

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/IRON/KJR/MCDR-86/BBS

**Mine code :** 30ORI08114

- (i) Name of the Inspecting : **RAM** ) **RAMKISHAN R**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Kamal Bhasker, Mining Engineer  
Official with  
Designation
- (iv) Date of Inspection : 05/07/2021
- (v) Prev.inspection date : 21/10/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BOLANI IRON & MN 1586.36**
- (b) **Registration NO.** : **IBM/5662/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : Bolani
- Taluka : BARBIL
- Post office : Bolani
- Pin Code : 758037
- FAX No. : 033-22823990
- E-mail : bommines@gmail.com
- Phone : 033-22822316
- (f) Police Station : Bolani
- (g) First opening date : 14/11/1962
- (h) Weekly day of rest : SUN
2. Address for : Bolani Mn and Iron Mine,  
correspondance At: Bolani, Keonjhar  
Odisha-758037
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : M/s Steel Authority of India Ltd (SAIL)  
 Ispat Bhwan, Lodhi Road New  
 Delhi DELHI DELHI  
 Phone:011-24367481-86  
 FAX :011-24367015/22467458

Owner : SHRI VIVEK GUPTA  
 Isapt Bhwan, Lodhi Road New  
 Delhi DELHI DELHI  
 Phone: 9434776837  
 FAX : 011-24367015

Agent : SHRI A K MISHRA  
 KEONJHAR ODISHA KEONJHAR  
 ORISSA  
 Phone: 9437007518  
 FAX : 06767-260172

## Mining Engineer

Name : SHRI RAJESH KUMAR, Full Time  
 Qualification : B TECH MINING  
 Appointment/ : 20/07/2019  
 Termination date

## Geologist

Name : Sri joydev Chattopadhyay, Full Time  
 Qualification : M.Sc. Tech (Applied Geology)  
 Appointment/ : 01/06/2016  
 Termination date

## Manager

Name : SHRI KAMAL BHASKAR  
 Qualification : B TECH MINING  
 Appointment/ : 11/06/2018  
 Termination date

6. Date of approval of Mining	:	MP modif under MCR 1960	06/08/2010
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	27/03/2018
	:	MP review under 17(1) MCR 2016	13/11/2019

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	134 nos of boreholes were proposed during the year 2020-21 to brought area under G1/G2 level.	Nil	The mine was nonoperational due to want of forest clearance
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	134 nos of boreholes were proposed during the year 2020-21 to brought area under G1/G2 level.	Nil	
1e	Balance reserve as on 01/04/20	As per the approved documnet on 05.08.2021 the iron ore reserves are 0.3749 mil.t. and resources are 0.0267 mil.t. and manganese ore reserves are 0.3998 mil.t. and resources are 0.0186 mil.t.	As No mining operations were carried out, so there is no change in the reserves and resources.	

1f	General remarks of inspecting officers on geology, exploration etc	Manganese deposits are small in extent, rather pocket like and isolated deposits. Mn deposit of the area is mainly of replacement origin, formed by replacing laterite and limonite.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	quarry-5 and quarry-10 are proposed for development during the year 2020-21.	Nil	The mine was nonoperational due to want of forest clearance
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no proposal for top soil generation. Separate benches in overburden proposed	Nil	
2c	Stripping ratio or ore to OB ratio	1:1.93 t/cu.m. during the year 2020-21.	Nil	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	0.029 m.cum. for the year 2020-21.	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine was non-operational due to want of forest clearance

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	2 pits	2 pits	
3b	Quantity of ROM mineral production proposed	15000 t	Nil	The mine was nonoperational due to want of forest clearance
3c	Recovery of sailable/usable mineral from ROM production	6000 t	Nil	
3d	Quantity of mineral reject generation	6000 t	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	+10%Mn-25% Mn	+10%Mn-25% Mn	
3f	Quantity of sub grade mineral generation.	Not applicable	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not applicable	Nil	
3j	Provision of drilling and blasting in mineral benches	drillling and blasting is proposed.	Nil	
3k	Provision of mining machineries in mineral benches	shovel and dumper combination os proposed for excavation.	Nil	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m bench height	Nil
3m	Total area covered under excavation/pits	88.34 ha at the end of plan period i.e. year 2024-25	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.93 t/cu.m. during the year 2020-21.	Nil
3o	Total area put in use under different heads at the end of year	432.61 ha at the end of plan period i.e. year 2020-21	Nil
3p	Production of ROM mineral during the last five year period as applicable	2015-16: NIL 2016-17: NIL 2017-18: NIL 2018-19: 15000 T 2019-20: 15000 T	2015-16: NIL 2016-17: NIL 2017-18: NIL 2018-19: NIL 2019-20: NIL
3q	General remarks of inspecting officers on method of mining etc.		The mine was nonoperational due to want of forest clearance

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There was no proposal for top soil generation. Separate temporarily dumping of overburden proposed in WD1 and WD2. Subgrade generated will be blended with high grade ore	Nil
4b	Location of topsoil, OB and mineral reject dumps	There is no proposal for top soil generation. Location of WD1 and WD2 are as	Nil
4c	Number of dumps within lease area and outside of lease area	2	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	one is within UPL and one is outside UPL	Nil
4e	Number of active and alive dumps.	2	Nil
4f	Number of dead dumps.	Not applicable	Nil
4g	Number of dumps established.	Not applicable	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	propsoed.	Nil
4i	Length of Retaining wall or garland drain all along dumps	430 m reataining wall and garland drain 440 m	Nil
4j	Number of settling ponds	2	Nil

4k	Specific comments of inspecting officer on waste dump management	The mine was non-operational due to want of forest clearance
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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.	area not matured for backfilling	Not applicable	
5b	Area under backfilling of mined out area	area not matured for backfilling	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Nil	
5d	Total area fully reclaimed and rehabilitated	Not applicable	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The mine was nonoperational due to want of forest clearance	

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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).	PMCP report to submitted before 1 st July		



6b	Area available for rehabilitation (ha) .	Not applicable Nil	
6c	afforestation done (ha).	3 ha during the year 2020-21	4 ha in waste land
6d	No. of saplings planted during the year	7500 nos	9300 nos
6e	Cumulative no .of plants		140100 nos
6f	Any other method of rehabilitation	Not applicable Nil	
6g	Cost incurred on watch and care during the year		Rs.875898
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not applicable Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not applicable Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable Nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	3 ha	4 ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB.	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The mine was nonoperational due to want of forest clearance

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**Mineral Conservation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade-wise sorting of mineral is propsoed.	Nil	The mine was nonoperational due to want of forest clearance
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Nil	
7c	Different grade of mineral sorted out at mines.	10% to 25% Mn and above 25% Mn	Nil	
7d	Any beneficiation process at mines	Not applicable	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mine was nonoperational due to want of forest clearance

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There was no proposal for top soil generation	Nil	The mine was nonoperational due to want of forest clearance
8b	Concurrent use or storage of topsoil	Not applicable	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	Nil	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	7500 nos	9300 nos
8g	Survival rate		Not ascertained.
8h	Water sprinkling on roads to control airborne dust	water sprinkling is proposed for dusty suppression.	carried out
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around the mine is maintained.

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017	Yearly return has not been submitted till the date of inspection.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not submitted till the time of inspection date.	Not applicable	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not submitted till the time of inspection date.	Not applicable	
9d	Scrutiny of Annual return on afforestation	Not submitted till the time of inspection date.	Not applicable	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not submitted till the time of inspection date.	Not applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not submitted till the time of inspection date.	Not applicable	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not submitted till the time of inspection date.	Not applicable	
9h	Scrutiny of Annual return on fixed assets	Not submitted till the time of inspection date.	Not applicable	
9k	Scrutiny of Annual return on mining machineries	Not submitted till the time of inspection date.	Not applicable	

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

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

**Date :**

(RAMKISHAN R)

Indian Bureau of Mines