

## MCDR INSPECTION REPORT

## 1.0 General

SN	Particulars	Details
1(a)	Name of the Mine	Taiyabpur Bauxite Mines (S. No.37P)
1(b)	Name of Inspecting officer	Dr. Debajyoti Nayak
1(c)	Date and Type of Inspection	SDF/Star Rating
1(d)	Accompanying officer	Mr. Brijesh Patel
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	ML Area: 0.8499 ha Non-forest: 0 ha forest land: 0.8499 ha Survey Nos.: 37P
3	Mine code	07GUJ09021
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/8481/2012
5	Name of the lessee, Address, phone, email and fax number	M/s Mahendra Bauxite, 15/A Shivam Park Society, Dakar Road, Kapadwanj, Kheda District, Gujarat-387620 9377762434, mahendra_bauxite@yahoo.com
6	Village	Sorna
7	Taluka/Mandal	Kaparwanj
8	District	Kheda
9	Pin code	387620
10	State	Gujarat
11	Post office	Kaparwanj
12	Nearest police station	Kaparwanj
13	Nearest Railway station	Kaparwanj
14	Date of Grant of Mining Lease	06.2.1992
15	Date of Execution	09.3.1993
16	Date of opening of Mine	1993
17	Date of first Renewal, if applicable and its period & expiry	07.2.2012, 09.03.1913 to 08.03.2033
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	(Expiry-08.3.2043 As per MMDR Act 2015 )
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Brijeshbhai Rajeshbhai Patel, M/s Mahendra Bauxite, 15/A Shivam Park Society, Dakar Road, Kapadwanj, Kheda District, Gujarat-387620 9377762434, Mahendra_bauxite@yahoo.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Brijesh Patel, M/s Mahendra Bauxite, 15/A Shivam Park Society, Dakar Road, Kapadwanj, Kheda District, Gujarat-387620 9377762434, mahendra_bauxite@yahoo.com
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	Part time Mining Engineer appointed.

24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Part time Mining Engineer and Geologist appointed.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Scheme of mining was approved vide letter no 682(23)/(332)MCCM(N)/1992/UDP Dated-30.10.1992 , Review of Mining plan with PMCP approved on 22.05.2018 for period 2018-19 to 2022-23
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/523/2009 MCCM(N)UDP Dated-28.6.2010 for 2010-11 to 2012-13
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Open cast, Underground)	Open cast Mining
29	Category (Fully Mechanised, Others or Manual)	Mechanised
30	Captive/Non Captive	Non-Captive

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

### 1.0 Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	No backlog of previous year	NA	Total lease area (0.8499 ha) has been explored in G1 level.
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	NA	
1e	Balance reserves (Million Tonnes) as on 01.04.2023	As per UNFC Balance reserves (Million Tonnes) as on 01.04.2023 is 111-0.048266, 121- 0.0 and 122- 0.0.		
1f	General remarks of inspecting officer on geology, exploration etc.	Total lease area (0.8499 ha) has been explored in G1 level. No valid Mining Plan exists for the year 2023-24.		

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Not Proposed	NA	No valid Mining Plan exists for the year 2023-24. Pit location : 23° 2'26.78"N, 73° 4'9.67"E.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not Proposed	NA	
2c	Stripping ratio or ore to OB ratio	Not Proposed	NA	
2d	Quantity of topsoil generation in m <sup>3</sup>	Not Proposed	NA	
2e	Quantity of overburden generation in m3	Not Proposed	NA	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No mining operation was carrying out at the time of inspection. No valid Mining Plan exists for the year 2023-24, hence a violation issued under Rule 11(4) of MCDR 2027.		

**3.0 Exploitation**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	Not Proposed	NA	No valid Mining Plan exists for the year 2023-24. Hence no exploitation work is carried out in 2023-24. Total one no of pit found in the mine, size of the pit is 0.59 Ha. Some part of the pit filled with water. Pit location : 23° 2'26.78"N, 73° 4'9.67"E.
3b	Quantity of ROM mineral production proposed	Not Proposed	NA	
3c	Recovery of salable/usable mineral from ROM production	Not Proposed	NA	
3d	Quantity of mineral reject generation	Not Proposed	NA	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	NA	
3f	Quantity of sub-grade mineral generation	Not Proposed	NA	
3g	Grade of sub-grade mineral generation	Not Proposed	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	NA	
3j	Provision of drilling & blasting in mineral benches	Not Proposed	NA	
3k	Provision of mining machineries in mineral benches	Not Proposed	NA	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not Proposed	NA	The total area utilized Under mining -0.59 ha area, as per the drone data analysis.
3m	Total area covered under excavation/pits	Not Proposed	NA	
3n	Ore to OB ratio for the pit/mine during the year	Not Proposed	NA	
3o	Total area put in use under different heads at the end of year	Not Proposed	NA	Total area put in use under different heads till now as follows, Under mining-0.59 ha Infrastructure-0.018 ha Plantation-0.228
3p	Production of ROM mineral during last five-year period, as applicable	Yr 2022-23-16996 T Yr 2023-24-No Mining plan	Yr 2022-23-16991 Yr 2023-24-NA	No valid Mining Plan exists for the year 2023-24, So, no ROM production reported in 2023-24.
3q	General remarks of inspecting officer on method of mining etc.	The mining was carried out as open cast working. No valid Mining Plan exists for the year 2023-24. So no mining operation carried out in 2023-24.		

**4.0 Solid Waste Management-Dumping**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not Proposed	NA	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	NA	
4c	Number of dumps within lease area and outside lease area	Not Proposed	NA	
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 valid Mining Plan exists for the year 2023-24. So no Solid Waste Management activity carried out in 2023-24.		

**5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	NA	
5b	Area under backfilling of mined out area	Not Proposed	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	NA	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No valid Mining Plan exists for the year 2023-24. So no Solid Waste Management activity carried out in 2023-24.		

**6.0 Progressive Mine Closure Plan**

6.5 Progressive Mine Closure Plan				
SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly	Not submitted correctly	The reported total area used in different heads is greater than the lease area.	Violation issued under rule 45(5)(c) rw 45(7).
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 Not Proposed Not Proposed Not Proposed Not Proposed	(ii) 0.1 ha. (iii) 50 no. of saplings planted during the year (iv) 25 no. of plants	No valid Mining Plan exists for the year 2023-24. The cumulative number of surviving plants is significantly low, and no protective measures, such as fencing and retaining wall around the mine pit, were implemented as proposed in the previously approved mining plan. Hence, a violation of Rule 11(1) has been issued.
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	Not Proposed	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Not applicable	Not applicable	
6f	General remarks of inspecting officer on PMCP compliance & progressive	No valid Mining Plan exists for the year 2023-24. Still the lessee did some plantation work in the lease area.		

**7.0 Mineral Conservation**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise	Not Proposed for sorting.		Previously

	sorting within lease area	Dispatch-21547.154 Tonnes	stocked minerals were dispatched during 2023-24.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Proposed	NA
7c	Different grade of mineral sorted out at mines	Not Proposed	NA
7d	Any beneficiation process at mines	Not Proposed	NA
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No valid Mining Plan exists for the year 2023-24. Only dispatch carried out in FY 2023-24 after taking permission from the State Government.	

**8.0 Environment**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NA	
8b	Concurrent use or storage of topsoil	No proposal	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No proposal.	Baseline information on existence of plantation -15 no. additional plantation done- 10 no.	
8g	Survival rate	No details given in MP	25%	
8h	Water sprinkling on roads to control airborne dust	No proposal	NA	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The mine is surrounded by farming lands.		

**9.0 Compliance of Rule 45**

Sl.No.	Item	COMMENTS	Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to March-2025 A.R. submitted for the FY 2023-2024 on 28.06.2024	

Sl.No.	Item	Details GIVEN in A.R	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist partly employed.	Mine not in operation.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. (Ha)	Under mining-0.59 ha Infrastructure-0.018 ha Plantation-0.228	Under mining-0.59 ha Infrastructure-0.018 ha Plantation-0.228 ha	
9d	Scrutiny of Annual return on afforestation	Total no. of trees planted during the year 2023-24 is 50.	Actual survived plated trees are 10.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No details given	NA	

9f	Scrutiny of Annual return on ROM stock and/or graded ore (Tonne)	10906.456 Tonne	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value-849.207 rupees/tonne Ex. Mine price- 850 rupees/tonne Production cost-398.0 rupees/tonne	No production reported in 2023-24, but in AR 23-24 production cost reported-398.0 rupees/tonne	Violation issued under Rule 45(5)(c) rw 45(7).
9i	Scrutiny of Annual return on fixed assets	No details given	NA	
9k	Scrutiny of Annual return on mining machineries	Back hoe, Dumper & Water Tanker	No mining operations and dispatch were carrying out during inspection.	

#### 10-Details of violations observed during current inspection and compliance position of earlier violation pointed out:

As per the official records, there is currently one violation pending Rule 45(5)(b) read with 45(7) of MCDR 2017.

The MCDR/SDF inspection of the aforementioned mine was conducted on December 24, 2024.

The following violations have been identified based on the submitted records and field inspection under Rules 11(1), 11(4), 27, 28, 34(A) and 45(5)(c) rw 45(7) of MCDR 2017.

The drone/Satellite data not submitted for FY 2023-24.

The lessee has submitted star rating in offline format for FY 2023-24.

Dr. Debajyoti Nayak  
Junior Mining Geologist  
Indian Bureau of Mines