

**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 : **S010** ) **SHRI G.C. SETHI**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri B.B.Nayak, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 11/07/2019
- (v) Prev.inspection date : 27/08/2018

**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.  
 SRI.G.K.DHAL,MD OMC House  
 ,P.B.No.34 BHUBANESWAR  
 KHURDA ORISSA  
 Phone:  
 FAX :0674-401629(BBSR),06767-30257

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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	70 nos. of boreholes were proposed in 2018-19.	Only 25 nos. of boreholes were drilled during the year 2018-19.	45 boreholes are backlog. Violation under rule 11(1) of MCDR,2019 has been pointed out to the party vide this office letter No. ORI/IRON/KJR/MCDR-16/BBS, dated 26.07.2019.
1b	Exploration over lease area for geological axis 1 or 2	Total of 256 nos of boreholes with 15360 m have been proposed during plan period from 2016-17 to 2019-20 to brought area under G1/G2 axis.	Only 25 nos. of boreholes were drilled during the year 2018-19.	Violation under rule 11(1) of MCDR,2019 has been pointed out to the party vide this office letter No. ORI/IRON/KJR/MCDR-16/BBS, dated 26.07.2019 for deviation in the exploration schedule for 2018-19.
1c	Exploration Agencies and Expenditure in lakh rupees during the year			
1d	Balance area to be explored to bring Geological axis in 1 or 2	70 nos of boreholes were proposed during the year 2018-19.	Only 25 nos. of boreholes were drilled during the year 2018-19.	Violation under rule 11(1) of MCDR,2019 has been pointed out to the party vide this office letter No. ORI/IRON/KJR/MCDR-16/BBS, dated 26.07.2019 for deviation in the exploration schedule for 2018-19.

1e	Balance reserve as on 01/04/20	As per the approved mining plan dated 22.03.2016 the iron ore reserves are 154.96 million tonnes. and resources are 32.25 million tonnes	After depletion of resources/reresources for the production reported during 2018-19, the available iron ore reserves & resources are arrived at 144 million tonnes and resources are 32.25 million tonnes respectively as on 01.04.2019.	Nil
1f	General remarks of inspecting officers on geology, exploration etc		After depletion of resources/reresources for the production reported during 2018-19, the available iron ore reserves & resources are arrived at 144 million tonnes and resources are 32.25 million tonnes respectively as on 01.04.2019. Daitari iron ore deposit forms a part of Tomka-Daitari-Kalisagar-Rebana-Harichandanpur basin, which is considered to be older to Bonai iron ore horse shoe formation.	Violation under rule 11(1) of MCDR,2019 has been pointed out to the party vide this office letter No. ORI/IRON/KJR/MCDR-16/BBS, dated 26.07.2019 for deviation in the exploration schedule for 2018-19.

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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	one single quarry called hil top quarry is proposed during the year 2018-19.	Development is carried out restricted to hiltop quarry only during 2018-19.	Nil

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil generation proposed and there is no generation of OB only benches in mineral are proposed. bench height is 10 m.	Benches in mineral are maintained with height of 10 m.	Nil
2c	Stripping ratio or ore to OB ratio	The proposed OB/waste generation during the period 2018-19 .	No OB produced during the year and Ore:OB ratio could not be established.	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development is carried out in single quarry in a scientific line as envisaged in the approved proposal for 2018-19.	Nil

### Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	single pit called hill top quarry.	Production received from single pit called hill top.	Nil
3b	Quantity of ROM mineral production proposed	4.52 million tonnes. during the year 2018-19.	2.98 million tonnes	The proposed production could not be achieved due to non availability of EC for the targeted production.

3c	Recovery of sailable/usable mineral from ROM production	4.52 million tonnes of saleable ore and 0.05 million tonnes of subgrade ore was proposed to be generated in the year 2018-19. The sub-grade so generated was proposed to be blended with the high grade to make them salable.	2.98 million tonnes. of saleable ore was produced during the year and the subgrade was also blended with the other saleable material.	Nil
3d	Quantity of mineral reject generation	0.07 million tonnes. during the year 2018-19 which will be blended with ROM.	Generated mineral rejects are blended with ROM	Nil
3e	Grade of mineral rejects generation and threshold value declared.	+45%-55%Fe	+45%-55%Fe	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechaineds.	Mechaineds.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Not applicable.	Nil

3j	Provision of drilling and blasting in mineral benches	drilling of 115 mm dia with drill machine and emulsion/slurry explosive with electric detonators are proposed.	drilling of 115 mm dia with drill machine and emulsion/slurry explosive with electric detonators are carried out.	Nil
3k	Provision of mining machineries in mineral benches	excavator: 3.5 cu.m. dumper: 35 tonnes drill machine: 115 mm dia. loader: 1.7 cu.m.	excavator: 3.5 cu.m. dumper: 35 tonnes drill machine: 115 mm dia. loader: 1.7 cu.m.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10m	Average bench height 10m.	Nil
3m	Total area covered under excavation/pits	63.2371 ha till the plan period 2019-20.	61.63 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	No OB/waste generation during 2018-19 and the Ore:OB ratio not computed.	No OB generated during the year 2018-19 & the Ore:OB ratio could not be evaluated.	Nil
3o	Total area put in use under different heads at the end of year	OC workings: 63.2371 ha, roads: 8.2932 ha, mineral processing: 12.1393 ha during the plan period till 2019-20.	OC workings: 61.63 ha, reclaimed/rehabilitated: 0.880ha, Occupied by plant & buildings etc.: 14.470ha, and other purposes (Ore stacking, processing & dumping): 19.500 ha	Nil

3p	Production of ROM mineral during the last five year period as applicable	2013-14: 2.874 million tonnes. 2014-15: 2.982 million tonnes. 2015-16: 5.72 million tonnes. 2017-18: 4 million tonnes. 2018-19: 4.52million tonne	2014-15: 1.8 million tonnes. 2015-16: 2.99 million tonnes. 2016-17: 2.82 million tonnes. 2017-18: 3 million tonnes. 2018-19: 2.98 million tonne	Lower side variation in production is due to non vailability of EC and lack of market demand.
3q	General remarks of inspecting officers on method of mining etc.	The production of iron ore is restricted only to hill top pit as envisaged in the approved document for 2018-19.	Nil	

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil exists in the mine, therby no bench in topsoil envisaged. Besides no OB generation also envisaged. The mineral rejects was proposed to be blended with the high grade material to make them salable.	No OB & top soil generated during 2018-19 and mineral rejects generated was blended with the high grade to make them salable.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No topsoil exists in the mine.	No generation of top soil, OB and mineral rejects duing the year 2018-19.	Nil



4c	Number of dumps within lease area and outside of lease area	No OB/waste generation envisaged in 2018-19.	No OB/waste generated during 2018-19.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dumping and no waste generation from the mine as envisaged in the approved document.	No generation of OB in 2018-19.	Nil
4e	Number of active and alive dumps.	No dumping and no waste generation from the mine as envisaged in the approved document.	No OB generated during the year	Nil
4f	Number of dead dumps.	None	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Over Burden/waste generation envisaged and dumping proposed in 2018-19, thereby no retaining wall & garland drains proposed.	Not applicable.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No dumps and no proposal for retaining wall and garland drains.	No retaining wall constructed during 2018-19.	Nil
4j	Number of settling ponds	None	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		No generation Over Burden/ waste generated due to the mining operations in 2018-19.	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.	Area not matured for reclamation as mineral is not extracted fully.	Area not matured for reclamation as mineral is not extracted fully.	Nil
5b	Area under backfilling of mined out area	Area not matured for reclamation.	Area not matured for reclamation during 2018-19.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No toposiol exists in the location proposed for excavation planning during 2018-19.	No top soil generated during 2018-19	Nil
5d	Total area fully reclaimed and rehabilitated	Area not matured for reclamation.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral not exhausted in the working area, so area 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).	Annual return on PMCP for the year 2018-19 Submitted.	Submitted.	Nil
6b	Area available for rehabilitation (ha) .	Area not matured for reclamation.	Nil	Nil
6c	afforestation done (ha).	No afforestation proposal within the lease in 2018-19.	No afforestation done during 2018-19 within the lease area.	Nil

6d	No. of saplings planted during the year	5000 nos. of saplings out side the lease area in 2018-19 envisaged.	2000 nos. of saplings within the lease area planted during 2018-19.	For deviation in plantation schedule, the violation under Rule 11(1) of MCDR,2017 was pointed out to the party vide this office letter No. ORI/IRON/KJR/MCDR-16/BBS, dated 26.07.2019.
6e	Cumulative no .of plants	No such specific proposal.	2000 nos. saplings during 2018-19.	Nil
6f	Any other method of rehabilitation	Area not matured for reclamation/r ehabilitation	Nil	Nil
6g	Cost incurred on watch and care during the year	No plantation within the lease area envisaged.	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not applicable	Area not matured for reclamation and rehabilitation.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable.	Area not matured for reclamation.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not applicable.	Not applicable.	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable.	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable.	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable.	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable.	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring of environmental paramaters like air, water noise quality are envisaged.	Environemntal monitoring is being done on quarterly basis for quality of air, water, noise & vibration etc..	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		No generation of OB/waste and top soil from the mine during 2018-19.	Nil

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting envisaged.	Grade wise sorting practised.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	Nil
7c	Different grade of mineral sorted out at mines.	62-64%Fe	62% to below 65%Fe-Lumps 60% to below 62%Fe-Fines 62% to below 65%Fe-Fines	Nil
7d	Any beneficiation process at mines .	No beneficiation process at mines site. only crushing and screening are envisaged.	No beneficiation process at mines site. only crushing and screening are being done.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		There is no mineral conservation problem in the mine.	Nil

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil exists in the mine.	No top soil is generated during 2018-19.	Nil
8b	Concurrent use or storage of topsoil	Not applicable.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No waste generation envisaged in the approved document.	No waste generated during 2018-19.	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable.	No OB & mineral reject generated during 2018-19.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5000 nos of saplings proposed to be planted.	2000 nos saplings were planted.	Violation under rule 11(1) pointed out to the party vide letter No.ORI/IRON/KJR/MC DR-16/BBS,dated 26.07.2019.
8g	Survival rate	No such specific proposal.	99.9%	Nil
8h	Water sprinkling on roads to control airborne dust	Mobile water sprinklers are proposed for water sprinkling to control dust on haul roads.	Water sprinkling on haul roads is being done by deploying mobile water sprinklers for dust suppression.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		As the mining operations are confined to the hill top as asthetic beauty of the sorrounding area is fantastic.	Nil

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	The lessee has to submit the monthly returns for the preceding month on or before 10th of the following month and the annual return on or before 1st July of the following year for the preceding financial year.	All the monthly returns for the year 2018-19 has been submitted to this office.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer: 6 Diploma Mining Engineer: 5 Geologist: 4	Graduate Mining Engineer: 6 Diploma Mining Engineer: 5 Geologist: 4	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Opencast workings: 61.63 Ha, reclaimed/rehabiltated: 0.880 ha, Occupied by plants 7 buildings etc.: 14.470ha Ore stacking & processing: 19.500ha	Opencast workings: 61.63 Ha, reclaimed/rehabiltated: 0.880 ha, Occupied by plants 7 buildings etc.: 14.470ha Ore stacking & processing: 19.500ha	Nil
9d	Scrutiny of Annual return on afforestation	2000 nos of saplings planted.	Found to be in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated during 2018-19	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening Stock- 221701.900 tonnes, Closing stock- 208415.900, Grade: 62-65%Fe	ROM: Opening Stock- 221701.900 tonnes, Closing stock- 208415.900, Grade: 62-65%Fe	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost: Rs.2003.01	Production cost: Rs.2003.01	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.81453017/-	Rs.81453017/-	Found to be in order.
9k	Scrutiny of Annual return on mining machineries	Shovel (hydraulic): 4 nos. Wheel loader: 2 nos., Dozer: 1 no., Motor Grader: 1 no., dumpers 30 tonner: 19 nos., Rock drills(non-electric): 2 nos and Crushers : 2 nos. etc. are deployed in the mine.	Found to be in order.	Nil

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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
MCDR17	Rule 11(1)	26/07/2019	26/08/2019				
	Rule 45(7)	26/07/2019	26/08/2019				

**Date :**

**(SHRI G.C. SETHI)**

Indian Bureau of Mines