

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

MCDR inspection REPORT

Goa regional office

Mine file No : MAH/RTG/BX-6/GOA

Mine code : 07MSH20002

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SHRI. GIRISH HEGADE (AGM OPERATION)**
Official with
Designation
- (iv) Date of Inspection : 20-MAR-20
- (v) Prev.inspection date : 15-MAY-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **UMBARSHET BAUXITE MINE**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MAHARASHTRA
District : RATNAGIRI
Village : UMBERSHET
Taluka : DAPOLI
Post office : KELSHI
Pin Code : 415717
FAX No. : rbp@ashapura.com
E-mail : 022-22074452
Phone : 022-66651700, +91982091170
- (f) Police Station : DAPOLI
- (g) First opening date : 20-JAN-05
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE-UMBERSHET, Post-Kelshi,
correspondance TALUKA-DAPOLI,
DISTRICT-RATNAGIRI, PIN-415712
3. (a) Lease Number : MSH0312
- (b) Lease area : 99.86
- (c) Period of lease : 50
- (d) Date of Expiry : 03-JAN-55
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : ASHAPURA MINECHEM LIMITED
 278, 3rd FLOOR, JEEVAN
 UDYOG BUILDING, D.N. ROAD,
 FORT, MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone:022-66651700, +919820911703
 FAX :022-22074452

Owner : CHETAN N. SHAH
 JEEVAN UDYOG BUILDING, 278,
 D.N. ROAD, FORT, MUMBAI -
 400 001. GREATER BOMBAY
 MAHARASHTRA
 Phone: 022- 66651700
 FAX : 022-22074452

Agent : Rajnikant Pajwani
 Ashapura Minechem Ltd,
 Jeevan Udyog Building, 3 rd
 floor, 278 DN Road, Mumbai
 RATNAGIRI MAHARASHTRA
 Phone:
 FAX :

Mining Engineer

Name : Chandrasekhar Aikat, Full Time
 Qualification : B.E. (Mining) 2nd Class Certificate
 Appointment/ : 01-JUL-13 30-AUG-13
 Termination date

Geologist

Name : Shakti S. Dhage, Full Time
 Qualification : M.Sc (Geology)
 Appointment/ : 26-APR-11
 Termination date

Manager

Name : Avinash G Naik
 Qualification : BE Mining
 Appointment/ : 30-AUG-13
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	16-DEC-04
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	26-JUL-06
	:	Mining Scheme rule 12 MCDR1988	01-JUL-11
	:	MP modif under MCR 1960	09-MAY-14
	:	MP review under 17(1) MCR 2016	14-FEB-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	42 TPs are proposed for full plan period	15 TPs are completed	42nos. of trial pits were proposed in the earlier approved MMP valid upto 31.3.2019. However, such exploration was not carried out in the year 2018-19 reportedly due to land aquisition issue. In the current approved RMP, such exploration were rescheduled in the year 2019-20 and 15 TPs were completed.
1b	Exploration over lease area for geological axis 1 or 2	42 TPs are proposed for full plan period in the year 2018-19.	15 TPs are completed till date	The RMP for the next 5 years from 2019-20 has approved, and above such exploration were also rescheduled in the year 2019-20.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	By own resources
1d	Balance area to be explored to bring Geological axis in 1 or 2	Ha. 22.57	about 10Ha tiil date	It is committed/briefed by lessee representative during inspection that the Surface right acquisition is in progress and exploration will be completed within plan period
1e	Balance reserve as on 01/04/20		Reserve as on 1.4.2019 under 111 Category is 4.323 MT	

1f	General remarks of inspecting officers on geology, exploration etc	42 trial pits were rescheduled in the current RMP for the year 2019-20	15 nos. of pits were reportedly undertaken till date of inspection. It is further committed/briefed by lessee representative during inspection that the Surface right acquisition is in progress and exploration will be completed within plan period.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1982990, To N 1983136 E 297631, E 298167	As per the report Mines was non operative for production after June 2019 due to lack of market demands and costing basis.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Mixed Bench of Top soil, OB and Mineral	Mixed Bench of Top soil, OB and Mineral	Only one bench with top soil and 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	As pe the proposal	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	14571 CUM 2018-19	6633 CUM	Less achievement as the Mines was suspended by IBM from 30.01.2018 and was revoked on 8.10.2018.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mines was suspended by IBM from 30.01.2018 and was revoked on 8.10.2018. and further, reported that mines was non productive in the current year after the month June2019 due to management discision on costing.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one pit	one pit	
3b	Quantity of ROM mineral production proposed	0.603800 MT	0.092870 MT	Less achieved in the year 2018-19as the mines was suspended by IBM w e f 30.01.2018 and revoked on 8.10.2018.
3c	Recovery of sailable/usable mineral from ROM production	0.5 MT	0.092870 MT	
3d	Quantity of mineral reject generation	0.103800 MT	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	30-35%	NIL	Blended for cement grade.
3f	Quantity of sub grade mineral generation.	Not aplicable	Not aplicable	
3g	Grade of sub grade mineral generation	Not aplicable	Not aplicable	
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	NIL	
3j	Provision of drilling and blasting in mineral benches	drilling and Blasting 115 mm DTH	No drilling and Blasting was reprtdedly carried out	Rock Breakers is used in hard strata
3k	Provision of mining machineris in mineral benches	yes	yes	HEMM Dozer ,Shovel ,dumpe r etc
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	yes	4-5 mtr

3m	Total area covered under excavation/pits	5.6805 Ha	1.70Ha	During the year 2018-19
3n	Ore to OB ratio for the pit/mine during the year.	1 :0.1	As proposed	
3o	Total area put in use under different heads at the end of year	As on 1.4.2019:- Under Mining 18.21 Ha Storage-0.10 ha	Open cast workin-19.91 ha R&rehabilitated-16.52 ha cumm. PMCP during the year 3.39 ha	The above figures are as per the approved RMP &AR 2018-19.
3p	Production of ROM mineral during the last five year period as applicable	2014-15= 0.5838 MT 2015-16= 0.559 MT 2016-17= 0.643980 MT 2017-18=0.544200 MT 2018-19=0.6038 MT	2014-15= 0.29058 MT 2015-16= 0.2848 MT 2016-17= 0.239476MT 2017-18=0.191751 MT 2018-19=0.092870 MT	Figure as per the MP and AR.
3q	General remarks of inspecting officers on method of mining etc.		Mines was operated by using deployment of HEMM with rock breaker in hard strata.	

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	No specific OB is available, the Intercaldted waste is generated and concurrently used for Back filling and top soil used for plantation.
4b	Location of topsoil, OB and mineral reject dumps	OB is proposed for back filling and top soil used for plantation	OB is used for back filling and top soil used for plantation	
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	Concurrent backfilling
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	NIL	

4e	Number of active and alive dumps.	NIL	NIL
4g	Number of dumps established.	Not applicable	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable
4j	Number of settling ponds		OB/intercalated waste is used for back filling.
4k	Specific comments of inspecting officer on waste dump management		Not maintaining the waste dump. As the overburden/ Intercalated waste are used for backfilling in the mined out area.

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	Full extraction	
5b	Area under backfilling of mined out area	5.00 Hect.	3.39 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil associated with waste in very small quantity	Top soil associated with waste in very small quantity and being used for plantation.	
5d	Total area fully reclaimed and rehabilitated	16.62 Ha for the plan period.	About 16.52 Ha area were reported as backfilled/reclaimed	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Intercalated waste/OB is being used for backfilling and planation is being carried out in the backfilled area for R&R.	

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).	Before 1st July 2019.	Submitted for the year 2018-19	
6b	Area available for rehabilitation (ha) .	5.0Ha	3.39 ha	
6c	afforestation done (ha).	1.88 Ha	0.17 Ha	Less achievd as Mine was suspended by IBM from 30.01.2018 and revoked on 8.10.2018
6d	No. of saplings planted during the year	1500	500	
6e	Cumulative no .of plants		11180 Nos	
6f	Any other method of rehabilitation	Nil	Nil	Backfilling of mined out pit with OB/waste and plantation.
6g	Cost incurred on watch and care during the year		Rs. 1,71,000/-	As per the figure reported by party.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	5.00 Ha	1.01 ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	5.00 Ha	1.01 ha	Mines was not opered full year in the year 2018-19.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	1.88 Ha	3.39 ha	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Not applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	As per the MP	Environmental monitoring is being carried out in core zone & buffer zone on quarterly basis.	Reports were found in order.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Reclamation and Rehabilitation is being carried out by backfilling of waste material ; spreading,ripping,levelling and plantation after exhaustion of minerals.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sizing and screening	Grade wise sizing and screening is being carried out within the lease area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines.	Metal grade and cement grade based on buyers requirement.	Metal grade and cement grade is being sorting out based on buyers requirement.
7d	Any beneficiation process at mines .	No proposal wet beneficiation	Dry processing by Crushing and screening is being carried out.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Dry processing by Crushing and screening is being carried out.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	Very less top soil associated with waste is generated and used for plantation.
8b	Concurrent use or storage of topsoil	No proposal	Very less top soil associated with waste is generated and used for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The overburden proposed for backfilling the mined out area..	The overburden is being used to backfilling the mined out area..	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	As per proposal in MP	Yes	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1500	500 Saplings were planted	As the mining operation was suspended from 30.01.2018 and revoked on 8.10.2018 by IBM.
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Satisfactory. Developed fruits bearing plantation near the mines office area.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to february 2020 AR Submitted for the year 2018-19.	MR Submitted up to february 2020 AR Submitted for the year 2018-19.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- P.P Verma Geologist - Mr. Pushpendra Mishra	Manager- Suraj Naik Geologist - Mr. Pushpendra Mishra	Notice for Change/ appointment of Manager/ mining Engineer recieved on 20.11.2019.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total Exploited Area=19.91 Ha, Total Reclaimed/Rehabilitated Area=16.52 Ha(3.39 Hect area fully R & R)	Total Exploited Area=19.91 Ha, Total Reclaimed/Rehabilitated Area=16.52 Ha(3.39 Hect area fully R & R)	

9d	Scrutiny of Annual return on afforestation	500 Nos. Plants	500 Nos. Plants reported	
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	As per the AR 2018-19 ROM closing stock- 97253.4 tons Graded ore 40-45 % Al2O3 - 34299.74 tons Cement Grade - 57796.31 tons	As per the AR 2018-19 ROM closing stock- 97253.4 tons Graded ore 40-45 % Al2O3 - 34299.74 tons Cement Grade - 57796.31 tons	Checked the details.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine for Matal Grade - 607.03 Rs/T Ex Mine for Cement grade 308.52Rs/T Production Cost- 726.30Rs/T	Observed cost of production is higher than the ex mine price.	Violation issued
9h	Scrutiny of Annual return on fixed assets		Net Closining balance of fixed assets -2436134 Rs.(Land)	
9k	Scrutiny of Annual return on mining machineries	Furnished	Shovel 03 nos Wheel loader 1 Tipper 08 water tanker 02(6000Ltr)	

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 45(7)(a)	12-MAY-20			

Date :

(SURESH PRASAD)

Indian Bureau of Mines