

RAW MATERIALS DIVISION  
KALTA IRON MINES

REVIEW OF MINING PLAN  
UNDER RULE 17 (2) OF MCR, 2016  
AND PROGRESSIVE MINE CLOSURE PLAN  
UNDER RULE 23 OF MCDR' 2017  
OF  
ML-139 LEASE, KALTA IRON MINES

PLAN PERIOD - 2020-21 TO 2024-25

LEASE AREA - 25.981 HECTARES

TYPE OF LAND- FOREST LAND - 25.981 HECTARES

CATEGORY OF MINE- A (OTFM), MINERAL- IRON ORE

VOLUME-I

VILLAGE: KALTA, P.O: KALTA, TALUKA- BONAI, DIST- SUNDARGARH (ODISHA)

(SUBMITTED UNDER RULE 17 (2) OF MCR, 2016 AND RULE 23 OF MCDR'2017)

Executed Lease Period: 17.01.1975 to 16.01.1995

| LEASE RENEWAL       | GRANT DATE | EXPIRY DATE |
|---------------------|------------|-------------|
| 1 <sup>st</sup> RML | 16.02.1994 | 16.01.2025  |

IBM Registration No.: IBM/5662/2011, Mine Code: 30ORI13060

LESSEE- M/s STEEL AUTHORITY OF INDIA LIMITED

ISPAT BHAWAN, LODHI ROAD

NEW DELHI



सैल SAIL

PREPARED BY

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BARSUA IRON MINES &  
KALTA IRON MINES

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M/s STEEL AUTHORITY OF INDIA LIMITED

KALTA IRON MINES

P.O.- KALTA, PIN-770052

DISTRICT- SUNDARGARH, ODISHA



**5.0 USE OF MINERAL AND MINERAL REJECT**

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

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

The entire production from ML -139 lease, will be supplied to all the integrated steel plants of SAIL. The chemical & physical specifications for lump & fine ores are given below:-

| Parameters                       | Lumps     | Fines |
|----------------------------------|-----------|-------|
| Fe%                              | 63        | 63    |
| SiO <sub>2</sub> %               | 2.0       | 2.5   |
| Al <sub>2</sub> O <sub>3</sub> % | 2.7       | 3.0   |
| Lumps                            | +10-40 mm |       |
| Fines                            | -10 mm    |       |

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

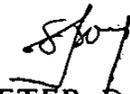
The requirement of intermediate industries for up-gradation of mineral before its end-use is not required because the lump and fines produce during the plan period will be with +58% Fe and will be suitably blend with other material at captive steel plants for up gradation.

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

The entire production from ML -139 lease will be supplied to all the captive steel plants of SAIL. The chemical & physical specifications for lump & fine ores are given below:-

| Parameters                       | Lumps     | Fines |
|----------------------------------|-----------|-------|
| Fe%                              | 63        | 63    |
| SiO <sub>2</sub> %               | 2.0       | 2.5   |
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| Lumps                            | +10-40 mm |       |
| Fines                            | -10 mm    |       |

  
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REVIEW OF MINING PLAN OF KALTA IRON MINE LEASE (ML-139)  
AREA OF 25.981 Ha. DISTRICT- SUNDARGARH, ODISHA



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

The chemical & physical specifications for lump & fine ores in captive steel plants of SAIL are mentioned at 5 (a).

e) **Give details of processes adopted to upgrade the ROM to suit the user requirements.**

The entire ore sorting at ML139 will be done manually. ROM will be picked and sorted upto 300mm size and shifted to temporary mineral stack yard for manual breaking and sizing to reduce the size up to -40mm. The lumps (-40+10mm) and fines (-10mm) will be segregated and stacked separately. Representative samples from both lump and fines stack will be collected for physical and chemical analysis in the laboratory at Kalta. Proper blending action will be carried out at the mineral stack yard for the consistency in quality before dispatch.

f) **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.**

The lump and fines produce with +58% Fe and dispatch to captive steel plants and suitably blend at captive plants with other material for desirable physical and chemical quality.

  
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