Report

1) Name of Inspecting officer:	Shri P. Prakash
2) Designation	Dy. Controller of Mines
3) Accompanying mine official with designation	Mr. P.P. Varma, Mines Manager
4) Date of Inspection	20.12.2017 along with Shri Kalmata M K, SMG, for processing of Modification of MP/Scheme
5) Date of Previous Inspection	13.02.2015 (SMG)

I. GENERAL INFORMATION

Sr. No	Particulars	Details
1	Name of the Mine	Umbershet Bauxite Mine
2	Total Lease Area (Ha)	99.86
3	Mine code	IBM/5370
4	IBM Registration Number under rule 45 of MCDR, 1988	07 MSH 20002
5	Name of the lessee, Address, phone, email and fax number	M/S. Ashapura Minechem Ltd. Jeevan Udyog Building, 3rd Floor, 278 D.N. Road Fort, Mumbai, Maharashtra - 400001
6	Village	Umbershet
7	Taluka/Mandal	Dapoli
8	District	Ratnagiri
9	Pin code	412717
10	State	Maharashtra
11	Post office	Kelshi
12	Nearest police station	Dapoli
13	Nearest Railway station	Khed
14	Date of Grant of Mining Lease	21/12/2004
15	Date of Execution	04/01/2005
16	Date of opening of Mine	04/01/2005
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Rajnikant B. Pajwani M/S. Ashapura Minechem Ltd. Jeevan Udyog Building, 3rd Floor, 278 D.N. Road Fort, Mumbai, Maharashtra - 400001
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Rajnikant B. Pajwani M/S. Ashapura Minechem Ltd. Jeevan Udyog Building, 3rd Floor, 278 D.N. Road Fort, Mumbai, Maharashtra - 400001
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri P. Purandhara Varma Umbershet Bauxite Mine, Vill-Umbershet, Post-Kelshi, Tal- Dapoli, Dist-Ratnagiri, Pin:415717 Date of Appointment: 06/10/2016
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri P. Purandhara Varma Umbershet Bauxite Mine, Vill-Umbershet, Post-Kelshi, Tal- Dapoli, Dist-Ratnagiri, Pin:415717 Date of Appointment: 06/10/2016
24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Pushpendra Kumar Mishra –Geologist Address: M/s Ashapura Minechem Ltd.,986, Annab Villa, Mandangad Road,Dapoli-415712 Maharashtra Date of appointment -07/07/2017

		Qualification-M.Sc. [Geology] Email-pushpendra@ashapura.com Mobile No. 9075025821
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 &carrying out their duties as per rule 43 & 44.	Yes, as per Rule
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Not Applicable
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	MSH/MAN-568(MAH)/GOA/2004-05 Dated 09/05/2014, (2014-15 to 2018-19)
28	Mineral(s) granted in lease and proved for mining	Bauxite
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Non Captive

II. SCIENTIFIC MINING

[i.r.o. *year (2016-17) or cumulative, as applicable.*]

Sl. No	Item	Proposals *(2016-17)*	Actual Work *(2016-17)*	Remarks
A. EXPLORATION:-				
1a	Backlog of Previous Year	42 TPs are proposed for full plan period	Nil	15 TPs are proposed till 31.03.2020
1b	Exploration Over Lease area for Geological Axis 1 or 2	42 TPs are proposed for full plan period	Nil	Surface right acquisition problem
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	-
1d	Balance area to be explored to bring Geological axis 1 or 2	--	Nil	About 32 hect, Surface right acquisition is in progress to do exploration in balance area
1e	Balance reserves as on 01/04/2017	--	--	(111) 4.092771 MT (121 & 122) 0.665020 MT
B. DEVELOPMENT:-				
2a	Location of development w.r.t. lease area	As per development plan	As per develop-ment plan	-
2b	Separate benches in topsoil, overburden and mineral	Mixed Bench of Top soil, OB and Mineral	Mixed Bench of Top soil, OB	Only one bench with top soil and

			and Mineral	mineral and intercalated waste of average 4 M height and Top soil and OB are concurrently used for backfilling and plantation.
2c	Stripping ratio or ore to OB ratio	1:0.1	1:0.2	-
2d	Quantity of topsoil generation in m3	NA	NA	-
2e	Quantity of overburden generation in m3	42770 M^3	38300 M^3	No specific OB is available whereas Intercalated waste is generated and concurrently used for Back filling
C. EXPLOITATION:-				
3a	Number of Pit Proposed for Production	1Pit	1 Pit	-
3b	Quantity of ROM mineral production proposed	0.643980 MT	0.239476 MT	production is less due to less demand for Bauxite in Domestic and International Market reported
3c	Recovery of Sailable/ Usable Mineral from ROM Production	0.5 MT	0.195329 MT	-
3d	Quantity of mineral reject generation	0.143980 MT	0.044147 MT	-
3e	Grade of mineral reject generation and threshold value declared	30%-35%	30%-35%	-
3f	Quantity of sub-grade mineral generation	Not Applicable	Not Applicable	-
3g	Grade of sub-grade mineral generation	Not Applicable	Not Applicable	-
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Beneficiation is proposed	---	No wet beneficiation is done but dry processing is carried out by Crushing and screening
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting is proposed using 115 mm DTH Drill and Class II explosive	No drilling and Blasting is carried out	The mine is worked by using Rock Breakers
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	Bench height proposed is 4 to 5 M	Average bench height is 4 to 4.5 M	-

3m	Total area covered under excavation/pits	6.2512 Ha	1.53 Ha	During FY 2016-17
3n	Ore to OB ratio for the pit/mine during the year	1:0.1	1:0.2	-
3o	Total area put in use under different heads at the end of year	31.6512 Ha	26.89 Ha	During FY 2016-17 less area reported utilized due to less production
3p	Production of ROM mineral during last five-year period, as applicable	FY 2014-15= 0.5838 MT FY 2015-16= 0.559 MT FY 2016-17= 0.64398 MT	FY 2014-15= 0.29058 MT FY 2015-16= 0.2848MT FY 2016-17= 0.239476 MT	Latest Mining Plan/scheme approved for (2014-15 to 2018-19)
D. SOLID WASTE MANAGEMENT - DUMPING:-				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	yes	yes	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	As per plan	As per plan	Some mineral reject is stored in pit due to area constraints
4c	Number of Dumps within Lease	Nil	Nil	No specific OB is available, Intercalated waste generated used for Back filling
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Not Applicable	Not Applicable	-
4e	Number of Active & Alive Dumps	Not Applicable	Not Applicable	-
4f	No of Dead Dumps	Not Applicable	Not Applicable	-
4g	No of Dumps Established	Not Applicable	Not Applicable	-
4h	Whether Retaining Wall or Garland drain along Dumps are there	Not Applicable	Not Applicable	-
4i	Length of Retaining Wall or Garland drain along Dumps	Not Applicable	Not Applicable	-
4j	No of Settling tanks	Not Applicable	Not Applicable	-
E. SOLID WASTE MANAGEMENT - BACKFILLING:-				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Full extraction of Mineral	Being fully extracted before starting the back filling	-
5b	Area under backfilling of mined out area	5.34 hect.	4.75 Hect.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	NA	--	Very less top soil is generated and used for plantation
5d	Total area fully reclaimed and rehabilitated	-	-	Total about 15.45 ha reported back-filled and planation carried out over the same
F. PROGRESSIVE MINE CLOSURE PLAN:-				
6a	Whether Annual report on PMCP submitted on time and correctly	-	Yes	
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	Not specified for a year	4.75 Ha 4.75 Ha 3200 Nos. 6264 Nos Nil Rs. 3,13,200/-	
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	Not Applicable	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Applicable	Not Applicable	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring will be carried out in core zone & buffer zone on quarterly basis	Environmental monitoring is carried out in core zone & buffer zone on quarterly basis	
G. MINERAL CONSERVATION:-				
7a	ROM mineral dispatch or grade wise sorting within lease area	---	Grade wise sorting	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Mechanical Crusher and screening	Crusher and screen is being used	
7c	Different grade of mineral sorted out at mines	Sorting will be done during the mining	Mineral of different grades are stocked separately	No Manual sorting is carried out, however crusher and screen is used for size segregation
7d	Any beneficiation process at mines	No wet beneficiation is proposed	No wet beneficiation	dry processing is carried out by Crushing and screening
H. ENVIRONMENT:-				
8a	Separate removal and utilization of topsoil	yes	yes	-
8b	Concurrent use or storage of topsoil	Top soil will be concurrently used	used for plantation	Very less top soil is generated
8c	Separate dumps for overburden, waste rock, rejects and fines	Not Applicable	NA	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The overburden generated will be used for backfilling the pits	The overburden is used to backfill the pits	Afforestation being done over the backfilled area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	As per proposal	As per proposal	-

8f	Baseline information on existence of plantation & additional plantation done	As per proposal	3200 Saplings were planted	-
8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling will be done via tankers.	Water sprinkling is done by mobile water tankers	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	--	satisfactory

III. COMPLIANCE OF RULE-45:-		
9a	Status of Submission of Monthly & Annual Returns	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual Return for year 2016-17 submitted and in general, the same is in order.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	
9d	Scrutiny of Annual return on afforestation	
9e	Scrutiny of Annual return on mineral reject generation	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	
9i	Scrutiny of Annual return on fixed assets	
9k	Scrutiny of Annual return on mining machineries	

IV. Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

Date of last inspection	Violation pointed out	Compliance reported
13.02.2015	Rule 13(1) & 46	Complied on 30.04.2015
20.12.2017	Nil	NA
On basis of office record	I.r.o. Rule 27(1), violation letter and S/c notice issued on 09.08.2017 & 13.09.2017 respectively.	Not complied, Mine suspended vide letter dtd. 30.01.2018.

(P. PRAKASH)
DCOM