

(ii) Blast Furnace Slag in the manufacture of portland blast furnace cement; foamed or expanded slag as light weight aggregate; and lime-slag-sand mortars in place of conventional mixes.

(iii) Cinder (or Clinker) of certain grades in making plain light weight concrete. It is reported that cost of all these concrete favourably both in terms of money and saving of conventional building materials.

Gauhati Refinery

185. { Shri P. C. Borooah:
Shri Swell:
Shrimati Jyotsna Chanda:
Shri Rishang Keishing:

Will the Minister of Mines and Fuel be pleased to state:

(a) how far Gauhati Refinery has been working to its rated capacity and whether any of the units developed any trouble during the last three months;

(b) the total production of the refinery from the different units during each of the past three months, and

(c) how much of gas from the refinery has been burnt out as waste during each of these months?

The Minister of Mines and Fuel (Shri Anigesan): (a) The refinery has been working on full or near full throughout since August 1963. The Units have also operated satisfactorily except the Kerosene Refining Unit which was restarted after major overhauls and repairs with effect from 25th August 1963. The refinery was shut down from 26th October, 1963 due to the water supply crisis occasioned by the Brahmaputra river changing its course thereby entailing difficulty in pumping water to the Pumping Station maintained by the refinery. The Coking and the Distillation Units restart-

ed operation on 15th and 16th November 1963 respectively.

The Kerosene Refining Unit is likely to be restarted soon.

	Tonnes
(b) August 1963	42,693
September, 1963	44,913
October, 1963	56,847
(c) August, 1963	863
September 1963	69
October	00

Part-Time Engineering Courses

186. { Shri P. C. Borooah:
Shri Maheshwar Naik:
Shrimati Savitri Nigam:
Shri Sidheshwar Prasad:
Shri P. R. Chakraverti:
Shri N. R. Laskar:

Will the Minister of Scientific Research and Cultural Affairs be pleased to state:

(a) whether a scheme has been drawn out for providing part-time engineering courses for people working in industry;

(b) if so, the salient features thereof; and

(c) the financial implications of the scheme?

The Minister of Scientific Research and Cultural Affairs (Shri Humayun Kabir): (a) to (c). In addition to the earlier schemes for part-time National Diploma and National Certificate courses and part-time instruction for preparing students for the examinations conducted by various recognised professional bodies, the following schemes have recently been formulated:—

(i) *Scheme of part-time courses for State Diplomas in Engineering;*

It is a 4-year part-time course for preparing students for State Diplomas examinations in engineering. This course is specially meant for people working in the industry and other technical establishments for advancement in their respective occupations. It is proposed to start 25 centres in

the country on an experimental basis, out of which 10 have already started functioning and 12 others have been approved. These centres will be located in the existing polytechnics. Each centre will have an admission capacity of 100 students in Civil, Electrical and Mechanical Engineering.

The estimated cost of each centre will be as follows:

Non-Recurring	Recurring
Rs.	Rs.
50,000	1,70,000

(ii) Scheme for part-time Degree courses in Civil, Mechanical and Electrical Engineering.

A tentative scheme has already been drawn up by the All India Council for Technical Education for providing facilities in engineering education at the degree level for diploma holders in respective branches who are engaged in industries and other technical establishments. The matter is now under the consideration of the Government.

Waste Gas of Noonmati Refinery

187. { Shri P. C. Borooah:
Shri Warrior:

Will the Minister of Mines and Fuel be pleased to state:

(a) whether a scheme has been drawn out for the supply of gas from Noonmati Refinery, which is at present burnt out as waste gas for domestic use in Gauhati and Shillong after refining it;

(b) if so, the extent of the gas available; and

(c) the broad outline of the scheme?

The Minister of Mines and Fuel (Shri Alagesan): (a) Yes.

(b) 6,000 tonnes per year.

(c) A Detailed Project Report is being prepared by Indian Refineries Ltd., giving the total capital investment involved, the economics of the scheme and other relevant material information.

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Welfare Board in NEFA and Ladakh

188. { Shri P. C. Borooah:
Shri Bhakt Darshan:
Shri Hem Raj:

Will the Minister of Education be pleased to refer to the reply given to Unstarred Question No. 1038 on the 28th August, 1963 and state:

(a) the result of the studies conducted by the Central Social Welfare Board into the needs of the border areas including NEFA and Ladakh;

(b) whether moral and cultural affinities of the border people in NEFA with the people in the surrounding areas in India has been a subject of study by the Central Social Welfare Board, and if so, with what result;

(c) the number of Multipurpose welfare Extension Project Centres so far started in NEFA and whether strengthening of the ties referred to in part (b) above would be one of the objects of those centres; and

(d) whether the border areas of Uttar Pradesh also have been surveyed and the result thereof?

The Minister of Scientific Research and Cultural Affairs (Shri Humayun Kabir): (a) As a result of the studies conducted by the Central Social Welfare Board, the social welfare needs of the border areas including NEFA and Ladakh have been broadly assessed.

(b) No. Sir.

(c) Ten Welfare Extension Projects have been sanctioned for NEFA out of which five Projects, with one Centre each, have already started functioning. It is hoped that with the successful implementation of this programme, the moral and cultural affinities of the people in border areas with the rest of the country will be strengthened.

(d) No. Sir.