

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/IRON/KJR/MCDR-16/BBS

**Mine code :** 30ORI08015

- (i) Name of the Inspecting : **U11** ) **DAYANAND UPADHYAY**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Bikash Chandra Parida, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 16/03/2022
- (v) Prev.inspection date : 09/10/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DAITARI**
- (b) **Registration NO.** : **IBM/4269/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : TALAPADA
- Taluka : GHATGAON
- Post office : TALAPADA
- Pin Code : 758026
- FAX No. : 0674-2391629
- E-mail : planningcellomc@gmail.com
- Phone : 0674-2393431
- (f) Police Station : Daitari
- (g) First opening date : 18/02/1967
- (h) Weekly day of rest : SUN
2. Address for : DAITARI IRON ORE MINE, OMC,  
correspondance
3. (a) Lease Number : ORI0085
- (b) Lease area : 1812.99
- (c) Period of lease :
- (d) Date of Expiry : 26/01/2036
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : O.M.C.LTD.  
 OMC House ,P.B.No.34  
 BHUBANESWAR Odisha KHURDA  
 ORISSA  
 Phone:06742393431  
 FAX :06742391629

Owner : M/S OMC LTD.  
 M/S OMC LTD. OMC HOUSE,  
 POST BOX NO. 34  
 BHUBANESWAR-751010 KEONJHAR  
 ORISSA  
 Phone: 06766-233064  
 FAX : 06766-233085

Agent : SHRI S K MISHRA  
 JAJPUR ORISSA  
 Phone:  
 FAX :

## Mining Engineer

Name : SHRI SAROJ KUMAR PRUSTY,Full Time  
 Qualification : B E MINING  
 Appointment/ : 01/11/2016  
 Termination date

## Geologist

Name : SHRI BIRENDRA KUMAR PANDA,Full Time  
 Qualification : MSC APPLIED GEOLOGY  
 Appointment/ : 02/04/2010  
 Termination date

## Manager

Name : SHRI B B NAYAK  
 Qualification : AMIE  
 Appointment/ : 21/05/2018  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	11/07/2006
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	06/10/2008
	:	Mining Scheme rule 12 MCDR1988	06/10/2008
	:	MP modif under MCR 1960	08/01/2015
	:	MP modif under MCR 1960	22/03/2016
	:	MP review under 17(1) MCR 2016	21/02/2020

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	104 nos. of boreholes were proposed to drill in the year 2020-21	Total 52 holes are drilled as on date of inspection.	Due to want of forest clearance the proposed bore holes not acheived.
1b	Exploration over lease area for geological axis 1 or 2	G1 Level	G1 Level of exploration under broken up area.	G1 Level of exploration under broken up area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	Cost incurred in drilling was Rs 210 lakh/-. Exploration agency involved in drilling was M/s Thriveni Earth Movers Pvt. Ltd.	Cost incurred in drilling was Rs 210 lakh/-. Exploration agency involved in drilling was M/s Thriveni Earth Movers Pvt. Ltd.
1d	Balance area to be explored to bring Geological axis in 1 or 2	101.993 ha. in 2020-21.	Drilling has been carried out in broken up area of 95.60 ha as the proposed area is under process of forest clearance.	Drilling has been carried out in broken up area of 95.60 ha as the proposed area is under process of forest clearance.
1e	Balance reserve as on 01/04/20	Reserve and Resources as per approved Mining as on 31.08.2019 Reserve : 168.668 MT	Mineral Reserve as on 01.04.2021 : 164.198 MT	Mineral Reserve as on 01.04.2021 : 164.198 MT
1f	General remarks of inspecting officers on geology, exploration etc	104 nos. of boreholes were proposed to drill in the year 2020-21	Total 52 holes are drilled as on date of inspection.	Drilling has been carried out in broken up area of 95.60 ha as the proposed area is under process of forest clearance.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Hilltop pit (2333480N to 2334100 N,376170E to 376520E) and Sindurmundi 1 & 2 Pit	The development is carried out in Hilltop pit (2333480N to 2334100 N,376170E to 376520E) only.	The Sindurmundi Pit is not developed due to want of forest clearance.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed.	Nil.	All the benches are mixed with ore and waste.
2c	Stripping ratio or ore to OB ratio	1:0.09T/cu.m	Nil	No waste generated as Sindurmundi Pit is not developed due to want of forest clearance.
2d	Quantity of topsoil generation in m3	No proposal	Nil	Nil
2e	Quantity of overburden generation in m3	0.53 M cu.m	No waste generated as Sindurmundi Pit is not developed due to want of forest clearance.	No waste generated as Sindurmundi Pit is not developed due to want of forest clearance.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development is proposed in Hilltop pit and Sindurmundi 1 & 2 Pit	The development is carried out in Hilltop pit only.	Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1.Hilltop Pit 2.Sindurmundi (Pit 1 & 2)	The development is carried out in Hilltop pit only.	Sindurimundi 1 & 2 have not been started due to want of Forest clearance.
		1.Hilltop(4.96 ) 2.Sindurmundi 1 & 2(1.02)		

3b	Quantity of ROM mineral production proposed	6.0million tonne	2.999998 million tonne	The proposed production could not be achieved due to restriction of Environmental Clearance i.e 3.0 MT/annum.
3c	Recovery of sailable/usable mineral from ROM production	4.98MT in 2020-21	2.98 MT	All the ROM production is saleable.
3d	Quantity of mineral reject generation	1.02 MT in 2020-21.	No mineral reject generation is reported in 2020-21.	No mineral reject generation is reported in 2020-21 as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.
3e	Grade of mineral rejects generation and threshold value declared.	45-55% Fe	No mineral reject generation is reported in 2020-21.	No mineral reject generation is reported in 2020-21 as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.
3f	Quantity of sub grade mineral generation.	1.02 MT in 2020-21.	No mineral reject generation is reported in 2020-21.	No mineral reject generation is reported in 2020-21 as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.
3g	Grade of sub grade mineral generation	45-55% Fe	No mineral reject generation is reported in 2020-21.	No mineral reject generation is reported in 2020-21 as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting have been proposed.	Drilling and blasting have been carried out in mineral benches as per proposal.	Drilling and blasting have been carried out in mineral benches as per proposal.
3k	Provision of mining machineries in mineral benches	Dupmers, Excavators and Loaders have been proposed for mining operation.	Dupmers, Excavators and Loaders have been deployed.	Dupmers, Excavators and Loaders have been deployed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10m Bench Height has been proposed	More or less 10m bench height has been maintained as per proposal.	More or less 10m bench height has been maintained as per proposal.
3m	Total area covered under excavation/pits	104.08 ha during approved plan period.	About 61.639 ha area has been covered under excavation pits.	About 61.639 ha area has been covered under excavation pits.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.09T/cu.m	Nil.	No waste generated reported as Sindurmundi Pit is not developed due to want of forest clearance.
3o	Total area put in use under different heads at the end of year	Total area proposed under different heads during plan period is 224.93 ha.	Area covered as below: Mining :61.63Ha Mineral Stacking & Processing:15.033Ha Infrastructure,Plant&Mac hinery:10.6072Ha. Roads:7.1154Ha	Area covered as below: Mining :61.63Ha Mineral Stacking & Processing:15.033H a Infrastructure,Pla nt&Machinery:10.60 72Ha. Roads:7.1154Ha

3p	Production of ROM mineral during the last five year period as applicable	2015-16 :5.72Mt 2016-17 :4.04Mt 2017-18 : 4.00Mt 2018-19 :4.52Mt 2019-20:6.0Mt 2020-21:6.0Mt	2015-16 :2.999635Mt 2016-17 :2.824235M.T 2017-18 :3.000000M.T 2018-19 :2.986714M.T 2019-20:2.806652M.T 2020-21:2.999998Mt	Production is within the approved EC limit.
3q	General remarks of inspecting officers on method of mining etc.	The development is proposed in Hilltop pit and Sindurmundi 1 & 2 Pit	The development is carried out in Hilltop pit only.	Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of waste & mineral reject have been proposed	Nil	No Top-soil, Overburden& Mineral rejects were handled during this period.
4b	Location of topsoil, OB and mineral reject dumps	WD-1 2335100N to 2335681N & 373529E to 374580E	Nil	No Top-soil, Overburden& Mineral rejects have been generated during this period.
4c	Number of dumps within lease area and outside of lease area	WD-1 2335100N to 2335681N & 373529E to 374580E	Nil	No Top-soil, Overburden& Mineral rejects have been generated during this period.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Nil	No Top-soil, Overburden& Mineral rejects have been generated during this period.

4e	Number of active and alive dumps.	WD-1 2335100N to 2335681N & 373529E to 374580E	Nil	No waste have been generated during this period as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.
4f	Number of dead dumps.	Not proposed.	Nil	Nil.
4g	Number of dumps established.	Not proposed.	Nil.	Nil.
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed all along the dump	Nil.	Proposed dump not created as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall- 5540 mtr garland drain- 6525 mtr	Nil	Proposed dump not created as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.
4j	Number of settling ponds	9 Nos	Nil	Proposed dump not created as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.
4k	Specific comments of inspecting officer on waste dump management	Retaining wall or garland drain all along dumps	Proposed dump not created as the Sindurmundi Pit 1 & 2 is not developed due to want of forest clearance.	No Top-soil, Overburden & Mineral rejects were generated / handled during this period and caused no OB Dump creation.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed as pit is not matured.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed as pit is not matured.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed as pit is not matured.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
5d	Total area fully reclaimed and rehabilitated	Not proposed as pit is not matured.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not proposed as pit is not matured.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP under Rule 26(2) of MCDR, 2017 is proposed to be submitted.	Annual return on PMCP has been submitted.	Annual return on PMCP has been submitted.
6b	Area available for rehabilitation (ha) .	Not proposed.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
6c	afforestation done (ha).	No proposal	Nil	Nil
6d	No. of saplings planted during the year	No proposal	Nil	Nil
6e	Cumulative no .of plants	No proposal	Nil	Nil

6f	Any other method of rehabilitation	Not proposed.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
6g	Cost incurred on watch and care during the year	No proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not proposed.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed.	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)	Quarterly monitoring	Quarterly monitoring	Quarterly monitoring
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not proposed as pit is not exhausted.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not proposed at mine site.	After crushing the whole ROM is transported through belt conveyor.	After crushing the whole ROM is transported through belt conveyor.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed at mine site.	After crushing the whole ROM is transported through belt conveyor.	After crushing the whole ROM is transported through belt conveyor.
7c	Different grade of mineral sorted out at mines.	Not proposed at mine site.	After crushing the whole ROM is transported through belt conveyor.	After crushing the whole ROM is transported through belt conveyor.
7d	Any beneficiation process at mines	Not proposed	Nil	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No beneficiation proposed at mine site.	After crushing the whole ROM is transported through belt conveyor.	After crushing the whole ROM is transported through belt conveyor.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil are proposed	Nil	No top soil generated during the year
8b	Concurrent use or storage of topsoil	Separate removal and utilization of topsoil are proposed	No top soil generated during the year	No top soil generated during the year
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden, waste rock, rejects have been proposed	Nil	No Top-soil, Overburden& Mineral rejects were generated / handled during this period and caused no OB Dump creation.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation not proposed.	Nil	Nil.
8g	Survival rate	Plantation not proposed.	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	water sprinkler	water sprinkler are used to control air borne dust.	water sprinkler are used to control air borne dust.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No proposal of reclamation and rehabilitation .	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & Annual returns are being regularly submitted by lessee.	Monthly & Annual returns are being regularly submitted by lessee.	Monthly & Annual returns are being regularly submitted by lessee.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The employment status of mining engineer, geologist & mine manager have been furnished in the annual return	Mining engineer, geologist & mine managers were employed in the mine.	Mining engineer, geologist & mine managers were employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Excavation area- 61.13 Ha O.B Dump- Nil Mineral Storage- 12.64Ha Infrastuctre- 5.5 Ha Road- 8.97 Ha Processing Plant-1.36 Ha Statutory Barrier- 13.277 Ha Others- 909.4315 Ha	Excavation area- 61.13 Ha O.B Dump- Nil Mineral Storage-12.64Ha Infrastuctre- 5.5 Ha Road- 8.97 Ha Processing Plant-1.36 Ha Statutory Barrier- 13.277 Ha Others- 909.4315 Ha	Excavation area- 61.13 Ha O.B Dump- Nil Mineral Storage- 12.64Ha Infrastuctre- 5.5 Ha Road- 8.97 Ha Processing Plant- 1.36 Ha Statutory Barrier- 13.277 Ha Others- 909.4315 Ha
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 :15065.900 MT	ROM Closing Stock :15065.900 MT	ROM Closing Stock :15065.900 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price 62-65% Fe Lump-Rs3655.42 Cost of production - 2208 rupees	Ex mine price 62-65% Fe Lump-Rs3655.42 Cost of production -2208 rupees	Ex mine price 62-65% Fe Lump-Rs3655.42 Cost of production -2208 rupees
9h	Scrutiny of Annual return on fixed assets	Fixed assets Value- Rs. 113586013/-	Fixed assets Value- Rs. 113586013/-	Fixed assets Value- Rs. 113586013/-
9k	Scrutiny of Annual return on mining machineries	Shovel- 07 Wheel Loader- 01 Motor grader- 01 Dumper- 19 Water Tanker- 01	Shovel- 07 Wheel Loader- 01 Motor grader- 01 Dumper- 19 Water Tanker- 01	Shovel- 07 Wheel Loader- 01 Motor grader- 01 Dumper- 19 Water Tanker- 01

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**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 :**

(DAYANAND UPADHYAY)

Indian Bureau of Mines