

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-4/BBS

Mine code : 30ORI08009

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Samar Chakraborty, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 18/01/2019
- (v) Prev.inspection date : 09/08/2010

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BELKUNDI**
- (b) **Registration NO.** : **IBM/4895/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : BELKUNDI
- Taluka : BARBIL
- Post office : BARBIL
- Pin Code : 758035
- FAX No. : 06767-275530,276131
- E-mail : kjr-omdctk@sancharnet.in
- Phone : 06767-75218/76131
- (f) Police Station : Barbil
- (g) First opening date : 15/08/1926
- (h) Weekly day of rest : SUN
2. Address for : VILL:BELKUNDI, PO BARBIL
correspondance DIST. KEONJHAR, ORISSA, FAX-30382
PHONE-30218
3. (a) Lease Number : ORI0088
- (b) Lease area : 1276.79
- (c) Period of lease : 4
- (d) Date of Expiry : 15/08/2006
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 : SAMAR CHAKRABORTY
 Qualification : B.TECH MINING ENGG.
 Appointment/ : 10/05/2016
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	06/07/2005
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	02/07/2010
	:	Mining Scheme rule 12 MCDR1988	02/12/2011

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 2015-16.	Lessee has submitted draft modification of mining plan on 07.01.2019 which is under process.	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.
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 document on 02.12.2011 the iron ore oreserves are 111: 9.89 million tonnes, 122: 10.11 million tonnes, resources are 221: 0.04 million tonnes, 222: 0.074 million tonnes, 333: 7.11 million tonnes, 334: 0.099 million tonnes and manganese reserves are 111: 9.88 million tonnes, 122: 2.38 million tonnes and resources are 222: 0.01 million tonnes, 333: 3.8 million tonnes, 334: 0.005 million tonnes.	As there was no operations carried out, so no change in reserves and resources.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No comments to offer.	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.	Nil

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No valid Proposal. the last approved mining plan was valid up to the year 2015-16.	Nil	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.
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 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.	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 2015-16.	Nil	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.
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	Nil
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: 1.74 million tonnes of iron ore, 0.26 million tonnes of manganese ore 2014-15: 1.8 million tonnes of iron ore, 0.3 million tonnes of manganese ore 2015-16: 1.8 million tonnes of iron ore, 0.3 million tonnes of manganese ore 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 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 2015-16.	Nil	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.
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 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.	Nil
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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.	No valid Proposal. the last approved mining plan was valid up to the year 2015-16.	Nil	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.
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 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.	Nil
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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).	No valid Proposal. the last approved mining plan was valid up to the year 2015-16.	Nil	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.
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)Afforestation 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)	No valid proposal.	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 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 2015-16.	Nil.	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.
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 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No valid Proposal. the last approved mining plan was valid up to the year 2015-16.	Nil	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.
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 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.	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 (partly employed) Geologist: 1 (Partly employed)	Graduate Mining engineer: 1 (partly employed) Geologist: 1 (Partly employed)	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C workings: 159.877 ha waste disposal: 31.080 ha, infrastructure : 26.635 ha, others: 9.243 ha	O/C workings: 159.877 ha waste disposal: 31.080 ha, infrastructure: 26.635 ha, others: 9.243 ha	Nil
9d	Scrutiny of Annual return on afforestation	Nil	Nil	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 (Iron ore and manganese ore) 62%-65% Fe: 3192.372 tonnes 65% aboce: 2022.09 tonnes (lumps) 62%-65%(Fines): 14122.090 tonnes 25%-35% Mn: 932.72 tonnes closing stock, 35%-45% Mn: 3928.31 tonnes	ROM closing stock: Nil (Iron ore and manganese ore) 62%-65% Fe: 3192.372 tonnes 65% aboce: 2022.09 tonnes (lumps) 62%-65%(Fines): 14122.090 tonnes 25%-35% Mn: 932.72 tonnes closing stock, 35%-45% Mn: 3928.31 tonnes	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	The mine operations were discontinued since 09.12.2009 by the order of Divisional Forest Officer, Further, the State government had lapsed the ML w.e.f. 09.12.2011 vide letter dated 29.05.2017, for which lessee has applied to Revision Authority for revival.

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