

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine	Danda Bagmandala Saigaon Bauxite Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	148.468 Ha. 00.00 Ha. Forest Land 148.468 Ha. Non-Forest Land
3	Mine code	07MSH12006
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/10256/2012
5	Name of the lessee, Address, phone, email and fax number	M/S. Alatge Stone Crushing Industries Wyoming Co.Op HSG. Society Ltd, 4TH Floor, Flat No 4,12A, Little Gibs Road, Malabar Hill, Mumbai 400006
6	Village	Danda, Bagmandala, Saigaon
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	16/08/2003
15	Date of Execution	05/11/2003
16	Date of opening of Mine	07/01/2004
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 Chetan Shah, Wyoming Co.Op HSG. Society Ltd, 4TH Floor, Flat No 4,12A, Little Gibs Road, Malabar Hill, Mumbai 400006 Date of Appointment : _____
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	Birendra K. Sinha, H. No 148, At Arathi, Post. Tal. Shriwardhan, Dist. Raigad, Maharashtra State, Pin 402110. Date of Appointment : 20/10/2012
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	--
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	--
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan - 30/07/2003 Modified Mining Plan – 1/11/2006
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 – 06/05/2009 I Modified Scheme – 27/02/2014

27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Open cast, Underground)	Open cast
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	Nil (2013-14)	05 non-core borehole 02 trial pit & trenching is done respectively.	For Quality purpose.
1b	Exploration over lease area for Geological axis 1 or 2.	G1 & G2	G1 & G2	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	In House Exploration	In House Exploration	
1d	Balance area to be explored to bring Geological axis in 1 or 2	05 Boreholes	05 non-core borehole 02 trial pit	Balance area will be explored in coming year.
1e	Balance reserves as on 01.04.2015	4743919(121) 180590(122)	4743919(121) 180590(122)	As per SOM.
1f	General remarks of inspecting officer on geology, exploration etc.	Total 111 nos. of Bore holes are proposed to be drilled at 100m X 100 m grid interval in the lease area upto 2017-18-55 in 2016-17 and rest in 2017-18 as per the Scheme of Mining submitted. Compliance of the proposals shall lead to explore the complete area in detail.		

Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N & S of PIT G.	Developed	As per SOM.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No top soil	Overall 6m bench is developed.	As per SOM.
2c	Stripping ratio or ore to OB ratio	1:0.03	1:0.05	
2d	Quantity of topsoil generation in m3	NIL	NA	No top soil generated.
2e	Quantity of overburden generation in m3	5501 T	7,000 T	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Work done in the area is quite less as compared to the proposals.		

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	2010-11: 113280 T 2011-12: 115200 T 2012-13: 136800 T 2013-14: 143410 T 2014-15: 148501 T	2010-11: 57000 T 2011-12: 56300 T 2012-13: 57800 T 2013-14: 56300 T 2014-15: 56300 T	Production achieved is in the range of 38-50% of the proposals.

SN	Item	Proposals	Actual work	Remarks
3c	Recovery of salable/usable mineral from ROM production	-	56,300T	As per EC limit.
3d	Quantity of mineral reject generation	-	80,000T	
3e	Grade of mineral reject generation and threshold value declared		27-29% Alumina	
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	NA	-
3j	Provision of drilling & blasting in mineral benches	Drilling & blasting using 110mm dia hole using slurry & ANFO in conjunction with delay detonators.	Yes.	Blasting has been done.
3k	Provision of mining machineries in mineral benches	Yes	Yes	As per SOM.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	-	Yes 5.5m in Ore and 0.5m in OB.	Maintained as proposed in SOM.
3m	Total area covered under excavation/pits	-	18.010 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.03	1:0.05	
3o	Total area put in use under different heads at the end of year	-	Infrastructure:0.413Ha Plantation: 1.560 Ha Waste: 0.075 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2010-11: 113280 T 2011-12: 115200 T 2012-13: 136800 T 2013-14: 143410 T 2014-15: 148501 T	2010-11: 57000 T 2011-12: 56300 T 2012-13: 57800 T 2013-14: 56300 T 2014-15: 56300 T	
3q	General remarks of inspecting officer on method of mining etc.	Production achieved is in the range of 38-50% of the proposals.		

Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NIL	Yes	No top soil generated. OB & Mineral reject stacked separately.
4b	Location of topsoil, OB & mineral reject dumps	NIL	OB & Mineral reject generated are stocked separately.	Within Lease area.
4c	Number of dumps within lease area and outside lease area	NIL	04	OB & Mineral reject generated are stocked separately within the lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL		

4e	Number of active & alive dumps	NIL	04	OB & Mineral reject.
4f	Number of dead dumps	NIL	01	
4g	Number of dumps stabilized	NIL	Nil	Plantation has been done but it's in the process.
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	Yes	Are maintained along the dumps.
4i	Length of Retaining wall or garland drain all along dump	NIL	150m	
4j	Number of settling ponds	NIL	Yes	Inactive pits are used as settling pond.
4k	Specific comments of inspecting officer on waste dump management	Waste dump is being stabilized through plantation on slopes. Further, garland drains have been prepared to avoid any wash off.		

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	Nil	Yes	Work is done under PMCP
5b	Area under backfilling of mined out area	-	-	No pit has reached its limit for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NIL	-	No top soil generated.
5d	Total area fully reclaimed & rehabilitated	NIL	-	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Due to variation in grade, several small pits are there for grade control. No pit has reached its limit 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.	-	-	No
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	3.49 Ha 3935 no.	1.08 Ha 1200 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	NA	NA	-

SN	Item	Proposals	Actual work	Remarks
	iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	-	-	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	Regularly Done.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Mining in the area is not very systematic due to variation in grade and business environment. Lessee is complying the PMCP proposals through afforestation on the dead dumps within the lease area. Backfilling not yet done due to quality control measures.		

Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1,48,501 T	56,300 T (Mineral Reject of 80,000T).	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical		Mechanical	
7c	Different grade of mineral sorted out at mines		Yes	Grade-wise sorting within lease area.
7d	Any beneficiation process at mines	NIL	Nil	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.		

Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Negligible in quantity.	
8b	Concurrent use or storage of topsoil	Yes	Utilized.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Done	
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	Will be done at the end of mine period.	
8f	Baseline information on existence of plantation & additional plantation	Yes	1200 no. of sapling planted in 1.08 Ha area.	
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 slope of dead dump and plantation has been done.		

Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to June,2016 A.R. submitted up to 2015-16	Complied

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	Surveyor – 1 (Partly) Other Admin & Tech. Sup. Staff – 14	Incorrect	As per Rule 42, employment of Mining Engineer and geologist not furnished.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under Current Working – 18.010 Ha. Waste Disposal- 0.075 Ha. Plant, Build. Etc. – 0.413 Ha Other (Plantation) – 1.560 Ha Work done under PMCP – 1.532 Ha	Incorrect	Abandoned area has been mentioned whereas no such area is available.
9d	Scrutiny of Annual return on afforestation	1200 no.	Survival Rate needs to be mentioned and no. of survived plants need to be furnished.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Grade - 30-32 Quantity – 80,000.000 T	Incorrect	Reserves/Resources should be mentioned at the year-end incorporating the depletion during the year. But it has not been updated. Further, grade of the mineral rejects not clearly mentioned.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM – 24,180.370T Graded – 251.380 T	Correct	
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	Correct	
9i	Scrutiny of Annual return on fixed assets	Rs. 0.00		
9k	Scrutiny of Annual return on mining machineries	Back Hoe – 2 Wheel Loader – 1 Dumper – 6 Crusher – 1 Generator - 1 Rock Drill – 1 Dozer – 1	Correct	

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

During the inspection, violation of Rules 13(1), 42 and 45(7) was observed for which violation letter has already been issued vide letter no. MAH/RGH/BX-13/NGP dated 15/10/2015.

Prior to this, violation letter for violation of Rules 13(1), 23(E) (2) & 45 (7) was issued vide letter no. MAH/RGH/BX-13/NGP dated 21/11/2013 and due to non-compliance of violations, all the mining operations were suspended vide Order of Suspension no. MAH/RGH/BX-13/NGP dated 06/03/2014 under Rule 13(2) & 45(7). Upon compliance of the said violations, suspension of mining operations have been revoked vide letter no. MAH/RGH/BX-13/NGP dated 29/04/2014.

(Ashish Mishra)
Assistant Controller of Mines
Nagpur Regional Office