

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Tenpur Bauxite Mines, Survey No-Majham River
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. Kaushikkumar Pandya, Lessee & Sh. Bhavin Pandya
1(d)	Type of Inspection	Star Ratings (For evaluation of online templates)
1(e)	Date of Inspection	19.01.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area- 02.05.00 ha (Non forest area)
3	Mine Code	07GUJ14019
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/11171/2012
5	Name of the lessee, Address, phone, email and fax number	Kaushikkumar Bhogilal Pandya 51/52 Giriraj Campus, Opp. Jain Temple, At.Po. Bayad, Dist. Aravalli, Pin – 383 325 Mo.: +91-9428773891 Email: pandyakaushikkumar@gmail.com
6	Village	Tenpur
7	Taluka/Mandal	Bayad
8	District	Aravalli
9	Pincode	383 325
10	State	Gujarat
11	Post office	Ambaliyara
12	Nearest police station	Ambaliyara
13	Nearest Railway station	Bayad
14	Date of Grant of Mining Lease	15/04/1983
15	Date of Execution	18/07/1983
16	Date of opening of Mine	18/07/1983
17	Date of first Renewal, if applicable and its period & expiry	15/07/2002 – Applied for the Renewal 02/02/2018 – Renewal Order by Govt. of Gujarat up to 17/07/2033 as per MMDR Amendment Act,2015
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name of the Nominated Owner- Bhavin Kaushikkumar Pandya Address- 51/52 Giriraj Campus, Opp. Jain Temple, At.Po. Bayad, Dist. Aravalli – 383 325 Mo: +91-9724606727 Email- mineohms@gmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	NA
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Takhatram Suthar (B.E. Mining) (O). Sakar, 124, Opp. Charak Hostel, Udaipur, Rajasthan – 313 001 Mo: +91-7874135421 Date of Appointment: 06/11/2017
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Mining Engineer Geologist appointed to satisfy the rule 55 & carrying out their duties as per rule 56 & 57 of MCDR,2017.

25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining Plan was approved vide letter No-682(23)(MS-501)/2009MCCM(N) UDP dtd 29.09.16
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of Mining was approved vide letter No-682(23)(MS-501)/2009MCCM(N) UDP dtd 17.10.14
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Category A OTFM
30	Captive/Non Captive	Non-Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

Exploration

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
1a	Backlog of previous year	Not Proposed	Open Pits are available.	One (1) Borehole was proposed to drill in the year 2017-18
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	NIL	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No exploration was proposed during the year 2016-17	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration proposed	NIL	
1e	Balance reserves as on 01.04.2016	Total Mineral reserve 1)Proved Mineral Reserve(111) =1,43,324 MT 2)Probable Mineral reserve(122) =33,767 MT Total-1,77,091MT	Total Mineral reserve 1)Proved Mineral Reserve(111) =1,38,489 MT 2) Probable Mineral reserve(122) =33,767MT Total-172256MT	
1f	General remarks of inspecting officer on geology, exploration etc.	All the explorations carried out in the past properly highlighted in approved Scheme of Mining		

2.0 Development

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
2a	Location of development w.r.t. lease area	Area of Mining Proposed is from 50W to 75E & 150N to 60N.	Mine working done as per the proposed locations also worked in other area partly where no proposals were given.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top soil = NIL OB= 2 to 3 Mts Mineral Bauxite = 5 to 6Mts	Top soil = NIL OB= 2 to 3 Mts Mineral Bauxite = 6 to 7Mts	
2c	Stripping ratio or ore to OB ratio	1:0.053	1:0.053	
2d	Quantity of topsoil generation in m ³	Not Proposed	Nil	
2e	Quantity of overburden generation in m ³	3665 CuM	1699 CuM	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Nil		

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
3a	Number of pits proposed for production	Pit no. 1 is proposed with an area marked as 0.855 Ha.	Mine working during the year carried out as proposed location.	Mining operation stopped during the period 20.06.17 to 26.04.18 by District Geologist
3b	Quantity of ROM mineral production proposed	71896 MT 100004 MT (in 2017-18)	67573 MT 54882 MT (till Dec-17)	
3c	Recovery of saleable/usable mineral from ROM production	90% recovery proposed & 10% as waste	90% recovery proposed & 10% as waste	
3d	Quantity of mineral reject generation	Not proposed	NIL	
3e	Grade of mineral reject generation and threshold value declared	No mineral rejects. Threshold value Min 30% of Al ₂ O ₃	No mineral rejects generated as material is being consumed up to threshold value of 30% of Al ₂ O ₃	
3f	Quantity of sub-grade mineral generation	Not Proposed	NIL	
3g	Grade of sub-grade mineral generation	Not Proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual and Semi mechanised Method	Manual and Semi mechanised Method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	No such study carried out by the lessee	
3j	Provision of drilling & blasting in mineral benches	Not Proposed	NIL	
3k	Provision of mining machineries in mineral benches	Breaker-0.4M ³ Hydraulic Backhoe-.4M ³ Tipper-10 tn capacity	Breaker-0.4M ³ Hydraulic Backhoe-.4M ³ Tipper-10 tn capacity	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.0mtr, 6.0mtr and 9.0mtr.	3.0 to 8.1mtr. Achieved during proposed working	
3m	Total area covered under excavation/pits	Pit-1.32 Ha Mineral Stack-0.18Ha Infrastructure-0.13Ha	Pit-1.08 Ha Mineral Stack-0.1304Ha Infrastructure-0.13Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0.05	
3o	Total area put in use under different heads at the end of year	Pit no.-1 = 0.855 Ha Waste dumps-0.002 Ha Road-0.8 Ha Others-0.35Ha	Pit no.-1 =0.53 Ha Waste dumps-0.002Ha Road-0.8 Ha Others-0.35Ha	
3p	Production of ROM mineral during last four-year period, as applicable	Yr-2014-15: 13229 MT Yr-2015-16: 20062 MT Yr-2016-17: 71896 MT Yr-2017-18: 100004 MT	Yr-2014-15: 24219MT Yr-2015-16: 29865MT Yr-2016-17: 67573MT Yr-2017-18: 54882MT	

3q	General remarks of inspecting officer on method of mining etc.	Nil
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4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Dumping proposed near pillar-1 & location marked on Plate 6&9	OB dumped at earmarked location	
4b	Location of topsoil, OB & mineral reject dumps	Dumping proposed near pillar-1 & location marked on Plate 6&9	OB dumped at earmarked location	
4c	Number of dumps within lease area and outside lease area	Proposed 1 dump within lease area	OB dumped at earmarked location	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside UPL	Done outside UPL	
4e	Number of active & alive dumps	OB Dump-1 No Mineral Stack-1 No	OB Dump-1 No Mineral Stack-1 No	
4f	Number of dead dumps	Not Proposed	NIL	
4g	Number of dumps stabilised	Not Proposed	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	NIL	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	NIL	
4j	Number of settling ponds	Not Proposed	NIL	
4k	Specific comments of inspecting officer	Nil		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	3665 CuM	Only 600 MT achieved during the year and staked it separately	
5b	Area under backfilling of mined out area	Not Proposed	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	NIL	
5d	Total area fully reclaimed & rehabilitated	0.855 Hect.	0.533 Hect.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2).	Yes	Yes submitted Annual report on PMCP in time.	

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 proposed	NIL							
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	0.855 Hect.	0.533 Hect.							
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA							
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Year 2016-17 <table border="1"> <tr> <td>Ambient air quality</td> <td>One</td> </tr> <tr> <td>Water Quality</td> <td>One</td> </tr> <tr> <td>Noise Level survey</td> <td>One</td> </tr> </table>		Ambient air quality	One	Water Quality	One	Noise Level survey	One	Year 2016-17 Ambient Air Quality Monitoring done Quarterly once in year (Except Monsoon Season) Water analysis done quarterly once in a year Noise measurement done quarterly once in a year (Except Monsoon Season)
Ambient air quality	One									
Water Quality	One									
Noise Level survey	One									
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL								

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	71896 MT, Grade-wise sorting within lease area proposed	65055 MT as Cement grade and 2409 MT as Chemical grade sorted within the mining lease area done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting proposed	Manual sorting done for desired grade	
7c	Different grade of mineral sorted out at mines	Usually this bauxite is hand sorted within the lease to achieve different grade	Hand sorting within the lease for different grade, such as Cement grade (Low grade) and Chemical grade done.	

7d	Any beneficiation process at mines	Not Proposed	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal & Utilization of top soil propose	Separate removal & Utilization of top soil done	
8b	Concurrent use or storage of topsoil	Proposed	Done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Provisions of separate stacking of OB dumps given	Very less OB generated during the year and it is dumped separately	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden used for backfilling purposes & plantation & road repairing work proposed	Yes, Implemented.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes, Proposed	Yes, implemented at mine areas.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Afforestation-Each year 20 saplings are proposed over 300 m ² over border barrier area.	Total 100 nos. of sapling planted in 0.1 ha over borderline area.	
8g	Survival rate	30 Sapling proposed Survival Rate- 80%	30 saplings planted out which 20 survived. Survival Rate- Achieved 65%	Low survival due hard weather condition
8h	Water sprinkling on roads to control airborne dust	It is proposed to sprinkling water on haul road	Sprinkling of water on haul done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto –June-2018 A.R. submitted upto- Year 2016-17 on 12.12.2017	Submitted

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr. Takhatram Suthar appointed as ME	Mining Engineer was present during the inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-1.32 Ha Mineral Stack-0.18Ha Infrastructure-0.13Ha	Pit-1.08 Ha Mineral Stack-0.1304Ha Infrastructure-0.13Ha	Mine representatives were advised to
9d	Scrutiny of Annual return on afforestation	30 Sapling proposed Survival Rate- 80%	30 saplings planted out which 20 survived. Survival Rate- Achieved 65%	

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Proposed	Nil	submit the AR online meticulously and should furnish correct costing, Ex-mine price, etc. as per IBM guidelines in future.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	We have given detail Of ROM stock and/or graded ore in Annual Return 2016-17	Stock quantity furnished in Annual return	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cement Grade-700/MT Refractory-700/MT Chemical- 700/MT Cost of Prodn-450/MT	Cement Grade-700/MT Refractory-700/MT Chemical- 700/MT Cost of Prodn-450/MT	
9i	Scrutiny of Annual return on fixed assets	NA	NA	
9k	Scrutiny of Annual return on mining machineries	Breaker-0.4M3 Hydraulic Backhoe-.4M3 Tipper-10 tn capacity	Breaker-0.4M3 Hydraulic Backhoe-.4M3 Tipper-10 tn capacity	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -The last inspection of mine was carried out on dtd 12.05.2016 and violations of rules 13(1), 15(1&2), 16(2) & 23E(2) were observed. This inspection was carried out for evaluation of online templates filled by the lessee for the year 2016-17. During the inspection as such no violations were pointed as the mining operations were stoped/closed by the District Geologist from 20.06.2017 to 26.04.2018.
