

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Dedhrota Bauxite Mine, Survey No-335/1(P)
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. Ketan Patel, Lessee Representative, & Sh. Latif Mansuri, Qualified Person
1(d)	Type of Inspection	Modified Mining Plan
1(e)	Date of Inspection	22.12.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	20.0 Ha. (Govt. Waste Land) Forest- Nil
3	Mine code	07GUJ14023
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/9298/2012
5	Name of the lessee, Address, phone, email and fax number	Sh. Alimiya Imamali Saiyad FF/16, Samruddhi Complex, Near L.I.C. Office, Himmatnagar, Dist-Sabarkantha-383001 (Gujarat), Email:dipak18.patel@yahoo.com, Mobile no. 9979858114
6	Village	Dedhrota
7	Taluka/Mandal	Himmatnagar
8	District	Sabarkantha
9	Pin code	383001
10	State	Gujarat
11	Post office	Dedhrota
12	Nearest police station	Dedhrota
13	Nearest Railway station	Himmatnagar
14	Date of Grant of Mining Lease	10.09.1985
15	Date of Execution	24.11.1986
16	Date of opening of Mine	31.08.2017
17	Date of first Renewal, if applicable and its period & expiry	Lessee had applied renewal application on 30.06.2008 but renewal application was rejected by the State Govt. on ground that lessee had submitted ML renewal application after expiry of lease period.
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	Sh. Alimiya Imamali Saiyad FF/16, Samruddhi Complex, Near L.I.C. Office, Himmatnagar, Dist-Sabarkantha-383001 (Gujarat), Email:dipak18.patel@yahoo.com, Mobile no. 9979858114
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	NA
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	NA
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan :- 29.09.2016 Vide letter No. 682(23)(831)/2015-MDRD)/UDP dt.29.09.2016 Period :- From 2016-17 to 2018-19
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Bauxite

28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Semi Mechanised
30	Captive/Non Captive	Non-Captive

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

Exploration

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
1a	Backlog of previous year	No Proposals	20 Borehole drilled during the year 2016-17	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposals	20 Borehole drilled during the year 2016-17 for Geological axis-1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposals	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposals	Nil	Balance area to be explored as 6.06Ha
1e	Balance reserves as on 01.04.2017	Reserves: Probable (121)-1304514MT Probable (122)-596920MT Resources Inferred (333)-985212	Reserves: Proved (111)-2572167MT Probable-Nil Resources Inferred (333)-650150	
1f	General remarks of inspecting officer on geology, exploration etc.	During the year 2016-17 exploration carried in systematic manner & as per the provisions of MEMC Rules,2015		

2.0 Development

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
2a	Location of development w.r.t. lease area	Excavation proposed from 30E to 121E & 638N to 792N with proposed 103mRL to 100mRL	Mine working done over the proposed locations with minor deviations.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposals	Excavation carried out in by 2 benches in mineral	No Top soil & Overburden encountered in ML area
2c	Stripping ratio or ore to OB ratio	No Proposals	Nil	No Overburden encountered in ML area
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	No top encountered
2e	Quantity of overburden generation in m3	No Proposals	Nil	No OB encountered in ML area
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Deposit is more or less lateritic bauxite in nature. No top soil of OB encountered in lease area. Pits are being developed in systematic manner.		

3.0 Exploitation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	Single pit excavation was proposed by formation of 2 benches	Working carried out as per the proposals	
3b	Quantity of ROM mineral production proposed	(2017-18):- 100005MT (2018-19):-150007MT	(2017-18):- 100918MT (2018-19):- 147943MT (Till Dec-2018)	Minor excess production during 2017-18
3c	Recovery of salable/usable mineral from ROM production	100% Recoverable as Non Plant Grade	Achieved as per the proposals	
3d	Quantity of mineral reject generation	No Proposals	Nil	Entire bauxite is salable as Non Plant

3e	Grade of mineral reject generation and threshold value declared	No Proposals	NA	grade above threshold value
3f	Quantity of sub-grade mineral generation	No proposals	Nil	
3g	Grade of sub-grade mineral generation	No proposals	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposals	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposals	NA	
3j	Provision of drilling & blasting in mineral benches	By 65/110 DTH drill, Atlas Compressor & DTH drill J/H	By 65/110 DTH drill, Atlas Compressor & DTH drill J/H	
3k	Provision of mining machineries in mineral benches	Excavator/JCB-0.50M3 Tippers-20MT Water Tanker-5KL Dewatering pump-05HP	Excavator/JCB-0.50M3 Tippers-20MT Water Tanker-5KL Dewatering pump-05HP	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of 3.0m for two benches proposed	3.0-3.5m height achieved in Ore.	No OB encountered as material above threshold consumed.
3m	Total area covered under excavation/pits	4.389 Ha.	2.32 Ha.	4.389Ha proposed for 2016-17 to 2020-21
3n	Ore to OB ratio for the pit/mine during the year	No	Nil	No OB encountered
3o	Total area put in use under different heads at the end of year	Pit- 3.86 ha. Mineral Storage-0.20 OB dumps-2.31 ha. River-0.122Ha	Pit- 1.41 ha. Mineral Storage-0.25 Infrastr-0.0129 ha. Road-0.6404Ha	Mining operation started during the year 2017-18
3p	Production of ROM mineral during last five-year period, as applicable	2014-15: NA	2014-15: Nil	Mining operations started from 2017-18
		2015-16: NA	2015-16: 45017.47 MT	
		2016-17: 50062MT	2016-17: Nil	
		2017-18: 100005MT	2017-18 :100918 MT	
		2018-19:150007MT	2018-19:147943 (till Dec-18)	
3q	General remarks of inspecting officer on method of mining etc.	Mining operations were carried out by deploying Excavator & tipper combination.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposals	No top soil, OB or mineral rejects generated encountered in lease area	No top soil, OB, mineral reject encountered during mining operation
4b	Location of topsoil, OB & mineral reject dumps	No Proposals	NA	
4c	Number of dumps within lease area and outside lease area	Not proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NA	
4e	Number of active & alive dumps	Not proposed	NA	
4f	Number of dead dumps	Not proposed	NA	
4g	Number of dumps stabilised	Not proposed	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	NA	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	NA	
4j	Number of settling ponds	Not proposed	NA	
4k	Specific comments of inspecting officer	No top soil, OB, mineral reject encountered during mining operation as the ore above threshold value of >30% Al ₂ O ₃ consumed fully as non-plant grade		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposals	Mineral not exhausted in any pit so far to start backfilling	
5b	Area under backfilling of mined out area	No Proposals	Nil	Mineral not exhausted in any pits
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposals	NA	No top soil encountered in ML area.
5d	Total area fully reclaimed & rehabilitated	No Proposals	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	As on date mineral not exhausted in any pits, hence scope of this aspect presently doesn't exist.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.	To be submitted before 1st July of every year	Report not submitted within time limit as per prescribed format.	Violation of Rule 26(2) pointed for its rectification
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	No Proposals	Nil	Date of re-opening of mine was 31.08.2017.
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	No Proposals	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	30 Saplings	15 Saplings planted with 50% Survival rate	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environment monitoring proposed	Ambient Air, Surface water, Noise monitoring is being carried out.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Mining operations started from the year 2017-18 and working on PMCP proposals was not that much satisfactory.		

7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2017-18 :100005 MT 2018-19:150007MT	2017-18: Production-100918MT & dispatch quantity- 1406.84MT 2018-19: Production147943MT till Dec-18	
7b	Method of grade-wise mineral	Manual	Manual	

	sorting i.e. manual or mechanical			
7c	Different grade of mineral sorted out at mines	On need basis sorting of ore is proposed	Cement & Plant grade	Mostly deposit is of Non plant grade bauxite.
7d	Any beneficiation process at mines	No Proposals	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire bauxite ROM bauxite ore is being consumed as Non Plant Grade (NGP grade) and lateritic bauxite in nature. Occasional sorting is proposed.		

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposals	Nil	No top soil encountered
8b	Concurrent use or storage of topsoil	No Proposals	N.A.	--do--
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposals	N.A.	No OB, Mineral reject encountered
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	30	15 saplings planted during the year	
8g	Survival rate	100 %	50.0 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling over mines haul road proposed	Being done as per the proposals	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is not satisfactory as very limited saplings have been planted. Needs more attention on this aspect. Benefit of adjoining river may be taken as source of water for planting more saplings.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Monthly and Annual returns	M.R. not submitted till the last month of inspection i.e. Nov- 2018 A.R. submitted upto- 2017-18	

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	Not given	It was ensured about the appointment Mining Engineer & Geologist as per rule 55 of MCDR,20107	During the inspection it was advised to Mine representative to submit the AR & MR correctly for correct cost of production & Ex mine price as per the guidelines in future.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Pits area-1.007	
9d	Scrutiny of Annual return on afforestation	Not Given	NA	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Given	Not Applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stocks- 99511.160MT	Stocks of 99511.160MT mostly of Cement grade bauxite ore	

9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Given	Ex-mine reported as Rs-34/MT in AR appears to be incorrect & accordingly point out violation. Cost of production is reported as Rs-233/MT is also appears to be incorrect.	Further, violations for rules 26(2), 31(4), 35(2), 45(5)(b), 46, & 54(a) were pointed & accordingly violation letter was issued.
9i	Scrutiny of Annual return on fixed assets	Not Given	Not furnished any information & pointed during inspection.	
9k	Scrutiny of Annual return on mining machineries	Given	JCB 3D Excavator/ Loader, Rock Breaker, Jack Hammer with drill machine, and dumper combination being adopted.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -As per the office records, no details have been found regarding last inspection. This inspection was carried out in connection with examination of Modified Mining Plan and during inspection violations of rules 26(2), 31(4), 35(2), 45(5)(b), 46, & 54(a) were pointed out and accordingly violation letter was issued.

Remarks: Dy. Director General, MMS, Division, Nagpur had written letter to the Commissioner, Geology & Mining Dept, Gandhinagar on dtd 07.03.2019 regarding low Ex-mine price of Rs-236/MT reported by the lessee. In this matter RCOM, Gandhinagar also sent a letter to the Commissioner, Geology & Mining Dept, Gandhinagar on dtd 13.03.2019 to take appropriate action in this regard.
