

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-93/BBS

Mine code : 30ORI08125

- (i) Name of the Inspecting : **U11**) **DAYANAND UPADHYAY**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Abhi Kanta Pradhan, Agent(Mines)
Official with
Designation
- (iv) Date of Inspection : 23/10/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JILLING LANGALOTTA IRON O**
- (b) **Registration NO.** : **IBM/4269/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : JILLING
- Taluka : BARBIL
- Post office : JAJANG
- Pin Code : 758034
- FAX No. : 0674-2580145
- E-mail : info@orissamining.com
- Phone : 0674-2377400
- (f) Police Station : Bambebari
- (g) First opening date : 27/02/2021
- (h) Weekly day of rest : SUN
2. Address for : JILLING
correspondance KEONJHAR
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : IRON ORE Main

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 : Abni Kanta Pradhan
 OMC office Barbil Dist-
 Keonjhar BHUBNESHWAR ORISSA
 Phone: 0674-2377400
 FAX : 0674-2580145

Geologist

Name : S.K. Kalo, Full Time
 Qualification : M.Sc
 Appointment/ : 14/04/2021
 Termination date

Manager

Name : Chinmay Kumar Parida
 Qualification : B Tech(Mining)
 Appointment/ : 21/01/2021
 Termination date

6. Date of approval of Mining : MP under 16(1) of MCR 2016 19/03/2021
 Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2020-21.	Nil.	Potentially mineralised area is explored under G1/G2 level of exploration.
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal in 2020-21.	Nil.	Potentially mineralised area is explored under G1/G2 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	Nil.	Potentially mineralised area is explored under G1/G2 level of exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration proposal in 2020-21.	Nil.	Potentially mineralised area is explored under G1/G2 level of exploration.
1e	Balance reserve as on 01/04/20	As per mining plan 40099295.4 MT of reserve & 32754771.7 MT of resources	Balance reserves on dated 01-04-2021, 39902945.4 MT and resources 32754771.7 MT.	Balance reserves on dated 01-04-2021, 39902945.4 MT and resources 32754771.7 MT.
1f	General remarks of inspecting officers on geology, exploration etc	No exploration proposal in 2020-21.	Nil.	Potentially mineralised area is explored under G1/G2 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t.lease area	Jajang Langalotta quarry : 2428040-2428425 N & 337840-338360 E Jilling Gangeigora quarry : 2429500-2429685 N & 338010-338440 E	Two quarries Jajang-Langalotta & Jilling - Gangaigora are developed within approved proposal.	Two quarries Jajang-Langalotta & Jilling - Gangaigora are developed within approved proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil and OB in 2020-21. Mineral reject - 2428370 N , 337865 E and 2428374 N ,337865 E	No proposal of top soil and OB in 2020-21. Mineral reject blended at the time of production with high grade ore.	Mineral reject blended at the time of production with high grade ore.
2c	Stripping ratio or ore to OB ratio	No proposal of OB/waste.	Nil	Nil.
2d	Quantity of topsoil generation in m3	Not proposed.	Nil.	Nil.
2e	Quantity of overburden generation in m3	Not proposed.	Nil	Nil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Jajang Langalotta quarry : 2428040-2428425 N & 337840-338360 E Jilling Gangeigora quarry : 2429500-2429685 N & 338010-338440 E	Two quarries Jajang-Langalotta & Jilling - Gangaigora are developed within approved proposal.	Two quarries Jajang-Langalotta & Jilling - Gangaigora are developed within approved proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits for 2020-21	Two pits pit put for production as proposed.	Two pits pit put for production as proposed.
3b	Quantity of ROM mineral production proposed	500000 T	196350 T	Mining operation started late from 27/02/2021 therefore ROM production is less.
3c	Recovery of sailable/usable mineral from ROM production	0.383MillionT	01196MillionT	Mining operation started late from 27/02/2021 therefore ROM production is less.
3d	Quantity of mineral reject generation	0.117milliom T	0.0025million T. Mineral reject blended with high grade and used.	Mineral reject blended with high grade and used.
3e	Grade of mineral rejects generation and threshold value declared.	+45 % Fe to - 55% Fe, threshold value 45% of Fe.	+45 % Fe to - 55% Fe	+45 % Fe to - 55% Fe
3f	Quantity of sub grade mineral generation.	0.117milliom T	0.0025million T. Mineral reject blended with high grade and used.	Mineral reject blended with high grade and used.
3g	Grade of sub grade mineral generation	+45 % Fe to - 55% Fe.	+45 % Fe to - 55% Fe.	Mineral reject blended with high grade and used.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Only dry crushing and screening is practiced.	Only dry crushing and screening is practiced.
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and blasting.	Drilling and blasting is carried out with 115 mm dia blast holes. 83 mm Solar prime/aquadyne catridge formed explosives, NONEL detonators are used.	Drilling and blasting is carried out with 115 mm dia blast holes.

3k	Provision of mining machineries in mineral benches	Shovel and dumper combination.	Shovel and dumper combination.	Shovel and dumper combination.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height 10 meter.	Height of benches in overburden and mineral are suitable for method of mining as proposed in approved plan.	Height of benches in overburden and mineral are suitable for method of mining as proposed in approved plan.
3m	Total area covered under excavation/pits	124.52 Ha during plan period.	Area cover under pit is 107.798 Ha.	Area cover under pit is 107.798 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	OB not proposed.	Nil.	Nil.
3o	Total area put in use under different heads at the end of year	Total area put in use under different heads during plan period is 314.399 ha	Total area utilised under different heads at the end of year is 192.244 ha.	Total area utilised under different heads at the end of year is 192.244 ha.
3p	Production of ROM mineral during the last five year period as applicable	2020-21: 500000 T	2020-21: 196350 T	ROM production is less due to late starting of mining operation i.e from 27/02/2021.
3q	General remarks of inspecting officers on method of mining etc.	Two number of pits proposed for production	Two number of pit is worked out for production as per proposal.	Two number of pit is worked out for production as per proposal.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil and OB dump not proposed in 2020-21. Mineral reject is proposed for blending.	Nil.	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,

4b	Location of topsoil, OB and mineral reject dumps	Top soil and OB dump not proposed in 2020-21. Mineral reject is proposed for blending.	Nil.	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,
4c	Number of dumps within lease area and outside of lease area	Top soil and OB dump not proposed in 2020-21. Mineral reject is proposed for blending.	Nil.	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Top soil and OB dump not proposed in 2020-21. Mineral reject is proposed for blending.	Nil.	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,
4e	Number of active and alive dumps.	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,	Nil.	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,
4f	Number of dead dumps.	Not proposed.	Nil	There are 2no. of old dump exist in the lease area which is partially stabilised.
4g	Number of dumps established.	Not proposed.	Nil	There are 2no. of old dump exist in the lease area which is partially stabilised.
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed in 2020-21.	Nil.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	Not proposed in 2020-21.	Nil.	Nil.

4j	Number of settling ponds	Not proposed.	Nil.	Nil.
4k	Specific comments of inspecting officer on waste dump management	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore.	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,

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 as pits are not exhausted.	Pit is not matured for reclamtion and rehabilitation.	Pit is not matured for reclamtion and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed as pit is not exhausted.	Pit is not matured for reclamtion and rehabilitation.	Pit is not matured for reclamtion and rehabilitation.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed as pit is not exhausted.	Pit is not matured for reclamtion and rehabilitation.	Pit is not matured for reclamtion and rehabilitation.
5d	Total area fully reclaimed and rehabilitated	Not proposed as pit is not exhausted.	Pit is not matured for reclamtion and rehabilitation.	Pit is not matured for reclamtion and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not proposed as pit is not exhausted.	Pit is not matured for reclamtion and rehabilitation.	Pit is not matured for reclamtion and rehabilitation.

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).	As per provision of MCDR 2017.	Annual return on PMCP has been submitted.	Annual return on PMCP has been submitted.
6b	Area available for rehabilitation (ha) .	Not proposed as pit is not exhausted.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
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	Not proposed.	Nil.	Nil.
6f	Any other method of rehabilitation	Not proposed.	Nil.	Nil.
6g	Cost incurred on watch and care during the year	Not specified	Around Rs 2.0 lakh cost incurred on watch and care.	Around Rs 2.0 lakh cost incurred on watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not proposed as pit is not exhausted.	Pit is not matured for reclamation and rehabilitation.	Pit is not matured for reclamation and rehabilitation.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed as pit is not exhausted.	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 backfilled area	Not proposed as pit is not exhausted.	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 as pit is not exhausted.	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 as pit is not exhausted.	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.	Backfilling 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	Grade-wise sorting of mineral.	Grade-wise sorting of mineral.	Grade-wise sorting of mineral.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines.	+45-55% Fe and +55% Fe	+45-55% Fe and +55% Fe	Grade-wise sorting of mineral is carried out at mine site.
7d	Any beneficiation process at mines	Not proposed.	Only dry crushing and screening is practiced.	Only dry crushing and screening is practiced.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade-wise sorting of mineral	Grade-wise sorting of mineral is carried out at mine site. Only dry crushing and screening is practiced.	Grade-wise sorting of mineral is carried out at mine site. Only dry crushing and screening is practiced.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Nil.	Nil.
8b	Concurrent use or storage of topsoil	Not proposed.	Nil.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore,	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore.	No OB/waste is proposed in 2020-21. Mineral reject generated is blended with high grade ore.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed as pit is not exhausted.	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 as pit is not exhausted.	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)	Not proposed in 2020-21.	Nil.	Nil.
8g	Survival rate	Not proposed in 2020-21.	Nil.	Nil.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads	Water sprinkling on roads carried out.	Water sprinkling on roads carried out.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty is maintained.	Aesthetic beauty is maintained.

Compliance of Rule 45:

Sl.No.	Item	Proposals	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.	Pit - 107.798 Ha, Infrastructure - 11.594ha, Other - 72.67ha.	Pit - 107.798 Ha, Infrastructure - 11.594ha, Other - 72.67ha.	Pit - 107.798 Ha, Infrastructure - 11.594ha, Other - 72.67ha.
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	Closing Stock : 62-65 % lumps =61928.00 MT 60-62 % fines =134267.95 MT	Closing Stock : 62-65 % lumps =61928.00 MT 60-62 % fines =134267.95 MT	Closing Stock : 62-65 % lumps =61928.00 MT 60-62 % fines =134267.95 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price : 62-65 % lumps = Rs. 6530.00/MT 60-62 % fines = Rs. 3712.8 /MT	Ex-mine Price : 62-65 % lumps = Rs. 6530.00/MT 60-62 % fines = Rs. 3712.8 /MT	Ex-mine Price : 62-65 % lumps = Rs. 6530.00/MT 60-62 % fines = Rs. 3712.8 /MT
9h	Scrutiny of Annual return on fixed assets	fixed assets Rs 537379239/-	fixed assets Rs 537379239/-	fixed assets Rs 537379239/-

9k	Scrutiny of Annual return on mining machineries	Rock drill = 1, Hydraulic Shovel =6, Dumper = 18, Loader = 3, Motor grader =1, Water Tanker = 2, Dozer =1	Rock drill = 1, Hydraulic Shovel =6, Dumper = 18, Loader = 3, Motor grader =1, Water Tanker = 2, Dozer =1	Rock drill = 1, Hydraulic Shovel =6, Dumper = 18, Loader = 3, Motor grader =1, Water Tanker = 2, Dozer =1
----	----------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

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