

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/IRON/SNG/MCDR-2/BBS

**Mine code :** 30ORI13006

- (i) Name of the Inspecting : **SRM** ) **SHRI SUDIP RANJAN MAZUMDAR**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Jogeshwar Badaik, Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 27/02/2019
- (v) Prev.inspection date : 20/02/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KALTA**
- (b) **Registration NO.** : **IBM/5662/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : KALTA
- Taluka : BONAI
- Post office : KALTA
- Pin Code : 770052
- FAX No. : 06625-234023
- E-mail : kimkalta@rediffmail.com
- Phone : 06625-234036
- (f) Police Station : Koira
- (g) First opening date : 06/01/1960
- (h) Weekly day of rest : SUN
2. Address for : KALTA IRON ORE MINE  
correspondance AT/PO-KALTA  
DIST-SUNDERGARH
3. (a) Lease Number : ORI0158
- (b) Lease area : 3.34
- (c) Period of lease : 20
- (d) Date of Expiry : 17/01/2004
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : SAIL  
 Kalta Iron Mines Post-  
 Kalta, Sundargarh Odisha  
 SUNDARGARH ORISSA  
 Phone:06625-234036  
 FAX :06625-234023

Owner : SHRI H. N. RAI  
 SAIL,ISPAT BHAWAN, LODI  
 ROAD NEW DELHI SUNDARGARH  
 ORISSA  
 Phone:  
 FAX : 01124367015

Agent : SHRI A KUMAR  
 KALTA IRON MINE RMD-  
 SAIL,POST-KALTA  
 SUNDARGARH,ODISHA  
 SUNDARGARH ORISSA  
 Phone: 947770234  
 FAX : 06625234023

## Mining Engineer

Name : SHRI AJAY KUMAR MISHRA,Full Time  
 Qualification : B TECH MINING & FCC  
 Appointment/ : 27/02/2019  
 Termination date

## Manager

Name : SHRI JOGESHWAR BADAIAK  
 Qualification : Diploma in Mining Engg & FCC  
 Appointment/ : 27/09/2017  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 21/06/2013  
 Mining Scheme rule 12 MCDR1988 30/08/2016

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2016-17: 6 nos of boreholes 2017-18: 10 nos of boreholes	2016-17: Nil 2017-18: Nil	The mine is non-working since 1988 due to want to statutory clearances.
1b	Exploration over lease area for geological axis 1 or 2	2016-17: 6 nos of boreholes 2017-18: 10 nos of boreholes	2016-17: Nil 2017-18: Nil As on 30.08.2016, the lease area explored in G2 level is 19.921 ha	The mine is non-working since 1988 due to want to statutory clearances.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	No exploration activity as per proposal have been carried out as the mine is non-working since 1988 due to want to statutory clearances.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Balance unexplored area : 6.06 Ha	No exploration activity as per proposal have been carried out as the mine is non-working since 1988 due to want to statutory clearances.	Nil
1e	Balance reserve as on 01/04/20	As on date of approval of modification of approved mining plan on 30.08.2016, Reserve under 122 category is 2632384 MT and Resources under 222 category is 1577323 MT	The mine non-working since 1988 and the lessee has not submitted the annual return for 2017-18 furnishing the updated status of reserves and resources as on date 01.04.2019.	Violation has been issue dto lessee for non-submission of annual returns from the year 2015-16 to 2017-18.

1f	General remarks of inspecting officers on geology, exploration etc	No comments to offer	Exploration has not been carried out as per approved proposal as the mine is non-working since 1988 due to want of statutory clearances. However, the violation letter has been issued to lessee for non-submission of annual returns from the year 2015-16 to 2017-18.	Nil
----	--	----------------------	---	-----

---

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In 2017-18, the development has been planned in M L-139 (Block B) quarry	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Specified	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
2c	Stripping ratio or ore to OB ratio	2017-18: 1:0.06 MT/m3	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
2d	Quantity of topsoil generation in m3	2017-18: Nil	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
2e	Quantity of overburden generation in m3	2017-18: 2929 m3	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments to offer	Development has not been carried out as per approved proposal as the mine is non-working since 1988 due to want of statutory clearances.	Nil

---

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3b	Quantity of ROM mineral production proposed	2017-18: 49701 MT	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3c	Recovery of sailable/usable mineral from ROM production	2017-18: Production of saleable iron ore (MT): 49701	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3d	Quantity of mineral reject generation	2017-18: Nil	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	2017-18: No mineral rejects has been proposed for generation.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3f	Quantity of sub grade mineral generation.	2017-18: Nil	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3g	Grade of sub grade mineral generation	2017-18: No subgrade has been proposed for generation.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Total ROM of iron ore produced from the mine will be subjected to manual sorting and sizing upto +300mm.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil	Nil

3j	Provision of drilling and blasting in mineral benches	100 mm diameter holes will be drilled with the help of wagon drills to a depth of 6.6m. for primary blasting 83mm, 2.78 kg slurry/emulsion explosive cartridges will be used whereas secondary blasting will be done by plaster shooting.	Nil. The mine is non-working since 1988 due to want to statutory clearances Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3k	Provision of mining machineries in mineral benches	Machineries like excavator, pay loader, tipper and wagon drill were being deployed in the mine.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	The mine is non-working since 1988 due to want to statutory clearances.	Nil
3m	Total area covered under excavation/pits	Total area under mining at the end of mining plan period will be 3.8 Ha.	The mine is non-working since 1988 due to want to statutory clearances. The updated status of area under mining has not been furnished as the annual return for 2017-18 has not been submitted. The violation letter has been issued for non-submission of annual return.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	Stripping ratio for 2017-18: 1:0.06 MT/m <sup>3</sup>	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil

3o	Total area put in use under different heads at the end of year	Total area under different heads at the end of mining plan period : 9.628 Ha	The mine is non-working since 1988 due to want to statutory clearances. The updated total area under different heads has not been furnished as the annual return for 2017-18 has not been submitted. The violation letter has been issued for non-submission of annual return.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 34161 MT 2014-15: 50881 MT 2016-17: 43437 MT 2017-18: 49701 MT	2013-14: Nil 2014-15: Nil 2016-17: Nil 2017-18: Nil	The mine is non-working since 1988 due to want to statutory clearances.
3q	General remarks of inspecting officers on method of mining etc.	No comments to offer	Exploitation have not been carried out as per approved proposal as the mine is non-working since 1988 due to want of statutory clearances.	Nil

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	2017-18: No propoal for generation of top soil and mineral rejects. The waste generated during the first three years of the ensuing plan period will be utilised in backfilling of the safety zone area & peripheral development works.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil

4b	Location of topsoil, OB and mineral reject dumps	2017-18: No proposal for generation and stacking of top soil and mineral reject dumps. The waste generated during the first three years of the ensuing plan period will be utilised in backfilling of the safety zone area & peripheral development works and the waste generated during the last year will be dumped at the proposed dumping site.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
4c	Number of dumps within lease area and outside of lease area	During the last year there will be one dump within the lease area	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil



4e	Number of active and alive dumps.	The waste generated during the first three years of the ensuing plan period will be utilised in backfilling of the safety zone area & peripheral and the waste generated during the last year will be dumped at the proposed dumping site.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
4f	Number of dead dumps.	Not Proposed	Nil	Nil
4g	Number of dumps established.	The waste generated during the first three years of the ensuing plan period will be utilised in backfilling of the safety zone area & peripheral and the waste generated during the last year will be dumped at the proposed dumping site.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	2017-18: There was no proposal for construction of retaining wall and garland drain.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil

4i	Length of Retaining wall or garland drain all along dumps	2017-18: There was no proposal for construction of retaining wall and garland drain.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
4j	Number of settling ponds	2017-18: Not proposed	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	No comments to offer	Waste management have not been carried out as per approved proposal as the mine is non-working since 1988 due to want of statutory clearances.	Nil

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal for backfilling in the quarry as the area is not matured for reclamation.	Nil	Nil
5b	Area under backfilling of mined out area	Not Proposed	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No comments to offer	There was no proposal for backfilling as the quarry is not matured for reclamation.	Nil.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Not specified	Annual return on PMCP has not been submitted for the year 2015-16 to 2017-18.	Violation has been issued for non-submission on annual return on PMCP from 2015-16 to 2017-18.
6b	Area available for rehabilitation (ha) .	Plantation along the safety zone : 0.1213 Ha	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
6c	afforestation done (ha).	Plantation along the safety zone : 0.1213 Ha	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
6d	No. of saplings planted during the year	194 nos. of saplings	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
6e	Cumulative no .of plants	Not Proposed	Nil.The mine is non-working since 1988 due to want to statutory clearances.	Nil
6f	Any other method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Not Proposed	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Proposed	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not ProposednIL	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring proposed in core and buffer zone	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comments to offer	Violation has been issued for non-submission of annual return on PMCP from 2015-16 to 2017-18 till date.	Nil
----	---	----------------------	--	-----

---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Total ROM of iron ore produced from the mine will be subjected to manual sorting and sizing upto +300mm. Then these lump will be manually crushed and screened to produce +10mm to -40mm lump and -10mm fines.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
7c	Different grade of mineral sorted out at mines.	Lump (+10-40mm): Fe: 63%, SiO <sub>2</sub> : 2.0%, Al <sub>2</sub> O <sub>3</sub> : 2.7% Fines (-10mm): Fe: 63%, SiO <sub>2</sub> : 2.5%, Al <sub>2</sub> O <sub>3</sub> : 3.0%	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
7d	Any beneficiation process at mines	Not Proposed	Nil	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comments to offer	No beneficiation has been proposed and the mine is non-working since 1988 due to want to statutory clearances.	Nil.
----	--	----------------------	--	------

---

**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Nil	Nil
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	The waste generated during the first three years of the ensuing plan period will be utilised in backfilling of the safety zone area & peripheral and the waste generated during the last year will be dumped at the proposed dumping site.	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2017-18: 181 nos. of saplings to be planted along the safety zone	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
8g	Survival rate	Not Proposed	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling has been proposed at dust generating points and haul roads	Nil. The mine is non-working since 1988 due to want to statutory clearances.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments to offer	Natural aesthetic beauty is maintained naturally.	nil

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns and Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	Violation has been issued to lessee under rule 45(5)(b) & 45(5)(c) for non-submission of monthly and annual returns.	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Monthly returns and Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	Manager and Mining Engineer has been appointed. Violation under rule 55(3)(iii) has been issued for non-appointment of Geologist.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	Violation has been issued to lessee under rule 45(5)(c) for non-submission of annual returns. The mine is non-working since 1988 for want of statutory clearances.	Nil
9d	Scrutiny of Annual return on afforestation	Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	Violation has been issued to lessee under rule 45(5)(c) for non-submission of annual returns. The mine is non-working since 1988 for want of statutory clearances.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	The mine is non-working since 1988 for want of statutory clearances.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	Violation has been issued to lessee under rule 45(5)(c) for non-submission of annual returns. The mine is non-working since 1988 for want of statutory clearances.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	Violation has been issued to lessee under rule 45(5)(c) for non-submission of annual returns. The mine is non-working since 1988 for want of statutory clearances.	Nil



9h	Scrutiny of Annual return on fixed assets	Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	Violation has been issued to lessee under rule 45(5)(c) for non-submission of annual returns. The mine is non-working since 1988 for want of statutory clearances.	Nil
9k	Scrutiny of Annual return on mining machineries	Annual Returns for the year 2015-16 to 2017-18 has not been submitted till date.	Violation has been issued to lessee under rule 45(5)(c) for non-submission of annual returns. The mine is non-working since 1988 for want of statutory clearances.	Nil

---

**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

(**SHRI SUDIP RANJAN MAZUMDAR**)

Indian Bureau of Mines