



**MODIFIED MINING PLAN
OF KHANDABANDH IRON ORE LEASE (366.311 HA.)
LESSEE: THE ODISHA MINING CORPORATION LTD.**



3.0 USE OF MINERAL AND MINERAL REJECT

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

The entire ore production including lumps and fines produced from Khandabandh lease will be consumed in neighbouring steel plants/sponge iron plants of Odisha. Quality parameters of lumps and fines as specified by the steel plants are as follows.

SN	Parameters	Lump Ore	Fines Ore
i	Fe	65.0% (min)	64.5% (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. 5% each)	Size: - 10mm (with oversize 5% maximum and undersize 20% maximum)

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

Fe	Al ₂ O ₃	SiO ₂	P	Moisture	LOI	Size
64% to 65%	2.52%	1.98	0.076%	2.0% Maximum	3% maximum	+5 to -13 mm as well as -10 to -40 mm

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

The entire ore produced will be sold to long term buyers for use in their steel plants. Major probable long term buyers are Bhushan Steel Limited, Vandana Global Limited, Visa Steel Ltd., Gimpex Industries Ltd & Kalinga Allied Industries.

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

The entire ore produced will be sold to long term buyers for use in their steel plants.

- d) Indicate precise physical and chemical specification stipulated by buyers

The entire ore production including lumps and fines produced from Khandabandh lease will be consumed in neighbouring steel plants of Odisha. Quality parameters of lumps and fines as specified by the long term buyers are as follows.

SN	Parameters	Lump Ore	Fines Ore
i	Fe	62.0% (min)	60% (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	Size: 10mm
vi	Tolerance	+/- 10%	+/- 10%

- d) Give details of processes adopted to upgrade the ROM to suit the user requirements.

Subgrade ore containing 45-55% Fe will be blended with high grade ore at mine site itself. ROM will be sized to the desired range suitable for its use in the steel plants by two-stage crushing & screening in the proposed mobile crushing & screening plant.

(Qualified Person)

(Qualified Person)