MGM MINERALS LTD (MINING LESSEE)

MODIFICATION OF REVIEW OF THE MINING P

in respect of PATABEDA IRON ORE MINE OVER 28,397HA IN PATAB VILLAGE OF SUNDARGARH DISTRICT, ODISHA

CHAPTER-V

5.0 USE OF MINERAL AND MINERAL REJECT.

(a) Requirement of end use industry specifically in terms of physical & chemical composition.

Ore available in the area are both salable grade containing >58% Fe | and Mineral Reject with 45 to 58% Fe. Hard massive, hard laminated, soft taminated, iron ore fines, blue dust and iron containing lateralized and ferruginous lateritic ore are available in the lease, which are mined out. The entire ROM is processed though crushing & screening facilities. The 100% output is transported to ore stacking yard where those are subjected to disintegration both grade and size wise. Ore and MR arel stacked at their ear marked location and IB is shifted to dump yard. As per demand of market, different size and grade ore are dispatched. In case, size and/or specification of ore is in demand by other industries, the lessee blend different grade ore and MR for supplying required grade of ore around >58% Fe.

(b) Requirement of intermediate industries involved in up-gradation of mineral before its end-use.

The intermediate industries involved in the up-gradation of mineral before its end use is crushing and screening unit, beneficiation plant, etc. ROM iron ore will be crushed and screened in the M.U. area to cater the need of buyers in respect of size and grade. Practically, there will be no minoral rejects after blending. However, as per requirement of buyers like BRPL, ESSAR, low grade fines/screen fines will be supplied to lessen stack within the mines.

(c) Requirements for other industries, captive consumption, export, associated industrial use etc. Requirement of other industries

SI, No.	constituents	DRI Grade	Sinter grade
1	Fe	60% Fe to 63.5% Fe.	60.0 to 63.50%
2	\$iO ₂ + Al ₂ O ₃	5% Max.	5% Max.
3	CaO + MgO	2% Max.	
4	P	Q.07% Max.	0.07% Max
5	8	0.03% Max.	0.03% Max
6	Size	(5 – 20) mm	(0-10)mm
7	+ 10mm	-	5 0% Max.
θ	- 100 Mesh	Į.	25% Max.

Export:

Presently, the iron produced from the lease area is used in the domestic industries. In future if required the fron ore will be supplied in the Export market with permission from concerned authorities

Associated industrial use:

Iron ore produced from the lease hold are mainly used in the steel industry. Ferro manganese industry, Ferro silicon plant, etc.

> Predespt Mohapatra Qualified Person

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MGM MINERALS LTD (NIMINO LESSEE)

Total of other metal.

Moisture

MODIFICATION OF REVIEW OF THE MINING PLAN

In respect of

PATABEDA IRON ORE MINE OVER 28.397HA IN PATABEDA VILLAGE OF SUNDARGARM DISTRICT, ODISHA

(d) Precise physical and chemica	al specification stipul	ated by buyers 🔑 🧗 🛶	
Parameters	Chemical Constituent (%)		
		11 1/2 3/ 4/2	
Fe	64-65.0	63-64.0	
5iO₂	2.0	3.0	
Al ₂ O ₃	2 D	2.0	
Al ₂ O ₃ + SiO ₂	6.5 max	8.0 max	
Al ₂ O ₃ , SiO ₂	1.5 max		
P	0.05	0.05 max	
Ś	0.02 max	0.02 max	
Cu	0.01 mex	0.01 max	
Moisture	5 max	5 max	
Size	05-18 mm	- 5 mm	
	Blue Dust	L .	
Size		Below 5mm	
Fe		63% to 65%	
Al ₂ 0 ,		3%(max)	
SiQ ₂		3.5 % (max)	
SiO ₂ + Al ₂ O ₃	-	6.5 % (max)	
P		0.05 %	
S		0.02 %	
C4	-	0.01 %	
Pb	:-:	Trace	

(e) Processes adopted to upgrade the ROM to suit the user requirements.

For supplying to intermediate industries screening/up-gradation of minerals are done with one 175 TPH mobile screening plant. The facility is located inside the mines. Part of the sized ore after processing is dispatched to the steel plant of the lessee's alster concern MGM Minerals Ltd (Steel Division) at Dhenkanat in Odisha State and the rest of the ore including the fines ore which are supplied to indigenous user industries.

Pradeept Mohapatra Qualified Person

(Except Mn, Mg, Ca) :0.1% 5%(max)