

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/BXT/KPT/MCDR-03/BBS

Mine code : 07ORI09005

- (i) Name of the Inspecting : **RKD**) **RAJESH KUMAR DAS**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Kathi Pradhan, Agent
Official with
Designation
- (iv) Date of Inspection : 14-SEP-23
- (v) Prev.inspection date : 14-OCT-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KODINGAMALI BAUXITE MINE**
- (b) **Registration NO.** : **4269**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : ORISSA
District : KORAPUT
Village : KODINGAMALI RF&PRF
Taluka : LAXMIPUR
Post office : LAXMIPUR
Pin Code : 765013
FAX No. : 06742396889
E-mail : info@orissamining.com
Phone : 06742396889
- (f) Police Station : Laxmipur
- (g) First opening date : 02-FEB-18
- (h) Weekly day of rest : SUN
2. Address for : Kodingamali Bauxite Mine
correspondance : KORAPUT
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked :

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 : HEMANT KUMAR SINGH
 KORAPUT ORISSA
 Phone:
 FAX :

Mining Engineer

Name : PIR MOHAN BEHERA, Full Time
 Qualification :
 Appointment/ : 14-MAR-18
 Termination date

Geologist

Name : T N PANIGRAHI, Full Time
 Qualification :
 Appointment/ : 15-MAR-18
 Termination date

Manager

Name : MANOJ KUMAR SETHI
 Qualification :
 Appointment/ : 14-MAR-18
 Termination date

6. Date of approval of Mining	:	MP modif under MCR 1960	11-APR-16
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	20-DEC-17
	:	MP modif under 17(3) MCR 2016	03-APR-20
	:	MP review under 17(1) MCR 2016	10-NOV-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Broadly the potential mineralised area already explored in G1.
1e	Balance reserve as on 01/04/20	67548550 Tons	70548550 Tons	The Production proposal is given for 6 million Tons but due to present EC limit is 3 million Tons therefore production achievement is 3 million Tons.
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E/W-718173-719489,N/S-2108610-2111760	Broadly within proposed area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	

2c	Stripping ratio or ore to OB ratio	1:0.3	1:0.15
2d	Quantity of topsoil generation in m3	91000	26500
2e	Quantity of overburden generation in m3	1810000	501290.337

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	
3b	Quantity of ROM mineral production proposed	6 million Tons	3 million Tons	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Threshold value:Al2O3 30%(min) & SiO2 value 7% (max)	Threshold value:Al2O3 30%(min) & SiO2 value 7% (max)	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NA
3j	Provision of drilling and blasting in mineral benches	150mm dia drilling proposal	As per proposal
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	77.027 ha.	59.340 Ha. reported
3n	Ore to OB ratio for the pit/mine during the year.	1:0.3	1:0.15
3o	Total area put in use under different heads at the end of year	223.527 ha.	110.260 ha.
3p	Production of ROM mineral during the last five year period as applicable	2018-19:3000000 Tons 2019-20:3000000 Tons 2020-21:6000000 Tons 2021-22:6000000 Tons 2022-23:6000000 Tons	2018-19:2700000 Tons 2019-20:3000000 Tons 2020-21:2999500 Tons 2021-22:3000000 Tons 2022-23:3000000 Tons

3q	General remarks of inspecting officers on method of mining etc.	The method of mining is by opencast method with Shovel-Dumper Combination and deep hole drilling blasting.
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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)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	waste dump: 2109191N-2109774N to 717611E-718001E & Subgrade/mineral reject stack 2107577N-2107888N to 717893E-718125E	Broadly as per proposal.	
4c	Number of dumps within lease area and outside of lease area	01 nos waste dump with in lease and outside Nil	01 nos waste dump with in lease and outside Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	inside UPL and proposed to rehandled for backfilling from 2023-24	Broadly as per proposal.	
4e	Number of active and alive dumps.	01 nos	01 nos	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	01 Nos	01 Nos	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	

4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall-410m & Garland drain-400m	Retaining Wall-695m & Garland drain-500m	
4j	Number of settling ponds	Nil	01 nos	
4k	Specific comments of inspecting officer on waste dump management			Waste dump management is broadly as per proposal.

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.	full extraction before starting backfilling.	Broadly as per proposal.	
5b	Area under backfilling of mined out area	6.9715 ha. reported	broadly backfilled with in proposed area	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	yes partly used and partly stored.	Broadly used as per proposal.	
5d	Total area fully reclaimed and rehabilitated	green belt proposed in 2.0 ha in backfilled area	broadly complied.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Broadly done within proposed area.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	Yes
6b	Area available for rehabilitation (ha) .	2.0 ha.	2.0 ha.
6c	afforestation done (ha).	2.0 ha. area	2.0 ha. area
6d	No. of saplings planted during the year	5000 nos	complied as per proposal.
6e	Cumulative no .of plants	16100 nos	17357 nos reported
6f	Any other method of rehabilitation	NA	NA
6g	Cost incurred on watch and care during the year	Rs.13,30,000/-	Rs 3,92,57,496/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Voids available for backfilling (L X B X D): 428m*186m*10	Actual work done 400m*145m*8.6m
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	6.97 Ha.	5.8 ha.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	2 Ha.	2 Ha.

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.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2 Ha.	2 Ha.	
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	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	As per Statutory requirement	As per Statutory requirement	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The PMCP proposals broadly complied.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Yes	Yes	
7d	Any beneficiation process at mines	No	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			During mine visit it was observed that low grade material is consumed blend with higher grade.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Partly stored and partly used for afforestation.	Broadly as per proposal.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	waste is used for backfilling	Broadly as per proposal.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Above backfilled area afforestation proposed	Broadly as per propopsal.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	16100 nos afforestation	17357 nos afforestation
8g	Survival rate	60%	95% reported
8h	Water sprinkling on roads to control airborne dust	Water tanker of 10 KL 8 nos proposed for water sprinkling to control dust.	Water tanker used for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The lessee as per proposal complied all environment protection measures i.e. plantation, water sprinkling for dust suppression, monitoring of Air, water, noise, etc therefore no such adverse impact observed on aesthetic beauty in and around mines area.

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per Rule	Submitted as per Rule	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Given as per actual.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	Broadly as per actual.	
9d	Scrutiny of Annual return on afforestation	5000 nos saplings		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject reported Nil	Subgrade stacking done.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	189725.663 tons of grade 40-45%Al2O3		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price Rs 1919.79/- ,Cost of production:Rs 1114.39/-		
9h	Scrutiny of Annual return on fixed assets	Rs 1282424338/- reported		

9k Scrutiny of The list of
Annual return on Mine
mining machineries
machineries given i.e.
Backhoe
capacity 1.2
to
3.6cum,Dumper
35 tons,Drill
m/c
150mm,Dozer ,wh
eel
loader,Water
tanker.etc

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 :**(RAJESH KUMAR DAS)**

Indian Bureau of Mines