

## MCDR INSPECTION REPORT (Star Rating)

### 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	MEWASA BAUXITE MINE S. NO 148
	Name of the Inspecting officer	Naman Ekka, SMG / 13/10/2022
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	1.6697 HA
3	Mine Code	07GUJ07105
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/248/2011
5	Name of the lessee, Address, phone, email and fax number	M/S SAURASHTRA CALCINE BAUXITE&ALLIED IND. HARSHAD ROAD /P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199
6	Village	MEWASA
7	Taluka/Mandal	KALYANPUR
8	District	DEVBHUMI DWARKA
9	Pincode	361315
10	State	GUJARAT
11	Post office	BHATIA
12	Nearest police station	BHATIA
13	Nearest Railway station	BHATIA
14	Date of Grant of Mining Lease	14.11.1985
15	Date of Execution	12.05.1986
16	Date of opening of Mine	16.01.1996
17	Date of first Renewal, if applicable and its period & expiry	-
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	SHRI DWARKADAS RAICHURA HARSHAD ROAD /P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	SHRI GULABBHAI PABARI HARSHAD ROAD /P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	SRI VISHALKUMAR KAMALIYA, BE MINING, HARSHAD ROAD /P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	SRI VISHALKUMAR KAMALIYA, BE MINING, HARSHAD ROAD /P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	SRI BIREN CHAUHAN HARSHAD ROAD /P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	02.12.2016
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	682(23)MS-545/2007 DATE. 02/12/2016
27	Mineral(s) granted in lease and proved for mining	Bauxite

28	Method of Mining(Open cast, Underground)	OPENCAST
29	Category (Fully Mechanised, Others or Manual)	OTHER
30	Captive/Non Captive	CAPTIVE

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

**Exploration**

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
1a	Backlog of previous year	No proposal	As reported Area has been explored in past by Drilling BH and after that Pitting has been done and influence of already existing pits has also been considered for area to be fully explored	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	50000		
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal		
1e	Balance reserves .		51375 T	
1f	General remarks of inspecting officer on geology, exploration etc.	As reported Area has been explored in past by Drilling BH and after that Pitting has been done and influence of already existing pits has also been considered for area to be fully explored		

**2.0 Development**

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
2a	Location of development w.r.t. lease area	IN THE PROPOSED MINING, MINING WILL BE START FROM NORTH PART OF THE AREA.	Mining has been carried out as proposed	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Separate Benches proposed	Separate Benches in Top Soil and mineral can be seen	
2c	Stripping ratio or ore to OB ratio	1:0.2	1:0.2	
2d	Quantity of topsoil generation in m3	-	NIL	
2e	Quantity of overburden generation in m3	-	NIL	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of pits has carried out as per proposal by separate benches in Top Soil and Mineral.		

**3.0 Exploitation**

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	01 PIT	01 PIT	
3b	Quantity of ROM mineral production proposed	6750	6750	
3c	Recovery of salable/usable mineral from ROM production	6075	6075	
3d	Quantity of mineral reject generation	675	675	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Less than 30% Al <sub>2</sub> O <sub>3</sub>	
3f	Quantity of sub-grade mineral generation	No proposal	No Sub Grade Mineral Generated	
3g	Grade of sub-grade mineral generation	No proposal	No Sub Grade Mineral Generated	
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	No proposal	As Reported No work has been carried out.	
3j	Provision of drilling & blasting in mineral benches	No proposal	As Reported No work has been carried out.	
3k	Provision of mining machineries in mineral benches	No proposal	As Reported No work has been carried out.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.5 & 2.0	1.5	
3m	Total area covered under excavation/pits	1.3 hect	-	
3n	Ore to OB ratio for the pit/mine during the year	-	-	
3o	Total area put in use under different heads at the end of year	Waste/reject Others- 675	NILL	
3p	Production of ROM mineral during last five-year period, as applicable	Yr 2017- 18 - 14318 Yr 2018 - 19 - 11235 Yr 2019- 20 - 9803 Yr 2020- 21 - 9590 Yr 2021-22- 6750	Yr 2017- 18 - 15850 Yr 2018 - 19 - NILL Yr 2019- 20 - NILL Yr 2020- 21 - NIL Yr 2021-22- 6750	
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is Opencast. No Drilling and blasting is being carried out.		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	-	As Reported No work has been carried out.	
4b	Location of topsoil, OB & mineral reject dumps	-		
4c	Number of dumps within lease area and outside lease area	NILL		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NILL		
4e	Number of active & alive dumps	NILL		
4f	Number of dead dumps	NILL		
4g	Number of dumps stabilised	NILL		
4h	Whether Retaining wall or garland drain all along dumps are there	NILL		
4i	Length of Retaining wall or garland drain all along dump	NILL		
4j	Number of settling ponds	NILL		
4k	Specific comments of inspecting officer	As reported No Solid waste generated.		

#### **5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	BACKFILLING OF WASTE MATERIAL WILL BE DONE IN SUCH AREA WHERE BAUXITE MINERAL HAS BEEN MINE OUT UP TO COMPLETE THICKNESS & NO BAUXITE MINERAL IS AVAILABLE.	As Reported No work has been carried out.	
5b	Area under backfilling of mined out area	-	As Reported No work has	

			been carried out.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NILL	As Reported No work has been carried out.	
5d	Total area fully reclaimed & rehabilitated	IN THE APPROVED MINING SCHEME IT WAS PROPOSED THAT THE MINED OUT LAND WILL BE BACKFILLED.	As Reported No work has been carried out.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No! Back filling of the Mine has been carried out		

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2021-22)	Actual work (2021-22)	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	HAVE BEEN SUBMITTED	
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	- 0.0050 10 50 - 2000	0.0050 10 20 - 2000	
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	NILL  600 M <sup>2</sup> 100 M	NILL  600 M <sup>2</sup> -	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NILL	NILL	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	AMBIENT AIR QUALITY WATER QUALITY NOISE QUALITY	WE HAVE MAINTAINED CORE ZONE & BUFFER ZONE.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP Proposals has been carried out.		

### 7.0 Mineral Conservation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	GRADE WISE SORTING WITHIN LEASE AREA	-	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	MANUAL	--	

7c	Different grade of mineral sorted out at mines	USUALLY THIS BAUXITE IS HAND SORTED WITHIN THE QUARRY FOR DIFFERENT GRADE, SUCH AS A ABRESIVE GRADE , REFACTORY GRADE, CERAMIC GRADE, CEMENT GRADE ,(LOW GRADE)	- USUALLY THIS BAUXITE IS HAND SORTED WITHIN THE QUARRY FOR DIFFERENT GRADE, SUCH AS A ABRESIVE GRADE , REFACTORY GRADE, CERAMIC GRADE, CEMENT GRADE ,(LOW GRADE)	
7d	Any beneficiation process at mines	THE INSITU BAUXITE (ROM) MINED IS A MIXTURE OF ORE AND OTHER WASTE MATERIAL SUCH AS LATERITIC CLAY AND LATERITE VERY LOW IN AL2O3 AND HIGH IN FE2O3 AND SIO2.USUALLY THIS INSITU BAUXITE IS HAND SORTED WITHIN THE QUARRY GRADE WISE,SUCH AS ABRASIVE GRADE , REFACTORY GRADE, AND CEMENT GRADE .THE HAND SORTED ORE IS TRANSPORTED FROM THE MINES TO PLANT .	THE INSITU BAUXITE (ROM) MINED IS A MIXTURE OF ORE AND OTHER WASTE MATERIAL SUCH AS LATERITIC CLAY AND LATERITE VERY LOW IN AL2O3 AND HIGH IN FE2O3 AND SIO2.USUALLY THIS INSITU BAUXITE IS HAND SORTED WITHIN THE QUARRY GRADE WISE,SUCH AS ABRASIVE GRADE , REFACTORY GRADE, AND CEMENT GRADE .THE HAND SORTED ORE IS TRANSPORTED FROM THE MINES TO PLANT .	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No Beneficiation issue reported.		

### 8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	THE TOP SOIL GENERATED DURING 2021-22SCHEME PERIOD IS PROPOSED TO SPRED ON BACKFILLED AREA.	-	
8b	Concurrent use or storage of topsoil	THE TOP SOIL GENERATED DURING 2021-22 SCHEME PERIOD WAS PROPOSED TO SPRED ON BACKFILLED AREA.	-	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	IN THE APPROVED MINING SCHEME IT IS ANTICIPATED THAT THE WASTE GENERATED WAS PROPOSED BACKFILLED IN MINED OUT VOIDS.	-	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	BACKFILLING WILL BE DONE IN THE MINED OUT AREA. THE BACKFILLING WILL BE DONE AFTER WINNING FULL THICKNESS OF BAUXITE AND	BACKFILLING WILL BE DONE IN THE MINED OUT AREA. THE BACKFILLING WILL BE DONE AFTER WINNING FULL THICKNESS OF BAUXITE AND BACKFILLING AREA WILL BE	

		BACKFILLING AREA WILL BE PROVEN BARREN.FIRST OF ALL THE WASTE WILL BE BACKFILLED IN THE MINED OUT AREA	PROVEN BARREN.FIRST OF ALL THE WASTE WILL BE BACKFILLED IN THE MINED OUT AREA.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	IN THE APPROVED MINING SCHEME IT WAS PROPOSED THAT THE MINED OUT LAND WILL BE BACKFILLED.	IN THE APPROVED MINING SCHEME IT WAS PROPOSED THAT THE MINED OUT LAND WILL BE BACKFILLED.	
8f	Baseline information on existence of plantation & additional plantation done	10 SAMPLING	0.0050	
8g	Survival rate		90%	
8h	Water sprinkling on roads to control airborne dust	IT IS PROPOSED TO SPRINKLING WATER ON HAUL ROAD .	WATER SPRINKLING ON HAUL ROAD REGULLARLY.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Mines is surrounded by Little to no Vegetation.		

#### 9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – August 2022 A.R. submitted upto- 2021-22	

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	DETAIL OF MINING ENGINEER, GEOLOGIST & MINE MANAGER IN ANNUAL RETURN 2021-22, HAS BEEN MENTIONED		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	DETAIL OF LAND USE PATTERN FOR AREA UNDER PITS,RECLAIMED AREA,DUMPS ETC IN ANNUAL RETURN 2021-22, HAS BEEN MENTIONED		
9d	Scrutiny of Annual return on afforestation	DETAIL OF AFFORESTATION IN ANNUAL RETURN 2021-22, HAS BEEN MENTIONED		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NILL		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	DETAIL OF ROM STOCK AND/OR GRADED ORE IN ANNUAL RETURN 2021-22, HAS BEEN MENTIONED		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	DETAIL OF SALE VALUE,EX.MINE PRICE & PRODUCTION COST IN ANNUAL RETURN 2021-22, HAS BEEN MENTIONED		
9i	Scrutiny of Annual return on fixed assets	DETAIL OF FIXED ASSETS IN ANNUAL RETURN 2021-22, HAS BEEN MENTIONED		
9k	Scrutiny of Annual return on mining machineries	DETAIL OF MINING MACHINERIES IN ANNUAL RETURN 2021-22, HAS BEEN MENTIONED		

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

No Significant Violations Observed

*Naman Ekka*  
25/10/22  
Naman Ekka  
SMG