

INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Tenpur Bauxite Mines
1(b)	Name of Inspecting Officer & Designation	Darshan Deep Bhardwaj, Senior Asst. Controller of Mines
1(c)	Accompanying Mines Representatives	Mr. Jayeshbhai M. Patel (Legal Heir) & Mr. Govind Patel
1(d)	Type of Inspection	Review of Mining Plan
1(e)	Date of Inspection	22.11.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	2.22 Ha. (Govt. Waste Land) Forest- Nil
3	Mine code	07GUJ14017
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/8483/2012
5	Name of the lessee, Address, phone, email and fax number	Shri Jayeshbhai M. Patel Legal Heir of Lessee (Late) Shri Muljibhai B. Patel Address :-At & PO- Tenpur, Taluka- Bayad Dist.-Arvalli-383325, Gujarat (India) Phone-+91-9978130826, Email:- gbpatel2014@yahoo.com
6	Village	Tenpur
7	Taluka/Mandal	Bayad
8	District	Junagadh
9	Pin code	362255
10	State	Gujarat
11	Post office	Tenpur
12	Nearest police station	Bayad
13	Nearest Railway station	Rakhiyal Railway Station
14	Date of Grant of Mining Lease	11-04-1983
15	Date of Execution	10-10-1983
16	Date of opening of Mine	11-10-1983
17	Date of first Renewal, if applicable and its period & expiry	10-10-2003, 20 Years. 09-10-2023
18	Date of second Renewal, if applicable and its period & expiry	10-10-2023, 10 Years. 02-02-2018. However, it extended till 08-11-2033 as per Section 8A (6) of the MMDR Amendment Act, 2015
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Second Renewal:01-09-2003, Extended now upto 31-03-2020 (vide letter no. MCR-1583-(T20)-7001-Chh-1 dated on 06.06.2017)
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Jayeshbhai M. Patel Legal Heir of Lessee (Late) Shri Muljibhai B. Patel Address :-At & PO- Tenpur, Taluka- Bayad Dist.-Arvalli-383325, Gujarat (India) Phone-+91-9978130826, Email:- gbpatel2014@yahoo.com Date of Appointment – 11-10-2017
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Jayeshbhai M. Patel Legal Heir of Lessee (Late) Shri Muljibhai B. Patel Address :-At & PO- Tenpur, Taluka- Bayad Dist.-Arvalli-383325, Gujarat (India) Phone-+91-9978130826, Email:- gbpatel2014@yahoo.com Date of Appointment – 11-10-2017
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	No Mines Manager has been appointed and Mine is already under suspension
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment	No Mines Manager has been appointed and Mine is already under suspension

	in mine	
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Details not available, Mines is already under suspension
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 Scheme of Mining :- 14-05-2015 Vide letter No. 682(23)(672)/2009-MCCM(U) Period :- From 2015-16 to 2017-18
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	NA	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.6845 Ha (G3)	NA	
1e	Balance reserves as on 01.04.2018	In Million tones Bauxite (Cement Grade) Proved-0.21153	In Million tones Bauxite (Cement Grade) Proved-0.202943	
1f	General remarks of inspecting officer on geology, exploration etc.	Detailed Explorations to be proposed in the entire area to ascertain the in-situ quantity of cement grade Bauxite available to meet the criteria/norms 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	For Bauxite: N: 150N to 25N & E: 25W to 46 E	Mine working done over the proposed location with very minor variation.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes, proposals for separate benches of top soil, overburden and mineral	Yes, in actual top soil, overburden and mineral benches kept separately.	
2c	Stripping ratio or ore to OB ratio	0.81 cum/T	0.81 cum/T	

2d	Quantity of topsoil generation in m ³	338 m ³	340	
2e	Quantity of overburden generation in m ³	1690 m ³	2000m ³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of all working pits to be carried out in more systematic manner as per the given proposals in approved MP		

3.0 Exploitation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	In 3 (Three) pits as earmarked on all relevant plates	Mine working is done as per the proposals in 3 pits	
3b	Quantity of ROM mineral production proposed	Bauxite- 11,154 tonnes	Bauxite- 12,690 tonnes	
3c	Recovery of salable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	1115.4 tonnes	1269 tonnes	
3e	Grade of mineral reject generation and threshold value declared	Grade of Mineral Reject: Al ₂ O ₃ % <28%; Threshold value: Al ₂ O ₃ % <30%;	Grade of Mineral Reject: Al ₂ O ₃ % <28%; Threshold value: Al ₂ O ₃ % <30%;	The mineral rejects will be used tactfully for blending with high grade of material
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Hole Dia- 32mm, spacing - 1.5m, burden-1.5m, use of slurry(both column and base charge)	The Rock breaker is used instead of Drilling and blasting	As the in-situ rock is soft in nature, drilling and blasting was not adopted.
3k	Provision of mining machineries in mineral benches	1. JCB (0.800 CUM, 75 HP)-01 2. TRACTOR WITH TROLLEY SYSTEM (5T, 20 HP) -02 3. TIPPERS (10T, 50HP)-08 4. JACK HAMMER (32 mm dia, 50 HP)-03	1. JCB (0.800 CUM, 75 HP)-01 2. TRACTOR WITH TROLLEY SYSTEM (5T, 20 HP) -02 3. TIPPERS (10T, 50HP)-02	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	0.49 Ha.	1.204 Ha.	The variation due to increasing in the production quantity.
3n	Ore to OB ratio for the pit/mine during the year	1:0.81	1:0.81	No OB

3o	Total area put in use under different heads at the end of year	Pit- 0.49 ha. Infrastructure, road- 0.012 ha. Others (Mineral Stack & Plantation)-0.05 ha.	Pit- 1.2044 ha. Infrastructure, road-0.0673 ha. Others (Mineral Stack & Plantation)-0.2153 ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2015-16: 10,388.4 MT	2015-16: 10,910 MT	ROM-Bauxite (Cement Grade)
		2016-17: 11,127.6 MT	2016-17: 17,656.79 MT	
		2017-18: 11,154 MT	2017-18: 12,690 MT	
3q	General remarks of inspecting officer on method of mining etc.	Un-Systematic benching pattern noticed during the inspection.		

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)	It was proposed to dump OB and mineral separately	The separate dumping of mineral reject and OB is maintained at site.	The top soil is continuously used for plantation purpose thus no separate stack for Top soil is maintained.
4b	Location of topsoil, OB & mineral reject dumps	It was proposed to dump OB and mineral reject near pillar B-7	Bauxite Mineral reject stack is formed near Pillar No. 1 (Old Pillar B-6) to further sell it to nearby cement plants	The mineral stack has been shown on Surface Plan
4c	Number of dumps within lease area and outside lease area	One number of dump is proposed near pillar B7	1 No. of mineral stack is made (near Pillar No. 1 (Old Pillar B-6) within the lease area. Nothing is disposed outside the lease.	The stack is temporary in nature as the mineral reject is regularly being used for blending with high grade.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Between	Between E-637300m to E-637740m & N-2325100m to N-2325310m	The stack is temporary in nature as the mineral reject is regularly being used for blending with high grade.
4e	Number of active & alive dumps	NA	Active & Alive: 1 mineral stack (Near Pillar No. 1)	--do--
4f	Number of dead dumps	NA	NA	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer	No top soil, OB, mineral reject encountered during mining operation hence most items are indicate as "not applicable"		

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	Mineral extracted	Mineral extracted	No backfilling is proposed
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	0 Ha	0.04 Ha	By plantation in the green belt area
5e	General remarks of inspecting officer on backfilling, reclamation etc	No comments		

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.	Yes	No	
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	NA	NA	
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	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.1 ha by planting 100 sapling (developing green belt)	0.1 ha by planting 50 sapling (developing green belt)	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes, Quarterly (Rs. 10,000)/Annum cost	Yes (Rs. 10,000) /Annum cost	Air, Water and Noise monitoring is being done on yearly basis.
6f	General remarks of inspecting officer on PMCP compliance & progressive	No Comments		

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	11,154 T	12690 Tonnes (Bauxite production quantity)	Cement grade Bauxite: 12690 T
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	The ROM (Bauxite) is directly sold to the Cement Plant for cement manufacturing.
7c	Different grade of mineral sorted out at mines	Al ₂ O ₃ >30 %	Al ₂ O ₃ >30 %	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to remove top soil separately and use it for plantation	Top soil removed during the year has been used for plantation purpose	
8b	Concurrent use or storage of topsoil	Concurrently it was proposed to be used for plantation	Concurrently it was proposed to be used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It was proposed to dump OB and mineral reject near pillar B-7	Bauxite Mineral reject stack is formed near Pillar No. 1 (Old Pillar B-6) to further sell it to nearby cement plants. OB dump is also maintained near B-6 Pillar	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB was proposed to be used for backfilling material at the end of conceptual period.	As the mine has not reached to its limit so backfilling is not initiated.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	N/A	N/A	
8g	Survival rate	N/A	N/A	
8h	Water sprinkling on roads to control airborne dust	No	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Not submitted A.R. submitted upto- Not submitted	Violation is issued to lessee

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	Not given	Annual returns not submitted and hence Violation is issued to lessee
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not given	Not given	
9d	Scrutiny of Annual return on afforestation	Not given	Not given	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not given	Not given	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not given	Not given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Not given	Not given	
9i	Scrutiny of Annual return on fixed assets	Not given	Not given	
9k	Scrutiny of Annual return on mining machineries	Not given	Not given	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - This mines is already under suspension vide this office order dated 25.07.2018 .This inspection was carried out in connection with examination of Review of Mining Plan and during inspection violation of rules 11(1), 35(2).45(5)(b) 45(5)(c) were found and accordingly violation letter was issued on 29.11.2018.



Darshan Deep Bhardwaj
Senior Asst. Controller of Mines
