension Officers (Education), only 73 were teachers. As many as 230 were Grama Sevaks possessing the minimum general educational qualification. The cormittee also recommended: "The future vacancies of the posts of Extension Officers (Education) will be filled up in the ratio of 1:1:3 Gramasevok, Grade-I Panchayat Union Neomaster and direct recruitment or transfer from Education Department to be done by the Director of School Education." Implementation of this recommendation will help to improve the existing situation.

SCHOOL ACCOMMODATION AS A LIMITIMO FACTOR

Cortain case studies

5.3.1. There is also the question of the relation of the number of teachers' posts not only to the number of

^{2.} E.C.P.Probekar was the chairman of the Committee. Coveragent of Tamil Madu, Nedras, 1970.

etudents in attendance but also to the number for whom there is actual accommodation in the school. It may be essent from the following table that the number of texchers actually required with reference to the accommodation available in a school may be less than the number of teachers required as per the new ratio:

TABLE V-8
AVERAGE ATTENDANCE AND NUMBER OF EFFECTIVE SCHOOL PLACES
AVAILABLE (JULY 1974)

School	Average Atten- dance of the school	Number of effec- tive school places evai- loble	Number of school places defi- cient	Total number of ten- chers cligible as per G.O.Ms. 250, Edu- cation. 29-2-64	manber of teachers considers
ir dave som som som kall som ble som Little ik som			rin dikering, arad dipangan ang mag mag mag-pa (A)		iran irana iranin akist G Mayan an an an an an an an
A	549	200	349	10	14
B	309	115	194	11	7
C	439	191	248	15	12
p	504	228	276	17	13
B	445	204	241	15	9 .
F	1161	534	627	33	24
G	292	227	65	11	**

5.3.2. The above examples are actual cases of schools being entitled to a certain number of teschers on the basis of the established pupil-teacher ratio but who should

^{3.} From investigations conducted in Madusai and Madros for Tamil Madu Education Finance Enquiry Commistee, 1975.

be sanctioned a smaller number on the basis of actual accommodation available.

5.4.1. Due to various exegenous and endogenous factors and constraints, the average attendence of pupils is always short of the envolment figures. Shortage in attendance of pupils is closely linked with dropouts. In order to examine the relation between the number of pupils reportedly envolled in each school and the actual overage attendance of pupils, at the actual overage attendance of pupils, at the actual overage attendance of pupils, at the actual colors (1975) of primary schools in the following four select ranges was undertaken by us.

- (1) Villupuram range (Urban)
- (2) honiyur (Bural)
- (3) Krishnagiri (General) (Rural)
- (4) Krishnegiri (Block range) (Semi-urban)

5.4.2. Table V-9 shows the percentages of monthly average attendance as marked by the staff of the institutions and the average attendance as found during outprise visit.

Findings

5.4.3. It is observed from the table that the percentage of the average attendence to envolment in Panchayat Union achools which are in rural areas ranges from 35.1 percent to 36.4 percent. Girlo' attendance is less than

Table V-9 comparative statement of the percentage of average attempance (ρ_1) and visit attempance (ρ_2) (1973-74)

G.i	• دا	Manage-	Location	Boy		-	ids		tol
	ment		i i i i i i i i i i i i i i i i i i i		sa	Pı	P ₂		2,1
(1)	m tanar		(3) 	(4)	(5)	(6)	(7)	(8)	(D)
1.		seitcyst ìon	(%) Farel	64.44	59.5	53.9	46.2	60.6	55.5
₹.		consyst iom	Aural (KG)	50.8	46,9	48.2	35.1	52.3	02.7
3.	i L	00 0	itural (a)	81.9	78.0	72.3	68.9	77.6	73.9
4.	27	ීර ්	Uzban (KB)	89.7	01.5	93.2	79.5	90.8	00.6
Ş.	, Tags	ĉ eĉ	Tribon (V)	81.6	81.6	81.6	84.2	81.6	-62.8
G.	7-111	nicipal	Uzbarı (KB)	71.5	71.9	74.5	76.3	73.0	73.7
7.	in	nicipal	Urban (V)	77.8	77.5	74.2	79.8	76.2	70.5
Э.	اهن	verment	Urban (V)	73.2	75.3	63.2	71.1	8.88	73.6

Note: (A) = Annique, (MG) = Krichnagiri General, (V) = Villupurss, (XE) = Krichnagiri Block.

Basis: Guick survey conducted in Villupuram and Krishnagiri Districts that of the boys in general. The table establishes the following important facts:

- (a) In general the average attendence is nearly falls short of enrolment from 10 to 50 percent:
 - (b) The percentage of average attendance in Pancheyat Union schools in rural areas is comparatively less than the percentage of average attendance in urban schools:
 - (c) There is marked difference between the percentage of average attendance taken at the time of visit and the percentage of average attendance as marked by the teachers. The shortage during the visit is upto 13 percent.
 - (d) The variation in attendance as marked by the teachers during visit is not much in respect of other management schools, municipal, private and government.

STATE SURVEY ON AVERAGE ATTEMPANCE AND RESULTING PUPIL—TEACHER NATIO

Chientives of the Survey

5.5.1. With a view to arrive at the average attendance at different levels of education and at different management a special survey was conducted. Based on the average attendance the respective pupil-teacher ratios were also computed which serve as a good indicator for basing our educational planning with economic back-ground.

Forcentage of average attendance at lower primary level

5.5.2. For the State as a whole the percentage of average

attendance of pupils at primary level is as follows :

TABLE V-10
STATE PERCENTAGE OF AVERAGE ATTEMPANCE
(LONER PRIMARY LEVEL) -- 1972-173

Туре	n,	Govern- ment	Pan- cha- yst Union	Muni- cipal	Pri- vote	Foz all monage- ments
unga famo 1900, bisa part han' taon hain dan falia dah distri kuju hain arab tagib tagis part 	* **** *** ***	and the art of an activity are the a		**************************************		6 ************************************
•	* '*	81.6	70.9	84.0	63.7	76.1
Mgher Primary	6 4	Bl.3	69.6	81.9	87.2	79.0
High School (Boys)	• • •	50.6	***	87.3	92.2	90.8
Weighted average	* *	83.7	70.3	84.3	05.2	61.9

Source: From the Report of the Special Study by the Statistical Officer, School Education Department, Madras

5.5.3. The above table shows a more optimistic picture of everage attendance in respect of Panchayat Union schools than the results of the study of four ranges, viz., the Panchayat Union schools have an average attendance of 70.3 percent in the above table while in the four ranges studied the average attendance varies from 42 to 61 percent of enrolment. The private sided achools have an average attendance of 85.2 percent in the above table while the four ranges show an average attendance of 85.2 percent in

5.5.4. The following table indicates the everage attendance of pupils to the encolment at higher primary lovel for the State as a whole:

TABLE V-11
STATE PERCENTAGE OF AVEILAGE ATTENDANCE
(HIGHER PRIMARY LEVEL) -- 1972-73

ZĀDG		Govern- ment	Pan- cha- yet Union	Muni- cipal	Pri- vote	Por all manage- menus
gas eefan eesta eina uluku eefan diina diina Baraa eefan ee Coff-alaa 1620 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230 - 4230	al. 5.00 time t	本の かんか かんか かり かんか から から かか かだい かんか か ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・			and the new part and the sector of the secto	the first arms gate from way were some the transfer. We will be the transfer of the transfer o
					1.	
Mighor Primery	* ÷	81.7	72.0	81.0	85.9	79.5
Migh Schools (Boys)		88.2	Next .	85.4	90.6	88.7
(Glais)		90.0	در ب نسی	88.2	91.7	89.6

Source: From the Report of the Special Study by the Statistical Officer, School Education Department, Madras

5.5.5. Here also the percentage in respect of Panchayat Union schools is less than that of the other management schools. In Government and private institutions the percentage is nearly 90 percent whereas in Panchayat Union schools it is 72 percent only. It may be due to the fact that all the Panchayat Union schools are located in sural arous.

Publi-teacher ratio

5.5.6. Another relevant indicator is the pupil-teacher ratio. The following table shows the Statewise everage pupil-teacher rutio for higher primary level (I to V standards):

PUPIL-TEACHER RATIO (LOWER PRIMARY LEVEL) __ 1972_73

			yet Union	Muni- cipal	Pri- vate	For all manage- ments
alam cine-con t-the day may alam can consumer on the limit of the line of the day of the day of the line of the li		City things stript stript some states about the city of the city o	3	A Commission of the second	5	AN AND AN AN AND AND AND AND AND AND AND
Lower Primary	9 %	27	25	26	31	20
Higher Drivery	₩ #	28	27	32	35	31
High School (Boya)	* *	. 35	. 19	29	39	36
High School (Girle)	* ¥	34	416	***	43	40
Ngighted average	, * 3	in an are an are an area.	27	30	39	94

Source: From the Report of the Special Study by the Statistical Officer. Directorate of School Efection, Madres

5.5.7. The ratio is 31 in respect of primary schools under private management but it is less than 30 in other managements. It is 26 in respect of Fanchayat Union primary schools. It is 27 for Fanchayat Union higher primary schools compared to 35 for private management higher primary schools. Government high schools for Doys and Girls range from 34 to 35 while private ones from 39 to 43.

5.5.8. Pupil-teacher ratio for higher primary level (VI to VIII standards) is shown in table below:

PUPIL_TEACHER PATIO (HIGHER PRIMARY LEVEL) -- 1972-73

		96		Govern- ment	Pan- cha- yat Union	Muni- cipal	Pri- Vate	For all manage- ments
i salar dala kaja gillangia.			r man 1795 tirly (m)	e departuri dura den disk izar eda spesi	3			
ilighe	r prime	ry	**	23	19	25	29	24
-	School		**	31	***	35	39	35
Mich	School.	(Girls)	¥ ÷	33	**	38	34	34
voigh	ted ave	N age	**	32	19	33	38	34

Source: From the Report of a Special Study by the Statistical Officer, Directorate of School Education, Madras

5.5.9. The pupil-teacher ratio is very low except in private and municipal schools. It is very low in Panchayat Union higher primary schools at 1:19.

Suggested reposici pessuke

5.5.10. Taking into account that the average attendance of Panchayat Union schools is 70 percent of the reported encolment and that its pupil-teacher ratio is the lowest at 27 in lower primary schools and 19 in higher primary schools, the future vacancies in schools should be filled up on the basis of the following fectors as applied to each school:

- the attendance in the school in the past year
- the likely increase in the attendance in the coming year

- the number of teachers employed in the post year
- the adequacy or otherwise of the remaining teaching staff for the coming year
- whether the envolment made or proposed is in keeping with the number of school places and the identification of the excess of strength above the school places

INTER STATE COMPARISON

5.6.1. The pupil-teacher ratio in this State and other States in India at primary level of education is shown in the table:

PUPIL_TEACHER RATIO AT PRIMARY LEVEL OF EDUCATION IN THUIS

State	Lower primery	Higher primery	
part fran dar hans esteratio historius fate qui fate part este sobri data data dare han per part ann man pan A L Live man flar man men man data tanin son attribuito dare tanto man attribuito data tanin sono attribuito data	nam milir upun daga pada apip attik man-aian neigi attik milin. Ži mili aian man-aian daga daga daga daga daga daga daga da	3	
Tamil Nach	* *	35	33
Maharashtra	* *	36	35
Gujazat	• •	38	36
Andhra Pradesh	# *	39	20
Korela	**	39	35
Kematake	• •	44	40
Utter Pracech	4 * ·	. 44	, 25
West Pengel	**	36	23
Punjeb	* .*	39	33
ALL INDIA	• •	36	31

Source: 'Bducational Statistics At a Glance 1973'
Statistics and Information Division, Ministry
of Education and Social Welfare, New Delhi

5.6.2. It is seen from the above table that the pupilteacher ratio in Tamil Nadu at lower primary level is
the least among the States in India. At higher primary
level, the teacher-pupil ratio is least in Anchro Pradesh
and the greatest in Kernataka. It may be noted here that
the pupil-teacher ratio of Tamil Nadu has been worked out
excluding the specialist teachers such as craft mesters
ote. When these specialist teachers also are taken into
account the ratio will be still less at higher primary
level.

5.6.3. The pupil-teacher ratio at first level of education in some of the countries are shown in the table below:

Pupil_Teacher ratio at first level of education in different countries

Countr	reins das innerna am mit tentific em filmain Pér-	Migher primary	
and the same and and and an order of the same same same same same same and and an order of the same same same same same same same sam		dilis des mais difficação describir pais especial.	
Japan	**	26	19
France		23	16
U K	**	24	14
USA	** •	24	19
USSR		17	9
		First level	i.
Pokiston*	**	44(1969)) }
Sri Lonka ⁺	**	29 (1,964)) .

Source: *Statistical Year Book 1972, UNESCO

Tragress of Réucation in the Asian Region, Unasco Regional Officer for Education, 1969. Bangkok

5.6.4. The above table shows that in the developed countries the pupil-teacher ratio is far less than that of the developing countries. In Pakistan the ratio is more or less on par with Indian States.

ALTERNATIVES IN PUPIL-TEACHER RATIO

Education Commission's recommendation

5.7.1. The Education Commission (1964-66) recommended the financing of education on the basis of the following pupil-teacher ratios:

Pupil_Teacher ratio as per the education commission

Level		1975-76	1985-86
ann agu san sar agu ligh dial ant gas tao dhèinid tua tao dar adhlach dh' dial di L			3
indi distribuit distribuit sing and the sale of the data with the sale of the	中央教学部 (40) (40) (40) (40)	· · · · · · · · · · · · · · · · · · ·	n deus delps sont deus deuts und seint dies deutschen selbs delps dies
Lower princey	PARIANIANA ARAMANIANA ARAMANIANA ARAMANIANA ARAMANIANA ARAMANIANA ARAMANIANA ARAMANIANA ARAMANIANA ARAMANIANA Pariana	50	45

Icmadiate Suture needs

5.7.2. In view of the fact that due to the population increase which has taken place, lower primary school encolment will increase in Temil Nacu by 20 percent by the end of the Sixth Plan (from 55 lekhs to 65 lekhs). higher primary encolment by 150 percent (from 15 lekhs to 35 lekhs), the establishment of an appropriate pupil-teacher norm is important from the point of view of the extent of State sources and share of the ennual budget that will have to be allocated to Education.

Alternative sunil-teacher ratio

5.7.3. Taking into account all these factors, the following alternative pupil-teacher ratios recommended by the Matienal and State Commissions can be considered.

TABLE V-17
ALTERNATIVE PUPIL-TEACHER RATIO

Level	*Current in Tamil Nadu 1-0-'74	Commis- sion (*)	State Plenning Commission (**)	
- And were the sign and was the sign and the		and the state of t		
Lower primary	35	50	37	
Higher primary	** 33	35	33	

- Source: (*) D.S.Kotheri, Chairman, Education Commission (1964-66), Education and National Development, Ministry of Education, Government of Incla, 1966
 - (**) Malcolm S.Adiseshiah, Member, State Planning Commission, Temil Nadu and Chairman of the Task Force on Education, Science and Technology, prepared 'Towards & Learning Society' —The Perspective Plan for Temil Nadu'72-74
 - Educational Statistics, Directorate of School Education, Madras

The Implication

5.7.4. If these ratios are applied to the school system in the State as at first August 1974 the number of teachers needed against approved posts will be:

TABLE V_18
IMPLICATIONS FOR TRACHER POSTS

•	Sanc- tioned posts	Number of total posta required as per		
Level	of tea- chers on 2-8-'74	Education Commis- sion	State Planning Commission	
the same and a way what high adjoin make make and a wight days often and and and and and and and and and an	in agus anns anns aigh deilt teirichta dan ann ann ann ann ann ann Ge ar Albreinn àgas mile sint anns duir teo ann ann ann ann ann dua ann	tiğin quan başı dayı araşı dayı dağı dayı dayı dağı dağı dağı daşı da Çiği Ağı dayı başı çiya çılan anın dağı anın araşı kırın asılı dayı dayı dayı dayı	NO TRANS (MATE AREA HOTE) ESTE AREA AREA AND AND AREA AREA CONSTITUTE AREA. (II) TO TRANS (MATE AREA AREA) AND AND AREA (THE AREA AREA AREA AREA AREA.	
Lower primary	1,96,172	1,11,200	1,50,300	
ligher primary		41,590	44,120	
Total	1,96,172	1,52,790	1,94,420	

5.7.5. Considering the minimum salary of a secondary grade teacher as a 330 per mensem, there will be a caving of a 69.30 lakes per annum, if the State Planning Commission norms are adopted.

RECOMMENDATIONS

- 5-8. In the light of the above analysis concerning the general problems of establishing a reasonable pupil-teacher ratio and the specific problems faced in this State in applying any such norm, it is recommended that :
- (a) the pupil-teacher ratio recommended in the Peropective Plan for Tamil Madu (1972-84) be adopted namely.

Lower primary .. 1 : 37 Higher primary .. 1 : 33

- (b) the recommended ratios be applied effectively, rigorously and fully through
 - (i) translating these ratios into the slabs fixed in Government Order (Miscellaneous) No.250;
 - (11) introducing the recommended ratio and a minimum strength of 20 as a third condition with regard to the powers given to the Panchayet Union Councils to open new primary schools;
 - (iii) using the average attendance in each school personally checked by the Deputy Inspector of schools as the basis of estimating its teacher entitlements;
 - (iv) additionally the number of teachers to be sanctioned for each school being based on the effective school places available in each institution and
 - (v) the special treatment of schools in tribel areas in matter of the population requirement be continued.
- (c) the number of excess teachers and retiring teachers in the Panchayat Union should be calculated by the District Educational Officers in July or October of each year.
 - (1) Any excess teachers should be set off by the requirement of additional teachers resulting from additional enrolment of pupils in each school subject to school places being evailable in each school.

- (11) If there is a surplus of teachers even after the adjustment, they should be set off against retirement vacancies arising at the end of ecademic year and vacancies caused by death, resignation, etc. This process should be continued every year until the surplus is liquidated.
- (iii) During the implementation of this recommondations, the surplus teachers will be identified specifically and will be shown as supernumerary teachers in all the accounts.
- (iv) Only after absorbing the surplus by this process, edditional teachers required for each school because of additional enrolment may be released by the educational authorities.