

Jilling Langalotta Iran Ore Block Odlsha Mining Corporation Ltd Mining Plan A / Progressive Mine Closure Plan

5.0 USE OF MINERAL AND MINERAL REJECT

 a) Describe briefly the requirement of end-use industry specifically in terms chemical composition.

The entire ore production including lumps and fines produced from Jilling Langalotta Iron Ore Block will be consumed in neighboring steel plants/sponge iron plants of Odisha and nearby states. To meet market demand with about 60 % Fe the ore produced can be sold after processing i.e. sizing and sorting. To meet market demand with 60% Fe, both ore and mineral reject produces are proposed to be blended. Market demand is there for both fines (<10 mm) and lump which are to be produced from the mines.

Quality parameters of lumps and fines as specified by the steel plants are as follows.

SNo	Parameters	Lump Orc	Fines Ore
i	Fc	62.0 % (min)	60.0 % (min)
ii	SiO ₂	2,0 % (max)	2.0 % (max)
III	Al ₂ O ₃	2.0 % (max)	2.0 % (max)
iv	Total Gangue (Al ₂ O ₃ + SiO ₂)	4.0 % (max)	4.0 % (max)
V	Size	+10 - 40 mm (Over & under size: Max. 10% Each)	Size: - 10mm (with oversize 10% maximum)

Quality parameters of lumps and fines as specified by the sponge from plants are as follows.

	Fe	Äl ₂ O ₃	SiO ₂	þ	Moisture	LO1	Size
į	64% to	2.52%	DD/ (d 40	0.046%	2.9%	3%	+5 to -18 mm as well
	65%		1.48		Maximum	maximum	as +10 to -40 mm

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

The entire are produced will be sold to long term buyers/state-based industries for their use.

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

The entire are produced will be sold to long term buyers/state-based industries for their use.

d) Indicate precise physical and chemical specification stipulated by buyers. The entire ore production including lumps and lines produced from JhillingLangalotta lease will be consumed in sponge & steel plants of Odisha & nearby states. Quality parameters of lumps and fines as specified by the long-term buyers are as follows.

Saroj Kumar Prusty

Rabingra Mohanty



Jilling Langalatta Iron Ore Block Odisha Mining Corporation Ltd Mining Plan & Progressive Mine Mosure Plan

SN	Parameters	Lump Ore	FinestOre	
3	Fe	62,0 % (min)	60 % (thin)	
11.	SiO ₂	2.0 % (max)	2.0 % (max)	
lii	Al ₂ O ₃	2.0 % (max)	2.0 % (max)	
,	Total Gangue	4.0 % (max)	4.0 % (max)	
Ì₩	$\{AI_2O_3 + SiO_2\}$		4.0 % (116.0)	
v	Size	+10 - 40 mm	Size: - 10mm.	
vi	Tolerance	+/- 10%	+/- 10%	

e) Give details of processes adopted to upgrade the ROM to suit the user requirements of All the ROM ore produced will blended at the mine site itself and sized to the desired suitable for its use in the steel plants by crushing, screening in mobile/stational distributions screening plant. If required the mineral reject/sub-grade will be sold directly in market as being demand.

The useable mineral recovered from ROM may not be directly used in any industry and meed intermediate process to suit the user industry in terms of physical and chemical compositions.

All the ROM are produced will be blended at the mine site itself and sized to the desired range suitable for its use in the steel plants by crushing, screening in mobile/ stationary crushing & screening plant. If required the mineral reject/sub-grade will be sold directly in market as per demand.

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