

**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 : **RAM** ) **RAMKISHAN R**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri S.K.Mishra, Regional Manager, Shri B B Nayak, Mi  
Official with  
Designation
- (iv) Date of Inspection : 27/08/2018
- (v) Prev.inspection date : 17/03/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DAITARI**
- (b) **Registration NO.** :
- (c) Category : A 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. : 06726-48723
- E-mail : info@odishamining.com
- Phone : 06726-48722
- (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:  
 FAX :

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	No such proposal.	However 80 nos of boreholes were proposed during the year 2017-18.	Nil
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.	No exploration carried out during the year 2017-18.	violation issued dated 05/09/2018.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	80 nos of boreholes were proposed during the year 2017-18.	No exploration carried out.	Nil
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	due to addition and depletion over the period of time the iron ore reserves are 148 million tonnes and resources are 32.25 million tonnes as on 01.04.2018.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No comments to offer.	No exploration was carried out during the year 2017-18.	Nil

## 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 2017-18 in the location of 50N to -600N.	development is carried out in hiltop quarry in the location 50N to -600N.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil generation proposed and there is no genartion of OB only benches in mineral are proposed. bench height is 10 m.	benches in mineral are mainatined with height of 10 m.	Nil
2c	Stripping ratio or ore to OB ratio	Not proposed in the plan as no generation OB during the period 2017-18.	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	No comments to offer.	developmnet is carried out in single quarry as proposed in the mining plan.	Nil

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	single pit called hill top quarry.	production is carried out from single pit called hill top.	Nil

3b	Quantity of ROM mineral production proposed	4 million tonnes. during the year 2017-18.	3 million tonnes	could not be achieved due to non availability of EC for the targeted production.
3c	Recovery of sailable/usable mineral from ROM production	4 million tonnes of saleable ore and 0.05 million tonnes of subgrade ore was proposed to be produced in the year 2017-18 which will be blended with saleable ore.	3 million tonnes. of saleable ore was produced during the year and the subgrade was also blended with saleable ore.	no generation of subgrade material.
3d	Quantity of mineral reject generation	0.05 million tonnes. during the year 2017-18 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.	Mechanised.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	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	bench height proposed is 10 m	10 m bench height is maintained.	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.	Not proposed in the plan as no generation OB during the period 2017-18.	No OB generated during the year.	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, roads: 7.1154 ha, mineral processing: 12.1393 ha	till the year 2017-18.

3p	Production of ROM mineral during the last five year period as applicable	2013-14: 2.874 Mil.t. 2014-15: 2.982 Mil.t. 2015-16: 5.72 Mil.t. 2016-17: 4.04 Mil.t. 2017-18: 4 mil.t.	2013-14: 0.351 Mil.t. 2014-15: 1.8 Mi.t. 2015-16: 2.99 Mil.t. 2016-17: 2.82 Mi.t. 2017-18: 3 mil.t.	variation is due to non availability of EC and less market demand.
3q	General remarks of inspecting officers on method of mining etc.	No comments to offer	production is carried out from hil top pit as proposed in the mining plan.	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 generation of top soil, OB and seperate dumping for mineral rejects not prosed as it was proposed to be blended with ROM.	No OB, top soil is generated during the year and mineral rejects generated were blended with ROM.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Not proposed.	No generation of top soil, OB and mineral rejects duing the year.	Nil
4c	Number of dumps within lease area and outside of lease area	Not proposed.	No dumps are being maintained	No generation of OB.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No t proposed.	No generation of OB.	Nil
4e	Number of active and alive dumps.	Not proposed.	No OB generated during the year	Nil
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.	Not proposed.	Nil	No OB generated as no protectives measures are being mainatined.
4i	Length of Retaining wall or garland drain all along dumps	Not proposed.	Nil	No dumps are proposed.
4j	Number of settling ponds	Not proposed.	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	No comments to offer.	No generation OB in the mine operations.	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.	Not proposed.	Nil	Area not matured for reclamation as mineral is not extracted fully.
5b	Area under backfilling of mined out area	Not proposed.	Nil	Area not matured for reclamation.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No generation of top soil is proposed.	No top soil generated.	Nil
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil	Area not matured for reclamation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No comments to offer.	Mineral not exhausted in the working area, so area not matured for reclamation.	Nil



Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted.	Submitted.	Nil
6b	Area available for rehabilitation (ha) .	Not proposed.	Nil	Area not matured for reclamation.
6c	afforestation done (ha).	Not proposed.	Nil	Nil
6d	No. of saplings planted during the year	Not proposed.	Nil	Nil
6e	Cumulative no .of plants	No such specific proposal.	10100 nos	Nil
6f	Any other method of rehabilitation	Not proposed	Nil	Area not matured for reclamation
6g	Cost incurred on watch and care during the year	No such specific proposal.	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not proposed.	Nil	Area not matured for reclamation.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	Nil	Area not matured for reclamation.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Not proposed.	Nil	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed.	Nil	Nil
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)	monitoring of environemtnal paramaters like air, water noise quality are proposed.	environemtnal monitoring is carried out periodically like quality of air, water, noise.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comments to offer.	No generation of OB and only mineral is produced.	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	60% to below 62%-Fines 62% to below 65%-Fines 62% to below 65%-Lumps	60% to below 62%-Fines 62% to below 65%-Fines 62% to below 65%-Lumps	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.	60% to below 62%-Fines 62% to below 65%-Fines 62% to below 65%-Lumps	60% to below 62%-Fines 62% to below 65%-Fines 62% to below 65%-Lumps	Nil
7d	Any beneficiation process at mines .	Not proposed.	Nil	No beneficiation process at mines carried out. only crushing and screening are being carried out.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comments to offer.	No mineral rejects/subgrade is generated, the generated materail blended with ROM.	Nil

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No generation of top soil proposed.	No top soil is generated.	Nil
8b	Concurrent use or storage of topsoil	Not proposed as no generation of top soil.	Nil	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed as no generation of OB and generated mineral rejects are proposed to be blended with ROM.	No generation of OB and generated mineral rejects are blended with ROM.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed as area is not matured for reclamation and no OB generation is proposed.	Nil	Area not matured for reclamation
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Area not matured for reclamation.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5000 nos of saplings proposed outside lease area.	3000 nos saplings were planted outside the lease area.	Nil
8g	Survival rate	No such specific proposal.	82%	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 carried out by mobile water sprinklers for dust suppression.	Nil

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments to well maintained. offer.	Nil
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submit before 1st July of previous year annual return.	Monthyl and annual return submitted with in stipulated time period.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer: 1 Diploma Mining Engineer: 3 Geologist: 4	Graduate Mining Engineer: 1 Diploma Mining Engineer: 3 Geologist: 4	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	workings: 61.63 Ha, roads and others: 27.59 ha, infra: 5.5 ha	workings: 61.63 Ha, roads and others: 27.59 ha, infra: 5.5 ha	Nil
9d	Scrutiny of Annual return on afforestation	3000 nos outside lease area	3000 nos outside lease area	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 stock: 221701.900 tonnes Lumps: 62% to below 65%: 49259.123 tonnes fines: 62% to below 65%: 182844.149 tonnes fines: 60% to below 62%: 7.451 tonnes	ROM stock: 221701.900 tonnes Lumps: 62% to below 65%: 49259.123 tonnes fines: 62% to below 65%: 182844.149 tonnes fines: 60% to below 62%: 7.451 tonnes	some of the material from ROM is processed outside of the lease area for which the lessee has separate licence from state government.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost: Rs.1300	Production cost: Rs.1300	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.83080250	Rs.83080250	Nil
9k	Scrutiny of Annual return on mining machineries	excavator: 5 nos. dumpers: 21 nos loader: 2 nos drill machine: 1 no.	excavator: 5 nos. dumpers: 21 nos loader: 2 nos drill machine: 1 no.	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)	05/09/2018			
MCDR17	Rule 31(4)	05/09/2018			

**Date :**

(RAMKISHAN R)

Indian Bureau of Mines