

**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 B.B.Nayak, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 18/12/2020
- (v) Prev.inspection date : 21/01/2020

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
	:	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	No such proposal.	However 48 nos of boreholes were proposed during the year 2019-20.	
1b	Exploration over lease area for geological axis 1 or 2	48 nos of boreholes have been proposed for drilling during the year 2019-20.	26 nos of boreholes were drilled.	violation observed and communicated to lessee letter dated 12.01.2021
1c	Exploration Agencies and Expenditure in lakh rupees during the year		M/s Maheswari Mining. Expenditure is Rs 2 crores.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	48 nos of boreholes were proposed during the year 2019-20.	26 nos of boreholes were drilled.	
1e	Balance reserve as on 01/04/20	As per the approved mining plan dated 21.02.2020 the iron ore reserves are 168.668 million tonnes. and resources are Nil	due to addition and depletion over the period of time the iron ore reserves are 167.198 million tonnes and resources are Nil as on 01.04.2020	
1f	General remarks of inspecting officers on geology, exploration etc		26 nos of boreholes were drilled as part of exploration during the year.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	one single quarry called hil top quarry is proposed during the year 2019-20.	development is carried out in hiltop quarry.	
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.	benches in mineral are mainatined	
2c	Stripping ratio or ore to OB ratio	Not applicable	Nil	No generation of waste proposed in the approved mining plan during the year 2019-20.
2d	Quantity of topsoil generation in m3	Not applicalble	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		developmnet is carried out in single quarry by opencast mining method.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One quarry called as hill top quarry during the year 2019-20.	production is carried out from single pit called hill top.	

3b	Quantity of ROM mineral production proposed	6 mil.t. during the year 2019-20.	2.806 mil.t.	due to non availability of Environment clearnce to produce 6.mil.t. the production could not be achieved.
3c	Recovery of sailable/usable mineral from ROM production	5.72 mil.t. of salable ore and 0.27 mil.t. of mineral reject	2.806 mil.t. of salable ore and Nil production of mineral rejects.	
3d	Quantity of mineral reject generation	0.27 mil.t.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	+45%-55%Fe	+45%-55%Fe	
3f	Quantity of sub grade mineral generation.	Not applicable	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechainsed.	Mechainsed.	
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 of 115 mm dia with drill machine and emulsion/slurr y explosive with electric detonators are proposed.	drilling of 115 mm dia with drill machine and emulsion/slurry explosive with electric detonators are carried out.	

3k	Provision of mining machineries in mineral benches	excavator and dumper combination is proposed for handling of material.	excavator and dumper are deployed for handling of material.
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.
3m	Total area covered under excavation/pits	63.2371 ha till the plan period 2019-20.	61.63 ha
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable	Nil
3o	Total area put in use under different heads at the end of year	total area put under different heads at the end of plan period is 99.6357 ha.	95.6 ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 5.72 Mil.t. 2016-17: 4.04 Mil.t. 2017-18: 4 mil.t. 2018-19: 4.52 mil.t. 2019-20: 6 mil.t.	2015-16: 2.99 Mil.t. 2016-17: 2.82 Mil.t. 2017-18: 3 mil.t. 2018-19: 2.98 mil.t. 2019-20: 2.806 mil.t.
3q	General remarks of inspecting officers on method of mining etc.		production is carried out from hill top quarry by opencast mining method.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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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.	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed.	No generation of top soil, OB and mineral rejects duing the year.	
4c	Number of dumps within lease area and outside of lease area	Not proposed.	No waste dumps are being maintained.	No generation of OB/waste.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Nil	
4e	Number of active and alive dumps.	Not applicable	Nil	
4f	Number of dead dumps.	Not applicable	Nil	
4g	Number of dumps established.	Not applicable	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management		No generation OB/waste in the mine operations.	

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 applicable	Nil	
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.	
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.		Mineral not exhausted in the working area, so area not matured for reclamation.	

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).	have to submit under rule 26 (2) of MCDR, 2017.	submitted.	
6b	Area available for rehabilitation (ha) .	Not propsoed.	Nil	
6c	afforestation done (ha).	Not proposed.	Nil	
6d	No. of saplings planted during the year	Not propsoed	Nil	however 5000 nos were proposed to be planted outside lease area and it was carried out accordingly.

6e	Cumulative no .of plants		Not applicable
6f	Any other method of rehabilitation	Not proposed	Nil
6g	Cost incurred on watch and care during the year		Not applicable
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	No such specific proposal.	However all environmental parameters are monitored periodically as per the relevant statute.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP measures are carried out as per the proposal.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade-wise sorting is carried out at outside lease area.	carried out at outside lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines.	+45-55% Fe and +55% Fe	+45-55% Fe and +55% Fe	
7d	Any beneficiation process at mines	Not proposed.	Nil	

7e General remarks of inspecting officer on Mineral conservation and beneficiation issues

mineral rejects generated were blended with ROM.

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.	
8b	Concurrent use or storage of topsoil	Not proposed as no generation of top soil.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed as no generation of OB and mineral rejects are proposed to be blended with ROM.	No generation of OB and generated mineral rejects are blended with ROM.	
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	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Nil	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5000 ns of saplings to be planted outside of the lease area.	5000 nos of saplings were planted.
8g	Survival rate		99%
8h	Water sprinkling on roads to control airborne dust	mobile water sprinking for dust suppression on haul roads.	carried out.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		aesthetic beauty in and around the mines area is mainatined.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer: 4 Diploma Mining Engineer: 6 Geologist: 4	found to be in order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	workings: 61.63 Ha, roads and others: 14.47 ha, etc.,	found to be in order.	
9d	Scrutiny of Annual return on afforestation	5000 nos.	found to be in order.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock is 15067.900 t.	found to be in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost is Rs.1603.53	found to be in order.
9h	Scrutiny of Annual return on fixed assets	Rs. 147709687	Rs. 147709687
9k	Scrutiny of Annual return on mining machineries	ROCK DRILL (NONELEC.) 150.000 MM 2, SHOVEL (HYDRAULIC) 1.800 CUM 1, SHOVEL (HYDRAULIC) 2.450 CUM 1, SHOVEL (HYDRAULIC) 3.000 CUM 1 SHOVEL (HYDRAULIC) 4.000 CUM 1, SHOVEL (HYDRAULIC) 192.000 CUM 1 WHEEL LOADER 2.600 CUM 1, DOZER 160.000 HP 1 etc.,	found to be in order.

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