

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Manoj Kumar Sethy, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 18/01/2020
- (v) Prev.inspection date : 28/09/2019

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 : 02/02/2018
- (h) Weekly day of rest : SUN
2. Address for : Kodingamali Bauxite Mine
correspondance : KORAPUT
3. (a) Lease Number :
- (b) Lease area : **428.025 ha**
- (c) Period of lease : **50 yrs**
- (d) Date of Expiry : **10.10.2067**
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/ : 14/03/2018
 Termination date

Geologist

Name : T N PANIGRAHI, Full Time
 Qualification :
 Appointment/ : 15/03/2018
 Termination date

Manager

Name : MANOJ KUMAR SETHI
 Qualification :
 Appointment/ : 14/03/2018
 Termination date

6. Date of approval of Mining	:	MP modif under MCR 1960	11/04/2016
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	20/12/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	24 nos of boreholes were proposed during the year 2018-19 to brought area under G1/G2 level.	Nil	the propsoed boreholes were drilled during the year 2019-20.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	110 nos of boeholes were propsoed during the plan period i.e. from 2017-18 to 2021-22.	Nil	the propose boreholes were drilled during the year 2019-20.
1e	Balance reserve as on 01/04/20	As per modification of Mining Plan approved on 20.12.2017, the balance reserve is 61.13 million tonne and resource is 16.38 milliont tonne.	Due to depletion/addition over the period of time the updated bauxite reserves as on 01.04.2019 are 58.377 Mil.t. and resources are 16.38 mil.t.	
1f	General remarks of inspecting officers on geology, exploration etc			Bauxite occurs as gently sloping or flat blanket capping the top of the Kodingamali hill over partially lateritised or weathered khondalites

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The development proposed advancement towards North & West diection.	carried out as per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench for overburden and minerals proposed. Top soil layer is very thin and no separate bench proposed.	separate benches in OB and mineral are maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.036 t/cu.m. during the year 2018-19.	1:0.16 t/cu.m.	deviation is due to irregular nature of ore deposit.
2d	Quantity of topsoil generation in m3	19000 cu.m.	79239 cu.m.	Nil
2e	Quantity of overburden generation in m3	110000 cu.m.	448571 cu.m.	Nil
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.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one during the year 2018-19.	one	
3b	Quantity of ROM mineral production proposed	3 mil.t. during the year 2018-19.	2.7 mil.t.	
3c	Recovery of sailable/usable mineral from ROM production	3 mil.t.	2.7 mil.t.	

3d	Quantity of mineral reject generation	No proposal.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Nil
3f	Quantity of sub grade mineral generation.	Not proposed.	Nil
3g	Grade of sub grade mineral generation	Not proposed.	Nil
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.	Not proposed.	Nil
3j	Provision of drilling and blasting in mineral benches	drilling and blasting is proposed.	drilling and blasting is carried out.
3k	Provision of mining machineries in mineral benches	shovel and dumper combination is proposed for excavation and hauling.	shovel and dumper combination is deployed for excavation and hauling.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 m	maintained.

3m	Total area covered under excavation/pits	As per modification of mining plan approved, the area covered under excavation at the end of plan period is 46.80 ha.	17.75 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.036 t/cu.m. during the year 2018-19.	1:0.16 t/cu.m.
3o	Total area put in use under different heads at the end of year	As per MPM the total area in excavation upto the end of the plan period is 79.5 ha	36.89 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18- 1.5 million tonne 2018-19- 3.0 million tonne	2017-18- 0.053 million tonne, 2018-19- 2.7 million tonne
3q	General remarks of inspecting officers on method of mining etc.		production is carried out by opencast mining method.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate Temporary dumping of OB & Top soil proposed. No proposal of generation of mineral rejects.	carried out.	

4b	Location of topsoil, OB and mineral reject dumps	Top-soil generated shall be stacked separately & preserved for later use for plantation & spreading over the backfilled area. Overburden/waste for 2017-18 & 2018-19 years of operations is envisaged to be stacked separately on the western side of Initial mining area, which is devoid of bauxite.	carried out as per proposal.
4c	Number of dumps within lease area and outside of lease area	one within lease area.	one within lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL
4e	Number of active and alive dumps.	one	one
4f	Number of dead dumps.	Not proposed.	Nil
4g	Number of dumps established.	Not proposed.	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	Construction of 500m retaining wall & garland drain proposed.	carried out.

4j	Number of settling ponds	1 proposed.	6	
4k	Specific comments of inspecting officer on waste dump management			The retaining wall and garland drain has been constructed around waste dump.

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.	Nil	
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)	Not applicable	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) .	Not applicable	Nil
6c	afforestation done (ha).	Not proposed.	1.3 ha
6d	No. of saplings planted during the year	Not proposed.	1400 nos
6e	Cumulative no .of plants		1400 nos
6f	Any other method of rehabilitation	Not applicable	Nil
6g	Cost incurred on watch and care during the year		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 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	Not applicable Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB.	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM is saleable. No grade wise sorting. Direct sale with sampling of grade.	ROM is saleable. No grade wise sorting. Direct sale with sampling of grade.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical
7c	Different grade of mineral sorted out at mines.	Not applicable	entire ROM produced is utilised for despatch.
7d	Any beneficiation process at mines	Not proposed.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The ROM is directly saleable no beneficiation required.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal of separate removal of topsoil and utilization of the same during backfilling/plantation has been proposed.	carried out.	
8b	Concurrent use or storage of topsoil	Proposed for concurrent backfilling after exhaustion of mineral	No area matured for backfilling	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate Temporary dumping of OB & Top soil proposed. No proposal of generation of mineral rejects.	carried out
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)	No proposal.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		1400 nos
8g	Survival rate		Not specified.
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul roads for dust suppression is proposed	carried out.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around the mine is maintained.

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.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer 3, Diploma Mining Engineer 6, Geologist 2	Graduate Mining Engineer 3, Diploma Mining Engineer 6, Geologist 2	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area in pit- 17.75 ha , Area under dump-3.68 ha	found to be in order.	
9d	Scrutiny of Annual return on afforestation	1400 nos	1400 nos	
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 Nil	ROM closing stock is Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production cost Rs.515.48	production cost Rs.515.48	
9h	Scrutiny of Annual return on fixed assets	Rs. 7478104	Rs.7478104	

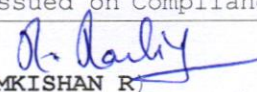
9k	Scrutiny of	SHOVEL	found to be in order.
	Annual return on	(HYDRAULIC)	
	mining	3.300 CUM	
	machineries	3, SHOVEL	
		(HYDRAULIC)	
		2.020 CUM	
		1, SHOVEL	
		(HYDRAULIC)	
		1.220 CUM 1	
		ROCK DRILL	
		(NONELEC.)	
		150.000 MM	
		2, DOZER	
		196.000 HP 1	
		etc.,	

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 : 21/7/2020

no violation


(RAMKISHAN R)

Indian Bureau of Mines