

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	Tanasava Limestone Mine
1(a)		
1(b)	Name of Inspecting Officer	Sunil Kumar Sharma, Sr. ACOM
1(c)	Type of Inspection	MCDR, 2017
1(d)	Date of Inspection	Virtual Inspection with the help of Drone Data Analysis
2.	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total ML area – 4.00.00 HA. Forest land – 0.0 Non Forest land – 4.00.00 HA.
3	Mine-code	38GUJ13003
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/9913/2012
5	Name of the lessee, Address, phone, email and fax number	RamilaBen Parbatbhai Bariya Address- “Uday Minerals” Jirpara Plot, Tagor Road, Garbi Sheri, Upleta -360490, Gujarat. Mobile no. 9909923131
6	Village	Tanasava
7	Taluka/Mandal	Upleta
8	District	Rajkot
9	Pin code	360490
10	State	Gujarat
11	Post office	Upleta
12	Nearest police station	Upleta
13	Nearest Railway station	Upleta
14	Date of Grant of Mining Lease	30/07/2009
15	Date of Execution	19/09/2009
16	Date of opening of Mine	19/09/2009
17	Date of first Renewal, if applicable and its period & expiry	01/02/2018, As per section 8(A) (6) of the MMDR, Act 1957 Date of Expiry: 18/09/2059
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	17/11/2017
20	Name of the Owner/ Nominated Owner with Address, phone, email, fax number and date of appointment	Ramilaben Parbatbhai Bariya Jirapa Plot Tagor Road , Garbi Street Upleta District: Rajkot, Gujarat
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Uday Bariya Opposite ITI Arun Colony Gondal Taluka, District: Rajkot, Gujarat 360311
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Uday Bariya Opposite ITI Arun Colony Gondal Taluka, District: Rajkot, Gujarat 360311
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Uday Bariya Opposite ITI Arun Colony Gondal Taluka, District: Rajkot, Gujarat 360311 9726723131
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/ Modified Mining Plan with five-	Date- 14/07/2009; 682(23)(656)/2009 khanikhas(N)UDP Period (From 19/08/2009 to 31/03/2014)

	year period and specific condition in approval letter, if any.	
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-212/2019 MDRD(U)/GNR Dated 09/04/2019 Period(from 01/04/2019 to 31/03/2024) MCDR-MPCP0CaFI/59/2023-GNRIBM_RO_GNR MP-524 Dated 16/02/2024 Period: 2024-25 to 2028-29
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Category A Mechanised
30	Captive/Non Captive	Non Captive

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

Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	No Proposal	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 31.03.2023 (in Tonne)	(111) 4,05,442.6 tonnes (221) 93,976 tonnes Total 4,99,418.6 tonnes		Violation observed under 45(5)(c)
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area explored in G1 Category. Violation observed under Rule 45(5)(c). Data provided in the Annual Return is not matching with approved mining plan.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	North part of ML 2402615.25 N to 2402571.83 N 618329.54 E to 618333.83E	North part of ML 2402603.7 N to 2402542.7 N 618331.8 E to 618366.9 E	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal of benches in topsoil and overburden one bench proposed in mineral	One bench in mineral of 5m bench height	-
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-
2d	Quantity of topsoil generation in m3	Nil	Nil	-
2e	Quantity of overburden generation in m3	Nil	Nil	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Drone data for the year 2022-23 and 2023-24 was analysed and it is found that one pit is developed in the mine at north side of the mining lease area. The proposed location of the production is North side of the lease and the production was carried out with i proposed area.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for	Pit 1	Pit 1	-

	production			
3b	Quantity of ROM mineral production proposed	1,00,000 tonne	24,550 tonne	-
3c	Recovery of saleable/usable mineral from ROM production	100 %	100%	-
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	-
3f	Quantity of sub-grade mineral generation	No proposal	Nil	-
3g	Grade of sub-grade mineral generation	No proposal	Nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	-
3j	Provision of drilling & blasting in mineral benches	No proposal	Nil	-
3k	Provision of mining machineries in mineral benches	Hydraulic Shovel: 1 Dumper: 03	Hydraulic Shovel: 01 Dumper: 01	-
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	3.23 Ha	1.5 Ha	Pit area measured from Drone data
3n	Ore to OB ratio for the pit/mine during the year	No proposal	Nil	-
3o	Total area put in use under different heads at the end of year	Pit Area: 2.08 Ha Haul Road: 0.08 Ha Area put to use: 2.16 Ha	Pit Area: 1.5 Ha Haul Road: 0.08 Ha Area put to use: 1.58 Ha.	-
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 75,965 T 2020-21: 92,000 T 2021-22: 1,00,000 T 2022-23: 1,00,000 T 2023-24: 1,00,000 T	2019-20: 73,000 T 2020-21: 38,500 T 2021-22: Nil 2022-23: Nil 2023-24: 24,550.345 T	-
3q	General remarks of inspecting officer on method of mining etc.	Drone data for the year 2023-24 was analysed and it is found that one bench in the mineral in pit No. 1 of 5m height.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal	Nil	-
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	-
4c	Number of dumps within lease area and outside lease area	No proposal	Nil	-
4d	Location of dumps w.r.t. ultimate	No proposal	Nil	-

	pit limit (Rule 16)			
4e	Number of active & alive dumps	No proposal	Nil	-
4f	Number of dead dumps	No proposal	Nil	-
4g	Number of dumps stabilised	No proposal	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	-
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	-
4j	Number of settling ponds	No proposal	Nil	-
4k	Specific comments of inspecting officer	It is found from drone data analyse that no dump of waste or overburden was found.		

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	No proposal	Nil	-
5b	Area under backfilling of mined out area	No proposal	Nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	-
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	It is found from drone data analyse that there is no backfilling was carried out within the lease area.		

6.0 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 - Rule 23E (2). Details should be given in the format as given in Annexure-20.	Yes	Not submitted along with Annual return	Violation observed under Rule 26(2) and under Rule 33
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	No proposal	Nil	-
6c	Afforestation done (ha)	0.01 Ha	0.01 Ha	Analyse with the help of drone data
6d	No. of saplings planted during the year	150	150	As reported in Annual Return
6e	Cumulative no. of plants	-	-	-
6f	Any other specific method of rehabilitation	No proposal	Nil	-
6g	Cost incurred on watch & care during the year	-	-	-
6h	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	No proposal	Nil	-
6i	Compliance on reclamation and rehabilitation by backfilling ii) Void filled by	No proposal	Nil	-

	waste/tailings			
6j	Compliance on reclamation and rehabilitation by backfilling iii) Afforestation on the backfilled area	No proposal	Nil	-
6k	Compliance on reclamation and rehabilitation by backfilling iv) Rehabilitation by making water reservoir	No proposal	Nil	-
6l	Compliance on reclamation and rehabilitation by backfilling v) Any other specific means	No proposal	Nil	-
6m	Compliance of Rehabilitation of waste land within lease i) Afforestation	No proposal	Nil	-
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	No proposal	Nil	-
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	No proposal	Nil	-
6p	Compliance of Environmental monitoring (core zone & buffer zone)	No proposal	Nil	-
6q	General remarks of inspecting officer on PMCP compliance & progressive	After drone data analyses it is found that the PMCP compliance is found satisfactory.		

7.0 Mineral Conservation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1,00,000 T	Cement grade limestone dispatched: 24,929 tonnes.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	-
7c	Different grade of mineral sorted out at mines	No proposal	Nil	-
7d	Any beneficiation process at mines	No proposal	Nil	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire production of mineral is reported in Cement grade limestone.		

8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	-
8b	Concurrent use or storage of topsoil	No proposal	Nil	-

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	-	150	-
8g	Survival rate	80%	10% (Reported in annual return)	Violation observed under 11(1)
8h	Water sprinkling on roads to control airborne dust	Nil	Nil	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.	It is found from the drone data analyse that the mine is surrounded by the agriculture field in all sides except west side. In west side of the lease local bushes and vegetation have been found.		

9.0 Compliance of Rule 45

ss

S. N.	Item	COMMENTS	Remarks
1.	Status of submission of Monthly and Annual returns	Annual Return 2022-23 was submitted on 12.06.2024 Monthly Return for the month of February 2025 is submitted on	-
S. N.	Item	COMMENTS	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Uday Bariya	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current working: 3.23 Ha Plantation: 0.15 Ha.	It is found with the help of drone data analysis that the total area under working is different as compare with the data provided in annual return 2023-24. Polygon provided of actual excavation in shape file is also incorrect. Violation observed under Rule 34A and 45(5)(c)
9d	Scrutiny of Annual return on afforestation	150 plants Survival Rate: 10%	Violation observed under rule 11(1).
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 24550.345 tonne Cement Grade Limestone: 652.990 tonne	In drone analysis ROM stock not found. Violation observed under Rule 45(5) (c)
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine Price: ₹ 59/ tonne Cost of production: ₹165.20/ tonne	Violation observed under Rule 45(5) (c)
9i	Scrutiny of Annual return on fixed assets	-	-
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic): 01 Tipper: 01	-

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

नियम सं.	उल्लंघनों के प्रकारों का विस्तृत ब्यौरा													
11(1)	<p>The following work is not being done as per the Approved Review of Mining plan No. 684(4)(1)/MP-212/2019 MDRD(U)/GNR Dated 09/04/2019:-</p> <p>According to Table No. A8.7 of the approved mining plan, it was proposed to plant 150 No. with 80% survival rate during the year 2023-24 but on the basis of records available and drone data analysis it was found that only 10% plants has been survived.</p>													
34A	<p>Every lessee having-</p> <p>(a) an annual excavation plan of one million tonne or more in a particular year;</p> <p style="text-align: center;">or</p> <p>(b) leased area of fifty hectare or more,</p> <p>shall carry out a drone survey of the leased area and up to hundred meters outside the lease boundary in the month of April or May every year and submit the processed output [digital elevation model (DEM) and Orthomosaic] images obtained from such survey or any other format as may be specified by the Indian Bureau of Mines in this regard to the Controller General on or before 1st day of July every year.</p> <p>In your case, the Digital Aerial Images submitted under Rule 34(A), it is observed that the processed Drone survey output data submitted to Indian Bureau of Mines does not meet the parameters specified in the SOP for submission of Digital Aerial Images under the said Rule. The deviations in the data submitted is as follows:-</p> <table border="1"> <thead> <tr> <th>S. No.</th><th>Data type</th><th>Check Point parameters as per SOP</th><th>Submitted in proper format (Yes/No)</th><th>Remarks</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Excavated Area</td><td>.shp (UTM in WGS 84)</td><td>No</td><td>Actual excavation area of pit was not created.</td></tr> </tbody> </table>				S. No.	Data type	Check Point parameters as per SOP	Submitted in proper format (Yes/No)	Remarks	1.	Excavated Area	.shp (UTM in WGS 84)	No	Actual excavation area of pit was not created.
S. No.	Data type	Check Point parameters as per SOP	Submitted in proper format (Yes/No)	Remarks										
1.	Excavated Area	.shp (UTM in WGS 84)	No	Actual excavation area of pit was not created.										
45(5)(c)	<p>The following deficiencies have been found in the scrutiny of the submitted annual return for 2023-24 –</p> <p>(i) In point No. 12 of Part-I of the Annual Return 2023-24, the data provided for the lease area utilisation as at the end of the year is not matching with drone data.</p> <p>(ii) In point No. 2 of Part-V of the Annual Return 2023-24, the data provided for Reserves and Resources is not matching with approved mining plan and reported production.</p> <p>(iii) In point no. 2 and 3 of Part-VI, the stock was reported at both ROM stock and grade-wise stocks (cement grade), but on the basis of drone data analysis, only grade-wise stock was found.</p> <p>(iv) In point No. 3(ii) of part-VI, the data provided for Ex-mine price of cement grade limestone is ₹ 59/- per tonne which seems illogical.</p>													

(Sunil Kumar Sharma)
Sr. ACOM