

7. A hostel building having forty rooms has been built.

8. Construction of Works & Drawing Office, Canteen, First aid post, school and administrative buildings is in progress.

9. Laying of a 14" gas pipe line by the Assam Gas Company from the Naharkatia Oil Fields to Namrup (about 11 miles) for supplying gas to the Fertilizer Factory and the Thermal Power Station is nearing completion.

(b) The time schedule for construction has been extended by about one year.

(c) The factory is now expected to be commissioned by the end of 1966 or early 1967.

Engineering Personnel

721. Shri Vishwa Nath Pandey: Will the Minister of Home Affairs be pleased to state:

(a) whether the Report of the Institute of Applied Manpower Research has indicated the possibility of surplus of engineers during the Fourth Plan period; and

(b) if so, whether Government propose to revise the targets for the expansion of colleges and polytechnics?

The Deputy Minister in the Ministry of Home Affairs (Shri L. N. Mishra): (a) and (b). It was indicated in a Working Paper prepared by the Institute last year on "Analytical Review of Demand Forecast Methodology and Provisional Forecast of Growth" that there might be a surplus of engineering personnel in the Fourth Plan. It was assumed that the Fourth Plan outlay will be of the order of Rs. 15,600 crores. The requirements of non-Plan sectors were not separately computed for purposes of this analysis. This matter has

since been examined further in consultation with the Planning Commission and the Manpower Institute. While a clear picture will emerge only after firm decisions have been taken about the size and investment pattern of the Fourth Plan, on present indications it is not expected that there will be a surplus of engineering personnel during the Fourth Plan. Action will also have to be taken in the Fourth Plan for further expansion of the facilities for engineering education and training for meeting the Fifth Plan requirements.

C.E.E.R.I., Pilani (Rajasthan)

722. Shri E. Madhusudan Rao: Will the Minister of Education be pleased to state:

(a) whether the Central Electronics Engineering Research Institute, Pilani (Rajasthan) has invented a substitute for Transistors;

(b) if so, the details thereof; and

(c) the steps taken for its production on a commercial basis?

The Minister of Education (Shri M. C. Chagla): (a) No, Sir.

(b) and (c). Do not arise.

National Loan Scholarships Scheme

723. { Shrimati Laxmi Bai:
Shri Yashpal Singh:

Will the Minister of Education be pleased to state whether Government are going to liberalise the post-matric national loan scholarships scheme by granting outright scholarships instead of interest free loans from the next year?

The Minister of Education (Shri M. C. Chagla): The proposal is under consideration. Meanwhile, the National Loan Scholarships will continue for the current year.