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**SUBSURFACE GEOLOGY OF THE LIMESTONE
DEPOSIT OF JAYPURHAT AREA, JAYPURHAT
DISTRICT, BANGLADESH**

by

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ABSTRACT

Seismic reflection survey was carried out by the then Toila Sandhani c Petrobangla followed by two bore holes in the area. These holes were proposed by M/s. Fried Krupp Rohstoffe for limestone mining. The observations made on the basis of the seismic reflection data were in conformity with the data of the bore holes.

The proposed Jaypurhat Limestone Mine Site covers an area of about 4.023 square kilometres. The Sylhet Limestone is continuous and more or less undisturbed throughout the area. It is divided into two parts by a parting near the base of the formation. The limestone occurring above the parting has only been taken in calculating its reserves.

The thickness of limestone occurring above the parting range in thickness from 10.66 metres to 20.72 metres with an average of 15.54 metres. The top of the limestone formation is from 515.11 metres to 541.02 metres in the mine site area. The estimated geological reserves of the limestone in the area are 270 million short tons.

The physical and chemical properties of the limestone of the area indicate its suitability for the manufacture of cement. The hydrology of the area and some of the engineering properties of the limestone considered useful for determining suitable methods for mining of limestone in the area have been given in the report.