

**DIRECTORATE OF TECHNICAL EDUCATION
PUNJAB**

ADMINISTRATION REPORT

FOR THE YEAR 1962-63



CHANDIGARH :

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1963.

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REVIEW ON THE ADMINISTRATION REPORT IN REGARD TO THE TECHNICAL EDUCATION FOR THE YEAR 1962-63

The Department of Technical Education is concerned with the development and administration of technical education for the Degree and Diploma level on the engineering side. The Directorate of Technical Education is primarily concerned with diploma level education and serves as a Secretariat for the State Board for Technical Education which was set up in February, 1958, to co-ordinate the activities of the various technical department concerned with the imparting of such courses in the Punjab State. It functions as the highest body at the State level as regards the policy matters in connection with imparting of technical education and its future development. The Board prescribes different courses of training, etc., holds examinations and co-ordinates all activities of the technical department in this connection.

2. The Degree level technical education is under the control of the Punjab University.

3. The main activities of the Department fall into the following broad categories :—

- (a) Implementation of the plan for technical education,
- (b) giving of grant-in-aid to non-government institution, after adjudging their suitability,
- (c) grants of loans and scholarships,
- (d) examinations for awarding the National Certificates Course Diplomas and Draftsman Certificates.

3.1. 1962-63 was the 2nd year of the Third Five-Year Plan. The main aims of the Third Five-Year Plan of the Technical Education are :—

- (a) consolidation of the institutions set up in the Seconds Five-Year Plan,
- (b) Introduction of new courses and re-arrangement of pattern of admission to Engineering institutions at the Degree and Diploma levels in anticipation of the change in the employment pattern in the country,

- (c) introduction of new Post-Graduate Courses for training Engineering scientist for manning design and Research assignments so essential for sustaining the developing economy of the country,
- (d) increasing the intake for Degree and Diploma institutions for meeting the needs of the Fourth Five-Year Plan as assessed by the Central Working Group on Technical Education,
- (e) take measures for ensuring equality of opportunity in obtaining technical education, on the basis of merit, to the students, who come from families in lower income groups.

3.2 A significant feature of the Third Five-Year Plan for the Punjab Government was a deliberate shift in allocation of funds in favour of technical education. A provision of Rs. 6.56 crores was made for the Degree and Diploma level institutions alone for the Third Five-Year Plan as against Rs. 1.71 crores which represents to the total expenditure during the Second Five-Year Plan.

3.3. A provision of Rs. 109.35 lakhs was made in the Budget for the year 1962-63. A statement comparing the provision in the budget, the revised estimates and the actual expenditure during 1962-63 is given below :—

<i>Year</i>	<i>Budget Estimates</i>	<i>Revised</i>	<i>Actual expenditure</i>
1962-63	109.35	82.46	Rs. 76.25

The expenditure on buildings was satisfactory. There was some improvement in the procurement of equipment purchased during the year under report, as compared with the previous year.

4. A new institution, the Government Polytechnic at Sirsa was started as a guest institution at Punjab Polytechnic, Nilokheri.

PRODUCTION ENGINEERING/AERONAUTICAL ENGINEERING

5. Two major developments took place during the year under report in the Punjab Engineering College. A 4-year course for diploma in Production Engineering was introduced in the Punjab Engineering College. The main aim of this course was

to prepare small entrepreneurs. The second major development was the introduction of degree course in Aeronautical Engineering with an intake of 30 students.

STAFF

6. The statement at Annexure I compares the sanctioned strength of the teaching staff in the Punjab Engineering College and various Government Polytechnics with those in position during 1962-63. Eight teachers from the Punjab Engineering College were studying abroad for improving their qualifications during the year under report.

CONTROL/AFFILIATION OF DEGREE/DIPLOMA INSTITUTIONS

7. The following Degree/Diploma institutions remained under the control of Director, Technical Education, during the year under report :—

(a) Government Institutions

- (1) Punjab Polytechnic, Nilokheri.
- (2) Government Polytechnic, Ambala City.
- (3) Central Polytechnic, Chandigarh.
- (4) Government Polytechnic, Sirsa.
- (5) Government Polytechnic, Jhajjar.
- (6) Jagat Ram Government Polytechnic, Hoshiarpur.

(b) Non-Government (Aided) Institutions

- (1) Guru Nanak Engineering College, Ludhiana.
- (2) Thaper Institute of Engineering and Technology, Patiala.
- (3) Ramgarhia Polytechnic, Phagwara.
- (4) Mehr Chand Polytechnic, Jullundur.
- (5) S.D. Polytechnic, Baijnath.

(c) Non-Government (Unaided) Institutions

- (1) Vaish Technical Institute, Rohtak.
- (2) C.R. Polytechnic, Rohtak.
- (3) Vishwa Karma Institute of Engineering and Technology, Ludhiana.

7.2 The Diploma Institutions remained affiliated to the State Board of Technical Education during the year under report.

8. During the year under report the control of Chandigarh College of Architecture, Chandigarh, was transferred to the Architecture Department.

GRANT-IN-AID

9. The grants-in-aid given to the private institutions during the year under report are given below :—

	Rs.
(1) Mehar Chand Polytechnic, Jullundur City	40,000.00
(2) Thaper Institute of Engineer- ing, Patiala	2,50,000.00
(3) Guru Nanak Engineering College, Ludhiana	4,77,100.00
(4) Ramgarhia Polytechnic, Phagwara	57,900.00
Total	8,25,000.00

10. GRANT OF LOANS AND SCHOLARSHIPS.

10.1. The Government continued to give interest-free loans to students in Government and non-Government institutions. Rs. 17.35 lakhs were advanced as interest-free loan to students during the year under report.

10.2. As before, the Government institutions continued to provide scholarships to 10 per cent students of Government Diploma Institutions out of which 1/3 at Rs. 20 per mensem on merit basis and 2/3 Rs. 40 per mensem each on merit-cum-means basis tenable for one year and 5 merit scholarships of the value of Rs. 65 and Rs. 50 each for a year to Degree Students in the Punjab Engineering College. There were 10 necessitous Scholarships of the value of Rs. 50.

EXAMINATION

11.1. The State Board held the final year examination for N.C.C. as well as for Draftsman course. 1,375 students, who appeared for Diploma examination, 803 passed, i.e., giving at 58.4 percentage. Another 391 passed their examination in the supplementary. Thus in all against 1,375 students, who appeared 1,194 passed as a result of the annual and supplementary examinations

giving a pass percentage of 86.12. The result of the final year of the Punjab Engineering College, the Guru Nanak Engineering College, Ludhiana, and Thapar Institute of Engineering and Technology, Patiala, are given below :—

	Appeared	Passed	Percentage
(i) Punjab Engineering College Chandigarh—			
(1) Post-Graduate ..	12	12	100
(2) Civil Engineering ..	59	57	96.61
(3) Mechanical Engineering ..	75	75	100
(4) Electrical Engineering ..	56	56	100
(ii) Thapar Engineering College, Patiala.—			
Civil Engineering ..	45	45	100
Mechanical ..	48	48	100
Electrical ..	27	27	100
(iii) Guru Nanak Engineering College, Ludhiana.—			
Civil Engineering ..	47	47	100
Mechanical ..	35	35	100
Electrical ..	27	26	96.3

ADMINISTRATION

12. Shri R.L. Khanna, Principal, Punjab Engineering College, Chandigarh, continued to function as part-time Director of Technical Education upto 18th August, 1962, after that Shri Paramjit Singh, Director, Industrial Training, took over the charge from Shri R.L. Khanna.

ORDER

Ordered that copies of the Review be circulated with the report and also that the review be published in the *Punjab Government Gazette*.

- (i) Ordered further that the review be forwarded to —
The Secretary to Government of India, Ministry of Scientific Research and Cultural Affairs, New Delhi.
- (ii) The Commissioners, Jullundur, Ambala, and Patiala Divisions and all Deputy Commissioners in the Punjab.
- (iii) Director, Technical Education, Punjab, Chandigarh.
- (iv) Principal, Punjab Engineering College, Chandigarh.

K. S. NARANG,
Secretary to Government, Punjab,
P.W.D., B. & R./P.H. Branches.

ANNEXURE I

(Referred to in para 4)

Statement showing the strength of the teaching staff sanctioned and those in position during the year 1962-63:

		<i>Number of teaching posts sanctioned during 1962- 63</i>	<i>Number of teaching posts filled up to 31st March, 1963</i>
(1) Punjab Engineering College, Chandigarh	..	79	66
(2) Punjab Polytechnic, Nilokeri	..	93	63
(3) Government Ploytechnic, Ambala	..	85	67
(4) Central Polytechnic, Chandigarh	..	57	49
(5) Government Polytechnic, Jhajjar	..	19	14
(6) Government Polytechnic, Sirsa	..	28	9
(7) Jagat Ram Government Polytechnic, Hoshiarpur	..	38	29

CHAPTER—I

Administration Report of Directorate of Technical Education, Punjab, for the year 1962-63.

TECHNICAL EDUCATION

General.—A provision of Rs 728.36 lacs has been made for expending on technical education facilities in the State during the Third-Five Plan. Out of this, Rs 656.37 lacs will be spent on engineering courses, and Rs 52.00 lacs on industrial education. Rs 19.99 lacs will be for cultural programmes, on the engineering side the programme includes the setting up of an Engineering College in the Hindi Region, the establishment of Polytechnics at Ludhiana, Rohtak, Amritsar, Hamirpur, Sirsa, Batala, Guru Tegh Bahadurgarh and Jhajjar, the development and expansion of the Punjab Engineering College, Chandigarh including the introduction of a 5-year integrated course and the starting of a degree course in Architecture, the opening of the Junior Technical Schools, and the development of the Polytechnics at Ambala, Nilokheri and Chandigarh, Mehar Chand Polytechnic, Jullundur, and the National Institute of Engineering and Technology, Hoshiarpur. The annual intake capacity for the degree course in engineering will increase to 880 seats, and for the diploma course to 2,580 at the end of IIIrd Plan. However, during 1962-63 the intake capacity of degree level was 480, Diploma level was 1730—60 and for Draftman Course was 435.

Technical Education has been made free up to the Diploma level in all institutions of the State with effect from 1st August, 1962.

During the year under report, the control of Chandigarh College of Architecture, Chandigarh was transferred to the Architecture Department.

During the year under report the following Government/Non-Government Institutions remained under the control of this Department: —

(A) Government Institutions

- (i) Punjab Engineering College, Chandigarh
- (ii) Punjab Polytechnic, Nilokheri
- (iii) Government Polytechnic, Ambala City
- (iv) Central Polytechnic, Chandigarh
- (v) Government Polytechnic, Jhajjar
- (vi) Government Polytechnic, Sirsa
- (vii) Jagatram Government Polytechnic, Hoshiarpur
- (viii) Government Junior Technical School, Kangra
- (ix) Government Junior Technical School, Kapurthala
- (x) Government Junior Technical School, Gurgaon

Non-Government Institutions (Aided)

- (i) Guru Nanak Engineering College, Ludhiana
- (ii) Thapar Institute of Engineering and Technology, Patiala

- (iii) Ramgarhia Polytechnic, Phagwara
- (iv) Mehr Chand Polytechnic, Jullundur
- (v) S. D. Polytechnic, Baij Nath
- (B) *Non-Government (unaided) Institutions*
 - (i) Vaish Technical Institute, Rohtak
 - (ii) C. R. Polytechnic, Rohtak
 - (iii) Vishwakarma Institute of Engineering and Technology, Ludhiana

Brief description of activities of these Institutions is given below: —

(a) *General*.—The Colleges are affiliated to the Punjab University for the B.Sc., Engineering Degree Examination in Civil, Electrical and Mechanical Engineering and M. Sc. Examination in Highway Engineering.

(b) *Staff*.—During the year there had been a great shortage of teaching staff in various Polytechnics, as per Appendix 1. Due to this shortage training remained deficient and State Board Examinations results were rather poor as per Appendix 2.

(c) *Instructional Tours*.—One long instructional tour was undertaken by some of the final year, Civil Engineering, Electrical Engineering and Mechanical Engineering students to places of engineering importance and interest. In addition to this long tour, efforts were made to make use of holidays and week ends for visiting neighbouring factories and works, workshops, etc. The educational tours had, however, to be curtailed in case of some of the institutions due to national emergency.

(d) *Practical Training*.—Arrangements of practical training were made with the Punjab, P. W. D., B. & R. Electricity Boards, Irrigation Department and Public Health Branch and in Workshops of repute.

(e) *Examination*.—The results of the University Examination and State Board Examinations are shown at Appendix No. 2 and 3.

The examinations for the diploma/certificate courses are conducted by the State Board of Technical Education. The Diplomas/Certificates awarded by the State Board to the successful candidates are recognised for the purposes of recruitment/appointment to services under the State Government/Government of India. The Institution of Engineering (India) has also granted exemption to the State Board Diploma Holders from studentship examinations. The case regarding recognition of State Board diploma/certificate is under correspondence with other State Governments. Some States have recognised the diplomas and certificates of this State.

The Certificate is also awarded to the students of the Government Junior Technical Schools but the same has not so far been recognised by the Punjab University as equivalent to the Matriculation Certificate.

(f) *Scholarships and Stipends*.—Scholarships are awarded to the deserving students at diploma level to the extent of 10 per cent of the total intake. Out of these 10 per cent scholarships, 1/3rd at Rs 20 per mensem each are awarded on merit basis and 2/3rd — Rs 40 per mensem each on merit-cum-means basis.

Four Scholarships at Rs 50/- each are awarded to the degree students in each class on Necessitous-cum-means basis.

Two Scholarships — Rs 65/- p. m. are granted to the students of the 2nd and 3rd years classes who stand first in the first and second Engineering Examinations, respectively. Three scholarships of Rs 65 p. m. each are awarded to the students of the final year class who stand first in each branch of Engineering, i.e., Civil, Mechanical and Electrical, in the 3rd Examination in Engineering.

Two scholarships—Rs 50.00 P. M. are granted to the students of 2nd and 3rd year classes who stand second in the first and second Engineering Examinations respectively. Three scholarships of Rs 50 p. m. each are awarded to the students of the final year class who stand second in each branch of Engineering i. e. Civil, Mechanical, Electrical, in the 3rd Engineering Examination.

Other facilities with regard to scholarships/stipends are detailed in Chapter No. 15

(g) *Punjab Engineering Education Loan.*—A sum of Rs 17,34,971/-, details of which are given in Chapter No. 12 was distributed as loan to the deserving students who are studying in the Engineering Colleges/Polytechnics within the State and to the Punjabi students Prosecuting studies outside the Punjab State in recognised Institutions in such courses for which facilities are not available in the Punjab.

(h) *Freeship.*—Punjab Government has introduced freeship and scholarship scheme during 3rd Five-Year Plan. Under this scheme 10 per cent students of all degree Engineering Colleges in the State were granted scholarships of the value of Rs 50/- p. m. each. The Technical Education was made free under this Scheme up to diploma level. No tuition fee was charged from the student of Government Polytechnic, with effect from 1st August, 1962, and the students of Non-Government Technical Institutions affiliated to controlled by State Board of Technical Education were given a compensation of Rs 10/- p. m. per student under this scheme. No fee was charged from the Government Industrial Schools, with effect from 1st August, 1962 and compensation equal to tuition fee charged in Government Industrial Schools was given to the students of Non-Government Industrial Schools. Details of expenditure under this scheme are given in Chapter No. 14.

(i) *Administration.*—Shri R. L. Khanna, I. S. E. M. I. E., continued as the Director, Technical Education, Punjab up to 18th August, 1962. After that Shri Paramjit Singh, I. A. S., Director, Industrial Training, Punjab took over the charge from Shri R. L. Khanna, on 18th August, 1962 in addition to his own duties. During the year under report the Technical Education Department carried on its normal Activities connected with the conduct of examinations of Polytechnics/Government Junior Technical Schools.

Government Polytechnic, Sirsa started its function during the year under report. The charge of National Institute of Engineering Technology, Hoshiarpur was taken over by the Government and its name was changed from National Institute of Engineering, Hoshiarpur to Jagat Ram Government Polytechnic, Hoshiarpur.

Sarvshri S. P. Kapoor, P. S. E. I. and S. R. Nayar, M. Sc. continued to held the charge of Deputy Director and Assistant Director-cum-Registrar, Examination, respectively during the year under report.

The State Board of Technical Education continued to function under the Chairmanship of Chief Minister, Sardar Partap Singh Kairon with 26th other members. This Board is the highest body at the State level as regards all

policy matters connected with the imparting of Technical Education and its further development. During 1962-63, a meeting of State Board was held on 15th February, 1963.

During 1962-63 the following posts continued in this Directorate: —

1. Assistant Director-cum-Registrar, Examination	1
2. Superintendent	1
3. Deputy Superintendent	1
4. Head Assistant	1
5. Assistants	10
6. Steno-typists	2
7. Clerks	12
8. Restorer	1
9. Daftri	1
10. Peon	4
11. Sweeper-cum-Chowkidar	1

The following additional posts were created by Government during the course of this year against heavy demand of additional staff: —

1. Accounts Officer	1
2. Accounts Clerk	1
3. Steno-typist	1
4. Peon	1

The post of Deputy Director was abolished and in its place a full-fledged and independent post of Director, Technical Education in the scale of equivalent to that of Chief Engineer, P. W. D., i. e. Rs 2,000 to 2,250 was sanctioned by Government. The incumbent of the post of the Deputy Director continued against the post of the Director as no whole-time Director was posted.

The Directorate has been pressing hard for creation of additional ministerial posts but no post has been sanctioned so far, with the result that the work is suffering. The bulk demand is on the examination and loan work side where the work has increased very much.

The State Board appointed different Sub-Committees, viz: —

1. *Affiliation Sub-Committee*.—To consider the request from non-Government Institutions for their affiliation to the State Board.

2. *Examination Sub-Committee*.—To arrange State Board Examinations.

3. *Syllabus and Curriculum Sub-Committee*.—To formulate syllabii for different courses. Six meetings of Examination Sub-Committee were held during 1962-63: —

1. Sixteenth meeting	on 24th May, 1962
2. Seventeenth meeting	„ 23rd July, 1962

- | | | | |
|-------------------------|----|----|---------------------|
| 3. Eighteenth meeting | .. | .. | 28th August, 1962 |
| 4. Nineteenth meeting | .. | .. | 30th October, 1962 |
| 5. Twentieth meeting | .. | .. | 17th December, 1962 |
| 6. Twenty-first meeting | .. | .. | 24th February, 1963 |

The detailed report on the working of the following Government Institutions under this Directorate are incorporated in the succeeding chapters.

1. Punjab Engineering College, Chandigarh
2. Punjab Polytechnic, Nilokheri
3. Government Polytechnic, Ambala City
4. Central Polytechnic, Chandigarh
5. Government Polytechnic, Jhajjar
6. Government Polytechnic, Sirsa
7. Jagat Ram Government Polytechnic, Hoshiarpur
8. Government Junior Technical School, Kangra
9. Government Junior Technical School, Kapurthala
10. Government Junior Technical School, Gurgaon

PARAMJIT SINGH,
Director, Technical Education, Punjab,
Chandigarh.

CHAPTER 2

Annual Administration Report for the year 1962-63 of the Punjab Engineering College, Chandigarh

HISTORY OF INSTITUTION

Building

This College has an imposing building which is surrounded by spacious lawns and playgrounds.

The accommodation for the college of Architecture has been temporarily provided in College Science Block and College hostels.

Since the admission is to be increased to 360 from the Session 1963-64, the Block constructed for the integrated course will be utilized for Engineering students. It is expected that college of Architecture will shift to its own building by June, 1964. A new diploma course of Production Engineering has been started from 1962-63. The accommodation has been provided in the existing college and hostel buildings for the time being.

The construction of new building for the workshop (for Production Engineering) has started this year. Starting of Production Engineering course and increased admission to B.S.C. Engineering Degree Course require further expansion of college and hostel buildings.

Equipment

The College is well equipped and taking in view the development and requirements we have started getting equipment for Aeronautical Engineering, Production Engineering and High Voltage Laboratory. These courses have been started newly and will be further expanded. The following expenditure has been incurred during the year 1962-63, on various schemes :—

	Rs nP.
1. Normal Development Scheme ..	44,475.00
2. Expansion Scheme ..	77,280.00
3. Aeronautical Engineering ..	41,938.00
4. Production Engineering ..	14,513.00
5. Furniture for Five Year Integrated Course (Now Science Block) ..	13,807.00

Furniture

(1) *Estimate No. 83/1960-61.*—All items under this estimate have been completed except one item, i. e., 147 No. Easy Chairs. These chairs are to be arranged by the Executive Engineer, Ambala Provincial Division, Ambala.

(2) *Estimate amounting to Rs 77,615.*—Only 147 Nos. Easy Chairs have been received from the Executive Engineer, Capital Project Division No. 2 (Roads), Chandigarh and for balance further action is being taken at their end.

(3) *Five Years Integrated Course (Science Block).*—Following items have been received :—

(1) Student Tables ..	93 Nos.
(2) Easy Chairs ..	73 Nos.

(3) Office Chairs	..	18 Nos.
(4) Dining Tables	..	60 Nos.
(5) Laboratory Tables	..	13 Nos.
(6) Technicians Tables	..	10 Nos.

Some orders have been placed with the firms and further action for purchasing the balance furniture amounting to Rs 50,000 is being taken during the financial year 1963-64.

Staff

The following changes took place in the Gazetted Teaching Staff during the year under report :—

Serial No.	New Appointment	Post in which appointed	Date of Joining
1	Shri H. S. Gill ..	Assistant Professor in Applied Science Department	22-8-1962
2	Shri Lallan Prasad ..	Ditto	26-11-1962
3	Shri Shiv Kumar Sharma ..	Ditto	4-1-1963
4	Shri K.K. Sharma ..	Assistant Professor in Civil Engineering	9-8-1962
5	Shri R.S. Soin	Ditto	9-8-1962
6	Shri Vasdev Gupta ..	Ditto	21-8-1962
7	Shri B.M. Dhir ..	Ditto	28-12-1962
8	Shri Y. P. Vaid ..	Ditto	28-12-1962
9	Shri R. L. Kakkar ..	Lecturer in Civil Engineering	21-8-1962
10	Shri H.R. Mehta ..	Ditto	28-8-1962
11	Shri R. P. Verma ..	Lecturer in Electricity Engineering	2-8-1962
12	Shri K.R.S. Jawanda ..	Assistant Professor in Highway	31-7-1962
13	Shri Harmohinder Singh ..	Lecturer in Mechanical Engineering	26-9-1962
14	Shri Kanwar Sain Satija ..	Ditto	26-9-1962
15	Shri Dharam Vir Behl ..	Ditto	28-9-1962
16	Shri Mohinder Singh ..	Ditto	1-10-1962
17	Shri Hari Gopal Aggarwal ..	Ditto	3-10-1962
18	Shri P. N. Kachroo ..	Assistant Professor in Highway Engineering	24-10-1962

Serial No.	New Appointment	Post in which appointed	Date of joining
19	Shri Narinder Kumar Malhotra	Lecturer in Production	9-10-1962
20	Shri Sudershan Kumar ..	Ditto	13-12-1962
21	Shri V. K. Gupta ..	Ditto	26-11-1962
22	Shri Y. N. Sarivastva ..	Ditto	12-12-1962

Left/Transferred

Serial No.	Name of Officer	Designation	Date of leaving
1	Shri G.S. Vij ..	Assistant Professor in Civil Engineering	4-6-1962
2	Shri K.K. Sharma ..	Ditto	13-11-1962
3	Shri B.M. Dhir ..	Ditto	2-2-1963
4	Shri R. L. Kukkar ..	Lecturer in Civil Engineering	11-2-1962
5	Shri H.R. Mehta ..	Ditto	21-2-1963
6	Shri H.S. Gill ..	Assistant Professor in applied Science	26-11-1962
7	Shri Dharam Vir Behl ..	Lecturer in Mechanical Engineering	25-10-1962
8	Shri Mohinder Singh ..	Ditto	1-3-1963
9	Shri H.G. Aggarwal ..	Ditto	23-11-1962
10	Shri Sudershan Kumar ..	Lecturer in Production Engineering	28-2-1963
11	Shri N.K. Malhotra ..	Ditto	13-11-1962

Name of the teaching staff members who have proceeded abroad for Higher Studies during the year 1962-63

1	Dr. P. G. Deo ..	Professor in Applied Science	Under T.C.M. Programme
2	Shri S. S. Sharma ..	Assistant Professor in Civil	Ditto
3	Shri A.D. Kapur ..	Assistant Professor in Mechanical Engineering	Under Commonwealth Scheme. On deputation for M.E. course at the Indian Institute of Science Bangalore. On extraordinary leave.
4	Shri M.F. Chawla ..	Assistant Professor in Elect Engineering	
5	Dr. R. Manohar ..	Associate Professor in Applied Science	

Name of the teaching staff members who returned back after completing their higher studies under various schemes

- 1 Dr. J.S. Bajwa .. Assistant Professor in Electrical Engineering
- 2 Dr. B. Thapar .. Assistant Professor in Electrical Engineering.
- 3 Dr. Balbir Singh .. Assistant Professor in Mechanical Engineering

Teaching posts filled and the posts lying vacant on .. 1st March, 1963. } Filled 69

Teaching posts sanctioned during the year both .. 18
Class III and Class IV. } Vacant 14

Non-teaching posts filled and the posts lying vacant .. as on 1st March, 1963 both Class II and Class V } Filled 270
Vacant 18

Institution's Budgets

	Non-Plan		Plan Scheme	
	Rs	nP.	Rs	nP.
1. Pay of Officers	4,61,640.29		1,965.32	
2. Pay of Establishment	2,14,502.57		866.55	
3. O.A. and H. (D.A.)	2,25,084.53		1,311.74	
4. Travelling Allowance	14,442.93		Nil	
5. Contingencies	1,81,265.58		1,91,503.90	
6. Scholarships and Stipends	34,686.33		Nil	
7. Stationery	10,000.23		Nil	
Grand Total	11,41,622.23		1,95,647.51	

Instructional Tours

Due to National Emergency, one short instruction of tour, instead of long instructional tour, within Punjab and Delhi was undertaken by each of 3rd year and 4th year Civil, Electrical and Mechanical classes to places of Engineering importance and Interest. In addition to this, short efforts were made to make use of holidays and weekends for visiting neighbouring works factories, workshops, etc. in order to provide thorough background to teaching course.

Students

On 1st April, 1962, 895 students were on the rolls of the engineering degree class, 240 new admissions were made in the 1st year during the year under report, 90 students left after completion of their courses and 20 students left after having failed in the first and second semester examinations and resigned due to other reasons. Thus the total No. of students on the

rolls of the Engineering Degree Classes of the College on 31st March 1963, on the close of the year under report was 949 as shown below :—

Year	Boys	Girls	Total
First Year Class	236	—	236
Second Year Class	246	—	246
Third Year Class	218	1	219
Final Year Class	248	—	248
		Total	949

In addition to the above there were 59 students in Diploma course in Production Engineering and 10 students in Post Graduate course in Highway Engineering.

New Admissions

The number of admission to Engineering Degree classes has increased to 240 since 1958, under the expansion scheme of Government of India, 830 students applied for admission against 240 during the year under report and 240 admissions were made as shown below: —

	F. Sc./Pre. Engg.	B.A./B.Sc.	Total
1. Open Merit ..	149	23	172
2. Scheduled Castes/ Scheduled Tribes and other Backward classes ..	14	11	25
3. Jammu and Kashmir State Nominees ..	2	8	10
4. Himachal Pradesh ..	3	2	5
5. Backward Area ..	6	13	19
6. Sports Man ..	3	—	3
7. Sons/Grand Sons of Political Sufferers ..	2	1	3
8. Nominations by Government of India against seats reserved for them ..	3	—	3
		Total	240

Out of the above mentioned 240 seats, 5 seats were reserved for persons of India Origin Domiciled abroad whose forefathers belonged to Punjab (East/West), one seat was reserved for Nationals from the Countries of South and South East Asian Region and one seat was reserved for self finance foreign student.

In addition to the above, a new course of Diploma in Production Engineering was started in this college from the session 1962-63. The duration of this course is four years. 170 candidates applied for admission to the said course against 60 seats during the session 1962-63 and 60 admissions were made as shown below:—

1. Open pool	..	32
2. Sponsored Candidates	..	13
3. Sports Man	..	1
4. Scheduled Castes/Tribes	1 ..	
5. Backward Classes	6 ..	7
6. Backward Area Candidates	..	6
7. Sons/Grandsons of Political sufferers	..	1
	Total	60

Syllabus and Course

From the session 1955-56 the Engineering Degree courses of three years theoretical followed by one year Practical Training has been replaced by 4 years integrated course followed by 6 months Practical Training.

The Post-Graduate course in Highway Engineering is continuing since 1956-57. There are some proposals of starting other Post Graduate courses at this college and it is most likely that the following two Post-Graduate courses may be started from the session 1963-64 :—

(a) M. Sc. Electrical Power Engineering.

(b) River Valley Projects.

During the year 1962-63, Aeronautical Engineering Degree course has been introduced and 17 students of 3rd year class from Mechanical and Electrical branches have joined this course. From the session 1963-64, 30 students (15 from Mechanical and 15 from Electrical branches) will be taken in this course at the end of their 2nd year course.

Practical Training

The arrangement for practical training continued with the Central P.W.D., Delhi, Central Electricity Board, Delhi, Tata Iron and Steel Company Ltd., Jamshedpur and with the Punjab P. W. D. Irrigation Branch including Bhakra Nangal Project, B & R Branch. Public Health Branch, Electricity Board, Central Water and Power Commission, New Delhi, Defence Departments, etc.

In addition to these facilities for practical training provided by the various leading Firms in India through the Government of India, Ministry of Education, are available for this institution along with other Indian Technical Colleges.

Financial Assistance (Stipends) to the Displaced students trainees.

From the year 1960-61 the financial assistance to displaced students has been stopped functioning for the fresh recruits. Only for those students who were in receipt of this assistance during the year 1959-60, 1960-61 and 1961-62 have been allowed assistance. Under this scheme 21 students of this College have been granted the stipends during the year under report and a sum of Rs. 4,865.77 nP. has been paid to these students against the total amount of Rs. 6,400 sanctioned for the purpose. The balance amount of Rs. 1,534.23 nP. has been deposited into the local Treasury under proper head of account as an undisbursed amount on 30th March, 1963.

In addition to above, this College has been a centre for disbursement of stipends under this scheme to stipendiaries of all the engineering institutions spread over the whole of Indian Union, whose parents/guardians have been residing in the Punjab.

As there was no demand from any of such institutions, no amount of stipend has been released to any of the institutions to be disbursed to their students stipendiaries during the year under report.

Loan Scheme

A Loan Scheme known as 'Punjab Education Loan Scheme' had also continued like previous years during the year under report. Under this scheme 139 fresh students were granted loan and in addition to this 358 old loanee-students continued getting loan. In all, a sum of Rs. 4,39,025 was distributed to the students of this College during the year under report.

In addition to this, a sum of Rs. 8,450 was also paid to the 15 fresh Production Engineering Diploma class students admitted during the year under report.

Result

Statement showing Result of Punjab University Annual B. Sc. Engineering Examination held in May, 1962.

Name of the year	No. appeared	Passed	Re-appear	Fail
1st Year	233	175	52	6
2nd Year	221	198	20	3
3rd Year (a) (Civil)	83	64	19	..
(b) Elect.	79	62	16	1
(c) Mech.	81	68	13	..
Final Year (a) Civil	59	57	2	..
(b) Electrical	56	53	1	2
(c) Mechanical	75	75	..	..
M. Sc. Highways	12	12	..	..

Stipend Scholarship and Prizes

The Undermentioned students have been sanctioned, granted/awarded stipends, scholarships and prizes for the year under report:—

Scholarship

(1) Punjab Government Merit Scholarship @ Rs. 65 per month to a student who stands first in his class and @ Rs. 50 per month to a student who stands second (for one year from 16th July, 1962 to 15th July, 1963.)

Name of student.	Class	Rate of Scholarship
1 Ashok Kumar Kher (M)	Final Year	Rs 65
2 Arun Kumar Trikha (M)	Do	50
3 Chanan Singh (E)	Do	65
4 Sudarshan Pal Singh (E)	Do	50
5 Iqbal Inder Mohan Singh (C)	Do	65
6 Ram Dhan Singh (C)	Do	50
7 R. K. Mehra (E)	3rd Year	65
8 P. C. Dhumir (M)	Do	50
9 Charan Singh (M)	2nd Year	65
10 J. K. Single (M)	Do	50

(2) Punjab Government necessitous scholarship, four each to Final, Third, Second and First Year B. Sc. Engineering Degree class students @ Rs. 50 per month for a period of one year (from 16th July, 1962 to 15th July, 1963.)

Name of Student	Class	Value of Scholarship
1 Nirmal Singh	Final Year	Rs. 50
2 Nand Kumar Bansal	Do	50
3 Madan Mohan	Do	50
4 V. K. Ralhan	Do	50
5 Madan Lal Gambhir	Third Year	50
6 Hari Dutt Talwani	Do	50
7 Naresh Kumar Kohli	Do	50
8 Arjan Dev Kawatra	Do	50
9 Madan Mohan	2nd Year	50
10 Ram Kumar Mittal	Do	50
11 Inderjit Chopra	Do	50
12 Kali Dass Batra	Do	50
13 Madan Lal	1st Year	50
14 Dharam Pal Gupta	Do	50
15 Neel Kanth Sabore	Do	50
16 Surinder Singh Arora	Do	50

Prize and Medals(i) *Prizes*

Three prizes of the value of Rs. 80 in the form of books one each to student who stands first in the Final Engineering Examination in each branch of Engineering, Viz. Civil, Electrical and Mechanical and one prize of Rs. 60 to a student who stands second in the Final Civil Engineering Examination are awarded. Due to National Emergency, these prizes have been reduced to their half value during the year under report.

S.No.	Name of the student	Branch of Engineering	Value of prize
1	Harbhajan Singh Bains	1st in Mechanical Final	Rs. 40
2	Rajinder Prashad	1st in Electrical Final	Rs. 40
3	Randhir Singh	1st in Civil Final	Rs. 40
4	Vas Dev Gupta	2nd in Civil Final	Rs. 30

(ii) *Medals*

(i) Three gold medals one each to the three students who stands first at the Punjab University Final Engineering Examination in Civil, Electrical and Mechanical Branches separately provided that he who stands first in the combined branches is awarded a bigger medals. (Value Rs. 400, each but bigger medal of the value of Rs. 500 approximately).

(ii) One gold medal of the value of Rs. 400 approximately, is awarded to the best "All-rounder" student of the College.

(iii) Three Silver medals one each is awarded to each of the three students who stand first in each project of Final Engineering Examination, i. e. Civil, Mechanical and Electrical (approximate value of each is Rs. 25).

For the year 1962-63 the following students have become entitled for the above-mentioned medals:—

Gold Medals

S. No.	Name of the student	Value of award
1	Randhir Singh (Civil)	Rs. 500
2	Harbhajan Singh Bains (Mechanical)	Rs. 400
3	Rajinder Parshad Verma (Electrical)	Rs. 400
4	(This award is still to be decided. Necessary data from the Punjab University is being collected).	

Silver Medals

S. No.	Name of the student	Value of award
1	Randhir Singh (Civil)	Rs. 25/-
2	Lakhsir Singh Vird (Electrical)	Rs. 25/-
3	Harmohinder Singh (Mechanical)	Rs. 25/-

Games

During the year under report the students showed great enthusiasm and interest in sports activities.

Cricket

The Cricket team participated in the University Tournament apart from the many friendly matches played. The performance were good all round.

Tennis

We gave a nice performance in the University matches and at the end lost to University Campus in the finals Shri Vijay Nagpal captained the University Tennis team and led the University team in the Inter University Championship at Kanpur. We participated in the Inter Engineering Tournament and won the tournament.

Hockey

Our Hockey team has done very well this year, both in respect of the quality as well as character of play. The Inter-Engg. Tournament was held this year at Gurunanak Engineering College, Ludhiana. We won the Thapar College, Patiala, and drew with Guru Nanak College. The trophy was therefore decided to be shared between Gurunanak Engineering College and our College. Our team also took part in the Harbail Singh Memorial Tournament and was highly spoken of by India's former Olympion S. Balbir Singh.

Badminton

Provision of lights in two more badminton courts is in hand. With this, four courts will be fully equipped with lights.

Foot Ball

A number of friendly matches was played. We could not participate in Inter Engineering Tournament.

Volley Ball|Basket Ball

A number of friendly matches was played.

Annual Sports

Sixteenth Annual Athletic meet was held on 22nd, 23rd and 24th of February, 1963. Shri Bhagwant Singh Mann was adjudged the best Athlete of the year. Shri Thaman Singh was declared 2nd best athlete. Students participated in all the events with great zeal and enthusiasm. New records in 6 events namely, 400 m. Hurdles, Long Jump, Pole Vault, Discuss Throw, Hammer Throw and Javelin Throw were set.

Shri Pattom. A. Thannu Pillai, Governor of Punjab was the Chief Guest of honour.

Boating and Hiking

The club had a membership of 68 students and many students were refused the membership because of less boats available for the club. As was decided in the beginning of the session, a new boat was to be manufactured and final orders for the manufacture of a new two seater boat was placed

recently. There could be more facilities for the club, but the club is definitely running short of money as there are no funds available. Due encouragement in the form of funds is highly needed to make the club more active and the efforts are being made to encourage the students to join this club.

Student Club

The activities of the students club were generally curtailed for the session 1962-63 due to National Emergency. Himalya Club was started this year. Annual Lohri function was celebrated by holding a local inter collegiate Music competition in which about twelve teams took part. The function was presided by Honourable Pt. Mohan Lal, Home Minister, Punjab. The trophy was awarded to Government College for Women, Chandigarh.

Matches for the indoor games were played. Prizes to the winners will be awarded at the Annual Club Function to be held in the second week of May, 1963.

Due to National Emergency, austerity is being observed in every function and we have saved more than Rs 2,750 in this session.

The savings shall be invested in Defence Bonds or given to Defence Fund.

Students Photographic Club

The Photographic Club made some head-way during the year with its membership touched forty. Many members regularly used to dark-room facilities. A few lectures on Photography were delivered by the Club President Dr. V. S. Gain. The members took photographs during ANNUAL SPORTS MEET AND ON A number of other functions.

Students Welfare Fund

During the year under report, students made contributions to the fund at the rate of Rs 5 each along with their dues. The amount thus collected was utilized partly for giving short-term loans to some of the very deserving students. Some amount was spent on the purchase of books for the Welfare Library which were issued to them on the returnable basis. These books were recommended by the elected representatives of the students and scrutinised by the Professor Incharge of the body.

Research

Research work is being carried out in the following Departments :—

- (a) Highway Engineering Department by the Post-Graduate students. The list showing Title of Theses, the names of the Post-Graduate students and the staff members guiding them are as shown below :—

Title of Thesis	Name of the Student	Name of the Staff member guiding the research
1. A study of Effect of replacement of Part of cement by Calcined Shale Pozzolan in Structural Concrete	Shri Satya Sagar	Prof. R. C. Sharma
2. Feasibility of Improvement in Strength of Soils for use in Base course with addition of Bitumenous Emulsion and Cement	Shri G. S. Tandon	Prof. R. C. Sharma

Title of Thesis	Name of the Student	Name of the Staff member guiding the research
3. Laboratory study of the Effect of Pozzolan on the Engineering Properties of Soil Stabilized with Lime	Shri P. N. Agaraja Rao	Prof. R. C. Sharma
4. A Laboratory Study of the effect of change of moisture condition on the Engineering Properties of Soils subjected to modified Compaction	Shri P. N. Kachroo	Prof. R. C. Sharma

Regarding new research scheme, Prof. I. V. Nayak is preparing the scheme for submission to the C. S. I. R. and as per requirements the cost of equipment is to be provided on the basis of quotation etc. Necessary information is being collected and the scheme will be submitted in due course.

Applied Science Department

Mr. S. D. Sharma, J. R. F. in the C. S. I. R. Research Scheme, under the supervision of Dr. P. G. Deo, Professor and Head of Applied Science Department, has been doing research work in solid state physics. Interesting results have been obtained in the following topics:—

- (1) Observation of dissolution spirals on single crystals.
- (2) Direct observation of dislocations in crystals by the method of etching.
- (3) Observation of dislocations motion under the thermal stresses in Polycrystals.
- (4) Facet formations on crystals subjected to heat treatment at near melting points.

Mr. Sharma read a paper "Frank-Read Mechanism in NaCl Crystals" in October, 1962, in the symposium on 'Lattice defects and Lattice dynamics' held at National Physical Laboratory, New Delhi.

Dr. Deo has returned from the States after 6 months study and observation tour of Engineering and Technological institution there.

Library

This year our Chief Minister has been kind enough to give a special grant of Rs 10,000 towards the purchase of Text Books for the use of poor students. We have added nearly five copies of each Text-book to our Text-book Section, which has proved a boon to our students. With the increase in the number of students, the Text-books are still wanted in greater number, and we shall try to add more copies of the same in the coming years.

With the introduction of Aeronautical Engineering course we have spent Rs 10,000 for the purchase of books on Aeronautics. As these books are costly, so the number of the books purchased, is not much and we hope to spend more in the next year.

This year too we have received nearly 500 volumes of Text-books on Scientific and Technical Subjects from British Council Library under their Text-book Scheme for making use of the same in our Library. Some of these books have proved very helpful for our students.

Our Text-book Section containing nearly 1,000 volumes has become very popular and our students are making full use of the same. We issue books from the Text-books section for over night use also.

Our students are becoming Library minded day by day due to the fact that our issue in the lending Section has increased enormously, 150 volumes per day.

Our recurring grant of Rs 10,000 which is too meagre for a developing Library like ours, has also been spent towards purchase of books and subscription of periodicals. We subscribe to 100 periodicals for Rs 5,000. It is hoped that this grant will be increased, as it is insufficient to meet our needs. The Semester system has introduced extra heavy load on Library Books, so more copies will have to be added.

Due to shortage of library Staff, we cannot open our Library for 12 hours a day which is our urgent need. However, with difficulty we have opened this year during the Examination month for 10 hours a day by distributing the present staff to come in shifts. We have also kept it open on Sundays to enable the students to make best use of the Library.

CHAPTER 3

History of the Institution

This is the oldest Government Institution inherited from the Government School of Engineering, which, prior to the partition of the Punjab was the only Government Institution functioning for the joint Punjab at Rasul in Gujrat District. On partition of the Punjab, as the Government School of Engineering, Rasul, was left in Pakistan, the Punjab (India) Government established its own institution at Gurdaspur in 1947 having the same name, viz Government School of Engineering, to meet their own requirements and those of Jammu and Kashmir and Himachal Pradesh of Subordinate Engineering Personnel. The Institution was later shifted to Chhachhrauli (Kalsia) in November, 1950 and to Nilokheri in October, 1951 where it found its permanent home. In May, 1958, the Nilokheri Polytechnic which was being run as a separate institution by the Government of India was merged with the Government School of Engineering and the combined Institution was renamed as 'Punjab Polytechnic, Nilokheri'. The administrative control of the institute is with the Director of Technical Education, Punjab under the Secretary to the Government, Punjab, P. W. D., B. and R./P. H. Branches.

The function of the institute is to impart theoretical and practical instruction in Civil, Mechanical and Electrical branches of engineering for three years followed by two years of practical training in outside workshops and in the field. The examinations are conducted by the State Board of Technical Education, Punjab and diplomas to successful candidates are awarded by this body. The diploma is recognised by the Government of India as equivalent to the National Certificate and also exempts the candidates from the studentship examination of the A.M.I.E. Organisation. The Institute also imparts training in the Draftsman courses in Civil and Mechanical engineering, which is a two years course at this institute.

In addition to the above, training is also imparted in several trades as are listed below:—

(a) *Mechanical Engineering*

1. General Mechanic,
2. Turner,
3. Machinist,
4. Tractor Mechanic,
5. Internal Combustion Engine,
6. Foundry,
7. Carpentry,
8. Blacksmithy.

(b) *Electrical Engineering*

1. Electrician,
2. Radio Mechanic.

(c) *Printing Press*

1. Machine Man,
2. Hand Composing and Proof Reading.

Besides the above regular training courses, a short-term course of Wireless Operators to meet the immediate and emergent demand of the country, has been started at this institute with an intake of 16 students, under the administrative control of Director, Industrial Training, Chandigarh. The training in this trade started at this institute with effect from 1st February, 1963.

The annual intake of fresh students at this institute is the highest being 381, comprising of 240 for the diploma courses, 55 for the draftsman courses, and 86 for the trade courses. The institution is fairly well equipped for the training work but on account of the increased intake the Ministry of Scientific and Cultural Affairs has laid down standards on the basis of which shortfalls in equipment are being made up under the Development and Expansion Schemes. Result achieved in the augmentation of these schemes are briefly summarized below :—

1. *Buildings*.—The buildings occupied by the institute are under the control of P. W. D., B. and R. Branch so far as their maintenance and repairs etc., are concerned. All the buildings old and new are the institute's own with the exception of 1/2 portion of old trainees hostel which Government School of Engineering (defunct) was occupying on rental basis before amalgamation of the two institutes. Correspondence regarding its transfer free of cost by G.O.I. like the other buildings transferred free of cost to the State along with the transfer of Nilokheri Polytechnic, Nilokheri (defunct), is being actively pursued between the two Governments, viz the Punjab State and G.O.I. and is expected to reach finalization early.

Buildings which were previously on rental basis with the Institute have been purchased and paid for through the XEN, Karnal.

New Buildings, the possession of which was taken over last year comprise of lecture halls, drawing halls and examination hall and almost all the class teaching work is done in this Block. In the old buildings are housed workshops, laboratories and the administrative offices.

2. *Hostels*.—The Punjab Polytechnic, Nilokheri is a residential institution and has ample hostel accommodation to house the full intake of students. The seating capacity of the four hostels is as under :—

1. Hostel Block A—278
 2. Hostel Block B—216
 3. Hostel Block C—226
 4. Old G. O. I. Hostel
 - (a) Near Wing—203
 - (b) Distil Wing—215
- Total .. 1,138

The Institute being a residential institute, all students are required to reside in the hostel. Exemption is however allowed to a small category of students whose parents, grand parents, real brothers and real sisters are residing at Nilokheri proper or at nearby and adjoining stations from where students can easily attend the institute without detriment to their studies.

3. *Staff Residence*.—During the year under report, Government sanction to the construction of staff residences was received. The construction of the following staff quarters has commenced and work on the same is in progress :—

- | | |
|--------------------------------------|----------|
| 1. Principal's residence | .. 1 No. |
| 2. Head of Departments and Lecturers | 6 Nos. |
| 3. Workshop Instructor | .. 1 No. |

The quantum of accommodation provided in these residences, particularly in categories (1) and (2) above are much below the status and scale of the officers who are to occupy these quarters, and have bed room sizes of 10 ft. X 11 ft. only. These appear to have been curtailed to dimensions rather too tight for comfortable living.

4. *Land.*—The total land with the Institute is about 40 acres, which includes 8 acres recently acquired across the G. T. Road, out of the above total area, about 36 acres are under lawns and playgrounds. The maintenance of these playgrounds and lawns is done by the Institute, and the expenditure incurred thereupon was met out of the Budget grant of the Chief Engineer, Punjab, P. W. D., B. and R. Branch, Patiala for the year under report. The estimated cost of maintenance of these playgrounds annually is Rs 11,080 but with the change over of the accounting system from P.W.D. to Civil System the Chief Engineer P. W. D., B. and R. curtailed this allotment to Rs 6,000 only. The reduction in allotment came about also as a result of budget cut due to emergency. It has also been decided by Government that in future funds for the maintenance work shall be arranged by the Directorate of Technical Education, Punjab, Chandigarh.

5. *Equipment.*—Equipment under development and expansion schemes during the year have been purchased as under:—

	Rs
(i) Development	.. 60,751
(ii) Expansion	.. 4,142

Furniture.—No new furniture has been purchased and paid for during the year.

Library.—The institute maintains a good collection of books of technical, professional and general interest. The students are allowed the free use of these books. No new book has this year been added to the library as no funds were provided for it. At present there are about 11,930 volumes of books in the Institute.

6. *Staff.*—The teaching staff as per recommendations of the All-India Council of Technical Education and as per work load on the increased intake was demanded through the schedule of new expenditure for the year 1962-63 and the posts were sanctioned accordingly. Most of the vacant posts especially of Lecturers, Demonstrators and Instructors were filled through the agency of P. S. C./ S. S. S. Board and some on purely temporary basis but the stay of the incumbents at the institute had not been more than a month or so with the result that there had been many changes and the education of the students suffered much. The posts of Head of Departments Civil and Mechanical remained vacant for a period more than 5 to 8 months, respectively.

7. *Scholarships*.—The total number of scholarships in the institute is as under :—

	Pb. Poly. NLK.
1. Merit	28
2. Merit-cum-Necessitous	54
3. For Lahaul and Spiti Students	1
	1
Total	83

The above scholarships as per their purposes have been sanctioned to the students strictly according to their merit, merit-cum-means and to Lahaul and Spiti students.

8. *Loan*.—As per past practice loan applications duly received on the prescribed *pro forma* and after being scrutinised were forwarded to D. T. E.'s Office and the under noted amount of loan was sanctioned for payment to the students of this institute.

	Pb. Poly. NLK.
	Rs
1. Loan amount sanctioned	1,52,974
2. Amount disbursed upto 31st March, 1963	54,750

The loan amount is being disbursed to the students, strictly in accordance with the terms and conditions of their agreements.

Loan work of privately managed institutes is being looked after by this institute for the last so many years without any extra staff or remunerations with the result that the present sanctioned staff (clerical) has to devote extra hours of work to cope with this heavy extra duty.

9. *Examinations*.—Attached at Annexure 'A' is the detail of the Annual examination results during the year 1962 in respect of the different diploma classes, draftsman classes and trade classes.

From a careful perusal of the result it may be seen that the same has been fairly good in spite of the shortages of teaching staff.

10. *Physical Training and Games*.—Physical Training and Games attendance as laid down are compulsory for every student. Students attended both these items regularly and it helped them not only to do hard work which they are required to do in their training at this institute but also helped them for their social recreational and moral needs as well.

The games provided in the institute are Football, Volleyball, Cricket, Badminton, Table-Tennis, etc. etc. This year in the Inter-Polytechnic Matches the students of the institutes fared well in the following games with their merit position as under :—

1. Athletics	.. First in Inter-Poly. Sports.
2. Victor Luderum (Over all position in Games and Sports)	.. Second in Inter-Poly. Sports (A very close second).

- | | | |
|-----------------|----|-------------------------------|
| 3. Hockey | .. | First in Inter-Poly. Sports. |
| 4. Badminton | .. | Second in Inter-Poly. Sports. |
| 5. Basket-ball | .. | Second in Inter-Poly. Sports. |
| 6. Table-Tennis | .. | Second in Inter-Poly. Sports. |
| 7. Cricket | .. | Third in Inter-Poly. Sports. |

A swimming pool also exists in the Institution and its use is made to the fullest extent. The swimming pool provides a very good exercise to those who know the art of swimming. About 200 students have been able to learn swimming during the last two years. The skill of swimming proves very useful to students in their professional career in particular to those students who are employed in the Irrigation Department.

11. *Cinema and Recreational Programmes.*—Selected social as well as technical films were obtained during the year under report to meet with the recreational and educational needs of the students.

12. *Sports.*—The fifth annual sports meet of the Punjab Polytechnic, Nilokheri was inaugurated on 2nd February, 1963 by Shri Ajit Singh, sportsman who stood first throughout the annual sports for the year 1961-62. A very excellent programme of track and field events was held for two days with effect from 2nd February, 1963 to 3rd February, 1963.

The ceremony for the close of the meet was also performed by the sportsman student who had been adjudged the best athlete during the year 1962-63, who was again Shri Ajit Singh.

On account of the National Emergency no elaborate programme for inviting guests from outside etc., was made.

13. *Educational Tour.*—The students of the 3rd year class were taken on tour up to Bombay this year in three parties accompanied by the staff members. They visited factories and works of engineering interest at different places. The tour of all the three parties had been of great educational value to the students and they derived the maximum educational benefit out of it. The expense for this tour was not paid by Government.

14. *Government Polytechnic, Sirsa.*—This year 60 students of first year Overseer were allowed to receive their training at this Institute. Only three teaching staff members were appointed in the 2nd half of the year. No clerical person had been appointed to share the load of the increased work, which was carried out by the Nilokheri staff.

15. *Students Amenities.*—A plot of land measuring 6,832.3 sq. yds. opposite to Administrative Block has been purchased out of students fund at a total cost of Rs. 29,451.52 nP. from the Nilokheri Colony Administration. The underlying idea for the purchase of this plot of land is to provide amenities to the students in the form of canteen and auxiliary buildings which will be developed by the lapse of time.

Conclusion.—It was felt that the biggest problem of the institute during the year was the acute shortage of teaching staff and its instability. Staff has been appointed on conditions of 24 hours notice and on one month's notice. This has resulted in new lecturers coming and going too frequently after stay of one or two months. This affects the student training very adversely, as there is no continuity in teaching and teaching schedules are completely dislocated. Also the weeks during which replacements of staff is not forthcoming gives opportunity to students for wandering about idly and results in the breeding of indiscipline. In order to overcome this difficulty it is suggested that all Lecturers, Instructors, Demonstrators appointed in the Institute, may be made bound to serve the institute at least for a full academic year in right earnest and casual visitors who join for marking time only till more attractive offers are forthcoming may be discouraged. The institute's staff requires being placed on firm and stable footing.

Class	Examination	No. of Candidates appeared	No. of successful candidates	Pass percentage
IIIrd Year Diploma Civil	Annual May, 1962	113	52	46.02
	Supplementary Oct, 1962	60	43	72.17
IIIrd Year Diploma Elect.	Annual May, 1962	57	44	77.19
	Supplementary October, 1962	13	10	76.92
IIIrd Year Diploma Mech.	Annual May, 1962	63	48	76.19
	Supplementary, October, 1962	14	10	71.43
IIInd Year Diploma Civil	Annual May, 1962	86	43	50.00
	Supplementary October, 1962	29	22	75.86
IIInd Year Diploma Elect. and Mech.	Annual May, 1962	126	88	69.84
	Supplementary October, 1962	34	31	91.18
Ist Year Diploma	Annual May, 1962	260	146	56.15
	Supplementary October, 1962	63	52	82.54
IIInd Year Civil D/Man	Annual May, 1962	29	29	100.00
IIInd Year Mech. Draftsman	Annual May, 1962	15	8	53.33
	Supplementary, October, 1962	5	3	60.00
Ist Year Civil Draftsman	Annual May, 1962	38	23	60.53
	Supplementary October, 1962	10	10	100.00
Ist Year Mech. Draftsman	Annual May, 1962	15	7	46.67
	Supplementary October, 1962	6	4	66.67
Electrician Trade	Annual	7	7	100.00
I.C.E. Trade	Do	5	5	100.00

Tractor Mechanic Trade	..	Do	..	4	4	100.00
Carpentry Trade	..	Do	..	1	1	100.00
Printing Press Machineman Trade	..	Do	..	6	6	100.00
Radio Mechanic Trade	..	Do	..	7	7	100.00
Printing Press Hand composing and Proof reading trade	..	Do	..	2	2	100.00
General Mechanic Trade	..	Do	..	7	7	100.00
Turner Trade	..	Do	..	6	6	100.00
Machinist Trade	..	Do	..	6	6	100.00

CHAPTER 4

Annual Administration Report for the year, 1962-63 of Government Polytechnic Ambala City

Government Polytechnic, Ambala City, entered in its 4th year of expansion during the year under report with the sanctioned strength of 240 students in each class (Total strength 720—Elect. 60, Mechanical 60 and Civil 120).

In order to cope with the increased strength, the proposal for necessary increased staff were made, out of which a few class IV posts were sanctioned during the year, 1962-63 against our heavy demand of teaching and clerical staff.

Buildings

Class rooms, tutorial rooms, library, Heat Engine Laboratory Examination and Assembly hall have been equipped during the year under report. The wiring in the workshop block, which was remodelled during the year 1961-62 is yet to be done by the Executive Electrical Engineer, Patiala, though the estimates have been sanctioned by the Government and the provision of funds exists.

1. Most of machinery in the Hydraulics Laboratory has been procured and got installed by the Public Health Department, but the Electric connections are yet to be done by the Electrical Department.

2. The boundary wall of the Institution is being raised by the P. W. D. Department.

3. The building for starting the Post Mechanical Diploma in Automobile Engineering is being constructed by the P. W. D. and the work is in progress. It is expected that the building will be available by the 15th July, 1963, for starting the classes.

The estimates for the following works have also been prepared by the Executive Engineer, Provincial Division, Ambala Cantt. and sent to the Superintending Engineer, Ambala Circle, Ambala Cantt.

- (i) Improvement and Layout of lawns.
- (ii) Construction of balcony and projection room in the assembly hall.
- (iii) Wiring sheds attached to Electrical Laboratory.
- (iv) Compound wall in the back side of the Institution.
- (v) Providing fixed furniture in the library.
- (vi) New Electric installation old block (W/shop).
- (vii) Providing black boards.

Sanction of the Government has already been received for the construction of Principal's residence, one Lecturer's quarter and 2 class IV servants quarter, but the work has not so far been started by the P. W. D.

Furniture, Library books and equipment

With the help of high powered committee the equipment worth Rs. 130.946 were purchased during the year under report.

The library is fully equipped with the technical books, but fixed furniture is yet to be provided.

The equipment, furniture and library books upto the extent noted below were purchased for the Normal development and expansion schemes during 1962-63.

	Normal Dev. Rs.	Expansion Scheme Rs.	Automobile Dip. course Rs
1. Equipment	92,174	26,344	10,328
2. Furniture			
3. Library books	—	2,100	—
Grand Total	92,174	28,444	10,328

Staff

Staff as detailed in Annexure A was demanded through the schedule of new expenditure but against this demand a skeleton class IV staff was sanctioned during 1962-63.

1. Record Restorer	45-75	1 post
2. Mali	30-35	2 posts
3. Sweeper	Do	1 post
4. Class room cleaner	Do	1 post
5. Chowkidar	Do	1 post

No clerical and Class IV staff except 6 posts of Class IV staff were sanctioned as a result of which the office work and cleanliness work of the Polytechnic is seriously suffering. The clerical staff in this institution is comparatively less than other sister institutions. Staff position of teaching staff is shown at Annexures 'F', 'B' and that of non-teaching at Annexure 'C'

Great difficulties are being experienced in the recruitment of staff as trained and qualified hands are not available and those who join, do not stick to the posts as higher and better salaries are offered to them under the Central Government and Private companies; etc. etc.

Hostel

Two hostels to accommodate 75 and 270 students are regularly functioning.

The Hostel located in Patiala House to accommodate 270 students lacks water supply facilities. It is suggested that Tubewell with a storage tank may kindly be provided for this hostel. A part of furniture has been provided in the hostel, and efforts are in progress to get furniture for the students in hostel.

Budget

A brief summary of the Institution budget i. e., income and expenditure for the year, 1962-63 is enclosed at annexure 'D'.

Examinations

During the year under report, the Institution sent up 148 candidates for the final State Board Diploma examination held in May, 1962, in Electrical, Civil and Mechanical Engineering. A statement showing the results of the examination held during the year under report is enclosed at Annexure 'E'.

Extra-mural activities of the Institution

Play Grounds

A portion of the Patiala House plot, which was occupied, were levelled and developed for sports and games purposes.

The Institution also took part in Inter-Polytechnic Annual tournaments and in various other districts tournaments and has the credit of winning many prizes.

N. C. C. R. and National Defence Fund

The Institution has held special parades to train the students in N. C. C. Rifles, during the year under report. The students of this Institution has taken part in digging the trenches to face the National Emergency. The staff and the students of this Institution have also donated Blood and money in the National Defence Fund whole heartedly. Many technical and other staff members have offered their services to serve in the Defence services, and the cases of some of them are being considered for appointment in the Defence services.

Educational Tour

Due to National Emergency the Expensive educational tour during the year under report was curtailed.

Institution Magazine

The Institution as usual published its "Technical Science" Magazine. The staff and students took keen interest in bringing out this publication.

Scholarships

The details with regard to the scholarship sanctioned and paid at the institution are given in Annexure 'G'.

ANNEXURE A

Statement showing the details of posts demanded in the S.N.E.
1962—63.

<i>Description of post</i>	<i>Grade</i>	<i>No.</i>
1. Director of Physical Education ..	150/300	1
2. Head Assistant ..	150/300	1
3. Asstt/Accounts clerks ..	106/200	2
4. Clerks/typists ..	60/175	4
5. Steno-typists ..	60/175+15/-	2
6. Storekeeper ..	106/200	1
7. Record Keeper ..	60/175	1
8. Record Restorer ..	45/75	1
9. Peons .	30/35	4
10. Sweepers ..	30-35	7
11. Malies ..	Do	4
12. Chowkidars .	Do	5
13. Class Room Cleaner ..	Do	2
14. Store Cooli ..	Do	1
15. Gestetner Operator ..	45/75	1
16. Sportes Cooli ..	30/35	2
17. Library Bearer ..	30/50	1
18. Workshop Cooli ..	30/35	2
19. Hostel Wardon ..	80/200	2

ANNEXURE B

Statement Showing the Teaching Posts sanctioned and the Posts lying Vacant as on 31st March, 1963. Government Polytechnic, Ambala City

<i>S. No.</i>	<i>Name of post</i>	<i>Total</i>	<i>Filled</i>	<i>Vacant</i>
1	2	3	4	5
1.	Principal	.. 1	1	..
2.	Heads of Departments	.. 3	2	1
3.	Lecturers in Mechanical Engineering	.. 5	3	2
4.	Lecturers in Electrical Engineering	.. 3	3	..
5.	Lecturers in Civil Engineering	.. 5	3	2
6.	Lecturers in Physics and Chemistry	.. 1	1	..
7.	Workshop Superintendent	.. 1	1	..
8.	Assistant Workshop Superintendent	.. 1	1	..
9.	Junior Lecturers	.. 4	4	..
10.	Senior Drawing Instructors	.. 2	1	1
11.	Demonstrators in Electrical Engineering	.. 3	2	1
12.	Demonstrators in Mechanical Engineering	.. 4	3	1
13.	Demonstrators in Civil Engineering	.. 5	5	..
14.	Demonstrators in General Science	.. 1	1	..
15.	Drawing Instructors	.. 8	8	..
16.	Workshop Instructors Rs. 100/200	.. 10	9	1
17.	Workshop Instructors Rs. 80/200	.. 5	2	3
18.	Assistant Mechanicst	.. 2	1	1
19.	Assistant Fitter	.. 1	1	..
20.	Patterh and Assistant Maker	.. 2	2	..
21.	Draftsman-cum-Tracer	.. 1	1	..
22.	Engineering Designer	.. 1	1	..
23.	Assistant Mechinist-cum-Engineering Driver	.. 1	1	..
24.	Electrician	.. 1	1	..
25.	Moulder	.. 1	..	1
26.	Draftsman Tracer	.. 1	1	..
27.	Boiler Incharge and Boiler Man	.. 2	..	2
28.	Physical Training Instructors	.. 2	2	..
29.	Laboratory Assistants	.. 6	5	1
			83	66
				12

ANNEXURE C

Statement showing the Non-teaching Posts filled and lying Vacant as on 31st March, 1963, Government Polytechnic, Ambala City.

<i>S. No.</i>	<i>Name of post</i>	<i>Total</i>	<i>Filled</i>	<i>Vacant</i>
1	2	3	4	5
1.	Head Assistant	.. 1	1	..
2.	Accountant and Accounts Clerk	.. 2	2	..
3.	Stenographer	.. 1	1	..
4.	Stenotypist	.. 1	1	..
5.	Clerks	.. 6	6	..
6.	Storekeeper	.. 1	1	..
7.	Tool room man	.. 1	1	..
<i>Class IV posts including contingencies paid</i>				
8.	Record Restorer	.. 1	..	1
9.	Labour Attendants	.. 12	10	2
10.	Library Bearer	.. 1	1	..
11.	Daftri	.. 1	1	..
12.	Librarian	.. 1	1	..
13.	Peons	.. 5	3	2
14.	Chowkidars	.. 6	6	..
15.	Mali	.. 4	3	1
16.	Sweepers	.. 8	8	..
17.	Class Room Cleaners	.. 2	2	..
18.	Water man	.. 1	1	..
19.	Workshop cooli	.. 1	1	..
20.	Hammer man	.. 1	1	..
21.	Oil man cleaner	.. 1	1	..

ANNEXURE D

Summary of the Government Polytechnic budget Income and Expenditure for the year 1962—63.

<i>Plan scheme</i>		<i>Alloiment</i>	<i>Actual Expenditure</i>
1. Pay of officer	..	7,800	7,359
2. Pay of establishment	..	9,220	9,130
3. Travelling allowance	..	..	..
4. Other allowance and honoaria			
D.A. 4300			
T.A. 1580	..	5,880	5,712
5. Contingencies			
N.R. Equipment etc. 2,19,750	}	.. 2,23,570	1,34,757
Others 3,820			
Grand Total		<u>2,46,470</u>	<u>1,56,958</u>
<i>Non-Plan</i>			
1. Pay of officer	..	72,340	74,112
2. Pay of establishment	..	1,06,500	1,06,180
3. Travelling allowance	..	4,500	4,248
4. Other allowances and Honorarium			
D.A. 52330			
T.A. 10730			
Re-imbursment 600 of medical			
5.	..	63,660	64,177
6. Contingencies	..	65,500	65,500
7. Scholarship and Stipends	..	15,420	15,368
Grand Total		<u>3,27,920</u>	<u>32,29,593</u>

ANNEXURE 'E'

Statement of results of final year class examination held in May, 1962

	Total No. of students appeared	Total No. of students passed	Total No. of Students failed	Compartment	Pass Percentage
1. Civil Engineering	68	41	9	18	60.3%
2. Electrical Engineering	48	29	9	10	60.42%
3. Mechanical Engineering	75	53	2	20	70.6%

ANNEXURE 'F'

Staff position of teaching Staff
year 1962-63.

	Total teaching posts sanctioned upto 31-3-1962	Teaching posts filled upto 31-3-1962	Teaching posts lying vacant on 31-3-1962	Teaching posts sanctioned during 1962-63 upto 31-3-63	Teaching posts filled upto 31-3-63	Teaching posts lying vacant on 31-3-63
1 Teaching staff Degree level	19	15	4	19	14	5
2 Teaching staff Diploma/Certificate level	66	55	11	66	53	13

ANNEXURE 'G'

Statement Showing the Scholarships Sanctioned and Paid

At

Government Polytechnic, Ambala City

1. Total No. Scholarships of this Institution payable	
(a) Payable out of Institute fund	.. 72
(b) Other scholarships	.. 32
2. (a) Total amount of loan sanctioned during 1962-63	.. Rs 1,21,250.00
(b) Total amount of loan paid for 1962-63	.. Rs 96,750.00

CHAPTER 5

Central Polytechnic, Chandigarh

History of the Institution—The Engineering Personnel Committee, appointed by the Planning Commission, Government of India, while assessing the demand and supply position in respect of the engineering Personnel during the Second Plan Period observed that there would be a serious shortage of Technical Personnel and in order to bridge this gap, emphasized the need for further expansion of Technical Education in the country. Agreeing to the recommendations, Government of India, Ministry of Scientific Research and Cultural Affairs requested to various State Governments to establish more Polytechnics in the States. The Punjab Government, accepting the recommendations, decided to set up an institution known as the CENTRAL POLYTECHNIC CHANDIGARH which started functioning at Chandigarh from the session 1959-60 with an annual intake of 120 students. The institution is covered under the Centrally sponsored scheme for the imparting of theoretical and practical education to Engineering Courses, leading to diploma awarded by the State Board of Technical Education, Punjab. The annual intake at the institution for the year under report was raised from 120 to 240 students—120 for Civil, 60 Electrical and 60 Mechanical, for diploma courses in order to cope with the gradual increase in the demand for technical personnel under the expansion schemes. The results of efforts made for augmentation of these facilities are narrated below :—

Building—The building of the Central Polytechnic, Chandigarh has been completed by the Capital Organisation with class rooms, workshops and Laboratory blocks and with spacious play grounds. The buildings stand constructed according to the standards laid down by the All-India Council for Technical Education. The building consists of Administrative Block, Workshops, various Laboratories and Library. Expansion scheme for the increased intake from 120 students to 240 students was introduced from the session 1961-62 and some of additional buildings required for the increased intake have been completed during the year under report.

Equipment—New equipment costing Rs 1,97,562 was purchased during the year 1962-63 for the use of the Institution. The break-up of the cost of equipment, furniture and library books purchased during the year 1962-63 under both the schemes is given below ;—

Scheme	Equipment	Furniture	Library
	Rs	Rs	Rs
1 Development	1,70,647	—	15,786
2 Expansion	26,915	3,573	—

Efforts for Procuring equipment as laid down by the standard of the All India Council for Technical Education were made through the Controller of Stores, Punjab, Jullundur as well as through the Store Purchase Committee, constituted for the purpose. A great handicap was felt in view of the shortage of foreign exchange facilities and non-availability of certain types of equipment, especially required for the laboratories. Controller of Stores, Punjab, Jullundur City, could also not procure enough equipment for us inspite of repeatedly calling tenders for the same.

Library.—The institution maintains a good collection of books of technical, professional and general interest. The students are allowed the free use of these books. The library books worth Rs. 15,786/-were purchased during the year under report

Institution Budget.—The position of the institution Budget grant is given below:—

	Budget grant Rs	Expenditure Rs
Non Plan	1,74,830	1,63,488
Plan	3,33,840	2,68,014

The annual revenue receipt by way of tuition fee, hostel rent etc. was Rs. 1,04,278.

Staff.—The institution was not having sufficient staff strength both technical and non-technical. Majority of the sanctioned technical posts were not filled up due to shortage of engineering personnel, in spite of the efforts made through Public Service Commission/S. S. S. Board, Punjab.

The position regarding the sanctioned posts and the posts filled during the year 1962-63 in respect of the teaching as well as non-teaching staff is given in the Annexure A and B to this Chapter.

Hostel.—Hostel facilities existed for the full intake of 720 students during the year under report.

Examination Results.—The Results of the Annual and Supplementary Examination of the First, Second and Third Year classes which had been conducted by the State Board of Technical Education, Punjab during the year have been given in Annexure 'C' to this Chapter.

Scholarships.—The following Punjab Government scholarships were awarded to the students of this institution during the year.

	Merit scholarships.	Merit-Cum-Necessitous scholarships.
1st year	8 of Rs. 20/each.	16 of Rs. 40/each.
2nd Year	8 of Rs. 20/each.	16 of Rs. 40/each.
3rd year.	4 of Rs. 20/each.	8 of Rs. 40/each.

The scholarships in question were paid to the tune of Rs. 18,356 during the year under report.

In addition to the above, the scholarships/stipends received from the Government of India and various District Boards were also disbursed to the tune of Rs. 7,200/-and Rs. 960/-respectively.

Loans.—Against the total loan amount sanctioned to the students during the year 1962-63 viz, Rs. 1,10,825/-loans to the tune of Rs. 93,775/-were disbursed during the year.

Sports and Games.—The games were compulsory for all students. Facilities for the various games existed at the Institution and every student was

required to participate in one or more of the games. The various teams of the institution participated in the Inter-polytechnic sports, held in the month of November, 1962 and gave a fair account of themselves.

The annual sports were also held during the year 1962-63 at the Institution premises.

Annual Function.—The annual Function of the Institution was held during the year and the prize-giving was done by the Director, Technical Education, Punjab, Chandigarh. The Function was very successful and all the students took keen interest in it.

Educational Tour.—The third year students proceeded on All-India Educational Tour and visited Delhi, Agra, Bhopal, Ajanta, Nagpur, Secunderabad, Poona and Bombay. The students visited the various important Industries and construction works in these cities and they received great educational benefit from these industries.

ANNEXURE A

Staffing Position of Teaching and Non-Teaching Staff during the Year 1962-63 (i. e. as on 31st March, 1963).

Central Polytechnic, Chandigarh

—	No. of posts sanctioned during 1962-63	No. of posts filled up to 31st March, 1963	No. of posts lying vacant on 31st March, 1963
—	1	2	3
1. Teaching posts	57	44	13
2. Non-Teaching posts	49	42	7

ANNEXURE B

Staffing Position of Teaching Staff

	<i>Year 1961-62</i>			<i>Year 1962-63</i>		
	Total teaching posts sanctioned during 1961-62 up to 31st March, 1962	Posts filled up to 31st March, 1962	Teaching posts lying vacant on 31st March, 1962	Teaching posts sanctioned during 1962-63 up to 31st March, 1963	Teaching posts filled up to 31st March, 1963	Teaching posts lying vacant on 31st March, 1963
	1	2	3	4	5	6
Teaching staff Degree level	16	13	3	22	17	5
Teaching staff Diploma/Certificate level	27	18	9	35	27	8
Total	43	31	12	57	44	13

ANNEXURE 'C'

Statement of Results for the year 1962-63

	Total number of students appeared	Total number of students passed	Total number of students failed	Total number of Students placed in compartment	Pass per- cent- age
	1	2	3	4	5
ANNUAL EXAMINATION					
Diploma					
<i>1st Year Class</i>					
Total	243	109 (109)	78	56	44.85%
SUPPLEMENTARY EXAMINATION					
Civil	31	27	4	..	87.09%
Mechanical	15	15	..	..	100%
Electrical	11	8	3	..	87.72%
Total	57	50	7	Nil	
ANNUAL EXAMINATION					
IInd Year Class					
Civil	39	14	6	19	35.90%
Mechanical	63	24	15	24	38.1%
Electrical					
SUPPLEMENTARY EXAMINATION					
Civil	19	16	3	..	84.21%
Mechanical	23	21	2	..	91.3%
Electrical					
ANNUAL EXAMINATION					
IIInd Year Class					
Civil	35	10	10	15	28.5%
Mechanical	30	24	1	5	80%
Electrical	29	19	3	7	65.52%
Total	94	53	14	27	..
SUPPLEMENTARY EXAMINATION					
Civil	25	17	..	8	68%
Mechanical	6	6	..	..	100%
Electrical	10	7	..	3	70%
Total	41	30	Nil	11	

CHAPTER 6

Administration Report of Government Polytechnic, Jhajjar, for the year 1962-63

HISTORY OF THE INSTITUTION

The Government of India, Ministry of Scientific Research and Cultural Affairs has approached the Punjab Government to establish Polytechnics including one at Jhajjar with an Annual Intake of 120 students. This Polytechnic will cater the need in Diploma Courses in Civil, Electrical and Mechanical Engineering. The institution is situated at a distance of 34 miles from Delhi and 16 miles from Bahadur Garh which is a nearest Railway Station. The district headquarters of Rohtak are at a distance of 23 miles.

During academic year 1961-62 sixty students of Polytechnic, Jhajjar, were given their education and training at Ambala as neither the building was complete nor we had the arrangement of equipment and staff.

In the year 1962-63 the class of 60 students was started in Polytechnic at Jhajjar and the distribution of students was 30 Civil and 30 Mechanical. The equipment was not adequate in laboratories and workshops in the beginning. However, after making due efforts the equipment for 1st year was completed and all the experiments and jobs meant for 1st year had been completed well in time, i. e. by the end of March, 1963.

The Hostel accommodation was arranged with Nehru College who had offered the portion of their own hostel, because P. W. D., B. and R. could not give us the hostel.

2 *Total teaching Posts Sanctioned during the year, filled and vacant.*—The total teaching posts sanctioned for this institution during the year 1962-63 were 19 Nos. in all, against these the following five posts remained vacant :—

(i) Lecturer	One Post
(ii) Junior Lecturer	Two Posts
(iii) Workshop Instructors	Two Posts

3. *Allotment of furniture, library, equipment etc. and expenditure against the same:*—

	Allotment	Expenditure
(i) Equipment	Rs 2,35,000	*Rs 2,01,061.36 nP.
(ii) Furniture		
(iii) Engineering		

*These figures are as per Cash Book exclusive of figures of expenditure booked through P. W. D., B. & R. and Elect. Branch authorities, a debit of which is still awaited from A. G., Punjab.

Staff Position of Teaching Staff.—Posts sanctioned, filled up and vacant are shown in 'Annexure A' to this Chapter.

Results.—The Examination result of this institution may be seen at Annexure 'B' to this Chapter.

ANNEXURE 'A'

Government Polytechnic, Jhajjar
STAFFING POSITION OF TEACHING STAFF

	Year 1961-62			Year 1962-63		
	Total teaching posts sanctioned during 1961-62 up to 31st March, 1962.	Teaching posts filled up to 31st March, 1962.	Teaching posts lying vacant on 1st March, 1962	Teaching posts sanctioned during 1962-63 up to 31st March, 1963	Teaching posts filled up to 31st March, 1963.	Teaching posts lying vacant on 31st March, 1963
Teaching staff, Degree level	4	3	1	5	4	1
Teaching staff, Diploma/Certificate level	5	3	2	14	10	4
Total	9	6	3	19	14	5

ANNEXURE 'B'

Government Polytechnic, Jhajjar
STATEMENT OF RESULTS, 1962-63

	Total No. of students appeared	Total No. of students passed	Total No. of students failed in the examination	Compartment	Pass percentage
<i>Degree—</i>					
Civil	Nil	Nil	Nil	Nil	Nil
Mechanical					
Electrical					
<i>Diploma—</i>					
Civil	*51	*26	*12	*13	*26.00%
Mechanical					
Electrical					
<i>Draftsman—</i>					
Civil	Nil	Nil	Nil	Nil	Nil
Mechanical					
Electrical					

The Principal, Government Polytechnic, Ambala City,—*vide* his Memo. No. N.C.C./A/34/9598, dated 9th May, 1963, has intimated that the 1st year students of this institution studying at his institution as guest students being the students of 1st year and the course of 1st year being common to Electrical, Mechanical, Civil Engineering Trades, no allocation was made during this year 1962-63 and that allocation will be made in 2nd year.

CHAPTER 7

Administration report for the year 1962-63 of Jagat Ram Government Polytechnic, Hoshiarpur

HISTORY OF THE INSTITUTION

The National Institute of Engineering, Hoshiarpur, was taken over by the State Government with effect from 1st July, 1962, so as to run as Government Polytechnic. The equipment, furniture and Library books with the Institute were inadequate and therefore, in order to bring the Institution at par with the standards laid down by the All-India Council for Technical Education, administrative approval of Rs 11,00,000 as detailed below has been accorded :—

Equipment	... Rs. 9.90 lacs
Library	... Rs 0.75 lacs
Furniture	... Rs 0.35 lacs

1.1. *Result of Institution* :—The results of the Institution are given below :—

	Total Number appeared	Total Number passed	In Compar- ment	Failed	Pass Percentage
Electrical Engineering	33	27	5	1	81.27%
Mechanical Engineering	34	21	9	4	61.76%
Civil Engineering	58	13	14	31	22.4%

2. *Teaching Posts sanctioned during the year* .—The following appointments have been made against the teaching posts :—

Principal .—Shri A.N. Sud took over the charge of the office of the Principal on 21st July, 1962.

Head of Department .—(i) Shri H.K. Chawla was appointed as Head of the Mechanical Engineering Department with effect from 1st July, 1962.

(ii) Shri D. D. Ghay is working as Head of the Electrical Engineering Department with effect from 1st July, 1962. His case for re-employment on contract basis is still under reference with the Government and the final orders have not yet been issued.

(iii) Against the post of the Head of the Civil Engineering Department Shri Surjit Singh Sangha has worked as a Lecturer and now Shri Balraj Saini stands appointed as Lecturer against this post.

Lecturers—(i) Shri M. Venkatachalam, Lecturer in Civil Engineering, joined with effect from 1st July, 1962

(ii) Shri Jagdish Lal Bhola worked as Lecturer in Civil Engineering with effect from 31st August, 1962 to 20th, February, 1963, and now the post stands filled by the appointment of Shri Kharaiti Lal Mahajan.

(iii) *Lecturer in Electrical Engineering*—The post was filled by the appointment of Shri Hari Om Gupta as Lecturer in Electrical Engineering. He subsequently resigned the post and the post was filled by the appointment of Shri V. Sharma, lecturer. Shri Sharma also subsequently resigned the post and the post now stands filled by the appointment of Shri Inder Nath Vasudeva.

Workshop Superintendent.—The post is vacant. It has been proposed to appoint Assistant Superintendent, Workshop, against this post so that his services may be utilised for setting up of the workshops and laboratories.

Two Junior Lecturers.—Shri G. L. Narang was appointed as Junior Lecturer with effect for 1st July, 1962.

The second post was filled by the appointment of Shri Ravinder Prashar but he subsequently resigned and left the Institution. The post now stands filled by the appointment of Shri Ram Krishan Rahanu.

Two Head Draftsmen.—Two posts stand filled by the appointment of Sarvshri Harish Chander Gupta and Dharam Pal Mahajan with effect from 1st July, 1962.

Seven Demonstrators.—Sarvshri Pitamber Datt Sharma, Surinder Mohan Kapur stand appointed with effect from 1st July, 1962. Shri Narinder Mohan was appointed as Demonstrator on six months' basis and he was subsequently appointed as Drawing Instructor on the arrival of Shri Ved Kumar Manchanda, recommendee of the Board.

Shri Rameshwar Singh Kalra was appointed as Demonstrator in Mech Engineering but he subsequently resigned and the post now stands filled by the appointment of Shri Naranjan Lal Shahi, recommendee of the Board.

Sarvshri Sadhu Ram and Perminderpal Singh were appointed as Demonstrators in Civil Engineering on six months' basis. The services of Shri Perminderpal Singh were terminated on the arrival of Shri Balbir Raj Gupta, recommendee of the Board. Shri Sadhu Ram has left the institution and Shri Perminderpal Singh was again appointed in his place. Shri Dharam Chand was appointed as Demonstrator against the seventh post.

Seven Assistant Instructors (Workshops).—Five posts stand filled with the appointments of Sarvshri Arjan Singh, Manohar Lal Chohan, Satya Pal Thinda, Dharam Pall, Ram Labhaya. The services of Shri Jagat Singh were terminated and in his place Shri Prem Chand Sheda stands appointed on six months' basis. Shri Mohan Lal was appointed as Workshop Instructor and his services were terminated on the arrival of Shri Har Gurdev who came here on transfer from Punjab Polytechnic, Nilokheri.

Three Draftsmen.—Shri Ramesh Kumar Sharma was appointed as Draftsman with effect from 1st July, 1962. Shri Ravinder Nath Saini was appointed as Draftsman, Electrical, on 6 months' basis. Shri Avtar Singh was appointed as Draftsman, Mechanical, on six months' basis and his services were terminated. The post now stands filled by the appointment of Shri Narinder Mohan on six months' basis.

4. *Non-teaching*—(i) The post of Head Assistant stands filled by the transfer of Shri Mohinder Singh Saini with effect from 21st July, 1962.

(ii) *Physical Training Instructor.* The post stands filled by the appointment of Shri Surjit Singh Bhullar.

Five Clerks—Shri Amar Singh who was working as Clerk in the National Institute of Engineering, was appointed with effect from 1st July, 1962. Shri Jhangi Ram was appointed on six months' basis, and now he has been appointed on regular basis as he has passed the Subordinate Services Selection Board Examination. Shri Ravi Rarkash stands appointed on 6 months' basis, Shri Prithvi Raj was appointed as a Clerk for a short period and he left and in his place Kumari Devinder Kaur was appointed.

Shri Devinder Kumar was appointed as a Clerk and he has subsequently been promoted as Steno-typist. In his place Shri Balwant Lal has been appointed on 3 months' basis. Shri Amar Singh proceeded to Military and in his place Shri Lajpat Rai has been appointed.

One Stenographer.—Shri Amolak Ram Kalia was appointed against this post with effect from 1st July, 1962.

One Store-keeper.—Shri Satya Pall Sharma was appointed against this post with effect from 1st July, 1962.

Hostel Warden.—The requisition for the post has been sent to the Subordinate Services Selection Board but it is yet to be filled.

Three steno-typists.—Shri Devinder Kumar was appointed as Steno-typist with effect from 17th December, 1962 and the two posts are still lying vacant. No suitable candidate for the post of Steno-typist are available in the local Employment Exchange.

Five Laboratory Assistants.—Shri Tirath Ram was appointed as Laboratory Assistant with effect from 1st July, 1962. Shri Amin Chand was transferred from Government Polytechnic, Ambala. Sarvshri Krishan Lal and Ravi Kumar were appointed as Laboratory Assistants but their services were terminated and in their place Sarvshri Gurmil Chand and Jagtar Singh were appointed. Shri Joseph Franklin has been appointed as Laboratory Assistant.

One Assistant Librarian.—The post is still vacant and the duties of the post are being performed by Shri Tirath Ram, Laboratory Assistant.

One Mechanic and one Fitter.—The posts are vacant and the requisitions have been sent to the Subordinate Services Selection Board.

One Electrician.—The post is already filled by the appointment of Shri Ram Sarup.

One Instrument Repairer.—The post is vacant as no candidate has so far been recommended by the Board for appointment.

All the class IV posts have been filled up and there is no vacant post.

5. *Total number of scholarships of this Institution.*—Four merit scholarships of the value of Rs 20 and eight merit-cum-necessitous scholarships of the value of Rs 40 per mensem are available to each class (I, II, III).

6. *Loans.*—Loans amounting to Rs 7,000 have been sanctioned for continuing cases and Rs 17,300 for fresh cases.

CHAPTER 8

Administration Report for the year 1962-63 of Government Polytechnic, Sirsa

History of Institution.—This Polytechnic admits students for diploma courses in Civil, Mechanical and Electrical Engineering, the duration period of course of which is for three years. It actually started functioning during July, 1962. 54 students were admitted during the year 1962-63 and they are getting Technical Education at Nilokheri.

Expenditure.—The details of the funds allotted for this institution and the actual expenditure incurred there against are given below :—

Serial No.	Budget allotment	Actually spent
	Rs	Rs
1 Pay of Officers	7,800.00	4,760.00
2 Pay of Establishment	7,010.00	7,311.31
3 O.A. and H.	4,350.00	3,851.27
4 Travelling Allowance	1,800.00	1,636.48
5 Stipend	1,920.00	1,438.70
6 Contingencies—		
1 Equipment	3,00,000.00	2,99,983.69
2 Other Contingencies	8,500.00	8,499.66
Expenditure on Equipment	..	2,78,663.41
Library	..	12,741.65
Furniture	..	8,994.94

Staff.—The staffing position of the Institution is given in Annexure 'A' to this Chapter.

ANNEXURE 'A'

Staffing position of Teaching Staff

	YEAR 1961-62			YEAR 1962-63		
	Total teaching posts sanctioned during 1961-62 up to 31st March, 1962	Teaching posts filled up to 31st March, 1962	Teaching posts lying vacant as on 31st March, 1962	Teaching posts sanctioned during 1962-63 up to 31st March, 1963	Teaching posts filled up to 31st March, 1963	Teaching post lying vacant on 31st March, 1963
Teaching Staff Diploma level ..	Nil	Nil	Nil	1. Principal (1)	1	..
				2. Head of Department (1)	..	1
				3. W/S Superintendent (1)	..	1
				4. Lecturer (1)	1	..
				5. Junior Lecturer (2)	2	..
				6. Drawing Instructor (1)	1	..
				7. W/S Instructor (2)	2	..

CHAPTER 9

Administration Report for the year 1962-63 of the Government Junior Technical School, Kangra

History of the Institution.—The School was started since 25th August, 1959, to impart training in General Education, Technical studies and Workshop training under the control of Industries Department. But with effect from 1st August, 1961, the Administration was transferred to the Technical Education Department.

2. *Locality.*—This school is situated at Jullundur—Hoshiarpur—Dhamsala Road just near the Kangra Bus Stand and is located in a spacious and magnificent building.

3. *Aims and Objects.*—The object of Secondary Technical Education is to create diverse education, providing training facilities according to need, ability resources, to divert a boy of 14 from academic type of education to Secondary Technical Education and to train them for various skills while continuing their normal Education up to Matric Standard so as to make them enlightened members of the society. The channel for advancement also exist as the students can join the Polytechnic according to their ability and resources or can join the Industry.

4. *Course.*—The duration of the course is 3 years. The integrated course, Workshop Training, Technical Studies and General Education are taught to the students during three years. Workshop training, Technical studies and General Education are common.

5. *Building.*—The school has its own building with ample accommodation.

6. *Boarding House.*—There is no hostel attached with the school. The construction of hostel (dormitory type) with a cost of Rs 1.50 lacs, which will provide accommodation for 100 seats, is under active action of the Director, Technical Education, Punjab, Chandigarh.

7. *Power and light connection.*—The light connections are complete in all respects. Power connections have been taken in the 1st phase. But motor wiring is yet to be got done in the II phase, which is being started by the contractor.

8. *Library.*—Library has been maintained in the school with a cost of Rs 2,000 which provides technical books, electrical and mechanical books and general education books. In all, books worth Rs 10,000 will be purchased for library.

9. *Admission and sanctioned strength.*—Every year the application forms for admission are received during the month of April and the admission is done in the month of May.

There are 112 students on roll against the sanctioned strength of 180. The decrease is due to the fact that some students joined services, some left due to poverty and some left due to hostel problem.

10. *Examination.*—The house examination of 1st year and IInd year classes is conducted by the Principal and of Final Year by the Technical Education Board, Punjab. The result is given in Annexure 'A' to this Chapter.

11. *Scholarship/stipends*.—64 stipends were sanctioned for this school and all were utilized and paid to the students. Details are given in Annexure 'B' to this Chapter.

12. *Allotment of expenditure*.—An expenditure of Rs 79,431.60 was incurred against the allotment of Rs 84,600.00. A statement containing explanatory note may be seen at Annexure 'C' to this Chapter. Similarly Rs 57,398 were spent against the allotment of Rs 83,300 under the plan schemes as per details in Annexure 'D' to this Chapter.

13. *Staff*.—Under Plan Scheme and Non Plan Scheme 47 posts were sanctioned whereas 35 posts were filled and 12 posts remained vacant due to non-availability of the staff as per Annexure 'B' to this chapter.

14. *Games*.—Major games like Hockey, Football and minor games, like Volleyball, Kabaddi, Badminton, are played by the students.

ANNEXURE 'A'

Statement of Results

	Total number of students appeared	Total number of students passed	Total number of students failed in the examination	Compart-ment	Pass percent- age
<i>Degree</i>					
Civil
Mechanical
Electrical
<i>Diploma</i>					
Civil
Mechanical
Electrical
<i>Draftsman</i>					
Civil
Mechanical
Electrical
Certificate	47	3	25	19	6.38
Junior Technical Schools (Secondary technical Schools)
Government Junior Technical School, Kangra

ANNEXURE 'B'
Staff position of teaching staff

	Year, 1961-62			Year, 1962-63		
	Total teaching posts sanctioned during 1961-62 up to 31st March, 1962	Teaching posts filled up to 31st March, 1962	Teaching posts lying vacant as on 31st March, 1962	Teaching posts sanctioned during 1962-63 up to 31st March, 1963	Teaching posts filled up to 31st March, 1963	Teaching posts lying vacant on 31st March, 1963
Teaching Staff, Degree Level	4	2	2	4	2	2
Teaching Staff, Diploma/Certificate Level	25	13	11	25	17	8
Total	29	15	13	29	19	10
Staff Position of Non-Teaching Staff						
..	18	17	1	18	16	2

Scholarships/stipends

Scholarships/stipends awarded during 1961-62

Scheduled Castes	Scheduled Tribes	Backward	Other	Total amounts
4	..	32	30	Rs 14,007-82

Scholarship/stipend awarded during 1962-63

Scheduled Castes	Scheduled Tribes	Backward	Other	Total amount
1	1	24	38	Rs 11,635-78

ANNEXURE 'C'

**Statement of Actual Expenditure against the Budget Allotment under
Head "50—Public Works—Charges on P.W.D. Establishment—
A-8 (vi)—Government Junior Technical Schools (Non-Plan Scheme)"
for the year 1962-63**

	Pay of Officers	Pay of Estab- lishment	Travelling Allowance	D.A. and T.A.	Contin- gencies	Stipend	Grand Total
Modified Grant	3,800.00	31,500.00	1,200.00	18,020.00	17,250.00	12,830.00	84,000.00
Expenditure during 1962-63	3,764.00	31,337.13	972.71	17,968.14	17,196.31	8,193.31	79,431.60
Balance of allotment	36.00	162.87	227.29	51.86	53.69	4,636.69	5,168.40

Explanatory note regarding shortfall

1. *Pay of Officer.*—There was saving of Rs 36 against the allotment of Rs 3,800.00 which is minor one.

2. *Pay of Establishment.*—There was saving of Rs 162.87 against the allotment of Rs 31,500.00, which is due to the transfer of Shri Jashmer Singh, Workshop Instructor.

3. *Travelling Allowance.*—There was saving of Rs 227.29 against the allotment of Rs 1,200.00 which was due to the reason that T. A. bills could not be presented into the Treasury due to late receipt.

4. *D. A. and T. A.*— There was saving of Rs 51.86 against the allotment of Rs 18,020.00 which was due to the reason as stated at Serial No. 2.

5. *Contingencies.*— There was saving of Rs 53.69 against the allotment of Rs 17,250.00 which was minor one.

6. *Stipend.*— There was saving of Rs 4,636.69 against the allotment of Rs 12,830.00, which was due to the reason that some saving occurred due to the absence, leave and less strength of students.

ANNEXURE 'D'

Statement of Actual Expenditure against the Budget Allotment under Head
 "50—Public Works—Charges on P. W. D. B. & R. Establishment—A-8 (vi)—
 Government Technical School (Plan Scheme) for the year 1962-63

—	Pay of Establish- ment	D.A. and T. A.	Contingencies		Stipend	Grand Total
			Equipment	Recurring		
Modified Grant	2,230.00	1,070.00	70,000.00	4,000.00	6,000.00	83,300.00
Expenditure during the year 1962-63	312.26	156.13	49,487.93	3,999.31	3,442.47	57,398.10
Balance of allotment	1,917.74	913.87	20,512.07	0.69	2,557.53	25,901.90

Explanatory note regarding short fall

1. *Pay of Establishment.*— There was a saving of Rs 1,917.74 against the allotment of Rs 2,230.00. This was due to non-availability of the staff and thus certain posts remained vacant.

2. *D.A. and T.A.*— There was saving of Rs 913.87 against the allotment of Rs 1,070.00. The reason was as stated at Serial No. 1.

3. *Equipment N R.*— There was a saving of Rs 20,512.07 against the allotment of Rs 70,000.00. Saving occurred due to the fact that the firms did not supply the goods.

4. *Contingencies.*— There was a saving of Rs 0.69 against the allotment of Rs 4,000.00, which was minor one.

5. *Stipend.*— There was saving of Rs 2,557.53 against the allotment of Rs 6,000.00. As per orders sanction of the stipend for the months of March and April, 1963, was to be paid against the allotment for the year 1963-64 Hence saving occurred.

CHAPTER 10

Annual Administration report for the year 1962-63 of the Government Junior Technical School, Kapurthala

1. Total Actual Expenditure against Budget Allotment

—	P. O.	P. E.	T. A.	O.A. & H.	Cont.	Stipend	Total
<i>Non-Plan Scheme</i>							
Allotment	4,300	36,540	700	19,730	12,750	9,160	83,180
Expenditure ..	3,693	35,388	416	19,157	12,750	8,021	79,425
<i>Plan Scheme</i>							
Allotment ..		3,070	..	1,540	79,000	6,000	89,610
Expenditure ..		642	..	411	62,217	3,676	66,946

2. *Result of the Institution.*— 43 students appeared in the final year State Board Examination and their result was as under :—

Serial No.	Particulars	Percentage
1.	Number of students appeared	.. 43 76.74
2.	Number of students passed	.. 33 18.61
3.	Number of students placed in compartment	.. 8 4.65
4.	Number of students failed	.. 2 ..

Note.— The results of Ist and IInd year have not been given.

3. *Staff.*— The details of the teaching posts sanctioned during the year posts filled and posts lying vacant are given in Annexure 'A' to this Chapter.

4. *Scholarships.*— Scholarships are granted to the students as under: —

1. Ist Year Class	30 only
IInd Year Class	22 only
IIIrd Year Class	20 only

ANNEXURE A
Staff position of Teaching Staff

Name of the post	1961-62			1962-63			Diploma Degree Certificate holders
	Total Teaching posts sanctioned during 1961-62 up to 31-3-62	Teaching posts filled up to 31-3-62	Teaching posts lying vacant as on 31-3-62	Teaching posts sanctioned during 1962-63 up to 31-3-63	Teaching posts filled up to 31-3-63	Teaching posts lying vacant as on 31-3-63	
NON-PLAN SCHEME							
1. Principal ..	1	1	..	1	1	..	Diploma.
2. Workshop Instructor	2	1	1	2	2	..	1. One Diploma holder other Certificate holder.
3. Workshop Foreman	1	1	..	1	1	..	Diploma.
4. Instructor in Engineering ..	1	..	1	1	..	1	Do
5. Instructor in Engineering Drawing ..	1	1	..	1	1	..	Do
6. Mechanical Engineering Drawing ..	1	1	..	1	1	..	Do
7. Instructor in Science and Mathematics ..	2	2	..	2	2	..	Degree holder
8. Instructor in Humanities ..	1	1	..	1	1	..	Do
9. Workshop Instructor	4	4	..	4	2	2	One Diploma and Certificate holder.
10. Skilled Workmen ..	8	8	..	8	6	2	2 Diploma holder 4 Experience Holder.
PLAN SCHEME							
11. Science and Mathematics Instructor ..	..	..	..	1	1	..	Degree.
12. Workshop Instructor	..	..	..	2	..	2	
13. Skilled Workman ..	..	..	..	4	..	4	
TOTAL ..	22	20	2	29	18	11	

CHAPTER 11

Administration Report for the year 1962-63 of the Government Junior Technical School, Gurgaon

History of the Institution.—The scheme for running the Junior Technical School, in the State was actually implemented in the month of September, 1959. The aim and the very purpose for the Junior Technical School is to impart education of the Higher Secondary standard and side by side workshop training in Mechanical of the Preliminary stage. The student is to undergo 3 years training under this scheme before he is awarded final year certificate of Junior Technical School, by the State Board of Technical Education, Punjab. Every student is to be taught all the Mechanical trades as mentioned in the course, but in the final, i. e., 3rd year he is to select any one of the trade to specialize in it. The standard of Junior Technical School is equivalent to the higher secondary standard of the Punjab University.

The scheme is useful in case it is properly implemented.

2. *Expenditure.*—The Budget allotment for the year 1962-63 was made as under :—

	Pay of Officer	Pay of Establishment	T. A.	D. A. T. A.	Reimbursement
	Rs	Rs	Rs	Rs	Rs
Non-Plan Scheme for 1962-63 ..	1,270	30,500	930	19,360	350
Plan Scheme for 1962-63 ..	..	2,730	..	1,070	..
	Contingencies		Scholarship		Total
	Rs	Rs			Rs
Non-Plan ..	12,750	8,600			73,410
Plan ..	95,600	6,000			1,04,300

3. *Results.*—1st and 2nd year examinations are to be conducted by the Principal of the school, but the 3rd Year, i. e., final year examination is conducted by the State Board of Technical Education. During 1962-63, 37 students appeared in the final year. One candidate expired before the commencement of the examination. Hence 36 students took the examination, the result of which is as under :—

Number of candidates	Number of candidates failed	Number of Compartment candidates	Number of passed out candidates
36	15	12	9

Staff.—The position of staff under Non-Plan and Plan Schemes is given below :—

Non-Plan Scheme.

Serial No.	Name of the post	Nos. of posts	Post filled up	No. of post vacant
1.	Principal	1	1	..
2.	Foreman	1	1	..
3.	Instt. Engineering	1	..	1
4.	Instt. Engg. Drawing	1	..	1
5.	Instt. Mech. Engg. D/M	1	1	..
6.	Instt. Science/Math.	2	1	1
7.	G. K. and Humanities	1	1	..
8.	Workshop Instructor	6	3	3
9.	Skilled Workmen	8	7	1

Plan Scheme

The following posts of instructional staff are filled in the budget for 1962-63 under Plan Scheme :—

1.	Workshop Instt.	2	..	2
2.	Science and Math. Instt.	1	..	1
3.	Skilled workmen	4	..	4
4.	Attendant	1	..	1
5.	Lab. Assistant	1	1	..

The following posts of ministerial staff are provided in the budget for the year 1962-63 :—

Serial No.	Name of the post	No. of post	Post filled up	No. of posts vacant
<i>Under Non-Plan Scheme</i>				
1.	Accountant	1	..	1
2.	Clerks	4	4	..
3.	Class IV	8	8	..
4.	Attendants	4	3	1
<i>Under Plan Scheme</i>				
	Attendant	1	..	1

5. *Scholarship/Stipend.*—Ninety stipend/scholarships were provided in the budget for 1962-63, for the 3rd year students @ 30 per month for ten months and 60 for 2nd year 30 students @ Rs 20 per month for ten months.

The following stipends/scholarships are given to 1st year, 2nd year and 3rd year students .—

1st Year @ 20 per month each	17 candidates (under plan scheme)
2nd Year @ 20 per month each	27 candidates (under non-plan scheme)
3rd Year @ 30 per month each	21 candidates.

Examinations.—Thirty-seven students appeared in the final year State Board Examination and their result :

1. Number of students appeared	..	37
2. Number of students passed	..	9
3. Number of placed in compartment	..	12
4. Number of students failed	..	16
Pass Percentage	..	24.33

CHAPTER 12

Statement showing the Loan granted to the Government Institutions, Private and outside Punjabi students.

S. No.		Rs.
1.	Name of students fresh cases ..	1,120
2.	Name of students old cases ..	<u>1,227</u>
	Total (a and b) ..	<u>2,347</u>
3.	Total loan sanctioned for old and fresh	<u>17,34,971</u>

CHAPTER 13

Statement showing the Grant-in-aid given to Private Institutions during 1962-63

<i>S. No.</i>	<i>Name of Institutions</i>	<i>Amount</i> <i>Rs</i>
1.	Ramgarhia Polytechnic, Phagwara ..	57,900
2.	Thapar Institute of Engineering and Technology, Patiala	2,50,000
3.	Mehr Chand Polytechnic, Jullundur ..	40,000
4.	Guru Nanak Engineering College, Ludhiana ..	4,77,100
	Total ..	<u>8,25,000</u>

CHAPTER 14

Statement showing the freeship granted to the Government as well as private Institutions

(a) Original grant	Rs. 5,50,000.00	
(b) Revised grant	Rs. 3,68,830.00	
(c) Details of expenditure against the grant—		Rs.
(i) Freeship to non-Government Polytechnics	2,14,730.00	
(ii) Freeship to industrial Institutions	.. 11,628.00	
(iii) Punjabi Scholarship to Dufferin and Marine Engineering Training	3,916.32	
(iv) Scholarships to Degree students	.. 74,959.94	
(d) Total expenditure:		<u>3,05,234.26</u>

CHAPTER 15

Statement showing the Scholarships to Government Institutions/ Colleges/Government Junior Technical Schools

S. No.	Name of Scholarship	Amount of Scholarship	No. of Scholarships	Method of Selection	REMARKS
1	2	3	4	5	6
1	(i) Merit Scholarships in Polytechnics	Rs 20 P. M.	10 per cent of the student intake, i. e. 1/3rd on merit, 2/3rd on merit-cum-necessitous.	(1) On merit	As provided in Prospectus of each Institution
	(ii) Merit-cum-necessitous	Rs 40 P. M.		(2) On merit and poverty	
2	Scholarship to the students of Punjab Engineering College, Chandigarh, as provided				
	(i) Merit	Rs 65 P. M. to students standing first Rs 50 to student standing second	10	On merit of University result	Ditto
	(ii) Merit-cum-necessitous	Rs. 50	20	On merit-cum-necessitous	Ditto
3	Scholarships to Government Junior Technical Schools—				
	(i) Merit	Rs 20 during 1st and 2nd year and Rs. 30 P. M. during final year	50 per cent of the students intake, i.e. 1/3rd on merit and 2/3rd on merit-cum-poverty	(i) On merit	Ditto
	(ii) Merit-cum-poverty			(ii) On merit-cum-poverty	Ditto

S. No.	Name of Scholarship	Amount of Scholarship	No. of Scholarship	Method of Selection	REMARKS
1	2	3	4	5	6
4	Stipend to students belonging to Lahaul and Spiti	Rs 100 P.M.	All students belonging to schedule area of Lahaul and Spiti	..	..
5	Punjabi Scholarships—	Rs 50 P.M.	(i) 2 Scholarships for 2 years each (ii) 4 Scholarships for 4 years each	Poverty	..
	(ii) Marine Engineering Training, Calcutta				
6	Scholarship to degree Engineering students under Third Five-Year Plan	Rs. 50 P.M.	10 per cent of the intake of College for an academic year	Merit-cum-necessitous	..

APPENDIX No. 1

Staffing position of teaching staff 1961-62 and 1962-63

Serial No.	Name of Institution	1961-62			1962-63		
		Total teaching posts sanctioned during 1961-62 up to 31st March, 1962	Teaching posts filled up to 31st March, 1962	Teaching posts lying vacant on 31st March, 1962	Teaching posts sanctioned during 1962-63 up to 31st March, 1963	Teaching posts filled up to 31st March, 1963	Teaching posts lying vacant on 31st March, 1963
I. (a) Government Polytechnics							
1	Central Polytechnic, Chandigarh	.. 43	31	12	57	44	13
2	Government Polytechnic, Ambala	.. 85	70	15	85	67	18
3	Government Polytechnic, Jhajjar	.. 9	6	3	19	14	5
4	Government Polytechnic, Sirsa	.. ..	..	..	28	9	19
5	Government Polytechnic, Nilokheri	.. 93	64	29	93	63	30
6	Government Polytechnic, Hoshiarpur	.. 25	21	4	38	29	9
Private Polytechnics							
7	Guru Nanak Engineering College, Ludhiana	45	40	5	45	43	2
8	Ramgarhia Polytechnic, Phagwara	.. 52	50	2	52	50	2

9	Vishwakarma Institute of Engineering Technology, Ludhiana	21	12	9	21	13	8
10	Thapar Polytechnic, Patiala ..	31	31	..	31	29	2
11	S. D. Polytechnic, Baijnath ..	21	17	4	21	17	4
12	Vaish Technical Institute, Rohtak ..	11	11	..	14	14	..
13	C. R. Polytechnic, Rohtak ..	16	15	1	21	14	7
14	Mehar Chand Polytechnic, Jullundur ..	42	35	7	42	35	7

II. (b) Engineering College

1	Punjab Engineering College, Chandigarh ..	73	63	10	79	66	13
---	---	----	----	----	----	----	----

Private Engineering Colleges

	Thapar College of Engineering, Patiala ..	63	54	9	63	55	8
	Guru Nanak Engineering College, Ludhiana	68	57	11	68	58	10

III. (c) Government Junior Technical Schools

1	Government Junior Technical School, Kangra	29	15	14	29	19	10
2	Government Junior Technical School, Kapurthala	22	20	2	29	18	11
3	Government Junior Technical School, Gurgaon	22	17	5	30	16	14

APPENDIX No. 2

Overall Result Institution-wise of the 1st year Diploma Examination held in May, 1962

Serial No.	Name of the Institute		Total number appeared	<i>Number passed</i>		<i>Number Compartmented</i>		<i>Number failed</i>		R. L.	REMARKS
				Number	Percentage	Number	Percentage	Number	Percentage		
1	Government	Polytechnic,	242	105	43.4	64	26.3	73	36.16	..	
2	S. D. Polytechnic,	Baijnath ..	34	6	9.37	19	26.69	39	61.00	..	
3	Central Polytechnic,	Chandi- garh	243	109	44.85	56	23.05	78	32.10	..	
4	Government	Polytechnic,	117	72	61.5	24	20.5	21	17.94	..	
5	Government	Polytechnic,	51	26	51.0	13	25.5	12	23.5	..	
6	Mehar Chand	Polytechnic,	126	88	69.84	31	24.68	7	5.48	..	
7	Guru Nanak	Engineering	128	77	60.16	28	21.87	23	17.98	..	
8	Vishwa Karma	Institute of	53	17	32.1	17	32.1	19	36.0	..	
		Engineering and Technology, Ludhiana									

9	Punjab Polytechnic, Nilokheri..	250	146	56.19	64	24.61	50	19.20	..	
10	Thapar Polytechnic, Patiala ..	130	94	72.3	23	17.7	13	10.0	..	
11	Ramgarhia Polytechnic, Phagwara	183	102	55.7	38	20.8	43	23.49	..	
12	C. R. Polytechnic, Rohtak ..	126	46	36.50	32	25.41	48	38.09	..	
13	Vaish Technical Institute, Rohtak	53	3	5.6	13	24.5	37	69.8	..	
14	Government Polytechnic, Sundernagar	74	12	16.22	14	18.92	48	64.86	..	
Total		..	1,850	903	48.81	436	23.57	511	27.62	..

OVERALL RESULT INSTITUTE-WISE OF THE 2ND YEAR DIPLOMA (CIVIL)

Examination of the State Board of Technical Education held in May, 1962

Serial No.	Name of Institution		Total number appeared	Number passed		Number Compartmented		Number failed		R. L.	REMARKS
				Number	Percentage	Number	Percentage	Number	Percentage		
1	Government Ambala	Polytechnic, ..	76	21	27.63	18	23.69	37	48.68		
2	S. D. Polytechnic, Baijnath	..	58	7	12.06	11	19.00	40	68.94		99
3	Central Polytechnic, Chandigarh	..	39	14	35.90	19	48.72	6	15.38		
4	Government Hoshiarpur	Polytechnic, ..	45	10	22.22	11	24.44	24	53.34		
5	Meher Chand Jullundur	Polytechnic, ..	46	12	26.08	21	45.66	13	28.34		
6	Guru Nanak College, Ludhiana	Engineering	40	10	25.00	15	37.50	15	37.50		
7	Vishwa Karma Institute of Engineering and Technology, Ludhiana	..	39	3	7.69	13	33.34	23	58.97		
8	Punjab Polytechnic, Nilokheri	..	86	43	50.00	39	33.71	14	16.29		

9	Thapar Polytechnic, Patiala ..	41	26	63.41	9	21.96	6	14.63
10	Ramgarhia Polytechnic, Phagwara ..	90	20	22.22	29	32.22	41	45.56
11	C. R. Polytechnic, Rohtak ..	42	11	26.16	8	19.06	23	54.78
12	Vaish Technical Institute, Rohtak ..	37	5	13.5	8	21.6	24	65.00
13	Government Polytechnic, Sundernagar ..	29	..	0.00	2	6.90	27	93.10
Total ..		668	182	27.25	198	28.89	293	43.86

Overall Result Institute-wise of the State Board Diploma examination final year Overseer Mechanical held in May, 1962

Serial No.	Name of the Institute	Total Number appeared	Number passed, Number compta, Number failed						REMARKS
			Number	Percent-age	Number	Percent-age	Number	Percent-age	
1	Government Polytechnic, Ambala City	75	53	70.6	20	26.7	2	2.7	
2	Central Polytechnic, Chandigarh	30	24	80.00	5	16.67	1	3.33	
3	Government Polytechnic, Hoshiarpur ..	34	21	61.76	9	26.41	4	11.76	
4	Mehar Chand Polytechnic, Jullundur ..	27	19	70.37	5	18.52	3	11.11	
5	Guru Nanak Engineering College, Ludhiana ..	28	18	64.29	10	35.71	..	..
6	Punjab Polytechnic, Nilokheri	62	48	77.42	12	19.35	2	3.23	
7	Thapar Polytechnic, Patiala ...	35	32	91.43	3	8.47	..	..
8	Ramgarhia Polytechnic, Phagwara ..	27	26	96.30	1	3.70	..	..
9	Government Polytechnic, Sunder Nagar ..	8	3	37.50	4	50.00	1	12.50	
		326	244	75.08	69	20.92	13	4%	

**Overall result Institution-wise of the 2nd year Diploma Examination
of Overseer (Electrical/Mechanical), held in May, 1962.**

Serial No.	Name of the Institution	Total Number appeared	Number passed		Number comptd.		Number failed		REMARKS
			Number	Percentage	Number	Percentage	Number	Percentage	
1	Government Polytechnic, Ambala City	131	28	21.4	28	21.4	75	57.2	
2	Central Polytechnic, Chandigarh	63	24	38.1	24	38.1	15	23.8	
3	National Institute of of Enginee- Hoshiarpur	64	28	43.8	27	42.2	9	14.0	
4	Mehr Chand Polytechnic Jullundur	59	27	45.8	17	28.8	15	25.4	
5	Guru Nanak Engineering College, Ludhiana	61	27	44.3	20	32.8	14	22.9	
6	Punjab Polytechnic, Nilo- kheri	124	87	70.2	35	28.2	2	1.6	
7	Thapar Polytechnic, Patiala	65	32	49.2	28	43.1	5	7.7	
8	Ramgarhia Polytechnic, Phagwara	83	36	43.4	27	32.5	20	24.1	
9	Government Polytechnic Sunder Nagar	20	1	5.0	2	10.0	17	85.0	
		670	290	43.29	208	31.04	172	25.67	

**Overall Result Institute-wise of the State Board Diploma Examination
Final Year of Overseer (Electrical) held in May, 1962**

No. passed. No. Compartment. No. failed.

Serial No.	Name of the Institute	Total No. appeared	Number	Percentage	Number	Percentage	Number	Percentage	REMARKS
1	Government Polytechnic, Ambala ..	48	29	60.42	10	20.83	9	18.75	
2	Government Polytechnic, Chandigarh	29	19	35.52	7	24.14	3	10.34	
3	Government Polytechnic, Hoshiarpur ..	33	27	81.82	5	15.15	1	3.03	
4	Mehar Chand Polytechnic, Jullundur City	27	13	48.15	8	29.63	6	22.22	
5	Guru Nanak Engineering College, Ludhiana ..	28	22	78.57	4	14.29	2	7.14	
6	Punjab Polytechnic, Nilokheri ..	56	43	76.79	9	16.07	4	7.14	
7	Thapar Polytechnic, Patiala ..	28	23	82.15	5	17.85	..	..
8	Ramgarhia Polytechnic, Phagwara ..	27	18	66.67	8	29.63	1	3.70	
9	Government Polytechnic, Sundernagar	13	1	7.69	5	38.47	7	53.84	
Total		289	195	67.47	61	21.11	33	11.42	

**Overall Result Institute-Wise of the State Board Diploma Examination of
Overseer (Civil) Final Year held in May, 1962**

Serial No.	Name of the Institute,	<i>No. passed.</i>			<i>No. compartment</i>			<i>No. failed</i>		REMARKS
		Total No. appeared	Number	Percentage	Number	Percentage	Number	Percentage	No. placed in hours	
1	Government Polytechnic, Ambala. ..	68	41	60.3	18	26.5	9	13.2	2	
2	S. D. Polytechnic, Baijnath	77	24	31.2	15	19.5	38	49.3	..	
3	Central Polytechnic, Chandigarh ..	35	10	28.5	15	42.9	10	28.6	..	
4	Government Polytechnic, Hoshiarpur ..	58	13	22.4	14	24.1	31	53.5	..	
5	Mehar Chand Polytechnic, Jullundur City ..	61	38	62.3	12	19.7	11	18.0	1	
6	Guru Nanak Engineering College, Ludhiana ..	60	47	76.6	.7	11.7	.7	11.7	1	
7	Vishwakarma Polytechnic of Engineering, Ludhiana	66	24	36.4	26	39.4	16	24.2	..	
8	Punjab Polytechnic, Nilotkheri ..	113	52	46.00	44	39.0	17	15.0	1	
9	Thapar Polytechnic, Patiala ..	46	38	82.6	8	17.4	..	..	2	
10	C. R. Polytechnic, Rohtak ..	58	13	22.4	19	32.8	26	44.8	..	
11	Ramgarhia Polytechnic, Phagwara ..	89	58	65.2	15.16	8	16	18.00	1	
12	Vaish Technical Institute, Rohtak ..	1	..	0.00	1	100.00	..	..	..
13	Government Polytechnic, Sundernagar.	29	7	24.00	11	38.00	11	38.00	..	
	Total	761	364	47.83	205	26.94	192	25.23	8	

Overall Result Institute-wise of the State Board Certificate Examination of Final Year Draftsman Civil held in May, 1967.

Serial No.	Name of Institute	Total No. of students appeared	<i>Number passed</i>		<i>Number com- partment</i>		<i>Number failed.</i>		REMARKS
			Number	Percentage	Number	Percentage	Number	Percentage	
1	2	3	4	5	6	7	8	9	10
1	S. D. Polytechnic, Bajjnath ..	39	5	12.82	16	41.03	18	46.19	
2	Mehar Chand Poly- technic, Jullundur	30	21	70.00	3	10.00	6	20.00	
3	Guru Nanak Engineering Coll- ege, Ludhiana ..	23	19	82.61	1	4.35	3	13.04	
4	Vishwakarma Ins- titute of En- gineering Tech- nology, Ludhiana	33	14	42.42	13	39.40	6	18.18	
5	Punjab Polytechnic, Nilokheri ..	29	29	100.00	..	..	..	..
6	Thapar Polytechnic. Patiala ..	18	16	88.89	2	11.11	..	..
7	Ramgarhia Poly- technic, Phagwara	17	14	82.35	3	17.65	..	..
8	C. R. Polytechnic, Rohiak ..	35	15	42.86	8	22.86	12	34.28	
9	Departmental Can- didates ..	1	1	100.00	..	..	..	..
Total ..		225	134	59.55	46	40.44	45	20.01	

SUPPLEMENTARY EXAMINATION

Overall Results Institute-wise of the First Year Diploma Examination
Held in October, 1962

Serial No.	Name of Institute	Total number appeared	Number Passed.		Number of failed		REMARKS
			Number	Percentage	Number	Percentage	
1	2	3	4	5	6	7	8
1	Government Polytechnic, Ambala ..	63	60	94.29	3	5.71	
2	S. D. Polytechnic, Baijnath ..	18	16	88.89	2	11.11	
3	Central Polytechnic, Chandigarh ..	57	50	87.72	7	12.28	
4	Government Polytechnic, Hoshiarpur ..	24	10	79.17	5	20.83	
5	Government Polytechnic, Jhajjar ..	13	10	76.93	3	23.07	
6	Mehar Chand Polytechnic Jullundur ..	30	20	66.67	10	33.33	
7	Guru Nank Engineering College, Ludhiana ..	25	19	76.00	6	24.00	
8	Vishwakarma Institute of Engineering Ludhiana ..	16	12	75.00	4	25.00	
9	Punjab Polytechnic, Nilokheri ..	63	52	88.54	11	17.46	
10	Thapar Polytechnic, Patiala ..	22	16	72.73	6	27.27	
11	Ramgarhia Polytechnic, Phagwara ..	37	33	89.19	4	10.81	
12	C. R. Polytechnic, Rohtak ..	31	28	92.32	3	9.68	
13	Vaish Technical Institute, Rohtak	12	12	100	..	..
14	Government Polytechnic, Sundernagar ..	14	13	92.66	1	7.14	
	..	425	360	84.71	65	14.29	

**Overall Result Institutewise of the State Board Certificate Final
Year Examination of Draftsman Elect/Mech held in May, 1962-**

Serial Number	Name of the Institution.	Total number appeared.	Number passed		Number competed.		Number failed		REMARKS
			Number.	Percentage.	Number.	Percentage.	Number.	Percentage.	
1.	2	3	4	5	6	7	8	9	10
1	Mehar Chand Polytechnic, Jullundur	29	19	65.52	10	34.48	..	..
2	Guru Nanak Engineering College, Ludhiana	22	14	63.65	5	22.73	3	13.63	
3	Punjab Polytechnic, Nilokheri	15	8	53.33	4	26.67	3	20.00	
4	Thapar Polytechnic, Patiala	21	15	71.43	6	28.57	..	..
5	Ramgarhia Polytechnic Phagwara	24	13	54.17	9	37.50	2	8.33	
..	..	111	69	62.16	34	30.53	8	7.21	

**Overall Result Institutewise of the IInd Year Diploma Civil held
in October, 1962**

Serial Number	Name of Institute.	Total number appeared.	Number of passed		Number of failed		REMARKS
			Number.	Percentage.	Number.	Percentage.	
1	2	3	4	5	6	7	8
1	Government Polytechnic, Ambala ..	18	18	100	..	..
2	S. D. Polytechnic, Baijnath ..	11	11	100	..	..
3	Central Polytechnic, Chandigarh ..	19	16	84.21	3	14.79	
4	Government Polytechnic, Hoshiarpur ..	11	0	81.82	2	18.18	
5	Mehar Chand Polytechnic, Jullundur	20	19	95.00	1	5.00	
6	Guru Nanak Engineering College, Ludhiana ..	15	11	73.33	4	27.67	
7	Vishwakarma Institute of Engineering and Technology Ludhiana ..	13	12	92.31	1	7.69	
8	Punjab Polytechnic Nilokheri ..	29	22	75.86	7	24.14	
9	Thapar Polytechnic Patiala ..	9	8	88.89	1	11.11	
10	Ramgarhia Polytechnic, Phagwara ..	29	27	93.1	2	6.9	
11	C. R. Polytechnic, Rohtak ..	3	3	100	..	..
12	Vaish Technical Institute, Rohtak	8	8	100	..	..
13	Government Polytechnic, Sundernagar ..	2	1	50	1	50.00	
Total		192	170	88.54	22	11.46	

**Overall Result Institute-wise of the 2nd year Diploma
Electrical/Mechanical held in October, 1962**

Serial No.	Name of Institute	Total Number appeared	Number Passed		Number Failed		REMARKS
			Number	Percent- age	Number	Percent- age	
1	Government Polytechnic, Ambala	28	28	100	—	—	
2	Central Polytechnic, Chandigarh	23	21	91.3	2	8.7	
3	Government Polytechnic, Hoshiarpur	26	26	100	—	—	
4	Mehr Chand Polytechnic, Jullundur	19	19	100	—	—	
5	Guru Nanak Engineering College, Ludhiana	17	16	94.12	1	5.88	
6	Punjab Polytechnic, Nilokheri	34	31	91.18	3	8.82	
7	Thapar Polytechnic, Patiala	27	26	96.3	1	3.7	
8	Ramgarhia Polytechnic, Phagwara	26	25	96.15	1	3.85	
9	Government Polytechnic, Sundernagar	2	2	100	—	—	
Total		202	194	96.04	8	3.96	

**Overall Result Institute-wise of the State Board Diploma Examination of Overseers
(Civil) Final year held in October, 1962**

Serial No.	Name of Institute	Total Number appeared	Number Passed		Number Comparison		Number Failed		REMARKS
			Number	Percentage	Number	Percentage	Number	Percentage	
1	Government Polytechnic, Ambala	26	23	88.46	3	11.54	—	—	
2	S. D. Polytechnic, Baijnath	48	27	55.25	11	22.92	10	20.83	
3	Central Polytechnic, Chandigarh	25	17	68.00	8	32.00	—	—	
4	Government Polytechnic, Hoshiarpur	43	26	60.47	8	18.6	9	20.93	
5	Mehr Chand Polytechnic, Jullundur	21	19	90.48	—	—	2	9.92	
6	Guru Nanak Engineering College, Ludhiana	10	7	70.00	2	20.00	1	10.00	77
7	Vishwakarma Institute of Engineering Tech., Ludhiana	43	28	65.12	11	25.58	4	9.30	
8	Punjab Polytechnic, Nilokheri	60	43	71.66	13	21.67	4	6.67	
9	Thapar Polytechnic, Patiala	8	7	87.5	1	12.5	—	—	
10	Ramgarhia Polytechnic, Phagwara	30	23	76.67	4	13.33	3	10.00	
11	C. R. Polytechnic, Rohtak	41	29	70.74	6	14.63	6	14.63	
12	Vaish Tech. Institute, Rohtak	1	1	100.00	—	—	—	—	
13	Government Polytechnic, Sundernagar	22	16	72.73	5	22.73	1	4.54	
Total		378	266	70.37	72	19.05	40	10.58	

Overall Result Institute-wise of the State Board Diploma Examination of Final Year Overseer (Mechanical) held in October, 1962

Serial No.	Name of Institute	Total Number appeared	Number Passed		Number Compas- ment		Number Failed		REMARKS
			Number	Percent- age	Number	Percent- age	Number	Percent- age	
1	Government Polytechnic, Ambala	.. 21	19	90.48	1	4.76	1	4.76	
2	Central Polytechnic, Chandigarh	.. 6	6	100.00	—	—	—	—	
3	Government Polytechnic, Hoshiarpur	.. 13	10	76.93	1	7.69	2	15.38	
4	Mehr Chand Polytechnic, Jullundur	.. 8	4	50.00	4	5.00	—	—	
5	Guru Nanak Engineering College, Ludhiana	.. 9	8	88.89	1	11.11	—	—	
6	Punjab Polytechnic, Nilokheri	.. 14	10	71.43	4	28.57	—	—	
7	Thapar Polytechnic, Patiala	.. 3	2	66.67	1	33.33	—	—	
8	Ramgarhia Polytechnic, Phagwara	.. 1	1	100.00	—	—	—	—	
9	Government Polytechnic, Sundernagar	.. 5	5	100.00	—	—	—	—	
Total		.. 80	65	81.25	12	15.00	3	3.75	

**Overall Result Institute-wise of the State Board Diploma Examination of Final year
Overseer, Electrical Held in October, 1962**

Serial No.	Name of Institute	Total Number appeared	Number Passed		Number Compartment		Number Failed		REMARKS
			Number	Percentage	Number	Percentage	Number	Percentage	
1	Government Polytechnic, Ambala	18	9	50.00	7	38.89	2	11.11	69
2	Central Polytechnic, Chandigarh	10	7	70.00	3	30.00	—	—	
3	Government Polytechnic, Hoshiarpur	6	5	83.33	—	—	1	16.67	
4	Mehr Chand Polytechnic, Jullundur	14	7	50.00	6	42.84	1	7.16	
5	Guru Nanak Engineering College, Ludhiana	5	4	80.00	1	20.00	—	—	
6	Punjab Polytechnic, Nilokheri	13	10	76.93	1	7.69	2	15.38	
7	Thapar Polytechnic, Patiala	5	5	100.00	—	—	—	—	
8	Ramgarhia Polytechnic, Phagwara	9	7	77.78	2	22.22	—	—	
9	Government Polytechnic, Sundernagar	12	6	50.00	6	50.00	—	—	
Total		92	60	65.22	26	28.26	6	6.52	

**OVERALL RESULT INSTITUTE-WISE OF THE STATE BOARD CERTIFICATE EXAMINATION OF
DRAFTSMAN (CIVIL) HELD IN OCTOBER 1962**

S. No.	Name of Institute	Total number appeared	Number Passed		Number Compt.		Number failed		REMARKS
			No.	Percentage	No.	Percentage	No.	Percentage	
1	S. D. Polytechnic, Baijnath	32	14	43.75	9	28.12	9	28.13	
2	Mehr Chand Poly., Jullundur	3	2	66.67	1	33.33	—	—	
3	Guru Nanak Engg. College, Ludhiana	2	1	50.00	1	50.00	—	—	
4	Vishwakarma Instt. of Engg., Ludhiana	23	14	60.87	6	26.09	3	13.04	
5	Punjab Polytechnic, Nilokheri	—	—	—	—	—	—	—	
6	Thapar Polytechnic, Patiala	2	2	100.00	—	—	—	—	
7	Ramgarhia Poly., Phagwara	3	2	66.67	1	33.33	—	—	
8	C. R. Polytechnic, Rohtak	16	8	50.00	4	25.00	4	25.00	
Total		81	43	53.09	22	27.16	16	19.75	

**OVERALL RESULT INSTITUTE-WISE OF THE STATE BOARD CERTIFICATE OF DRAFTSMAN ELECT./M.I.C.H.
IN OCTOBER, 1962**

1	Mehr Chand Poly., Jullundur	10	10	100.00	—	—	—	—	
2	Guru Nanak Engg. College, Ludhiana	7	7	100.00	—	—	—	—	
3	Punjab Polytechnic, Nilokheri	5	3	60.00	2	40.00	—	—	
4	Thapar Polytechnic, Patiala	6	6	100.00	—	—	—	—	
5	Ramgarhia Poly., Phagwara	11	6	54.55	3	27.27	2	18.18	
Total		39	32	82.05	5	12.82	2	5.13	

**OVERALL RESULT INSTITUTE-WISE OF GOVERNMENT JUNIOR TECHNICAL SCHOOL FINAL YEAR
EXAMINATION HELD IN MAY, 1962**

S. No.	Name of the Institution		Total number appeared	Number Passed		Number Compt.		Number failed	
				No.	Percentage	No.	Percentage	No.	Percentage
1	Government Junior Technical School, Gurgaon ..		37	9	24.33	12	32.43	16	43.24
2	Ditto	Kangra ..	47	3	6.38	19	40.43	25	53.19
3	Ditto	Kapurthala ..	43	33	76.74	8	18.61	2	4.65
Total ..			127	45	35.43	39	30.71	43	33.86

APPENDIX No. 4

Statement showing the total allocation during the year 1962-63 and total allocation during the year and physical targets relating to Technical Education at the Degree and Diploma level implemented by the Directorate of Technical Education, Punjab, Chandigarh

		Allocation in the Third Five-Year Plan	State Plan Scheme	Centrally sponsored	Total
1	Allocation in the Third Five Year Plan	.. 656.37 lac	656.37	Nil	656.37
2	Expenditure during the year 1961-62	.. 52.72	52.72	Nil	52.72
3	Expenditure during 1962-63	.. 76.25	76.25	Nil	76.25

APPENDIX No. 5

Provision	Building	Equipment	Recurring	Total	Expenditure			
					Building	Equipment	Recurring	Total
1. Third Five-Year Plan	117.37	135.07	403.93	656.37	Third Plan has not been closed so far and as such expenditure for the whole plan cannot be given. However expenditure for first two years 1961-62 and 1962-63 is Rs. 125.79.			
2. Budget								
Year 1962-63	32.65	25.86	50.84	109.35	24.56	18.71	32.98	76.25
Revised 1962-63	24.66	22.13	35.67	82.46				

APPENDIX No. 3
Statement showing the result of Engineering Colleges in the State. (Appendix No. 3)

Name of Institutions	Total No. of students appeared	Total No. of students passed	Total No. of students failed in the Examination	Pass percentage	REMARKS
1. Thapar Institute of Engineering and Tech. Patiala.—					
(i) Civil ..	45	45	..	100%	
(ii) Mechanical ..	48	48	..	100%	
(iii) Electrical ..	27	27	..	100%	
2. Punjab Engineering College, Chandigarh.—					
(i) Civil ..	59	57	2 placed in Compartment		
(ii) Mechanical ..	75	75	..		
(iii) Electrical ..	56	53	2 failed and 1 placed in Compartment		{ All the five students again appeared in the Supplementary Examination held in November, 1962 and have been declared successful. Hence the pass percentage for the years 1962-63 is cent-percent.
(iv) Post-Graduate Course ..	12	12	..	100%	
3. Guru Nanak Engineering College, Ludhiana—					
(i) Civil ..	47	47	..	100%	
(ii) Mechanical ..	35	35	..	100%	
(iii) Electrical ..	27	26	1	96.3%	