

P O L Y - T E C H N I C S



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Government Polytechnic, Gwalior M. P.



Our busy Principal Shri R. Khanna.

EDITORIAL

The years of 1959-60-61 were full of activities at the Government Central Technical Institute (Polytechnic), Gwalior.

Distinguished visitors :

The new buildings of Government Polytechnic Institute was formally opened on 23-8-1959 by Prof. Humayun Kabir, Minister for Scientific Research & Cultural Affairs, Government of India, amongst the distinguished gathering comprising of Dr. S. D. Sharma, Minister for Education, Government of Madhya Pradesh, Shri M. L. Gangwal, Minister for Finance, Government of Madhya Pradesh, Shri N. R. Dixit, Dy. Home Minister, Government of Madhya Pradesh, Dr. Mata Prasad, Vice-Chancellor, Vikram University, Shri L. C. Gupta, Secretary to Government, Madhya Pradesh, Education Department, Shri S. K. Das, Joint Director of Public Instruction (Technical Education) M. P., Shri P. V. Divatia, Chief Engineer, Public works Department (Buildings & Roads), and others Officers and distinguished personalities of Gwalior.

Shri K. N. Tiwari, Chief Engineer, J. C. Mills visited the Institution at our request and gave away the prizes at the "Annual Sports Meet" in January, 1960. He was very much impressed with the discipline of students and the manner in which staff and students helped in building up this Institution. He emphasised the importance of closer co-operation of staff

and students in building up similar Institutions in the country.

An inspection committee appointed by Madhya Pradesh Board of Technical Education, Bhopal visited the Institute on 10th Nov., '60. Following members of the committee visited the Institute.

1. Shri S. N. Tripathi,
Chief Engineer, P. W. D. (B. & R.)
M. P., Bhopal.
2. Shri Birbal I. A. S.,
Labour Commissioner, Govt. of
M. P. Indore.
3. Dr. V. M. Dokras,
Principal, Govt. Engineering
College, Jabalpur.
4. Shri B. K. Mitter,
Dy. Chief Engineer (Training)
Heavy Electricals Ltd., Bhopal.
5. S. K. Das,
Secretary, M. P. Board of Techni-
cal Education, Bhopal.

The Visiting committee examined in detail the training facilities available in the Institution in respect of (a) accommodation for various class rooms, Laboratories and shops, and Hostel Accommodation; (b) Equipments in Laboratories and shops and (c) Staff position. The committee felt satisfied that adequate facilities exist at the Institute for training of Diploma classes.

The in-auguration of Annual Social Gathering 1960-61, was done by Shri K. R.-

Minocha, Technical Member Madhya Pradesh Electricity Board, Jabalpur on 6th March, 1961. The Social Gathering was followed by a meeting of Engineers—Greater Gwalior, which was attended by Engineers representing Technical Institutions, J. C. Mills, CIMMCo, Railways, P. W. D., Industries, M. E. S., water works, Central P. W. D. and small scale industries.

Courses run at the Institute:—

The Institute imparts instructions in Civil, Mechanical, Electrical Engineering and Textile Technology (weaving) at Diploma level. Each course is of three year's duration, following by one year appropriate practical training.

Candidates between age groups 16-21 years, having passed their high school examinations with a minimum 45% marks each in Mathematics, Physics and Chemistry are eligible for admission. The Institute is affiliated to Madhya Pradesh Board of Technical Education and is recognised by All India Council of Technical Education.

Institute Buildings:

The Institute was started as early as 1905 by the Maharaja Madav Rao Scindhiya of Gwalior State and it was then housed in the buildings now occupied by Gwalior Potteries. In the year 1915, the Institute shifted to Phalke Bazar in a rented building. In 1930 it was again shifted in the buildings on Laxmi Bai Road, where at present Government junior Technical School, Gwalior, is housed. As per recommendations of "Taraporawala Committee" visited in 1953, and subsequent recommendations of western Regional Committee, in 1954, under Minis-

try of Scientific Research & Cultural Affairs, Government of India, the Institute was given grants for buildings, equipments and for additional staff with a view to upgrade the standard of teaching and to bring the scene in line with similar recognised institutions. The new site for the buildings was selected near science block of Maharani Laxmibai College on Jhansi Road; The foundation stone of this building was laid by the Minister for Industries, Central Government, Shri T. T. Krishnamachari, on 15th July, 1956.

Towards the end of October, 1958, a 40 seated hostel building was ready and occupied by students before Diwali vacations. This hostel is adjoining the new buildings of the Institute.

No sooner the main structures of Institute's buildings, were ready, towards the end of 1958 all equipments, laboratories, and shops were shifted from the old buildings to this new building. Erections were carried out during summer and most of the works were completed by August, 1959. Prof. Humayun Kabir Minister for Scientific Research & Cultural Affairs, Government of India, did the formal in-auguration of the Institute's buildings on 23rd August, 1959 the new building has a plinth area 34253 Sq ft and has been constructed at a cost of Rs.5,46230.00 In erection of laboratory equipments, workshop machines, smithy sheds, foundry sheds and sports stand, teachers and students showed exemplary examples of the dignity of labour as they themselves were responsible for erection and construction of all these works.

Since P. W. D. could not provide water connections for the institute and hostel, a temporary arrangement was made by staff and students of the Institute. A pump belonging

to Hydraulic Laboratory was installed in a nearby well; A gas holder (steel tank) was raised to a height of about 10 ft, and used as storage tank. this arrangement continues even to this day. However the height of tank is not sufficient to give the necessary head, so that water flushes in the 1st floor of the hostels and in the institution do not function properly.

Power wiring in the Institute was also carried out by staff and students of the Institute thereby a considerable saving was affected as compared with P. W. D. estimates

Facilities available based on the standards laid down by All India Council for Technical Education for training in various laboratories and shops of the Institution are:-

1. Electrical Machines Laboratory	about	80%
2. Hydraulics Laboratories.	„	100%
3. Heat Engines Laboratory	„	90%
4. Mechanics & Structures Laboratory.	„	100%
5. Civil Engineering Laboratory.	„	80%
6. Material Testing Laboratory	„	80%
7. Chemistry Laboratory.	„	80%
8. Physics Laboratory.	„	80%
9. Shops:-		
(a) Carpentry Shop	„	100%
(b) Fitting Shop	„	100%
(c) Smithy Shop	„	95%
(d) Foundry Shop	„	95%
(e) Machine shop	„	80%

Library and Reading Room:—

The arrangements of Library and Reading room afford a source of attraction to students books and magazines are well exhibited, so that they can not escape the attention of students entering the Library. Display of magazines and the new additions to the Library are done by special show cases. It is heartening to note that students are making full use of library and reading room facilities. Total number of volumes in the library are about 5000.

Audio Visual Facilities:—

A room has been set aside for the audio-visual aid in teaching. Projections of instructional films and diagrams by epidioscope have added extra interest amongst teachers of the Institution. This saves much of their valuable time and labour. About 30 instructional films on all branches of Engineering subjects are owned by this Institution,

Enrolment:—

The intake for this Polytechnic was 80, 20 in each branches in Engineering and 20 in the Textile Technology (Weaving) course prior to 1959. In the session 1959-60, the intake capacity of the Institution on recommendations of the Western Regional Committee, was raised to 140, 60 for Civil Engineering, 30 each for Electrical and Mechanical and Engineering, However, the intake for Textile Technology (Weaving) course remained same as before i. e. 20. The statement showing Number of students on the rolls of this Polytechnic is given below.

Session 1959-60

Branch.	1st year Class	2nd year. Class	3rd year. Class	Total
Civil Engineering	60	11	12	83
Mechanical Engineering.	30	17	3	50
Electrical Engineering	30	6	11	47
Textile Technology (Weaving)	1	7	8	16
			Grand Total	196

Session 1969-61

Branch	1st year Class	2nd year Class	3rd year Class	Total
Civil Engineering	56	33	8	97
Mechanical Engineering	30	29	18	77
Electrical Engineering	33	21	5	59
Textile Technology (Weaving)	11	1	8	20
			Grand Total	253

Admission of 1st year in 1960 indicated trends of students to offer Mechanical Engineering instead of Civil Engineering or Electrical Engineering. This is considered a healthy sign because for the rapid industrialisation, Mechanical Engineering Diploma holders, are needed in Greater number.

Stipends and Scholarships:—

A number of students are awarded scholarships for prosecuting their studies at the Institution. These scholarships are awarded by (a) State Government, (b) Central Government, as detailed below:—

Merit-cum-Means Scholarships:

These are awarded by Ministry of Scientific Research & Cultural Affairs, Government of India, Under this two scholarships each of value Rs. 50/- p. m. are awarded to deserving candidates for a period of three years starting from the 1st year class.

Merit Scholarships:—

These are awarded by the Education Department of the State to deserving poor students securing positions in the last post-matric public examinations and are of two years duration. The values of these scholar-

ships are very meagre viz, Rs. 5/- in the 2nd year and Rs. 6/- in the third year class. They are 3 Nos. for 3rd year class and 4 Nos. for the 2nd year class.

Scheduled Caste Scholarships:

This scholarship is awarded by Commissioner, Gwalior Division, Gwalior to scheduled caste candidates. There is one such scholarship of value Rs. 65/- p. m. awarded for period of three years commencing from 1st year class.

Fine Fund Scholarships:-

These are awarded by the Principal of the Institution to deserving poor students. The number and value of scholarship depend on the total fine collected from students on account of their un-authorized absence in the Institution.

Games & Sports:-

There is abundance of ground around the Institute and hostel buildings, where activities of sports and games are being developed. The interests displayed by staff and students for the last two years have

helped to improve the standards of games specially cricket, hockey and foot-ball. In the month of January, staff and students celebrate "Sports week" which has now become the annual feature of the Institution. These have been successfully celebrated for the last two years due to the excellent response from the staff and students.

N. C. C.:-

36 M. P., N. C. C. (Rifles) Company with the a strength of 200 was sanctioned in this Institute in the month of November, 1960. Attached to the company are a company commander and three experienced army personnels, as permanent instructional staff. In spite of the late sanction, the response of students for enrollment as cadets was spontaneous. This is partly due to students being aware of the advantages of N. C. C. training and partly due to enthusiastic Company Commander Shri R. N. Mehrotra. Total number of cadets enrolled was 161. Though infant in age it has to its credit, some excellent cadets, who have been selected for advanced leadership training to be conducted on all India Basis during the ensuing summer vacation.