

**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 : 15/05/2019
- (v) Prev.inspection date : 13/10/2018

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 : 20/01/2005
- (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 : 03/01/2055
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/ : 01/07/2013 30/08/2013
 Termination date

Geologist

Name : Shakti S. Dhage, Full Time
 Qualification : M.Sc (Geology)
 Appointment/ : 26/04/2011
 Termination date

Manager

Name : Avinash G Naik
 Qualification : BE Mining
 Appointment/ : 30/08/2013
 Termination date

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|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 16/12/2004 |
| Plan/Scheme of Mining | : | Modif.of approved Mining Plan | 26/07/2006 |
| | : | Mining Scheme rule 12 MCDR1988 | 01/07/2011 |
| | : | MP modif under MCR 1960 | 09/05/2014 |
| | : | MP review under 17(1) MCR 2016 | 14/02/2019 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--------------------|--|---|
| 1a | Backlog of previous year | 42 Trial pits | NIL | 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 current approved RMP, such exploration were rescheduled in the year 2019-20. But , not started so far, therofere violation letter issued. |
| 1b | Exploration over lease area for geological axis 1 or 2 | 42 nos. trial pits | NIL. As communicated by the party that,due to surface right issue not done so far. | 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 current approved RMP, such exploration were rescheduled in the year 2019-20. But , not started so far, therofere violation letter issued. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NIL | NIL | Inhoue proposal was made. |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | About 32 Hect. | Nil | 42 trial pits proposed to cover the area. However, not started so far. |
| 1e | Balance reserve as on 01/04/20 | | Reserve as on 1.4.2019 under 111 Category is 4.323 MT | |

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| 1f | General remarks of inspecting officers on geology, exploration etc | 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 current approved RMP, such exploration were rescheduled in the year 2019-20. | But , the exploration was not started so far, therofere violation letter issued. |
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Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|--|---|
| 2a | Location of development w.r.t.lease area | As proposed in the modification of MP.(between the section lines 297867 to 297967) | Deviation observed w r t proposal | violation letter issued for rectification of deviation. |
| 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 made of consisting top soil, mineral and intercalated waste of average height about 4 m. |
| 2c | Stripping ratio or ore to OB ratio | 1:0.1 | 1:0.1 | |
| 2d | Quantity of topsoil generation in m3 | No proposal | NIL | Only one bench made of consisting top soil, mineral and intercalated waste of average height about 4 m. |
| 2e | Quantity of overburden generation in m3 | 14571 CUM | 6633 CUM | Less achievment 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 | | Observed deviation withrespect to the proposed place of working. | Violation issued for the deviation. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|---|---|--|--|
| 3a | Number of pit proposed for production | one pit | one pit | |
| 3b | Quantity of ROM mineral production proposed | 0.603800 MT | 0.102157 MT | Less achieved as 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 | 0.102157 MT | Satisfactory |
| 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 proposed using 1 15 mm DTH Drill and Class 11 explosive | No drilling and Blasting was carried out | Rock Breakers is used for excavation in hard strata. |
| 3k | Provision of mining machineris in mineral benches | Yes | Yes | |

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| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes | Yes | One bench consisting of mixed with top soil, interclatedwaste and ROM for the average 4m height. |
| 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 | 1 :0.1 | |
| 3o | Total area put in use under different heads at the end of year | 5.6805 Ha | 1.70 Ha | During FY 2018-19 less area consumed reported due to less production. Mines was suspended by IBM from30.01.2018 and revoked on 8.10.2018.Figure given as reported by party during inspection and not surveyed by IBM. |
| 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=0.102157 MT | Figure as per the MP and AR. |
| 3q | General remarks of inspecting officers on method of mining etc. | | In the year 2018-19 mines was suspended during the period from 30.01.2018 and was revoked on 8.10.2018. Thus, production was less in the year. | |

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 Intercladted waste is generated and concurrently used for Back filling and top soil used for plantation. |

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|----|--|--|---|---|
| 4b | Location of topsoil, OB and mineral reject dumps | OB is used for back filling and top soil used for plantation | OB is used for back filling and top soil used for plantation | Mineral reject/ROM were stacked in different location without safeguarding the substantial environmental protective measures to control from the washoff of material. Violation issued. |
| 4c | Number of dumps within lease area and outside of lease area | NIL | Nil | OB is used for back filling and top soil used for plantation |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Not applicable | Not applicable | OB is used for back filling and top soil used for plantation |
| 4e | Number of active and alive dumps. | NIL | NIL | OB/intercalated waste is used for back filling. |
| 4f | Number of dead dumps. | Not applicable | Not applicable | |
| 4g | Number of dumps established. | Not applicable | Not applicable | As,OB is used for back filling and top soil used for plantation |
| 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 | As OB is used for back filling in the mined out area. |
| 4k | Specific comments of inspecting officer on waste dump management | | Not maintaining the waste dump. As the overburden/ Intercalated waste generated are used for backfilling in the mined out area. | |

Solid Waste Management - Backfilling:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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| 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. | 1.01 Hect. | Achieved less as the mine was suspended by IBM on 30.01.2018 and revoked on 8.10.2018. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Top soil associated with waste in very small quantity | Very less quantity top soil is being generated and used for plantation in the backfilled area. | |
| 5d | Total area fully reclaimed and rehabilitated | 16.62 Ha for the plan period. | About 16.52 Ha area were reported as backfilled/reclaimed and about 3.39 Ha is reclaimed and rehabilitated | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | In the year 2018-19 less area achieved for backfilling & plantation. Intercalated waste/OB is being used for backfilling and plantation is being carried out in the backfilled area. | |

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. | Yet to submit as the due date is not matured. | |
| 6b | Area available for rehabilitation (ha) . | 5.0Ha | About 1.01 Ha | Less achieved as Mine was suspended by IBM from 30.01.2018 and revoked on 8.10.2018 |

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| 6c | afforestation done (ha). | 1.88 Ha | 0.17 Ha | Less achieved 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 Nos. | 500nos. | Less achieved as Mine was suspended by IBM from 30.01.2018 and revoked on 8.10.2018 |
| 6e | Cumulative no .of plants | 33500 Nos | 1 1 180 Nos | Figure given as per the figure reported by part. |
| 6f | Any other method of rehabilitation | Nil | Nil | Backfilling of mined out pit with OB/waste and plantation. |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | 5.00 Ha | 1.01 ha | Less achieved as Mining operation was suspended by IBM from 30.01.2018 and revoked on 8.10.2018 |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | 5.00 Ha | 1.01 ha | backfilled area reclaimed by spreading waste material & levelling . |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | 1.88 Ha | 0.17 Ha | The achieved afforsatation area was less as the mining operation was suspended from 30.01.2018 and revoked on 8.10.2018 by IBM. |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | Not applicable | Not applicable | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | Not applicable | Not applicable | |

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|----|---|----------------|--|-------------------------|
| 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 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 |
|--------|---|--|---|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | crushing and screening within lease area. | 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. | Mechanically sorting of material in grade wise | Mechanically sorting of material is being carried out. | Metal grade and cement grade is being sorting out based on buyers requirement. |
| 7d | Any beneficiation process at mines | No proposal | Dry processing by Crushing and screening is being carried out. | |

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| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | Dry screening and crushing is being carried out as proposed. | Satisfactory. |
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Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No proposal | 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 | No specific OB is available , Intercalated waste is generated and concurrently used for Back filling and top soil used for plantation. | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | The overburden as generated is proposed for backfilling the pits | The overburden is being used to backfill the mined out area.. | Afforestation on backfilled area is being carried out. |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | As per proposal in MP | Yes | After exhaustion of minerals, backfilling and reclaiming by spreading,ripping and levelling the area and followed by planation is in practiced. |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 1500 Nos. | 500 Nos. | Less achieved as the mining operation was suspended from 30.01.2018 and revoked on 8.10.2018 by IBM. |
| 8g | Survival rate | 80% | 80% | |

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| 8h | Water sprinkling on roads to control airborne dust | Yes | Yes | Water tanker used for water sprinking. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | Satisfactory. | |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|--|
| 9a | Status of submission of Monthly and Annual returns | MR Submitted up to the month April-2019 AR Submitted up to year 2017-18 | The Annual Returns for the year 2018-19 not submitted as the due date is not matured. | As the last due date for submission of Annual returns 2018-19 is 30 June 2019. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | The Annual Returns for the asesment year 2018-19 was not submitted by the party till date of inspection. (Last due date for submission is 30 June 2019). | The scrutiny of Annual return for the year 2017-18 was already undertaken by this Office during the previous ispection. The appointment of Mining Engineer has not fullfill the experience as required under the rule ; therefore violation pointed out for the same. | Thus, the scrutiny of monthly returns for the months January, February and March 2019. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | | Scrutiny of Monthly returns January, Feburuary and March 2019 were carried out. Further, it is observed from the office record that the descepenencies of previous inspections in respect of returns were still pending with the lessee. Lessee has requested additional time to comply the deficiencies. | The outstanding deficiencies were also indicated in the current violation letter. |

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 |
| MCDR17 Rule 11(1) | 24/05/2019 | | | | |
| MCDR17 Rule 45(7)(a) | 24/05/2019 | | | | |
| MCDR17 Rule 55(1)(3) | 24/05/2019 | | | | |

Date :

(SURESH PRASAD)

Indian Bureau of Mines