

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-71/BBS-27/1:

Mine code : 30ORI08083

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Saroj Kumar Khandual, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 17/01/2019
- (v) Prev.inspection date : 25/09/2012

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHADRASAI (998.70HA)**
- (b) **Registration NO.** : **IBM/4892/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : ROIDA
- Taluka : BARBIL
- Post office : ROIDA
- Pin Code :
- FAX No. : 06767-275777
- E-mail : omdcgeology@yahoo.com
- Phone : 06767-276131
- (f) Police Station : Barbil
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number : ORI0174
- (b) Lease area : 254.95
- (c) Period of lease : 20
- (d) Date of Expiry : 19/09/2006
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : THE ORISSA MINERALS DEVELOPMENT CO. LTD.
FD-350,SECTOR-III SALT CITY
LAKE KOLKATA WEST BENGAL
Phone:033-3213983
FAX :033 - 3213874

Owner : M/S ORISSA MINERAL DEVELOPMENT CORPORATION LTD
FD-350,SECTOR-III SALT CITY
LAKE CALCUTTA-700091
KOLKATA WEST BENGAL
Phone: 033-3213983
FAX : 033-3213874

Agent : SHRI RAKESH KUMAR
KEONJHAR ORISSA
Phone:
FAX :

Manager
Name : SAROJ KUMAR KHANDWAL
Qualification : B.E. MINING ENGG.
Appointment/ : 10/05/2016
Termination date

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No valid Proposal. the last approved mining plan was valid up to the year 2014-15.	Lessee has submitted draft modification of mining plan on 07.01.2019 which is under process.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.
1b	Exploration over lease area for geological axis 1 or 2	No valid Proposal.	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No valid Proposal.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No valid Proposal.	Nil	Nil

1e	Balance reserve as on 01/04/20	As per the approved documnet on 20/04/2011 the iron ore reserves are 111: 56.77 million tonnes, 122: 17.18 million tonnes and resources are 221: 0.32 million tonnes, 222: 0.14 million tonnes and 334: 20.26 million tonnes. manganese reserves are 111: 7.48 million tonnes, 122: 4.46 million tonnes and resources are 221: 0.21 million tonnes, 222: 0.21 million tonnes and 334: 4.56 million tonnes.	As the mine operations discontinued there is no change in the reserves and resources quantity from the approved documnet.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No comments to offer.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.	Nil

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	No valid Proposal. the last approved mining plan was valid up to the year 2014-15.	Nil	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No valid proposal.	Nil	Nil
2c	Stripping ratio or ore to OB ratio	No valid proposal.	Nil	Nil
2d	Quantity of topsoil generation in m3	No valid proposal.	Nil	Nil
2e	Quantity of overburden generation in m3	No valid proposal.	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments to offer.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	No valid Proposal. the last approved mining plan was valid up to the year 2014-15.	Nil	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.
3b	Quantity of ROM mineral production proposed	No valid proposal.	Nil	Nil
3c	Recovery of sailable/usable mineral from ROM production	No valid proposal.	Nil	Nil
3d	Quantity of mineral reject generation	No valid proposal.	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No valid proposal.	Nil	Nil
3f	Quantity of sub grade mineral generation.	No valid proposal.	Nil	Nil
3g	Grade of sub grade mineral generation	No valid proposal.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No valid proposal.	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No valid proposal.	Nil	Nil

3j	Provision of drilling and blasting in mineral benches	No valid proposal.	Nil	Nil
3k	Provision of mining machineries in mineral benches	No valid proposal.	Nil	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No valid proposal.	Nil	Nil
3m	Total area covered under excavation/pits	No valid proposal.	Nil	Nil
3n	Ore to OB ratio for the pit/mine during the year.	No valid proposal.	Nil	No valid proposal.
3o	Total area put in use under different heads at the end of year	No valid proposal.	Nil	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 1.781 million tonnes of Iron, 0.117 million tonnes of manganese 2014-15: 1.799 million tonnes of Iron, 0.119 million tonnes of manganese 2015-16: No valid proposal. 2016-17: No valid proposal. 2017-18: No valid proposal.	2013-14: Nil 2014-15: Nil 2015-16: Nil 2016-17: Nil 2017-18: Nil	Nil

3q	General remarks of inspecting officers on method of mining etc.	No comments to offer.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.	Nil
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No valid Proposal. the last approved mining plan was valid up to the year 2014-15.	Nil	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.
4b	Location of topsoil, OB and mineral reject dumps	No valid proposal.	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	No valid proposal.	Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No valid proposal.	Nil	Nil
4e	Number of active and alive dumps.	No valid proposal.	Nil	Nil
4f	Number of dead dumps.	No valid proposal.	Nil	Nil
4g	Number of dumps established.	No valid proposal.	Nil	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	No valid proposal.	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No valid proposal.	Nil	Nil
4j	Number of settling ponds	No valid proposal.	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	No comments to offer.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.	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 valid Proposal. the last approved mining plan was valid up to the year 2014-15.	Nil	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.
5b	Area under backfilling of mined out area	No valid proposal.	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No valid proposal.	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No valid proposal.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No comments to offer.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.	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).	No valid Proposal. the last approved mining plan was valid up to the year 2014-15.	Nil	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.
6b	Area available for rehabilitation (ha) .	No valid proposal.	Nil	Nil
6c	afforestation done (ha).	No valid proposal.	Nil	Nil
6d	No. of saplings planted during the year	No valid proposal.	Nil	Nil

6e	Cumulative no .of plants	No valid proposal.	Nil	Nil
6f	Any other method of rehabilitation	No valid proposal.	Nil	Nil
6g	Cost incurred on watch and care during the year	No valid proposal.	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No valid proposal.	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No valid proposal.	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No valid proposal.	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No valid proposal.	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No valid proposal.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No valid proposal.	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No valid proposal.	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No valid proposal.	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	carried out	carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comments to offer.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No valid Proposal. the last approved mining plan was valid up to the year 2014-15.	Nil	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No valid proposal.	Nil	Nil
7c	Different grade of mineral sorted out at mines.	No valid proposal.	Nil	Nil
7d	Any beneficiation process at mines .	No valid proposal.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comments to offer.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No valid Proposal. the last approved mining plan was valid up to the year 2014-15.	Nil	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.
8b	Concurrent use or storage of topsoil	No valid Proposal.	Nil	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No valid Proposal.	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No valid Proposal.	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No valid Proposal.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No valid Proposal.	Nil	Nil
8g	Survival rate	No valid Proposal.	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	No valid Proposal.	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments to offer.	The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer: 1, Diploma Mining Engineer: 1	Graduate Mining Engineer: 1, Diploma Mining Engineer: 1	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C workings: 155.82 ha, waste disposal: 58.019 ha, infrastructure : 14.514 ha, Others: 12.119 ha	O/C workings: 155.82 ha, waste disposal: 58.019 ha, infrastructure: 14.514 ha, Others: 12.119 ha	Nil
9d	Scrutiny of Annual return on afforestation	6000 nos.	6000 nos.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil, 62% to 65% Fe (lumps): 11647.010 closing stock, 65% and above: 44506.050 closing stock, manganese ROM closing stock: Nil 25% to below 35% Mn: 10355.65 tonnes	ROM closing stock: Nil, 62% to 65% Fe (lumps): 11647.010 closing stock, 65% and above: 44506.050 clsoing stock, manganese ROM closing stock: Nil 25% to below 35% Mn: 10355.65 tonnes	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	No production of mineral as The mine operations were discontinued since 01.10.2010 by the order of Forest Range Officer, further, the State government had lapsed the ML w.e.f. 01.10.2012 vide letter dated 08.01.2015, which has been set aside by Revision Authority.
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	dozer: 1 (180 h.p.) water tanker: 3 nos.	dozer: 1 (180 h.p.) water tanker: 3 nos.	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 :

(RAMKISHAN R)

Indian Bureau of Mines