

DETAILS OF THE LINKED END USE OF THE PROJECT

It is a project of undertaking opencast mining of limestone over an Mining Lease Area of 4.89 ha. at Madan Pyrda, Chiehruphi Village in Jaintia Hills District of Meghalaya in favour of M/s. Green Valliey Industries Ltd. M/s. Green Valliey Industries Ltd. was incorporated on 31.7.2007 as a public limited company under the Companies Act, 1956. The company has setup an integrated Cement Plant of 0.86 Million Tonnes Per Annum Cement capacity in Village Nongsning in Jaintia Hills District at a distance of 6.5 km from the deposit, which is already in operation on the basis of purchased limestone.

Limestone is a necessary raw material for manufacture of cement which has been set up at Village Nongsing in Jaintia Hills. The demanded area of 6.55 ha. deemed forest land is the barest minimum area to support the cement project. Although the said area is not adequate to sustain the cement plant of 0.86 million tonnes per annum capacity but it is essential for the commencement.

The main mineral available in the area is limestone which will form the major raw material for the cement plant. Typically the over burden, consisting of sandstone will also contribute, though to a very small extent, towards the feed to the cement plant.

The raw material will be consumed in the own cement plant of GVIL. The feed requirement of GVIL plant for clinker production is :

Chemical Specification			Physical Specification for Crushing unit	
Constituents	%age	Limit	Size in MM	Limit
CaO	44	Min	500 mm	Maximum
MgO	3	Max		
SiO ₂	11 – 12	Avg		
Al ₂ O ₃	2 – 2.5	Avg		
Fe ₂ O ₃	1.5 - 2	Avg		

The limestone ore to be produced in the mine will be detached from the insitu position by blasting. Generation of +500 mm sized ore is expected to be about 20% which will be further broken into -500 mm size utilizing rock breaker.

Since the quality of limestone, so far as CaO is concerned, varies from 34 % to as high as 54 %, by blending all the limestone in the chemical range of 34 % CaO to 54% CaO, produced in the mine feed will be made for clinker manufacturing.

Limestone with + 34 % CaO will be blended with limestone of as high as 54 % CaO to prepare suitable feed to the clinker plant. Sandstone from the mine, though in very low quantity (3 % of feed material) will also be mixed as additive.