

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/IRON/KJR/MCDR-50/BBS-2/6/1

**Mine code :** 30ORI08066

- (i) Name of the Inspecting : **RAM** ) **RAMKISHAN R**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Yudhisthir Mahanta, Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 20/12/2019
- (v) Prev.inspection date : 30/08/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ROIDA 'C'**
- (b) **Registration NO.** : **IBM/4269/2011**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : KOLHO-ROIDA
- Taluka : BARBIL
- Post office : BHADRASAHI
- Pin Code : 758036
- FAX No. : 06767-275637
- E-mail : info@orissamineral.com
- Phone : 06767-285168,85263
- (f) Police Station : Barbil
- (g) First opening date : 10/04/1996
- (h) Weekly day of rest : SUN
2. Address for : VILL-KOLHO ROIDA  
correspondance PO-MATKAMBEDA  
DIST-KEONJHAR
3. (a) Lease Number : ORI0038
- (b) Lease area : 96.77
- (c) Period of lease : 20
- (d) Date of Expiry : 07/02/2017
4. Mineral worked : IRON ORE Main  
MANGANESE ORE Associated

## 5. Name and Address of the

Lessee : M/S OMC LTD.  
 AT & PO: TIRING PAHAR DIST.  
 KEONJHAR, ORISSA KEONJHAR  
 ORISSA  
 Phone:06766-233064  
 FAX :06766-233085

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 : A.K.MISHRA  
 KEONJHAR ORISSA  
 Phone:  
 FAX :

## Mining Engineer

Name : A.B.BEHERIA,Full Time  
 Qualification : Degree in Mining Engineering A.M.I.E  
 Appointment/ : 08/11/1994  
 Termination date

## Geologist

Name : T.PANDA,Full Time  
 Qualification : M.Sc GEOLOGY  
 Appointment/ :  
 Termination date

## Manager

Name : A.BEHURIA  
 Qualification : F.C.C (Metal)  
 Appointment/ : 08/11/1994  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	05/07/2005
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	08/12/2009
	:	Mining Scheme rule 12 MCDR1988	12/06/2013
	:	Modif.approved Mining Scheme	17/03/2015
	:	MP modif under 17(3) MCR 2016	30/12/2016
	:	MP modif under 17(3) MCR 2016	25/09/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	However 21 nos of boreholes were proposed as a part of exploration during the year 2018-19.	Nil
1b	Exploration over lease area for geological axis 1 or 2	21 nos of boreholes were proposed during the year 2018-19 to brought area under G1/G2 level.	6 nos of boreholes were drilled.	violation observed and communicated to lessee letter dated 07.01.2020.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		In house exploration team.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	84 nos of boreholes were proposed during the plan period i.e. till 2021-22.	6 nos boreholes were drilled during the year 2018-19.	
1e	Balance reserve as on 01/04/20	As per the approved document dated 25.09.2018 the iron ore reserves are 5.29 mil.t and resources are 1.86 mil.t. manganese reserves are 39546 t.	due to depletion/addition over the period of time the updated iron or reserves as on dated 01.04.2019 are 4.47 mil.t and resources are 1.86 mil.t. manganese reserves are 39546 t.	Nil
1f	General remarks of inspecting officers on geology, exploration etc		exploration has not been carried out as proposed for the year 2018-19, so violation observed and communicated to lessee letter dated 07.01.2020.	Nil

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	main pit is proposed during the year 2018-19 for development.	development is carried out in main pit as proposed.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	top soil is propsoed to be removed by scrapping and seperate benches in OB and minearl are proposed.	seperate benches in OB and mineral are maintained. top soil is scrapped seperately.	Nil
2c	Stripping ratio or ore to OB ratio	1: 0.94 t/cu.m.	1:0.78 t/cu.m.	Nil
2d	Quantity of topsoil generation in m3	1023 cu.m.	320 cu.m.	Nil
2e	Quantity of overburden generation in m3	489572 cu.m.	296635 cu.m.	devioation is due to less ROM prodcution.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		development is carried out by opencast mining method as proposed.	Nil

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 no. during the year 2018-19.	1 no.	Nil
3b	Quantity of ROM mineral production proposed	0.459 mil.t. during the year 2018-19.	0.375 mil.t.	Nil
3c	Recovery of sailable/usable mineral from ROM production	saleable ore is 0.391 mil.t	0.278 mil.t.	deviation is due to less ROM production and irregular nature of ore deposit.

3d	Quantity of mineral reject generation	68970 t	97524 t	due to irregular nature of ore deposit.
3e	Grade of mineral rejects generation and threshold value declared.	+45-58% Fe	+45-58% Fe	Nil
3f	Quantity of sub grade mineral generation.	addressed in mineral reject.	Not applicable	Nil
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Nil	
3j	Provision of drilling and blasting in mineral benches	drilling and blasting is proposed.	drilling and blasting is carried out.	Nil
3k	Provision of mining machineries in mineral benches	excavator and dumper combination is proposed for excavation and hauling.	excavator and dumper combination is deployed for excavation and hauling.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m	maintained.	Nil
3m	Total area covered under excavation/pits	31.039 ha at the end of plan period i.e. 2021-22.	26.93 ha	Nil

3n	Ore to OB ratio for the pit/mine during the year.	1: 0.94 t/cu.m.	1:0.78 t/cu.m.	Nil
3o	Total area put in use under different heads at the end of year	total area put to use till the end of plan period i.e. 2021-22 is 82.136 ha	72.225 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 0.452 mil.t. 2015-16: 0.555 mil.t. 2016-17: 0.443 mil.t. 2017-18: 0.389 mil.t. 2018-19: 0.459 mil.t.	2014-15: 85239 t. 2015-16: 0.11 mil.t. 2016-17: 0.329 mil.t. 2017-18: 0.389 mil.t. 2018-19: 0.375 mil.t.	
3q	General remarks of inspecting officers on method of mining etc.		production is carried out from one pit by opencast mining method as proposed.	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)	seperate dumping of top soil, OB and mineral rejects are proposed.	seperate dumping of top soil, OB and mineral rejects are maintained.	Nil
4b	Location of topsoil, OB and mineral reject dumps	top soil is proposed to be used concurrently after temporary dumping. dump-6, dump-3 and dump-1 are proposed for waste dumping.	top soil is used concurrently. dump-6, dump-3 and dump-1 are maintained for waste dumping.	

4c	Number of dumps within lease area and outside of lease area	3 nos are proposed during the year 2018-19 with in lease area.	3 nos within lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL	Nil
4e	Number of active and alive dumps.	3 nos.	3 nos.	
4f	Number of dead dumps.	Not proposed during the year 2018-19.	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes.	provided.	
4i	Length of Retaining wall or garland drain all along dumps	650 m retaining wall and 400 m	650 m retaining wall and 400 m	
4j	Number of settling ponds	2 nos.	2 nos.	
4k	Specific comments of inspecting officer on waste dump management		waste dump management is carried out as proposed.	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.	area not matured for backfilling	Not applicable.	Nil
5b	Area under backfilling of mined out area	Not applicable	Nil	

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Not applicable	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Area not matured for backfilling.

#### 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).	PMCP report to submitted before 1 st July		
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.7 ha on dumps and 0.1 ha in waste land	1.8 ha	Nil
6d	No. of saplings planted during the year	4500 nos	6000 nos	
6e	Cumulative no .of plants		114919 nos	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	



6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not applicable Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not applicable Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.1 ha	0.1 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.1 ha	0.1 ha

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	periodical environmental monitoring of core zone and buffer zone are proposed.	carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP measures were carried out as propped.	Nil

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade-wise sorting of mineral is proposed.	carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	Nil
7c	Different grade of mineral sorted out at mines.	+45-58% Fe and +58% Fe	+45-58% Fe and +58% Fe	
7d	Any beneficiation process at mines .	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		grade-wise sorting of mineral are carried out.	Nil

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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	seperate removal of top soil and its utilisation is proposed.	carried out.	
8b	Concurrent use or storage of topsoil	concurrent use of top soil is proposed.	carried out	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dumps for waste, rejects are proposed.	maintained.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	dump plantation is proposed.	carried out	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	4500 nos	6000 nos	
8g	Survival rate		70%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul raods for dust supression is proposed.	carried out.	Nil

8i General remarks of inspecting officer on aesthetic beauty in and around mines area aesthetic beauty in and around the mines area is maintained.

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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 and annual returns are to be submitted as per rule 45 of MCDR, 2017	submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer 3, Diploma Mining Engineer 3, Geologist 1	found to be in order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings: 26.930 ha, Used for waste disposal: 18.586 ha, Occupied by plant, buildings, residential, welfare buildings & roads 4.950 ha	found to be in order.	Nil
9d	Scrutiny of Annual return on afforestation	6000 nos	6000 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	97524 t	97524 t	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock 21243.5 t	ROM closing stock 21243.5 t	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production cost is Rs. 1820.63	production cost is Rs.1820.63	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.17100929	Rs.17100929	Nil
9k	Scrutiny of Annual return on mining machineries	BACK HOE 0.900 found to be in order. CUM 1, BACK HOE 1.800 CUM 1, BACK HOE 1.800 CUM 1,WHEEL LOADER 1.500 CUM 1,DUMPER 30.000 TONNE 5, WATER TANKER 12000.000 LITRE 2, CRUSHER 90.000 T/H 1		Nil

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**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