



सत्यमेव जयते

PLANNING COMMISSION  
(EDUCATION DIVISION)

# Factual Survey of Junior Technical Schools

NEW DELHI

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## INTRODUCTION

It is always useful to have periodical reviews of educational programmes so as to make them more purposeful and effective, both as instruments of economic development and as aids for the self-fulfilment and enrichment of the human personality of the students. The factual survey of Junior Technical Schools, which has been conducted by the Planning Commission as a part of its preparation for the formulation of the Fourth Five Year Plan, is an attempt in this direction.

2. The importance of diversification and terminalisation of studies at the secondary schools cannot be over-emphasised. It is at the end of this stage that a large number of young students finish their formal education and enter the employment market. This is also the level at which the different economic sectors require an increasing number of persons for junior and middle level jobs. How best we anticipate the opportunities for gainful employment in a developing society and coordinate these with the development of appropriate attitudes in the students at the secondary schools together with appropriate training is the crucial test that we should apply in finding the educational soundness of our planning of secondary education and not merely its functioning as a point of entry to higher education.

3. The present survey reveals, *inter alia*, that out of 100 students for whom investment is made in terms of buildings and equipment, about 36 students come out successful at the end of the 3-Year course and of them, only 18 students join industrial employment. If the junior technical schools are to be terminal schools, then 82 per cent of the facilities are not effectively utilised. Considering the cost of education in these schools and also the paucity of resources available for educational development in the Five Year Plans, the present situation seems to call for a serious examination.

4. One may also mention in this connection some of the other problems ; such as, the relationship between junior technical schools and industrial training institutes as well as technical high schools ; gradation of skills and appropriate curricula development for the various types of institutions operating in this area and the need to weave all these programmes together into a pattern of vocational education at the secondary stage.

(ii)

5. I have no doubt in my mind that unless adequate and timely measures are taken to project a clear picture of the perspective of secondary education and link up its different development projects appropriately, secondary education will continue to remain the weak link in our system of education. I hope that it would be possible to make a bold beginning in this direction during the Fourth Five Year Plan period.

6. I may take this opportunity to express my sense of gratitude to all the Principals of the junior technical schools for having furnished the necessary data for this survey. That the survey has been completed within a period of less than three months is mainly on account of the readiness with which they have cooperated with us in this endeavour.

Dated, 2nd January, 1965  
New Delhi.

Sd/- V. K. R. V. RAO  
Member (Education),  
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## CONTENTS

	Page No.
I Purpose of the Survey . . . . .	1
II Method and Scope of the Survey . . . . .	1
III Summary of Findings . . . . .	2
IV Distribution of Junior Technical Schools . . . . .	3
V Admissions . . . . .	4
VI Utilisation of facilities . . . . .	5
VII Wastage . . . . .	6
VIII Post-educational career of out-turn . . . . .	8
IX Some suggestions . . . . .	9
X Conclusions . . . . .	11
 <i>Annexures</i>	
I A note on Junior Technical School Scheme . . . . .	13
II Junior technical schools included in the survey . . . . .	15
III Proforma used for the survey . . . . .	17
IV Analysis of responses received for the survey, by States. . . . .	19
V Distribution of junior technical schools, by States and by unit-size . . . . .	20
VI A gist of suggestions made by junior technical schools . . . . .	21
 <i>Statements</i>	
I Admissions to junior technical schools, 1960-61 to 1963-64, by institutions . . . . .	23
II Utilisation of facilities, by institutions . . . . .	29
III Wastage of facilities—drop-outs and failures, by institutions . . . . .	33
IV Post-educational activity status of outturn from junior technical schools, by institutions . . . . .	36

## I. PURPOSE OF THE SURVEY

During the Second Plan, the Ministry of Education finalised a scheme\* for the establishment of junior technical schools with the dual objectives of enabling the students who pass out of these schools either to join a polytechnic for higher technical education or to join an industry as apprentices or operators. As an experimental measure 39 schools were approved in different States by 1960-61. The Third Five Year Plan of the State Governments includes provision for additional 96 junior technical schools. From the information available from the States, it is understood that there are certain deficiencies and practical difficulties in the implementation of this programme. Further, more than 50% of the students passing out from the junior technical schools are reported to be joining polytechnics or pre-university classes in a college. On the other hand, if the junior technical schools were to provide for diversification of studies, then, it has been suggested, that the courses offered therein should be of a terminal character and not be an entry point for a continuation course in an institution of higher education. This aspect needs further consideration in the light of the recommendation of the Sub-Group on Manpower of the Working Group on Employment and Training that about 3 lakhs of craftsmen would have to be trained in junior technical schools during the Fourth Plan. Prof. V. K. R. V. Rao, Member, Planning Commission, therefore, desired that factual information should be collected about the existing junior technical schools in terms of number of students (together with their academic background), who completed the courses so far, and of those who were employed in industries, apart from the number who joined the polytechnics and other institutions.

1.2 In order to obtain information on these and related factors, a questionnaire survey of the admissions made to and the out-turn from the existing junior technical schools was conducted by the Education Division of the Planning Commission in August-September, 1964. All the 39 junior technical schools which had been approved by 1960-61, were addressed for the survey. Of these, one institution has not yet started making admissions. However, information was received from 4 additional junior technical schools which have started functioning in 1961-62. Including these institutions, usable information was received from 39 junior technical schools.\*\*

## II. METHOD AND SCOPE OF THE SURVEY

2.1 The questionnaire\*\*\* mailed to the Junior Technical Schools cover three main aspects of the study :—

### (i) Admission particulars

The educational background and attainment of students admitted to the junior technical schools during four years between 1960-61 and 1963-64 are analysed according to the marks secured by the students at the

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\*A note on the scheme is attached at Annexure I.

\*\*Annexure II

\*\*\*Annexure III.

qualifying examinations before they were admitted into these schools. Out of 7,319 students covered in the survey, usable data are available for 5,541 students, that is for 75 per cent.

(ii) *Utilisation of facilities*

The extent of utilisation of facilities is reckoned in terms of the proportion to the admissions made of the number of students who pass the final examinations at the end of three years, the wastage being made up of "drop-outs" and failures. This survey covers two batches of students admitted during 1960-61 and 1961-62. These students would have completed the three years course by the end of 1962-63 and 1963-64 respectively. The total number of students covered is 3,431 of whom complete information is available for 3,221 students, that is for 94 per cent.

(iii) *Employment pattern of out-turn*

The total out-turn from Junior Technical Schools, under survey during 1962-63 and 1963-64 is 1,141 students. Information regarding post-educational career, however, is available for 515 students, that is for 45 per cent.

2.2 There are variations among the States\* in the percentage of responses to the total number of students covered in each of the States. In the case of admission particulars, the number of students in Uttar Pradesh for whom information is available is 14 per cent of the total admissions made in that State. In this connection it has been reported that majority of the applicants for admission to Junior Technical Schools were students who had earlier failed at the matriculation examination. Admission is also made in some states on the basis of merit and aptitude, ascertained during interviews by selection committee so that no record was available about the mark-score at the time of admissions.

In regard to data for utilisation of facilities, almost all the students in the survey are covered excepting in the case of Andhra Pradesh (98.5%), Madras (85.4%) and West Bengal (81%)

The overall response about post-educational career of students passing out from Junior Technical Schools was 45 per cent of the total out-turn as stated earlier. Against this, the percentage of complete information received from the States varied from 23.7 in Kerala to 78.4 in Punjab.

### III. SUMMARY OF FINDINGS

3.1 Out of 39 junior technical schools included in the survey, 10 are attached to polytechnics and one is attached to a central workshop. Others (28), i. e. 72 per cent of the total number are independent junior technical schools.

3.2 Out of 39, 22 schools i.e. 56 per cent, have an annual admission capacity of 41-60 students. Two junior technical schools (5%) admit less than 20 students each. There are 9 schools (23%) each admitting 21-40 students and 6 schools (14%) of over 60 admissions.

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\*Annexure IV.

3.3 Out of 5,451 students admitted in junior technical schools, 608 (11%) had secured marks of 60% and above. The number of students with marks between 40% and 60% was 2795 (51%) and the number with less than 40% marks was 2048 (38%).

3.4 Out of 3,221 students admitted to the junior technical schools 1,856 students appeared at the final examination three years after admissions. Of these 1,141 came out successful. Thus the utilisation co-efficient\* works out to 35.5 per cent.

3.5 The total wastage of facilities is of the order of 2,080 seats which is 64.5 per cent of the admissions made in two batches. Out of this 1,365 seats (65.6%) were accounted for by "drop-outs" and the rest, by failures. The pass percentage at the final examination works out to 61.5.

3.6 Out of 515 students passing out of Junior Technical Schools 250, that is 49 per cent join industries while another 233 i. e. 45 per cent join polytechnics for higher technical education. The number of students joining colleges for pre-university courses and other departments like Defence, technical education and Railways is 16 each i. e. 3 per cent.

3.7 There are considerable variations in the implementation of the scheme in the States with particular reference to the pattern of admissions, utilisation of facilities, factors of wastage and the objectives of the courses *vis-a-vis* the trends of post-educational activities of the students.

#### IV. DISTRIBUTION OF JUNIOR TECHNICAL SCHOOLS

4.1 The 39 Junior Technical Schools covered in the survey are distributed in 7 States\*\*. Of these, 10 schools are attached to polytechnics and one to a central workshop. The other 28 schools, comprising 72 per cent of the total number are functioning separately as independent schools.

4.2 The attached junior technical schools include all the schools in Andhra Pradesh (5) and Madras (3) and one in Uttar Pradesh and 2 in West Bengal. All the junior technical schools in Kerala (9), Madhya Pradesh (5) and Punjab (3) are independent schools.

4.3 The unit size of the existing institutions varies between less than 20 in two schools and over 110 students in another. The distribution of schools and annual admissions made therein during 1963-64 are shown in Table 1 :

TABLE 1  
Distribution of junior technical schools, according to unit-size

Unit-size (Admission capacity)	Schools		Annual admission 1963-64	
	No.	% to total	No. of students	% to total
Less than 20 students	2	7.0	19	1.0
21—40 students	9	23.0	267	13.6
41—60 students	22	56.0	1,135	58.0
Over 61 students	6	14.0	536	27.4
TOTAL	39	100.0	1,957	100.0

\*cf. Para. 2.1(ii).

\*\*Annexure V.

4.4 The two schools with an annual admission capacity of less than 20 students are located one each in Uttar Pradesh and West Bengal. There are 2 schools which admit about 100 students annually, one each in Punjab and West Bengal. The institutions in Andhra Pradesh (5), Kerala (9) and Madras (3) have an average size of 41-60 admissions while in Madhya Pradesh 3 institutions admit about 20 students each and 2 institutions between 41-60 students.

#### V. ADMISSION

5.1 During the four years from 1960-61 to 1963-64, over 5,450 students were admitted to junior technical school courses in different States. Of these 2,048 students, that is 37.6%, had secured less than 40% marks at the qualifying examinations for admission to these courses. 2,795 students (51.3%) were in the range of 40-60% marks. The number of students with over 60% marks was 608, that is 11.1 per cent of the total admissions.

5.2 There are variations between the States in regard to the admission of students with more than 60% marks. The percentage of these students to total admissions varies from 1.0 in Madras to nearly 17 in West Bengal. In the case of students with 40-60% marks, the scale rises from Punjab (31.6%) to Kerala (68.1%), not to mention of Uttar Pradesh (82.3%) where the responses are not adequate enough to draw a comparison. Regarding the admission of students with less than 40% marks they form about two-thirds of all admissions to junior technical school courses in Madras and Punjab. In Madhya Pradesh and West Bengal, the percentage is less than 50.

5.3 The detailed distribution of admissions on the basis of marks at the qualifying examinations in the different States is indicated in Table 2:

TABLE 2  
Distribution of admissions to Junior Technical Schools, 1960-61 to 1963-64,  
by States

States	No. of Students covered in 4 yrs.	Students with marks					
		Less than 40%		Between 40—60%		Over 60%	
		No.	% to Col.(2)	No.	% to Col.(2)	No.	% to Col.(2)
1	2	3	4	5	6	7	8
Andhra Pradesh . . . . .	1,019 (18.7)	276 (13.4)	27.1	610 (21.8)	59.9	133 (21.9)	13.0
Kerala . . . . .	1,518 (27.8)	318 (15.5)	20.9	1,033 (37.0)	68.1	167 (27.5)	11.0
Madhya Pradesh . . . . .	629 (11.5)	286 (14.0)	45.5	262 (9.4)	41.7	81 (13.3)	12.8
Madras . . . . .	500 (9.2)	332 (16.2)	66.4	163 (5.8)	32.6	5 (0.8)	1.0
Punjab . . . . .	500 (9.2)	325 (15.9)	65.0	153 (5.5)	31.6	22 (3.6)	4.4
Uttar Pradesh . . . . .	124 (2.3)	18 (0.9)	14.5	102 (3.6)	82.3	4 (0.7)	3.2
West Bengal . . . . .	1,161 (21.3)	493 (24.1)	42.5	472 (16.9)	40.6	196 (32.2)	16.9
<b>GRAND TOTAL</b>	<b>5,451</b> <b>(100.0)</b>	<b>2,048</b> <b>(100.0)</b>	<b>37.6</b>	<b>2,795</b> <b>(100.0)</b>	<b>51.3</b>	<b>608</b> <b>(100.0)</b>	<b>11.1</b>

(The figures within brackets give percentage to Grand Total.)



## VI. UTILISATION OF FACILITIES

6.1 The first two batches of students admitted to Junior Technical Schools in 1960-61 and 1961-62 completed their courses in 1962-63 and 1963-64 respectively. The proportion of students, who successfully complete the courses and pass the final examinations at the end of three years, to the total number of students who were admitted for these courses is taken as an indication of the extent to which the facilities created in the Junior Technical Schools are being utilised. The unutilised capacity could be called wastage of facilities which would consist of "drop-out" and failures.

6.2 Out of 3,221 students covered in the first 2 batches of admission, for whom complete information is available, 1,856 students, that is 57.6 per cent appeared for the final examinations at the end of three years. This includes 19 compartmental candidates appearing for the examinations in Punjab. Out of these students, 1,141 passed the final examinations. Thus the co-efficient of utilisation of facilities ( $u$ ) in junior technical schools for the first 2 batches of out-turn works out to :—

$$u = \frac{1141}{3221} \times 100 = 35.4\%$$

It has not been possible to isolate the number of supplementary candidates appearing at the final examinations along with the candidates appearing for the first time. Their number is not, however, expected to be large, as the schools have been mostly started in 1959-60. Nevertheless, the figures arrived at in this report may be taken to represent the upper estimates of the efficiency of utilisation of facilities in these schools.

6.3 The utilisation data for the two batches of students under study are shown separately in Table 3, which also reveals that the pass percentage at the final examinations remains around 60-63 per cent.

TABLE 3

Utilisation of facilities in Junior Technical Schools, by batches of admission

	I Batch	II Batch	Total for 2 batches
1. No. of students admitted . . . . .	1,292	1,929	3,221
2. No. appearing for final examinations at the end of three years after admission . . . . .	717	1,138	1,855
3. No. passing examinations three years after admission . . . . .	452	689	1,141
4. Co-efficient of utilisation of facilities . . . . . - [(3) as % of (1)]	35.0	35.8	35.4
5. Pass percentage . . . . . [(3) as % of (2)]	63.0	60.6	61.5

6.4 Statewise, the pass percentage varies between 34 in Andhra Pradesh and 92 in West Bengal. Correspondingly the co-efficient of utilisation of facilities in junior technical schools ranges from 17 per cent in Andhra Pradesh and 38 per cent in West Bengal to over 46 per cent in Kerala and Madras. Table 4 explains the position :

TABLE 4  
Utilisation of facilities in junior technical schools by States

State	No. of students admitted during 1960-61 and 1961-62	Examinations held in 1963 and 1964		Co-efficient of utilisation*	Pass percentage***
		No. appearing at the examinations	No. passing examinations		
1	2	3	4	5	6
Andhra Pradesh . . . . .	455 (14.2)	230 (12.4)	77 (6.7)	16.9	33.5
Kerala . . . . .	1,017 (31.5)	720 (38.8)	469 (41.1)	46.2	65.1
Madhya Pradesh . . . . .	300 (9.3)	172 (9.3)	85 (7.4)	28.3	49.4
Madras . . . . .	164 (5.1)	143 (7.7)	76 (6.8)	46.3	53.1
Punjab . . . . .	370 (11.5)	207 (11.2)	153 (13.4)	41.4	73.9
Uttar Pradesh. . . . .	425 (13.2)	180 (9.7)	95 (8.3)	22.4	52.8
West Bengal . . . . .	490 (15.2)	204 (10.9)	186 (16.3)	38.0	91.6
GRAND TOTAL . . . . .	3,221 (100.0)	1,856 (100.0)	1,141 (100.0)	35.4	61.5

(Figures within brackets give percentage to Grand Total.)

\* Percentage of Col.(4) to Col. (2).

\*\* Percentage of Col. (4) to Col. (3).

## VII. WASTAGE

7.1 It was noted earlier, that out 3,221 students who were admitted to junior technical schools during 1960-61 and 1961-62, only 1,141 students successfully completed the course within the prescribed period of three years. Or, in other words, 2,080 students, for whom facilities had been provided in the institutions did not complete the training, thus resulting in ineffective utilisation or wastage of the total available facilities. It has also been reported by one institution that majority of the failed students discontinued their studies.

7.2 The main cause for the incidence of wastage appears to be the "drop-outs", that is, students who are admitted to the schools do not continue studies for the full period of the course. The survey reveals that the "drop-outs", numbering 1,365 students, constitute 65.6 per cent of the total wastage of facilities. The Statewise position of the "drop-outs" as a percentage of the total number of admissions under survey is indicated in Table 5 :—

TABLE 5  
Drop-outs\* in relation to admissions, by States

(Unit : No. of students)

States	I Batch			II Batch		
	Admissions	Drop-outs	Drop-outs as % of admissions	Admissions	Drop-outs	Drop-outs as % of admissions
1	2	3	4	5	6	7
Andhra Pradesh .	169	88	52.1	286	137	47.9
Kerala . . . . .	480	156	32.5	537	139	25.9
Madhya Pradesh .	143	62	43.4	157	66	42.0
Madras . . . . .	..	..	..	164	21	12.8
Punjab . . . . .	153	56	36.6	217	107	49.3
Uttar Pradesh . .	202	119	58.9	223	126	56.5
West Bengal . . .	145	94	64.8	345	194	56.2
<b>TOTAL</b> . . . . .	<b>1,292</b>	<b>575</b>	<b>44.5</b>	<b>1,929</b>	<b>790</b>	<b>41.0</b>

\*Difference between the admissions and the number of students appearing for final examinations at the end of three years.

7.3 The number of students who failed at the final examinations three years after admissions for the two batches of admissions made in 1960-61 and 1961-62 adds to 715. This constitutes 34.4 per cent of the wastage of facilities compared to 65.6 per cent due to drop-outs.

7.4 There are however variations in the pattern of wastage of facilities. In States like West Bengal, failures at the examinations contribute less than 6 per cent to the total wastage whereas in Madras, it is 76 per cent. The extent of wastage due to drop-outs and failures separately in the different States is shown in Table 6 .

TABLE 6

Wastage of facilities in junior technical schools, by drop-outs and failures  
and by States

(Unit : No. of seats)

States	Wastage of facilities *	Factors of wastage			
		Drop-outs **		Failures ***	
		Number	% to Col. (2)	Number	% to Col. (2)
1	2	3	4	5	6
Andhra Pradesh . . . . .	378 (18.2)	225 (16.5)	59.5	153 (21.4)	40.5
Kerala . . . . .	548 (26.4)	295 (21.6)	54.0	253 (35.2)	46.0
Madhya Pradesh . . . . .	215 (10.3)	128 (9.4)	59.5	81 (12.2)	40.5
Madras . . . . .	88 (4.2)	21 (1.5)	23.9	67 (9.3)	76.1
Punjab . . . . .	217 (10.4)	163 (12.0)	75.1	54 (7.6)	24.9
Uttar Pradesh . . . . .	330 (15.9)	245 (18.0)	74.2	85 (11.9)	25.8
West Bengal . . . . .	304 (14.6)	288 (21.0)	94.4	16 (2.4)	5.6
<b>GRAND TOTAL</b>	<b>2,080</b> (100.0)	<b>1,365</b> (100.0)	<b>65.6</b>	<b>715</b> (100.0)	<b>34.4</b>

(Figures within brackets give percentage to Grand Total.)

\* Represents the difference between the admissions made in 1960-61 and 1961-62 and the out-turn at the end of 1962-63 and 1963-64.

\*\* Represents the difference between the number of students admitted and the number of students appearing for final examinations at the end of three years.

\*\*\* Represents the difference between the number of students appearing at the examinations and those who come out successful at the examinations.

### VIII. POST-EDUCATIONAL CAREER OF OUT-TURN

8.1 Table 7 gives the post-educational career of 515 students who have completed the junior technical school courses in 1963 and 1964 :

TABLE 7  
 Post-educational career of students passing out of junior technical schools,  
 by States

(Unit : No. of students)

	I Batch (out-turn 1963)	II Batch (out-turn 1964)	Total for 2 Batches
1	2	3	4
Total number of students covered . . . . .	204 (100·0)	311 (100·0)	515 (100·0)
Students joining industries . . . . .	116 (56·9)	134 (43·1)	250 (48·6)
Students joining polytechnics . . . . .	72 (35·3)	161 (51·8)	233 (45·2)
Students joining colleges for P. U. C. . . . .	..	16 (5·1)	16 (3·1)
Students joining other Departments like Defence, Technical Education etc. . . . .	16 (7·8)	..	16 (3·1)

(Figures within brackets give percentage to total number of students covered.)

8.2 Out of 250 students who joined industries after the junior technical school course, nearly 72 per cent, that is over 180 students were from Uttar Pradesh, Punjab and West Bengal. In these States, the number of students joining industries forms 78·6 per cent and 73·3 per cent and 51·8 per cent respectively of the total out-turn from junior technical schools. In contrast, the percentage in Kerala is 26·1 and in Madras 26·3. In these two States, the number of students going in for higher education either in a polytechnic or in a regular college is 74 per cent of the out-turn. In Andhra Pradesh, 61 per cent of the Junior technical school boys continue their studies as against 39 per cent joining industries. The State-wise variations in the pattern of post-educational activities of out-turn from junior technical schools are given in Table 8 (See Page No. 10).

#### IX. SOME SUGGESTIONS

9.1 Suggestions have been offered by some of the junior technical schools for improving the implementation of the scheme\*. It appears that there has not been sufficient integration of the dual objectives of the junior technical school course in some States. While one suggestion is made that the certificate at the end of the course should enable students to join the PUC class and thence to a University, another suggestion is to recognise this certificate "as equal to" that in an Industrial Training Institute. In other words, it has been suggested that, in terms of the final awards the courses should be made (a) more "academic", that is leading to a University in addition to a polytechnic course as at present and also (b) more "vocational", that is leading to apprenticeship training or to wiremen's licence (in the case of electrical trade) as in an Industrial Training Institute. Without examining the curriculum of studies and organisation of courses in some of the individual institutions, it is not possible to provide an analysis of the factors underlying these suggestions. It is probably true, as one institution has stated that the "junior technical school is not yet appreciated in its proper perspective".

\*A gist of the suggestions is at Annexure VI.

**TABLE 8**  
*Pattern of post-educational activities of the outturn from Junior Technical Schools, by States*

(Unit : No of Students)

States	Out-turn in 2 batches	No. of students who join							
		Industries		Polytechnics		Colleges		Other Deptt.	
		No.	% to Col.(2)	No.	% to Col.(2)	No.	% to Col.(2)	No.	% to Col.(2)
1	2	3	4	5	6	7	8	9	10
Andhra Pradesh.	54 (10.5)	21 (8.4)	38.9	31 (13.3)	57.4	2 (12.5)	3.7	..	..
Kerala	111 (21.6)	29 (11.6)	26.1	77 (33.0)	69.4	5 (31.2)	4.5	..	..
Madhya Pradesh	36 (6.9)	10 (4.0)	27.8	20 (8.6)	55.5	..	..	6 (37.5)	16.7
Madras	38 (7.4)	10 (4.0)	26.3	24 (10.3)	63.2	4 (25.0)	10.5	..	..
Punjab	120 (23.3)	88 (35.2)	73.3	19 (8.2)	15.9	3 (18.8)	2.5	10 (62.5)	8.3
Uttar Pradesh	42 (8.2)	33 (13.2)	78.6	9 (3.9)	21.4	..	..	..	..
West Bengal	114 (22.1)	59 (23.6)	51.8	53 (22.7)	46.5	2 (12.5)	1.7	..	..
<b>GRAND TOTAL</b>	515 (100.0)	250 (100.0)	48.6	233 (100.0)	45.2	16 (100.0)	3.1	16 (100.0)	3.1

(Figures within brackets give percentage to Grand Total.)

## X. CONCLUSIONS

10.1 There are considerable variations in the manner in which the scheme of junior technical school has been implemented by the States, in terms of the academic aptitudes of students catered to and the end-objective of the course. In all the schools under survey there are not many students who have secured 60% or more marks at the qualifying examinations. Taking the marks-score of 40%—60% as the average, it could be stated that the junior technical schools mostly admit students of 'average' and 'below average' academic scores.

10.2 It would appear that in *all* the States the successful completion of junior technical school course has been recognised for purposes of admission to polytechnic. A suggestion has been made in certain States to declare these students eligible for studies in the Pre-University Courses also. This suggestion has been emphasised in those States where, at present, the majority of students passing out from junior technical schools join polytechnics rather than get employed in industries.

10.3 A statewise analysis of the pattern of junior technical schools reveals four broad categories of practices. Firstly, there are two States, Punjab and West Bengal where most of the students admitted are "below average" in academic aptitude and the majority of the out-turn join industries after completing the course. In other words, the junior technical school provides for the training of academically-not-so-bright students for employment in industries. Secondly, there is the State of Uttar Pradesh where the students are being trained for employment but the students join the courses after they have once failed at the Matriculation examination. It is not clear where these schools fall within the pattern of junior technical schools envisaged in the Ministry of Education scheme. In the third place, there are schools serving as alternative institutions for students who have 'average' scores in academic attainments to train them to join institutions of higher education such as a polytechnic. The institutions in the Andhra Pradesh and Kerala are in this category. Finally there are the States of Madras and Madhya Pradesh where the junior technical schools mostly admit students with "below average" scores and yet majority of the out-turn tends to join polytechnics and other institutions of higher education at the end of the course. This survey does not attempt to study and analyse the deviations of these patterns from the main objectives of a junior technical school, for, that would require an intensive or "depth" study of the junior technical school course in selected trades in the individual States.

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## ANNEXURE I

### A note on Junior Technical School Scheme

The Second Five Year Plan provided for the establishment of junior technical schools which would "enable students to enter an occupation at the end of the secondary course as semi-skilled workers or for setting up small business of their own". For this purpose, the Ministry of Education prepared a scheme "to divert boys of 14\* from academic type of education in secondary school to one which is specially designed to condition them for different productive occupations of a technical nature while continuing their formal general education". The courses were so designed that a boy who completed the course could "join a full fledged technical institution like a polytechnic which will train him for a higher level of professional work" or "join in industry either as an apprentice or an operator and improve his skill in the particular field in which he was specialised towards the end of his course in the school". The scheme, which was finalised after discussions in the Planning Commission and in the light of suggestions made by a Special Committee of the National Council for Training in Vocational Trades, was sent to the State Governments on the 7th August 1958 for consideration and implementation.

2. The duration of the course in a junior technical school is 3 years from the age of 14\* to 17\*. The course offers integrated study of general education, technical subjects and workshop training and acts as "cross between a factory and a school". Out of a total 4560 working hours in the school, 2520 hours i.e. 55% would be devoted to workshop training including specialisation in one of the eight trades offered, such as turning, machining, fitting and smithy. Engineering drawing and elementary mechanical and electrical engineering constitute 17% of the total period (760 hours) and the study of Humanities, Languages, Science and Mathematics account for 1280 hours or 28%.

3. It was expected that the integrated course of liberal education, elementary technical education and workshop training would make the students from these schools more suited for polytechnic courses than a matriculate or one who had only had "academic" type of education. "In fact, the general educational level of a boy from a junior technical school will in no way be less than the present Matriculation". At the same time, it was hoped that "having regard to the preliminary workshop training given in the school to the boys and the general educational level attained by them, industry will find the boys acceptable as apprentices".

4. Each school, which would have an annual admission capacity of 60 students was estimated to cost Rs. 7·844 lakhs non-recurring and Rs. 1·562 lakhs per annum ultimate recurring, as per details below :—

Buildings . . . . .	Rs. 3·264 lakhs
Equipment, fittings & fixtures . . . . .	Rs. 4·580 lakhs
<b>TOTAL NON-RECURRING . . . . .</b>	<b>Rs. 7·844 lakhs</b>
Staff salary . . . . .	Rs. 1·110 lakhs per annum
Maintenance . . . . .	Rs. 0·200 lakhs per annum
Stipends . . . . .	Rs. 0·252 lakhs per annum
<b>TOTAL RECURRING . . . . .</b>	<b>Rs. 1·562 lakhs per annum</b>

\*Para 22—Chapter XXIII, Second Five Year Plan.



5. Attaching the school to a polytechnic would offer special advantages, particularly in respect of staff and equipment. "It will also facilitate progression of students from the school to polytechnic courses".

6. By the end of the Second Plan i.e. in 1960-61, proposals for establishment of 39 schools had been approved out of which 32 schools had started making admissions, 3 in Andhra Pradesh, 9 in Kerala, 5 in Madhya Pradesh, 2 in Madras, 2 in Punjab, 6 in Uttar Pradesh and 5 in West Bengal.

7. The question of coordination of the junior technical schools with the industrial training institutes and technical streams in multi-purposes schools was discussed at an inter-Ministerial meeting held in the Planning Commission on the 2nd July, 1959 and the following conclusions were arrived at :—

- (i) There was need for training of a much larger number of craftsmen for the third, fourth and subsequent plans consistent with programmes of economic and industrial development.
  - (ii) The existing training facilities, particularly those provided in the D.G.E. & T. centres will have to be considerably expanded for this purpose and other experiments to train technicians in an organised way would have to be encouraged and evaluated.
  - (iii) It was agreed that in order to utilise fully the capacity of polytechnics which might number 200 by the end of the Second Plan, it would be useful to locate the proposed junior technical schools in polytechnics by making necessary arrangements and adjustments in instructional programmes.
  - (iv) For the time being the number of junior technical schools may be limited to about 60 which were proposed to be established during the second plan period and in case the experiment was found to be a success further schools of the same type may be established in the polytechnics whose number is likely to be 200. This will bring down the cost of junior technical schools considerably, by the use of the buildings and equipment of the polytechnics.
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## ANNEXURE II

### *Junior Technical School included in the survey*

I. ANDHRA PRADESH	Year of establishment
1. Govt. Jr. Tech. School & Central Workshop, Secunderabad*	1960
2. Jr. Tech. School, Tirupathi*	1960
3. @Govt. Jr. Tech. School, Warrangal*	1961
4. Jr. Tech. School, Andhra Polytechnic, Kakinada*	1960
5. @ Jr. Tech. School, Govt. Polytechnic, Vijayawada*	1961
 II. KERALA	
6. Jr. Tech. School, Cheruvathur	1960
7. Jr. Tech. School, Manjeri	1960
8. Jr. Tech. School, Kunnankulam	1960
9. Jr. Tech. School, Adoor	1960
10. Jr. Tech. School, Shertallai	1960
11. Jr. Tech. School, Pampady	1960
12. Jr. Tech. School, Shoranur	1960
13. Jr. Tech. School, Perambavoor	1960
14. Jr. Tech. School, Attingal	1960
 III. MADHYA PRADESH	
15. Govt. Sec. Tech. School, Tikamgarh	1956
16. Govt. Sec. Tech. School, Satna	1956
17. Govt. Sec. Tech. School, Gwalior	1959
18. Govt. Sec. Tech. School, Panna	1956
19. Govt. Sec. Tech. School, Shahdol	1956
 IV. MADRAS	
20. @Nachimuthu Polytechnic, Pollachi*	1961
21. @Seshasayee Institute of Technology, Tiruchirappali*	1961
22. Jr. Tech. School attached to Central Polytechnic, Adyar, Madras*	1960
 V. PUNJAB	
23. Govt. Jr. Tech School, Gurgaon	1959
24. Govt. Jr. Tech. School, Kangra	1959
25. Govt. Jr. Tech. School, Kapurthala	1959
 VI. UTTAR PRADESH	
26. Ingraham Institute, Ghaziabad	1948
27. Govt. Sec. Tech. School, Ghazipur	1959
28. Govt. Sec. Tech. School, Jhansi*	1959
29. Govt. Sec. Tech. School, Allahabad	1959
30. C.M.S. Govt. Sec. Tech. School, Daurala	1959
31. Govt. Sec. Tech. School, Jaunpur	1959

## VII. WEST BENGAL

32. Jr. Tech. School, Kalimpong . . . . .	1964
33. Hooghly Jr. Tech. School, Hooghly*	1961
34. St. Vincents Jr. Tech. School, Asansol . . . . .	1961
35. St. Xaviers Jr. Tech. and Jr. High School, Basanti . . . . .	1958
36. R.K. Mission Boys Home Jr. Tech. School, Rahara (Khadeh) . . . . .	1958
37. Jr. Tech. School, Jalpaiguri . . . . .	1961
38. Satish Chandra Silpa-Vidyalay Shiksha Niketan, Burdwan . . . . .	1957
39. Saraju Prasad Jr. Engg. Institute, Durgi . . . . .	1961
40. B.P.C. Jr. Tech. School, Nadia, Krishnagar . . . . .	1962

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\*Attached to Polytechnics/Central Workshops.

@Not originally included in the survey.

(The institutions which are shown above to have been set up prior to 1959 were functioning as vocational high/industrial schools before they were converted into junior technical schools).

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### ANNEXURE III

Proforma used for the survey

No. 4/17(1)/63-Edn.

Government of India  
Planning Commission

YOJANA BHAVAN,  
New Delhi, dated the 19th August, 1964

To

The Principal/Superintendent,  
Junior Technical School,  
(as per list attached).

Subject.—*Factual survey of students, passing out from Junior Technical School.*

SIR,

In connection with the formulation of proposals for technical education in the Fourth Plan, the Planning Commission desires to have factual information regarding the existing junior technical schools and the students passing out therefrom. A proforma has been drawn up to facilitate the compilation of the necessary particulars. We shall feel grateful if you could kindly fill in the particulars and return the proforma duly completed to the undersigned at an early date not later than 25th September, 1964.

2. Immediate action in the matter would be highly appreciated.

Yours faithfully,

(Sd.) D. P. NAYAR,  
Chief (Education).

Copy for information to :

- (i) Education Secretary/Industries Secretary to the State Govts.
- (ii) State Directors of Technical Education.
- (iii) Ministry of Education.

## Proforma for factual survey of Junior Technical Schools

1. Name of the School.....
  2. Location .....
  3. Whether attached to a polytechnic :.....
  4. If so, name of the polytechnic.....
  5. Enrolment particulars : for years . . . . . 1960—61 1961—62 1962—63
    - (i) No. of students admitted : of whom the number  
of students with marks . . . . .
    - (a) 60% and above . . . . .
    - (b) 40%—60% . . . . .
    - (c) below 40% . . . . .
    - (ii) Total enrolment in all classes : . . . . .
  6. Examination results :—
    - (i) No. appearing at final examination . . . . .
    - (ii) No. passing . . . . .
  7. Post-institutional career  
No. of passed students
    - (i) join industries . . . . .
    - (ii) join polytechnics . . . . .
    - (iii) join colleges for PUC etc. . . . .
    - (iv) information not available . . . . .
  8. Remarks, if any . . . . .
-

## ANNEXURE IV

*Analysis of responses received for the survey, by states*

State	Admission made in 4 years			Utilisation by 2 batches			Outturn of 2 batches		
	No. of students covered	Complete information		No. of students covered	Complete information		No. of students covered	Complete information	
		No. of Students	% to Col.(2)		No. of students	% to Co.(5)		No. of students	% to Col.(8)
1	2	3	4	5	6	7	8	9	10
Andhra Pradesh . . . . .	1,026 (14·0)	1,019 (18·7)	99·3	462 (13·5)	455 (14·1)	98·5	77 (6·7)	54 (10·5)	70·1
Kerala . . . . .	2,086 (28·6)	1,518 (27·8)	72·8	1,077 (31·4)	10,174 (31·6)	94·4	469 (41·2)	111 (21·6)	23·1
Madhya Pradesh . . . . .	629 (8·6)	629 (11·5)	100·0	300 (8·7)	300 (9·3)	100·0	85 (7·4)	36 (7·0)	42·4
Madras . . . . .	500 (6·8)	500 (9·2)	100·0	192 (5·6)	164 (5·1)	85·4	76 (6·7)	38 (7·4)	50·0
Punjab . . . . .	757 (10·3)	500 (9·2)	66·0	370 (10·8)	370 (11·5)	100·0	153 (13·4)	120 (23·3)	78·4
Uttar Pradesh . . . . .	880 (12·0)	124 (2·3)	14·1	425 (12·4)	425 (13·2)	100·0	95 (8·3)	42 (8·1)	44·2
West Bengal . . . . .	1,441 (19·7)	1,161 (21·3)	80·6	605 (17·6)	490 (15·2)	81·0	186 (16·3)	114 (22·1)	61·3
<b>GRAND TOTAL</b>	7,319 (100·0)	5,451 (100·0)	74·6	3,431 (100·0)	3,221 (100·0)	94·1	1,141 (100·0)	515 (100·0)	45·1

(Figures within brackets give percentage to Grand Total).

## ANNEXURE V

### Distribution of Junior Technical Schools, by states and by unit-size

States	No. of schools responding to the survey						
	No. of schools addressed for the survey	Total No. of schools	No. of attached schools @	No. of schools with admission capacity (students)			
				Less than 20	21-40	41-60	over 60
1	2	3	4	5	6	7	8
Andhra Pradesh . . . . .	3 (7.7)	5 (12.8)	5 (45.5)	..	1 (11.1)	4 (18.2)	..
Kerala . . . . .	9 (23.1)	9 (23.1)	..	..	1 (11.1)	8 (36.4)	..
Madhya Pradesh . . . . .	5 (12.8)	5 (12.8)	..	..	3 (33.3)	1 (4.6)	1 (16.7)
Madras . . . . .	2 (5.1)	3 (7.7)	3 (27.2)	..	..	3 (13.6)	..
Punjab . . . . .	3 (7.7)	3 (7.7)	..	..	1 (11.1)	..	2 (33.3)
Uttar Pradesh . . . . .	6 (15.4)	6 (15.4)	1 (9.1)	1 (50.0)	1 (11.1)	3 (13.6)	1 (16.7)
West Bengal . . . . .	11 (28.2)	8 (20.5)	2 (18.2)	1 (50.0)	2 (22.2)	3 (13.6)	2 (33.3)
<b>GRAND TOTAL</b>	39 (100.0)	39† (100.0)	11 (100.0)	2 (100.0)	9 (100.0)	22 (100.0)	6 (100.0)

(Figures within brackets give percentage to Grand Total).

@Column (4) refers to junior technical schools which are attached to polytechnics or Central Workshops.

†Excluding a junior technical school which has not started functioning so far.

## ANNEXURE VI

### A GIST OF SUGGESTIONS MADE BY JUNIOR TECHNICAL SCHOOLS

#### I. Role of Junior Technical School (JTS)

1. The junior technical school is not appreciated in the proper perspective; it is regarded as a kind of industrial school or industrial training institute. Admission is sought by academically weak and economically poor section of the students passing VIII Class. It is not yet popular in the State of Andhra Pradesh.

(JTS, Kakinada, Warangal & Vijayawada)

2. It is too early to assess the full value of this certificate. However it appears to be filling a much neglected need.

(JTS, Asansol)

3. If the objective of the school is to attract students with merit and who have the flair for technical studies, it would be necessary to recognise a pass from JTS as equivalent to H.S.C./SSLC/ Matriculation which would enable them to join in the 12th class of the Multi-purpose school or PUC. The students could then seek admission to the degree courses in engineering.

(JTS, Warangal & Vijayawada)

4. The JTS certificate should be given priority for admission to polytechnics ; otherwise the scheme is likely to remain unattractive.

(JTS, Allahabad)

5. The JTS Certificate holders should also be considered for apprenticeship training under the Apprenticeship Act, 1961.

(JTS, Kapurthala & Rahara)

6. The students obtaining junior diploma in engineering for electricians trade should be awarded the wireman's licence for easy employment.

(JTS, Rahara)

#### II. Curriculum

7. The curriculum is heavy and cannot be satisfactorily covered by the pupils of the age group for whom it is meant.

(JTS, Kakinada)

#### III. Staff

8. The staff structure in junior technical school needs revision.

(JTS, Kakinada)

9. There are difficulties of getting sufficient number of qualified teachers particularly in engineering and science subjects. The present scales of pay do not attract the right type of teaching personnel.

(JTS, Warangal & Kapurthala)



10. The salary scales of staff in JTS should be brought on par with those in a polytechnic and the staff made inter-transferable. Only experienced staff member from polytechnics should teach in junior technical schools.

(JTS, Kapurthala & Warangal)

*IV. Stipends*

11. The value of stipends should be increased in order to attract better type of students to join the JTS courses.

(JTS, Kapurthala)

12. The benefit of stipends should be extended to larger percentage of students, say 75% or even 100%.

(JTS, Kapurthala & Warangal)

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## STATEMENT I

*Admissions made to Junior Technical School (J.T.S.) between 1960-61 and 1963-64 by institutions.*

Sl. No.	Institution	Total No. of admissions					Students with less than 40% marks									
		1960-61	1961-62	1962-63	1963-64	Total 4 Yrs.	Number					Percent to total admissions				
							1960-61	1961-62	1962-63	1963-64	Total 4 Yrs.	1960-61	1961-62	1962-63	1963-64	Total 4 Yrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>I. ANDHRA PRADESH</b>																
1	Govt. J.T.S. & Central Workshop, Secunderabad	60	60	60	60	240	28	25	42	41	136	46.7	41.7	70.0	68.3	56.7
2	J.T.S., Kakinada	59	60	60	60	239	18	..	1	7	26	30.5	..	1.7	11.7	10.9
3	J.T.S., Tirupathi	57	60	46	38	201	18	18	21	14	71	36.0	30.0	45.7	36.8	36.6
4	J.T.S., Warangal	..	46	60	60	166	..	16	6	4	26	..	34.8	10.0	6.6	5.7
5	J.T.S., Govt. Polytechnic, Vijayawada	..	60	60	60	180	..	9	7	1	17	..	15.0	11.7	1.7	9.4
	<b>TOTAL</b>	<b>176</b>	<b>286</b>	<b>286</b>	<b>278</b>	<b>1,026</b>	<b>64</b>	<b>68</b>	<b>77</b>	<b>67</b>	<b>276</b>	<b>37.9</b>	<b>23.8</b>	<b>26.9</b>	<b>24.1</b>	<b>27.1</b>
<b>II. KERALA</b>																
6	J.T.S., Attingal	60	60	60	60	240	2	..	..	1	3	3.3	..	..	1.7	1.3
7	J.T.S., Adoor	60	60	60	60	240	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
8	J.T.S., Shertallai	60	60	60	52	232	21	9	5	8	43	35.0	15.0	8.3	15.4	18.5
9	J.T.S., Pampedy*	60	67	67	63	257	6	7	11	15	39	15.4	15.9	26.8	34.1	23.2
10	J.T.S., Perumbavoor	60	60	60	57	237	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
11	J.T.S., Kunnankulam	60	60	60	55	235	19	11	6	8	44	31.7	18.3	10.0	14.5	18.7
12	J.T.S., Shorsnur	60	60	60	55	235	20	15	18	25	78	33.3	25.0	30.0	45.4	33.2
13	J.T.S., Manjeri	60	59	47	39	205	14	15	12	11	52	23.3	25.4	25.5	28.2	25.4
14	J.T.S., Cheruvathur	60	51	43	51	205	20	5	11	23	59	33.3	10.2	25.6	45.1	29.1
	<b>TOTAL</b>	<b>540</b>	<b>537</b>	<b>517</b>	<b>492</b>	<b>2,086</b>	<b>102</b>	<b>62</b>	<b>63</b>	<b>91</b>	<b>318</b>	<b>26.7</b>	<b>15.8</b>	<b>15.8</b>	<b>24.4</b>	<b>20.9</b>

STATEMENT I—(Contd.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>III. MADHYA PRADESH</b>																
15	Govt. Secondary Tech. School, Tikamgarh	21	19	30	63	133	7	10	8	21	46	33.3	52.6	26.7	33.3	34.6
16	Govt. Secondary Tech. School, Shahdol	21	32	29	48	130	4	10	19	14	47	19.0	31.3	65.5	29.2	36.2
17	Govt. Secondary Tech. School, Satna	53	50	55	21	179	30	30	30	10	100	56.6	60.0	54.5	47.6	55.9
18	Govt. Secondary Tech. School, Panna	26	31	14	23	94	8	11	6	8	33	30.8	35.5	42.9	34.8	35.1
19	Govt. Secondary Tech. School, Gwalior	21	25	26	21	93	12	17	19	12	60	57.1	68.0	73.1	57.1	64.5
<b>TOTAL</b>		<b>142</b>	<b>157</b>	<b>154</b>	<b>176</b>	<b>629</b>	<b>61</b>	<b>78</b>	<b>82</b>	<b>65</b>	<b>286</b>	<b>43.0</b>	<b>49.7</b>	<b>53.2</b>	<b>36.9</b>	<b>45.5</b>
<b>IV. MADRAS</b>																
20	J.T.S., Central Polytechnic, Adyar	28	58	60	45	191	22	34	45	22	123	78.6	58.6	75.0	48.9	64.4
21	J.T.S., Seshasayee Inst. of Tech., Tiruchirappalli	..	43	60	59	162	..	23	39	33	95	..	53.5	65.0	55.9	58.6
22	J.T.S., Nachimuthu Polytechnic, Pollachi	..	63	37	47	147	..	49	26	39	114	..	77.8	70.3	83.0	77.6
<b>TOTAL</b>		<b>28</b>	<b>164</b>	<b>157</b>	<b>151</b>	<b>500</b>	<b>22</b>	<b>106</b>	<b>110</b>	<b>94</b>	<b>332</b>	<b>78.6</b>	<b>64.6</b>	<b>70.1</b>	<b>62.3</b>	<b>66.4</b>
<b>V. PUNJAB</b>																
23	Govt. J.T.S., Kapurthala	74	72	75	99	320	50	38	54	76	218	52.8	72.0	76.8	76.8	68.1
24	Govt. J.T.S., Kangra	60	68	67	62	257	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
25	Govt. J.T.S., Gurgaon	..	77	63	40	180	..	40	40	27	107	..	51.9	63.4	67.5	59.4
<b>TOTAL</b>		<b>134</b>	<b>217</b>	<b>205</b>	<b>201</b>	<b>757</b>	<b>50</b>	<b>78</b>	<b>94</b>	<b>103</b>	<b>325</b>	<b>67.6</b>	<b>52.3</b>	<b>68.1</b>	<b>74.1</b>	<b>65.0</b>

VI. UTTAR PRADESH

26	Govt. Sec. Tech. School, Jaunpur . . .	19	28	31	30	108	3	5	5	2	15	15.8	17.9	16.1	6.7	13.9
27	Govt. Sec. Tech. School, Jhansi . . .	28	27	25	46	126	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
28	Govt. Sec. Tech. School, Allahabad . . .	44	48	51	43	186	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
29	Ingraham Institute, Ghaziabad . . .	6	4	6	..	16	..	1	2	..	3	..	25.0	33.3	..	18.8
30	Govt. Sec. Tech. School, Ghazipur . . .	41	60	60	70	231	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
31	C.M.S. Govt. Sec. Tech. School, Daurala . . .	64	56	43	50	213	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>TOTAL</b> . . .		<b>202</b>	<b>223</b>	<b>216</b>	<b>239</b>	<b>880</b>	<b>3</b>	<b>6</b>	<b>7</b>	<b>2</b>	<b>18</b>	<b>12.0</b>	<b>18.8</b>	<b>18.9</b>	<b>6.7</b>	<b>14.5</b>

VII. WEST BENGAL

32	R.K.M. Boys' Home & J.T.S., Rahara . . .	87	104	110	113	414	46	47	53	56	202	59.0	45.2	43.0	31.9	48.8
33	Satschandra Silpa Vidyalaya, Kalanaba-gram* . . .	39	56	49	51	195	N.A.	N.A.	24	..	24	N.A.	N.A.	49.0	..	N.A.
34	St. Xavier's J.T.S. & Junior H.S., Basanti . . .	19	4	29	19	71	4	3	..	1	8	21.1	75.0	..	5.3	11.3
35	Hooghly J.T.S., Hooghly * . . .	30	54*	34	56	174	N.A.	N.A.	14	33	47	N.A.	N.A.	41.0	59.0	52.2
36	St. Vincent's J.T.S., Asansol . . .	22	28	24	33	107	..	..	..	..	..	..	..	..	..	..
37	B.P.C., J.T.S., Krishnagar . . .	..	63	68	66	197	..	15	14	15	44	..	23.8	20.6	22.7	22.3
38	S.P.J., Engg. Institute, Durgi . . .	..	40	39	22	101	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
39	J.T.S., Jalpaiguri . . .	..	59	63	60	182	..	55	59	54	168	..	93.2	93.7	90.0	92.3
40	J.T.S., Kalimpong . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>TOTAL</b> . . .		<b>197</b>	<b>408</b>	<b>416</b>	<b>420</b>	<b>1,441</b>	<b>50</b>	<b>120</b>	<b>164</b>	<b>159</b>	<b>493</b>	<b>39.1</b>	<b>46.5</b>	<b>42.7</b>	<b>45.8</b>	<b>42.5</b>
<b>GRAND TOTAL</b> . . .		<b>1,419</b>	<b>1,992</b>	<b>1,951</b>	<b>1,957</b>	<b>7,319</b>	<b>352</b>	<b>518</b>	<b>597</b>	<b>581</b>	<b>2,048</b>	<b>37.4</b>	<b>36.7</b>	<b>39.3</b>	<b>39.5</b>	<b>37.6</b>

\*Complete information was not received for all the admissions.

STATEMENT I—(Contd.)

Sl. No.	Institution	Students with marks between 41—60%										Students with marks more than 61%									
		Number					% to total admissions					Number					% to total admissions				
		1960-61	1961-62	1962-63	1963-64	Total 4 years	1960-61	1961-62	1962-63	1963-64	Total 4 years	1960-61	1961-62	1962-63	1963-64	Total 4 years	1960-61	1961-62	1962-63	1963-64	Total 4 years
1	2	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
<b>I. ANDHRA PRADESH</b>																					
1	Govt. J.T.S. & Central Workshop, Secunderabad	31	33	14	13	91	51.7	55.0	23.3	21.7	37.9	1	2	4	6	13	1.7	3.3	6.6	10.0	5.4
2	J.T.S., Kakinada	38	41	50	46	175	64.4	68.3	83.3	76.7	73.2	3	19	9	7	38	5.1	31.7	15.0	11.7	15.9
3	J.T.S., Tirupathi	29	36	24	18	107	58.0	60.0	52.2	47.4	55.2	3	6	1	6	16	6.0	10.0	2.2	15.8	8.2
4	J.T.S., Warangal	..	27	44	40	111	..	58.7	73.3	66.6	66.9	..	33	10	16	29	..	6.5	16.7	26.7	17.5
5	J.T.S., Govt. Polytechnic, Vijayawada	..	44	41	41	126	..	73.3	68.3	68.3	70.0	..	7	12	18	37	..	11.7	20.0	30.0	20.6
	<b>TOTAL</b>	98	131	173	158	610	58.0	63.3	60.5	56.8	59.9	7	37	36	53	133	4.1	12.9	12.6	19.1	13.0
<b>II. KERALA</b>																					
6	J.T.S., Attingal	49	2	52	58	161	81.7	3.3	86.7	96.7	67.1	9	58	8	1	76	15.0	97.7	13.3	1.7	31.7
7	J.T.S., Adoor	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
8	J.T.S., Shertallai	38	45	51	43	177	63.3	75.0	85.0	82.7	76.3	1	6	4	1	12	1.7	10.0	6.6	1.9	5.2
9	J.T.S., Pampadi *	26	33	27	27	113	66.7	75.0	65.9	61.4	67.3	7	4	3	2	16	18.0	9.1	7.4	4.5	9.5
10	J.T.S., Perumpavoor	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
11	J.T.S., Kunnampulam	37	46	51	43	177	61.7	76.6	85.0	78.2	75.3	4	3	3	4	14	6.7	5.0	5.0	7.3	6.0
12	J.T.S., Shoranur	39	41	37	29	146	65.0	68.3	61.7	52.7	62.1	1	4	5	1	11	1.7	6.6	8.3	1.8	4.7
13	J.T.S., Manjeri	40	35	30	21	126	66.6	59.3	63.8	53.8	61.5	6	9	5	7	27	10.0	15.3	10.6	17.9	13.2
14	J.T.S., Sheruvathur*	35	42	29	27	133	58.3	85.7	67.4	52.9	65.5	5	2	3	1	11	8.3	4.1	7.0	2.0	5.4
	<b>TOTAL</b>	264	244	277	248	1,033	66.1	60.6	75.7	70.8	68.1	33	86	31	17	167	7.2	23.6	8.5	4.8	11.0

### III. MADHYA PRADESH

15	Govt. Sec. Tech. School, Tikamgarh	11	8	21	40	80	52.4	42.1	70.0	63.5	60.2	3	1	1	2	7	14.3	5.3	3.3	3.2	5.3
16	Govt. Sec. Tech. School, Shahdol	10	13	7	20	50	47.6	40.6	24.1	41.7	38.5	7	9	3	14	33	33.3	28.1	10.3	29.2	25.8
17	Govt. Sec. Tech. School, Satna	13	10	15	9	47	24.5	20.0	27.3	42.9	26.3	10	10	10	2	32	18.9	20.0	18.2	9.5	17.9
18	Govt. Sec. Tech. School, Panna	15	17	6	15	53	57.7	54.8	42.9	65.2	56.4	3	3	2	..	8	7.7	9.7	14.3	..	8.5
19	Govt. Sec. Tech. School, Gwalior	9	8	6	9	32	42.9	32.0	23.1	42.9	34.4	..	..	1	..	1	..	..	3.8	..	1.1
<b>TOTAL</b>		<b>58</b>	<b>56</b>	<b>55</b>	<b>93</b>	<b>262</b>	<b>40.8</b>	<b>35.7</b>	<b>35.7</b>	<b>52.8</b>	<b>41.7</b>	<b>23</b>	<b>23</b>	<b>17</b>	<b>18</b>	<b>81</b>	<b>16.2</b>	<b>14.6</b>	<b>11.1</b>	<b>10.3</b>	<b>12.8</b>

### IV. MADRAS

20	J.T.S., Central Polytechnic, Adyar	6	23	13	21	63	21.4	39.7	21.7	46.7	33.0	..	1	2	2	5	..	1.7	8.8	4.4	2.6
21	J.T.S., Seshayee Institute of Technology Tiruchirapalli	..	20	21	26	67	..	37.2	28.3	28.8	30.9	..	..	..	..	..	..	..	..	..	..
22	J.T.S., Nachimuthu Polytechnic, Pollachi	1	14	11	8	33	..	22.2	29.7	17.0	22.4	..	..	..	..	..	..	..	..	..	..
<b>TOTAL</b>		<b>6</b>	<b>57</b>	<b>45</b>	<b>55</b>	<b>163</b>	<b>21.4</b>	<b>32.3</b>	<b>26.1</b>	<b>30.5</b>	<b>32.6</b>	<b>..</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>..</b>	<b>3.1</b>	<b>8.8</b>	<b>7.2</b>	<b>1.0</b>

### V. PUNJAB

23	Govt. J.T.S., Kapurthala	22	31	20	22	95	29.7	43.1	26.7	22.2	29.7	2	3	1	1	7	2.7	4.2	1.3	1.0	2.2
24	Govt. J.T.S., Kangra	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
25	Govt. J.T.S., Gurgaon	..	30	18	10	58	..	39.0	28.6	25.0	32.2	..	7	5	3	15	..	9.1	7.9	7.5	8.3
<b>TOTAL</b>		<b>22</b>	<b>61</b>	<b>38</b>	<b>32</b>	<b>153</b>	<b>29.7</b>	<b>41.0</b>	<b>27.5</b>	<b>23.0</b>	<b>31.6</b>	<b>2</b>	<b>10</b>	<b>6</b>	<b>4</b>	<b>22</b>	<b>2.7</b>	<b>6.7</b>	<b>4.3</b>	<b>2.9</b>	<b>4.4</b>

STATEMENT I—(Contd.)

1	2	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
<b>VI. UTTAR PRADESH</b>																					
26	Govt. Sec. Tech. School, Jaunpur . . . . .	16	23	26	28	93	84.2	75.0	77.4	86.7	80.6	..	..	..	..	..	..	..	..	..	..
27	Govt. Sec. Tech. School, Jhansi . . . . .	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
28	Govt. Sec. Tech. School, Allahabad . . . . .	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
29	Ingraham Institute, Ghaziabad . . . . .	3	3	3	..	9	50.0	75.0	50.0	..	56.3	3	..	1	..	4	50.0	..	16.6	..	25.0
30	Govt. Sec. Tech. School, Ghazipur . . . . .	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
31	C.M.S. Govt. Sec. Tech. School, Daurala . . . . .	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>TOTAL</b>		19	26	29	28	102	76.0	75.0	73.0	86.7	82.3	3	..	1	..	4	12.0	6.2	8.1	6.6	3.2
<b>VII. WEST BENGAL</b>																					
32	R.K.M. Boy's Home & J.T.S., Rahara . . . . .	25	37	35	37	134	28.7	35.6	35.0	39.8	34.9	16	20	22	20	78	18.4	19.2	22.0	21.5	20.3
33	Satschandra Silpa Vidyalaya, Kalanabagram . . . . .	N.A.	N.A.	25	50	75	N.A.	N.A.	51.0	98.0	75.0	N.A.	N.A.	..	1	1	N.A.	N.A.	..	2.0	1.0
34	St. Xavier's J.T.S. & Junior H.S., Basanti . . . . .	14	1	26	16	57	73.7	85.0	89.7	84.2	80.3	1	..	3	2	6	5.3	..	10.3	10.5	8.5
35	Hooghly J.T.S., Hooghly* . . . . .	N.A.	N.A.	15	18	33	N.A.	N.A.	44.1	32.1	36.6	N.A.	N.A.	5	5	10	N.A.	N.A.	14.7	8.9	11.1
36	St. Vincent's J.T.S., Asansol . . . . .	6	18	14	15	53	27.3	64.3	58.3	45.4	49.5	16	10	10	18	54	72.7	35.7	41.7	54.8	51.5
37	B.P.C. J.T.S., Krishnagar . . . . .	..	34	37	35	106	..	54.0	54.4	53.0	53.8	..	14	17	16	47	..	22.2	25.0	24.2	23.9
38	S.P.J. Engineering Institute, Durgl . . . . .	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
39	J.T.S., Jalpaiguri . . . . .	..	4	4	6	14	..	6.8	6.3	10.0	7.7	..	..	..	..	..	..	..	..	..	..
40	J.T.S., Kallimpong . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>TOTAL</b>		45	94	156	177	472	35.2	36.4	39.9	36.6	37.4	33	44	57	62	196	25.1	17.1	17.4	17.4	16.9
<b>GRAND TOTAL</b>		512	669	773	791	2,795	52.4	48.8	50.0	49.1	49.9	101	201	150	156	608	10.2	14.5	10.7	11.4	11.1

\*Complete information was not received for all the admissions.

**STATEMENT II**  
*Utilisation of facilities, by Institutions*

Sl. No.	Institutions	Batch I				II Batch					
		Admission made 1960-61	No. appeared for exam. 1962-63	No. passing out 1962-63	No. passing as percentage of		Admissions made in 1961-62	No. appeared for exam. 1963-64	No. passing out 1963-64	No. passing as percentage of	
					No. admitted 1960-61	No. appeared in exam. 1962-63				No. admitted 1961-62	No. appeared 1963-64
1	2	3	4	5	6	7	8	9	10	11	
<b>I. ANDHRA PRADESH</b>											
1.	Govt. J.T.S. & Workshop Secunderabad	60	22	21	35.0	95.4	60	33	21	35.0	63.6
2.	J.T.S. Kakinada	59	29	3	5.1	10.3	60	31	8	13.3	25.8
3.	J.T.S. Tirupathi	50	30	9	18.0	30.0	60	34	4	6.6	11.8
4.	J.T.S. Warangal	..	..	..	..	..	46	21	10	21.7	47.6
5.	J.T.S. Govt. Polytechnic, Vijayavada	..	..	..	..	..	60	30	1	1.7	3.3
<b>TOTAL</b>		<b>169</b>	<b>81</b>	<b>33</b>	<b>19.5</b>	<b>40.7</b>	<b>286</b>	<b>149</b>	<b>44</b>	<b>15.4</b>	<b>29.5</b>



## STATEMENT II—(Contd.)

1	2	3	4	5	6	7	8	9	10	11
<b>II. KERALA</b>										
6. J.T.S., Attingal . . .	60	44	25	41.7	56.8	60	44	37	51.7	70.5
7. J.T.S., Adoor . . .	60	39	32	53.3	82.1	60	46	40	66.7	87.0
8. J.T.S., Shertallai . . .	60	37	13	21.7	35.1	60	44	29	48.3	65.9
9. J.T.S., Pampadi . . .	60	51	45	75.0	88.2	67	46	35	52.2	76.1
10. J.T.S., Perumpavoor . . .	60	N.A.	N.A.	N.A.	N.A.	60	49	34	56.7	69.4
11. J.T.S., Kunnamkulam . . .	60	44	24	40.0	54.5	60	48	30	50.0	62.5
12. J.T.S., Shoranoor . . .	60	34	16	26.7	47.1	60	43	19	31.7	44.2
13. J.T.S., Manjeri . . .	60	32	21	35.0	65.6	59	37	8	13.6	21.6
14. J.T.S., Cheruvathoor . . .	60	43	35	58.3	81.4	51	39	32	65.3	82.0
<b>TOTAL . . .</b>	<b>540</b>	<b>324</b>	<b>211</b>	<b>39.1</b>	<b>65.1</b>	<b>537</b>	<b>396</b>	<b>258</b>	<b>48.2</b>	<b>65.2</b>
<b>III. MADHYA PRADESH</b>										
15. Govt. Sec. Tech. School, Tikam Garh . . .	21	16	16	76.2	100.0	19	14	6	31.6	42.9
16. Govt. Sec. Tech. School, Shahdol . . .	22	22	10	47.6	45.5	32	20	10	31.3	50.0
17. Govt. Sec. Tech. School, Satna . . .	53	21	9	17.0	42.9	50	29	9	18.0	31.0
18. Govt. Sec. Tech. School, Panna . . .	26	10	5	19.2	50.0	31	10	7	22.6	70.0
19. Govt. Sec. Tech. School, Gwalior . . .	21	12	6	28.6	50.0	25	18	7	28.0	38.9
<b>TOTAL . . .</b>	<b>143</b>	<b>81</b>	<b>46</b>	<b>32.4</b>	<b>56.8</b>	<b>157</b>	<b>91</b>	<b>39</b>	<b>24.8</b>	<b>42.9</b>

#### IV. MADRAS

20. J.T.S. Central Polytechnic, Adyar . . . . .	28	N.A.	N.A.	N.A.	N.A.	58	56	19	32.7	33.9
21. J.T.S. Seshasayee Institute of Tech., Tiruchirapalli . . . . .	..	..	..	..	..	43	32	21	48.8	65.6
22. J.T.S. Nachimuthu Polytechnic, Pollachi . . . . .	..	..	..	..	..	63	55	36	57.1	65.4
<b>TOTAL</b> . . . . .	<b>28</b>	<b>N.A.</b>	<b>N.A.</b>	<b>N.A.</b>	<b>N.A.</b>	<b>164</b>	<b>143</b>	<b>76</b>	<b>46.3</b>	<b>53.1</b>

#### V. PUNJAB

23. Govt. J.T.S., Kapurthala . . . . .	74	40	33	44.6	82.5	72	41	34	47.2	82.9
24. Govt. J.T.S., Kangra . . . . .	79	57	37	61.7	97.4	68	26	22	32.4	84.6
25. Govt. J.T.S., Gurgaon . . . . .	..	..	..	..	..	77	43	27	35.1	62.8
<b>TOTAL</b> . . . . .	<b>153</b>	<b>97</b>	<b>70</b>	<b>52.2</b>	<b>89.7</b>	<b>217</b>	<b>110</b>	<b>83</b>	<b>38.2</b>	<b>75.5</b>

#### VI. UTTAR PRADESH

26. Govt. Sec. Tech. School, Jaunpur . . . . .	19	11	11	57.9	100.0	28	10	5	17.9	50.0
27. Govt. Sec. Tech. School, Jhansi . . . . .	28	10	5	17.9	50.0	27	12	7	25.9	58.3
28. Govt. Sec. Tech. School, Allahabad . . . . .	44	8	5	11.4	62.5	48	23	14	29.2	60.9
29. Ingraham Institute, Ghazibad . . . . .	6	3	1	16.6	33.3	4	4	3	75.0	75.0
30. Govt. Sec. Tech. School, Ghazipur . . . . .	41	33	17	41.5	51.5	60	35	11	18.3	31.4
31. C. M. S. Govt. Sec. Tech. School, Daurala . . . . .	64	18	8	12.5	44.4	56	13	8	14.3	61.5
<b>TOTAL</b> . . . . .	<b>202</b>	<b>83</b>	<b>47</b>	<b>23.3</b>	<b>56.6</b>	<b>223</b>	<b>97</b>	<b>48</b>	<b>21.5</b>	<b>49.5</b>

STATEMENT II—(Contd.)

1	2	3	4	5	6	7	8	9	10	11
VII. WEST BENGAL										
32. R. K. Boy's Home & J.T.S., Rahara . . . . .	87	23	22	25.3	95.7	104	34	34	32.7	100.0
33. S. Silpa Vidalya, Kalanaba- gram . . . . .	39	19	16	41.0	84.2	56	31	29	51.8	93.5
34. St. Xaviers' J.T.S. & J.H. School, Basanti . . . . .	19	9	7	36.8	77.8	4	5	5	125.0	100.0
35. Hoogly J.T.S., Hoogly . . . . .	30	..	..	..	..	54	13	13	24.0	100.0
36. St. Vincents' J.T.S., Asansol . . . . .	22	..	..	..	..	28	21	21	75.0	100.0
37. B.P.C.J.T.S., Krishnagar . . . . .	..	..	..	..	..	..	..	..	..	..
38. S.P.J., Engg. Institute, Durgi . . . . .	..	..	..	..	..	40	24	21	52.5	87.5
39. J.T.S., Jalpaiguri . . . . .	..	..	..	..	..	59	24	18	30.5	75.0
40. J.T.S., Kalimpong . . . . .	..	..	..	..	..	..	..	..	..	..
TOTAL . . . . .	197	51	45	22.8	88.2	345	152	141	40.9	92.8
GRAND TOTAL . . . . .	1,432*	717*	452	35.0	63.0	1,929	1,138	689	35.8	60.6

\*Includes 20 compartmental candidates.

### STATEMENT III

#### *Wastage of facilities—Dropouts and failures, by institutions*

Sl. No.	Institutions	Admissions made 1960-61 and 1961-62	No. appearing for exam. 1963 & 1964	No. passing out 1963 & 1964	Wastage Col. 2—Col. 4.	Causes of Wastage		Wastage as percentage of admissions		
						Dropouts	Failures	Total	Dropouts	Failures
	1	2	3	4	5	6	7	8	9	10
<b>I. ANDHRA PRADESH</b>										
1.	Govt. J.T.S. & Workshop, Secunderabad	120	55	42	78	65	13	65.0	54.2	10.8
2.	J.T.S. Kakinada . . . . .	119	60	11	108	59	49	90.8	49.6	41.2
3.	J.T.S. Tirupathi . . . . .	110	64	13	97	46	51	88.2	41.8	46.4
4.	J.T.S. Warangal . . . . .	46	21	10	36	25	11	78.3	54.4	23.9
5.	J.T.S. Govt. Polytechnic, Vijayavada .	60	30	1	59	30	29	98.3	50.0	48.3
	<b>TOTAL</b>	455	230	77	378	225	153	83.1	49.5	33.6
<b>II. KERALA</b>										
6.	J.T.S. Attingal . . . . .	120	88	56	64	32	32	53.3	26.6	26.6
7.	J.T.S. Adoor . . . . .	120	85	72	48	35	13	40.0	29.2	10.8
8.	J.T.S. Shertallai . . . . .	120	81	42	78	39	39	65.0	32.5	32.8
9.	J.T.S. Pampadi . . . . .	127	97	80	47	30	17	37.0	23.6	13.4
10.	J.T.S. Perumpavoor . . . . .	60	49	34	26	11	15	43.3	18.3	12.5
11.	J.T.S. Kunnankulam . . . . .	120	92	54	66	28	38	55.0	23.3	31.7
12.	J.T.S. Shoranoor . . . . .	120	77	35	85	43	42	70.8	35.8	35.0
13.	J.T.S. Manjeri . . . . .	119	69	29	90	50	40	75.6	42.0	33.6
14.	J.T.S. Cheruvathor . . . . .	111	82	67	44	27	17	38.5	24.8	13.7
	<b>TOTAL</b>	1,017	720	469	548	295	253	53.9	29.0	24.9

## STATEMENT III—(Contd.)

1	2	3	4	5	6	7	8	9	10
<b>III. MADHYA PRADESH</b>									
15. Govt. Sec. Tech. School, Tikam Garh	40	30	22	18	10	88	45.0	25.0	20.0
16. Govt. Sec. Tech. School, Shahdol	54	42	20	34	12	22	62.3	20.8	41.5
17. Govt. Sec. Tech. School, Satna	103	50	18	85	53	32	82.5	51.4	31.1
18. Govt. Sec. Tech. School, Panna	57	20	12	45	37	8	78.9	64.9	14.0
19. Govt. Sec. Tech. School, Gwalior	46	30	13	33	16	17	71.7	34.8	36.9
TOTAL	300	172	85	214	127	87	71.6	42.5	29.1
<b>IV. MADRAS</b>									
20. J.T.S. Central Polytechnic, Adyar	58	56	19	39	2	37	67.2	3.4	63.8
21. J.T.S. Seshasayee Institute of Technology, Tiruchirapalli	43	32	21	22	11	11	51.2	25.6	25.6
22. J.T.S. Nachimuthu Polytechnic, Pollachi	63	55	36	27	8	19	42.9	12.7	30.2
TOTAL	164	143	76	88	21	67	53.7	12.8	40.9
<b>V. PUNJAB</b>									
23. Govt. J.T.S. Kapurthala	146	81	67	79	65	14	54.1	46.5	9.6
24. Govt. J.T.S. Kangra	147	83	59	69	64	5	53.9	50.0	3.9
25. Govt. J.T.S. Gurgaon	77	43	27	50	34	16	64.9	44.2	20.7
TOTAL	370	207	153	198	163	35	56.4	46.4	10.0

## VI. UTTAR PRADESH

26. Govt. Sec. Tech. School, Jaunpur . . .	47	21	116	31	26	5	66.0	55.3	10.7
27. Govt. Sec. Tech. School, Jhansi . . .	55	22	12	43	33	10	78.2	60.0	18.2
28. Govt. Sec. Tech. School, Allahabad . .	92	31	19	73	61	12	79.3	66.3	13.0
29. Ingraham Institute, Ghaziabad . . .	10	7	4	6	3	3	60.0	30.0	30.0
30. Govt. Sec. Tech. School, Ghazipur . .	101	68	28	73	33	40	72.3	32.7	39.6
31. C.M.S. Govt. Sec. Tech. School, Daurala.	120	31	16	104	89	15	86.7	74.2	12.5
<b>TOTAL</b> . . .	<b>425</b>	<b>180</b>	<b>95</b>	<b>330</b>	<b>245</b>	<b>85</b>	<b>77.6</b>	<b>57.6</b>	<b>20.0</b>

## VII. WEST BENGAL

32. R.K. Boys Home & J.T.S., Rahara . . .	191	57	56	135	134	1	70.7	70.2	0.5
33. S. Silpa Vidyalaya, Kalanabagram . . .	95	50	45	50	45	5	52.6	47.4	5.2
34. St. Xaviers' J.T.S. & J.H. School, Basanti.	23	15	12	11	9	2	47.8	39.1	8.7
35. Hoogly J.T.S. Hoogly . . . . .	54	13	13	41	41	Nil.	76.0	76.0	Nil.
36. St. Vincents J.T.S. Asansol . . . . .	28	21	21	7	7	Nil.	25.0	25.0	Nil.
37. B.P.C.J.T.S. Krishnagar . . . . .	..	..	..	..	..	..	..	..	..
38. S.P.J. Engg. Inst. Durgi . . . . .	40	24	21	19	16	3	47.5	40.0	7.5
39. J.T.S. Jalpaiguri . . . . .	59	24	18.	41	35	6	69.5	59.3	10.2
40. J.T.S. Kalimpong . . . . .	..	..	..	..	..	..	..	..	..
<b>TOTAL</b> . . .	<b>49</b>	<b>204</b>	<b>186</b>	<b>356</b>	<b>339</b>	<b>17</b>	<b>65.7</b>	<b>62.6</b>	<b>3.1</b>
<b>GRAND TOTAL</b> . . .	<b>3,221</b>	<b>1,856</b>	<b>1,141</b>	<b>2,080</b>	<b>1,365</b>	<b>715</b>	<b>64.6</b>	<b>42.4</b>	<b>22.2</b>

## STATEMENT IV

*Post educational activity status of out-turn from Junior Technical, schools by institutions*

Sl. No.	Institutions	Total pass outs	First Batch Passing out in 1963									
			No. of students who join					Percentage to total of those who join				
			Indus-tries	Poly-technics	Coll-eges	Other Deptts.	No Infor-mation	Industr-ies	Poly-technics	Coll-eges	Other Deptts.	No Infor-mation
1	2	3	4	5	6	7	8	9	10	11	12	
<b>I. ANDHRA PRADESH</b>												
1.	Govt. J.T.S. & Workshop, Secunderabad	21	8	6	..	..	7	38.1	28.6	..	..	33.3
2.	J.T.S. Kakinada . . . . .	3	2	1	..	..	..	66.7	33.3	..	..	..
3.	J.T.S. Tirupathi . . . . .	9	..	..	..	..	9	..	..	..	..	100.0
4.	J.T.S. Warangal . . . . .	..	..	..	..	..	..	..	..	..	..	..
5.	J.T.S. Govt. Polytechnic, Vijayavada . . . . .	..	..	..	..	..	..	..	..	..	..	..
	<b>TOTAL</b>	33	10	7	..	..	16	30.3	21.2	..	..	48.5
<b>II. KERALA</b>												
6.	J.T.S. Attingal . . . . .	25	3	16	..	..	6	12.0	64.0	..	..	24.0
7.	J.T.S. Adoor . . . . .	32	20	7	..	..	5	62.5	21.9	..	..	15.6
8.	J.T.S. Shertallai . . . . .	13	2	3	..	..	8	15.4	23.1	..	..	61.5

9. J.T.S. Pampadi . . . . .	45	..	3	..	..	42	..	6.6	..	..	93.4
10. J.T.S. Perumpavoor . . . . .	..	..	..	..	..	..	..	..	..	..	..
11. J.T.S. Kunnamakulam . . . . .	24	..	..	..	..	24	..	..	..	..	100.0
12. J.T.S. Shoranoor . . . . .	16	..	6	..	..	10	..	32.5	..	..	66.5
13. J.T.S. Manjeri . . . . .	21	..	..	..	..	21	..	..	..	..	100.0
14. J.T.S. Cheruvathoor . . . . .	35	..	..	..	..	35	..	..	..	..	100.0
<b>TOTAL</b>	<b>211</b>	<b>25</b>	<b>35</b>	<b>..</b>	<b>..</b>	<b>151</b>	<b>11.8</b>	<b>16.6</b>	<b>..</b>	<b>..</b>	<b>71.6</b>

### III. MADHYA PRADESH

15. Govt. Sec. Tech. School, Tikamgarh . . . . .	16	7	4	..	5	..	43.8	25.0	..	31.2	..
16. Govt. Sec. Tech. School, Shahdol . . . . .	10	..	2	..	..	8	..	20.0	..	..	80.0
17. Govt. Sec. Tech. School, Satna . . . . .	9	..	2	..	..	7	..	22.2	..	..	77.8
18. Govt. Sec. Tech. School, Panna . . . . .	5	..	..	..	..	5	..	..	..	..	100.0
19. Govt. Sec. Tech. School, Gwalior . . . . .	6	..	4	..	1	1	..	66.6	..	16.7	16.7
<b>TOTAL</b>	<b>46</b>	<b>7</b>	<b>12</b>	<b>..</b>	<b>6</b>	<b>21</b>	<b>15.2</b>	<b>26.1</b>	<b>..</b>	<b>15.2</b>	<b>43.5</b>

### IV. MADRAS

20. J.T.S. Central Polytechnic, Adyar . . . . .	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
21. J.T.S. Seshasayee Institute of Technology, Tiruchirapalli.	..	..	..	..	..	..	..	..	..	..	..
22. J.T.S. Nachimuthu Polytechnic, Pollachi.	..	..	..	..	..	..	..	..	..	..	..
<b>TOTAL</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>	<b>..</b>



## STATEMENT IV—(Contd.)

1	2	3	4	5	6	7	8	9	10	11	12
<b>V. PUNJAB</b>											
23. Govt. J.T.S., Kapurthala . . . . .	33	19	3	..	..	11	57.6	9.1	..	..	33.3
24. Govt. J.T.S., Kangra . . . . .	37	25	2	..	10	..	67.6	5.4	..	27.0	..
25. Govt. J.T.S., Gurgaon. . . . .	..	..	..	..	..	..	..	..	..	..	..
<b>TOTAL</b> . . . . .	<b>70</b>	<b>44</b>	<b>5</b>	<b>..</b>	<b>10</b>	<b>11</b>	<b>62.9</b>	<b>7.1</b>	<b>..</b>	<b>14.3</b>	<b>15.7</b>
<b>VI. UTTAR PRADESH</b>											
26. Govt. Sec. Tech. School, Jaunpur . . . . .	11	7	4	..	..	..	63.6	36.4	..	..	..
27. Govt. Sec. Tech. School, Jhansi . . . . .	5	3	..	..	..	2	60.0	..	..	..	40.0
28. Govt. Sec. Tech. School, Allahabad . . . . .	5	..	..	..	..	5	..	..	..	..	100.0
29. Ingraham Institute, Ghaziabad . . . . .	1	..	1	..	..	..	..	100.0	..	..	..
30. Govt. Secy. Tech. School, Ghazipur . . . . .	17	..	..	..	..	17	..	..	..	..	100.0
31. C.M.S. Govt. Sec. Tech. School, Daurala . . . . .	8	7	1	..	..	..	87.5	12.5	..	..	..
<b>TOTAL</b> . . . . .	<b>47</b>	<b>17</b>	<b>6</b>	<b>..</b>	<b>..</b>	<b>24</b>	<b>36.2</b>	<b>12.8</b>	<b>..</b>	<b>..</b>	<b>51.0</b>

VII. WEST BENGAL												
32. R.K. Boys' Home & J.T.S., Rahara	22	..	1	..	..	21	..	4.5	..	..	95.5	
33. S. Silpa Vidyalaya, Kalanabagram	16	6	6	..	..	4	37.5	37.5	..	..	25.0	
34. St. Xaviers J.T.S. & J.H. School, Basanti	7	7	..	..	..	..	100.0	..	..	..	..	
35. Hoogly J.T.S., Hooghly	..	..	..	..	..	..	..	..	..	..	..	
36. St. Vincents' J.T.S., Asansol	..	..	..	..	..	..	..	..	..	..	..	
37. B.P.C.J.T.S., Krishnagar	..	..	..	..	..	..	..	..	..	..	..	
38. S.P.J. Engg. Institute, Durgi	..	..	..	..	..	..	..	..	..	..	..	
39. J.T.S., Jalpaiguri	..	..	..	..	..	..	..	..	..	..	..	
40. J.T.S., Kalimpong	..	..	..	..	..	..	..	..	..	..	..	
<b>TOTAL</b>	<b>45</b>	<b>13</b>	<b>7</b>	<b>..</b>	<b>..</b>	<b>25</b>	<b>28.9</b>	<b>15.5</b>	<b>..</b>	<b>..</b>	<b>55.6</b>	
<b>GRAND TOTAL</b>	<b>452</b>	<b>116</b>	<b>72</b>	<b>..</b>	<b>16</b>	<b>248</b>	<b>25.7</b>	<b>15.9</b>	<b>..</b>	<b>3.8</b>	<b>54.6</b>	

STATEMENT IV—(Contd.)

Sl. No.	Institutions	Second Batch Passing out in 1964										
		Total Pass outs	No. of students who join					%age to total of those who join				
			Indus-tries	Poly-technics	Coll-eges	Other Deppts.	No Infor-mation	Indus-tries	Poly-technics	Colle-ges	Other Deptts.	No in-formation
1	13	14	15	16	17	18	19	20	21	22	23	
<b>I. ANDHRA PRADESH</b>												
1.	Govt. J.T.S. & Workshop, Secunderabad	21	6	10	2	..	3	28.6	47.6	9.5	..	14.3
2.	J.T.S. Kakinada . . . . .	8	5	3	..	..	..	62.5	37.5	..	..	..
3.	J.T.S. Tirupathi . . . . .	4	..	..	..	..	4	..	..	..	..	100.0
4.	J.T.S. Warangal . . . . .	10	..	10	..	..	..	..	100.0	..	..	..
5.	J.T.S. Govt. Polytechnic Vijayawada . . . . .	1	..	1	..	..	..	..	100.0	..	..	..
	<b>TOTAL</b>	<b>44</b>	<b>11</b>	<b>24</b>	<b>2</b>	<b>..</b>	<b>7</b>	<b>25.0</b>	<b>54.6</b>	<b>4.5</b>	<b>..</b>	<b>15.9</b>
<b>II. KERALA</b>												
6.	J.T.S. Attingal . . . . .	31	..	11	..	..	20	..	35.5	..	..	64.5
7.	J.T.S. Adoor . . . . .	40	4	11	3	..	22	10.0	27.5	7.5	..	55.0
8.	J.T.S. Shertallai . . . . .	29	..	8	..	..	21	..	27.6	..	..	72.4
9.	J.T.S. Pampadi . . . . .	35	..	7	2	..	26	..	20.0	5.7	..	74.3

10. J.T.S., Perumpavoor . . . . .	34	..	..	..	..	34	..	..	..	..	100.0
11. J.T.S., Kunnankulam . . . . .	30	..	..	..	..	30	..	..	..	..	100.0
12. J.T.S., Shoranur . . . . .	19	..	5	..	..	14	..	26.3	..	..	73.7
13. J.T.S., Manjeri . . . . .	8	..	..	..	..	8	..	..	..	..	100.0
14. J.T.S., Cheruvathoor . . . . .	32	..	..	..	..	32	..	..	..	..	100.0
<b>TOTAL</b> . . . . .	<b>258</b>	<b>4</b>	<b>42</b>	<b>5</b>	<b>..</b>	<b>207</b>	<b>1.6</b>	<b>16.2</b>	<b>1.9</b>	<b>..</b>	<b>80.3</b>

### III. MADHYA PRADESH

15. Govt. Sec. Tech. School, Tikam Garh . . . . .	6	..	..	..	..	6	..	..	..	..	100.0
16. Govt. Sec. Tech. School, Shahdol . . . . .	10	3	2	..	..	5	30.0	20.0	..	..	50.0
17. Govt. Sec. Tech. School, Satna . . . . .	9	..	4	..	..	5	..	44.4	..	..	55.6
18. Govt. Sec. Tech. School, Panna . . . . .	7	..	..	..	..	7	..	..	..	..	100.0
19. Govt. Sec. Tech. School, Gwalior . . . . .	7	..	2	..	..	5	..	28.6	..	..	71.4
<b>TOTAL</b> . . . . .	<b>39</b>	<b>3</b>	<b>8</b>	<b>..</b>	<b>..</b>	<b>28</b>	<b>7.7</b>	<b>20.5</b>	<b>..</b>	<b>..</b>	<b>71.8</b>

### IV. MADRAS

20. J.T.S. Central Polytechnic, Adyar . . . . .	19	..	4	2	..	13	..	21.1	10.5	..	68.4
21. J.T.S. Seshasayee Institute of Technology, Tiruchirapalli.	21	8	3	..	..	10	38.1	14.3	..	..	47.6
22. J.T.S. Nachimuthu Polytechnic, Pollachi . . . . .	36	2	17	2	..	15	5.6	47.2	5.6	..	41.6
<b>TOTAL</b> . . . . .	<b>76</b>	<b>10</b>	<b>24</b>	<b>4</b>	<b>..</b>	<b>38</b>	<b>13.2</b>	<b>31.5</b>	<b>5.3</b>	<b>..</b>	<b>50.0</b>

STATEMENT IV—(Contd.)

1	13	14	15	16	17	18	19	20	21	22	23
<b>V. PUNJAB</b>											
23. Govt. J.T.S., Kapurthala . . . . .	34	17	8	2	..	7	50.0	23.5	5.9	..	20.6
24. Govt. J.T.S., Kangra . . . . .	22	5	1	1	..	15	22.8	4.5	4.5	..	68.2
25. Govt. J.T.S., Gurgaon . . . . .	27	22	5	..	..	..	81.5	18.5	..	..	..
<b>TOTAL</b> . . . . .	<b>83</b>	<b>44</b>	<b>14</b>	<b>3</b>	<b>..</b>	<b>22</b>	<b>53.0</b>	<b>16.9</b>	<b>3.6</b>	<b>..</b>	<b>26.5</b>
<b>VI. UTTAR PRADESH</b>											
26. Govt. Sec. Tech. School, Jaunpur . . . . .	5	1	2	..	..	2	20.0	40.0	..	..	40.0
27. Govt. Sec. Tech. School, Jhansi . . . . .	7	4	1	..	..	2	57.1	14.3	..	..	28.6
28. Govt. Sec. Tech. School, Allahabad . . . . .	14	..	..	..	..	14	..	..	..	..	100.0
29. Ingraham Instiutte, Ghaziabad . . . . .	3	3	..	..	..	..	100.0	..	..	..	..
30. Govt. Sec. Tech. School, Ghazipur . . . . .	11	..	..	..	..	11	..	..	..	..	100.0
31. C.M.S. Govt. Sec. Tech. School, Daurala . . . . .	8	8	..	..	..	..	100.0	..	..	..	..
<b>TOTAL</b> . . . . .	<b>48</b>	<b>16</b>	<b>3</b>	<b>..</b>	<b>..</b>	<b>29</b>	<b>33.3</b>	<b>6.3</b>	<b>..</b>	<b>..</b>	<b>60.4</b>

VII. WEST BENGAL

32. R.K. Boys' Home & J.T.S., Rahara . . . . .	34	7	8	..	..	19	20·6	23·5	..	..	55·9
33. S. Silpa Vidyalaya, Kalanabagram . . . . .	29	8	16	..	..	5	27·6	55·2	..	..	17·2
34. St. Xaviers' J.T.S. & L.H. School, Basanti . . . . .	5	3	2	..	..	..	60·0	40·0	..	..	..
35. Hoogly J.T.S., Hoogly . . . . .	13	3	3	..	..	7	23·0	23·0	..	..	54·0
36. St. Vincents J.T.S., Asansol . . . . .	21	10	9	2	..	..	47·6	42·9	9·5	..	..
37. B.P.C. J.T.S., Krishnagar . . . . .	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
38. S.P.J. Engg. Institute, Durgi . . . . .	21	13	2	..	..	6	61·9	9·5	..	..	28·6
39. J.T.S., Jalpaiguri . . . . .	18	2	6	..	..	10	11·1	33·3	..	..	55·6
40. J.T.S., Kalimpong . . . . .	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>TOTAL</b> . . . . .	<b>141</b>	<b>46</b>	<b>46</b>	<b>2</b>	<b>..</b>	<b>47</b>	<b>32·6</b>	<b>32·6</b>	<b>1·4</b>	<b>..</b>	<b>33·3</b>
<b>GRAND TOTAL</b> . . . . .	<b>689</b>	<b>134</b>	<b>161</b>	<b>16</b>	<b>..</b>	<b>378</b>	<b>19·4</b>	<b>23·4</b>	<b>2·3</b>	<b>..</b>	<b>54·9</b>