

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine	Meghare Bauxite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	55.060 Hect. 00.00 Hect. Forest Land 55.060 Hect. Non Forest Land
3	Mine code	07MSH12007
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/8579/2012
5	Name of the lessee, Address, phone, email and fax number	Shri Manohar V. Daryanani, 3/4, Vivekanad Society, TH Kataria Marg, Mahim, Mumbai 400016
6	Village	Meghare
7	Taluka/Mandal	Shriwardhan
8	District	Raigad
9	Pin code	402110
10	State	Maharashtra
11	Post office	Shriwardhan
12	Nearest police station	Shriwardhan
13	Nearest Railway station	Mangaon
14	Date of Grant of Mining Lease	29/12/2004
15	Date of Execution	11/03/2008
16	Date of opening of Mine	09/11/2008
17	Date of first Renewal, if applicable and its period & expiry	N/A
18	Date of second Renewal, if applicable and its period & expiry	N/A
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N/A
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Manohar V. Daryanani, 3/4, Vivekanad Society, TH Kataria Marg, Mahim, Mumbai 400016
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Jayant Jani, H. No 148, At Arathi, Post. Tal. Shriwardhan, Dist. Raigad, Maharashtra State, Pin 402110. Date of Appointment : 16/09/2009
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Pravin Kumar Pandey, H. No 148, At Arathi, Post. Tal. Shriwardhan, Dist. Raigad, Maharashtra State, Pin 402110.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Pravin Kumar Pandey, H. No 148, At Arathi, Post. Tal. Shriwardhan, Dist. Raigad, Maharashtra State, Pin 402110.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	No
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan - 08/11/2004 Ist. Modified Mining Plan – 31/07/2008 IInd. Modified Mining Plan – 29/02/2012
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Mining Scheme – 31/12/2013
27	Mineral(s) granted in lease and proved for mining	Bauxite

28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Non Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	05	03 non-core borehole 02 trial pit	As per SOM
1b	Exploration over lease area for Geological axis 1 or 2.	1 & 2	1 & 2	As per SOM.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	In House Exploration	In House Exploration	As per SOM.
1d	Balance area to be explored to bring Geological axis in 1 or 2	05 Boreholes	03 non-core borehole 02 trial pit	Balance area will be explored in coming year.
1e	Balance reserves as on 01.04.2015	Probable: 5, 60,402 T (121).	Probable: 4, 08,202 T (121).	As per UNFC code.
1f	General remarks of inspecting officer on geology, exploration etc.	The area is divided in two blocks by a valley and only one block is under operation. Full area needs to be explored in detail and proposed exploration of drilling 15 boreholes needs to be done in the area. Based on the outcome of the proposals, future exploration program may be decided.		

Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	North of lease.	Working continued from previous year of excavation.	Carried out as per SOM.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	In Ore 7m In OB 0.3m	No top soil generated.
2c	Stripping ratio or ore to OB ratio	Nil	Nil	No overburden generated.
2d	Quantity of topsoil generation in m3	Nil	Nil	No top soil generated.
2e	Quantity of overburden generation in m3	Nil	Nil	No overburden generated.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	As deepening of existing working has been done, no overburden or waste has been generated.		

Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	Merged into single pit.	As per SOM.
3b	Quantity of ROM mineral production proposed	76,329 T	73,000 T	As per EC limit.
3c	Recovery of salable/usable mineral from ROM production		73,000 T	As per EC limit.
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject is

SN	Item	Proposals	Actual work	Remarks
				generated.
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	NA
3f	Quantity of sub-grade mineral generation	Nil	Nil	NA
3g	Grade of sub-grade mineral generation	Nil	Nil	NA
3h	Manual / Mechanized method adopted for segregating from ROM	Yes	Mechanized	A category mine
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	NA
3j	Provision of drilling & blasting in mineral benches	Drilling & blasting using 110mm dia hole using slurry & ANFO in conjunction with delay detonators.	Nil	Ripper Dozer is used for mining.
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		7m in ore and 0.3m in waste/OB.	Waste/OB generation is negligible in quantity.
3m	Total area covered under excavation/pits		3.120 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	NA
3o	Total area put in use under different heads at the end of year		Reclaimed:0.099Ha Infrastructure:0.010Ha Plantation: 1.180 Ha Waste: 0.042 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2010-11 : 48000 T 2011-12 : 74934 T 2012-13 : 75411 T 2013-14 : 76329 T 2014-15 : 76329 T	2010-11 : 59350 T 2011-12 : Nil 2012-13 : 33000 T 2013-14 : 74500 T 2014-15 : 75500 T	
3q	General remarks of inspecting officer on method of mining etc.			

Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Nil	Nil	No top soil generated.
4b	Location of topsoil, OB & mineral reject dumps	Nil	Nil	No top soil/OB generated.
4c	Number of dumps within lease area and outside lease area	02 Within M. L. area	02 Within M. L. area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	02	02	
4g	Number of dumps stabilized	02	02	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	

4i	Length of Retaining wall or garland drain all along dump	70-80 m	70-80 m	
4j	Number of settling ponds	Nil		
4k	Specific comments of inspecting officer on waste dump management	Two small inactive waste dumps covering approximately 0.04 ha area and 668 cuM waste is existing within UPL and was proposed for backfilling of the excavation made in the non-mining zone as per the proposals in the approved SOM. Presently waste generated in very negligible.		

Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	0.0994 ha	0.099 ha	
5b	Area under backfilling of mined out area		0.099 Ha.	Reclamation is carried out.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	No top soil generated.
5d	Total area fully reclaimed & rehabilitated		0.099 Ha	Reclamation is carried out.
5e	General remarks of inspecting officer on backfilling, reclamation etc	Existing inactive dumps within UPL have been re-handled and utilized for backfilling.		

Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.			Not submitted
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	1.34 Ha 1496	1.18 Ha 800 no.	As per Annual Return (2014-15)
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	0.0994 ha area was proposed to be backfilled.	Backfilling and reclamation over 0.0994 ha area done.	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil		

SN	Item	Proposals	Actual work	Remarks
6e	Compliance of Environmental monitoring (core zone & buffer zone)		Yes	Regularly done.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations			

Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Grade-wise sorting within lease area is done.	
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	No	NA
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM generated is crushed and sorted size-wise and grade-wise through mechanical means by mobile crushing and screening machines. Afterwards the material is dispatched to the consignee. Grades mentioned were not as per the threshold values published by IBM (for mineral rejects).		

Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Negligible	
8b	Concurrent use or storage of topsoil	Yes	Negligible	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Will be done at the end of mine period.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	0.099 Ha	Reclamation is done.
8f	Baseline information on existence of plantation & additional plantation	Yes	1.18 Ha.	
8g	Survival rate	Yes	60 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Small quantum of top soil is available with lateritic content. Available soil has been spread over the backfilled area and plantation has been done. Rest top soil is being used for PMCP work as and when generated.		

Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto June-16 A.R. submitted upto 2015-16	

SN	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Dip. Mining Engineer -1, Surveyor – 1 (Partly)	Mining Engineer or Geologist not appointed as per Rule 42 of	

		Other Admin & Tech. Sup. Staff – 4	MCDR'88.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already Exploited – 1.219 Ha. Covered under Current Working – 3.120 Ha Reclaimed– 0.099Ha Waste Disposal - 0.042 Ha Plant, Build. Etc. – 0.010Ha Other (Plantation) – 1.180 Ha.	Abandoned area has been mentioned in the returns which is incorrect as per the inspection.	
9d	Scrutiny of Annual return on afforestation	800 no.	Yes, survival rate is less	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	No Mineral reject is generated.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM – 6,300 T Graded –542.635 T		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine & Sale Value – Rs. 280.00 Production Cost – Rs. 265.00		
9i	Scrutiny of Annual return on fixed assets	Rs. 1,28,000.00		
9k	Scrutiny of Annual return on mining machineries	Back Hoe – 2 Wheel Loader – 1 Dumper – 6 Rock Drill – 1 Dozer – 1		

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

Violation of Rule 13(1), 23(E)(2) and 45 (7) were earlier existing which have already been complied by the lessee on 29/08/2013. During the inspection by the undersigned, violation of rules 42 and 45(7) were observed and served to the lessee vide letter no. MAH/RGH/BX-14/NGP dated 16/10/2015.

(Ashish Mishra)
Assistant Controller of Mines
Nagpur Regional Office