CHAPTER-8

8.0 USE OF MINERAL AND MINERAL REJECTS

The following are to be furnished in the interest of mineral conservation.

8.1 Describe briefly the requirement of end-use industry specifically in terms of physical and chemical composition.

Iron ore lumps (caliberated ore or CLO) obtained from the mine after dry processing of ROM ore will be dispatched to the nearby iron ore based industries for sponge iron as well as steel making. Friable / fines / blue dust will be dispatched / exported to the consumers as per demand. As far as grade of iron ore is concerned, Mahaparbat iron ore deposit will be suitable for sponge iron & steel making. Mine is not opened so far.

8.2 Give brief requirement of intermediate industries involved in up-gradation of mineral before its end-use.

ROM iron ore will be crushed and screened in the M.L area as per crusher-9 to cater the need of buyers in respect of size and grade.

8.3 Give detail requirements for other industries, captive consumption, export, associated industrial use etc.

Lessee has no captive units for consumption of iron ore. However, value addition will be due to up gradation of iron ore in the M.L area by way of dry processing.

8.4 Indicate precise physical and chemical specification stipulated by buyers

As experienced from the other operating iron ore mines, specification required for the user industries will be as follows :

Parameters	Steel Making	Sponge iron making	Pelletization
Size	+10-40mm	+5-18mm	-10mm
Grade	+60% Fe	+62% Fe	+60% Fe

8.5 Give details of processes adopted to upgrade the ROM to suit the user requirements. The useable mineral recovered from ROM may not be directly used in any industry and may need intermediate process to suit the user industry in terms of physical and chemical compositions.

Dry processing such as crushing & screening will be adopted to upgrade ROM iron ore to suit the user requirements as per the flow sheet given in Para-9.2.

Sub-grade iron ore (+45% Fe to -58% Fe) will be stacked for sale in future before or after blending depending upon the market demand. Similarly, fines generated during crushing & screening will be stacked separately and dispatched on market demand leaving no stack in the mine.

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