

MCDR INSPECTION REPORT **(Virtual Inspection)**

General

SN	Particulars	Details
1(a)	Name of the Mine	Khorasa Limestone Mine
1(b)	Name of Inspecting Officer & Designation	Dr. Debajyoti Nayak, JMG
1(c)	Accompanying Mines Representatives	Virtual Inspection
1(d)	Type of Inspection	Star Rating/SDF
1(e)	Date of Inspection	02.03.2025
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area (Ha)-4.00 Non-forest-4.00 Ha. forest land-Nil
3	Mine code	38GUJ08355
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/10135/2012
5	Name of the lessee, Address, phone, email and fax number	Shri Rajshibhai Ranabhai Jothva, C/o Transport, Veraval Village-Supasi, District-Junagadh, Gujarat-362265 Phone No. 02876 282930, +91-9537522230, email-rajshibhaijotva51@gmail.com
6	Village	Khorasa
7	Taluka/Mandal	Maliya(Hatina)
8	District	Junagadh
9	Pin code	362255
10	State	Gujarat
11	Post office	Khorasha
12	Nearest police station	Maliya(Hatina)
13	Nearest Railway station	Lushala
14	Date of Grant of Mining Lease	02/03/2009
15	Date of Execution	18/12/2009
16	Date of opening of Mine	21/12/2009
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
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	Extended upto 17/12/2059
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Rajshibhai Ranabhai Jothva, C/o Transport, Veraval Village-Supasi, District-Junagadh, Gujarat-362265 Phone No. 02876 282930, +91-9537522230, email-rajshibhaijotva51@gmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	No Agent appointed in 2023-24
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Jayesh L. Jotva
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax	Jotava Jagdishbhai

	number and date of appointment in mine	
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 &57.	The mine is temporary discontinued due to NGT order. So, no mining engineer & Geologist appointed.
25	Date of Approval of Mining Plan/Modified Mining Plan /Review of Mine Plan with five-year period and specific condition in approval letter, if any.	Minig Plan: 682(23)(670)/2009-MCCM(N) UDP dated 11/02/2009, Proposal Period- 2010-11 to 2014-15 Modified Mining Plan: 684(4)(1)/MP-154(107)/2018 dated 02/07/2018, Proposal Period- 2018-19 to 2019-20 Review of Mine Plan - 684(4)(1)/MP-250/2019-20-MDRD-GNR dated 25/11/2019 Period-2020-21 to 2024-25
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Minig Scheme with PMCP: 682(23)(670)/2009-MCCM(N) UDP dated 09/02/2016, Proposal Period- 2015-16 to 2019-20 Modification Minig Scheme: Dated 02/07/2018, Proposal Period- 2018-19 to 2019-20
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
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	Proposed 4 Boreholes of 70*70m grid interval of 120m total meterage.	No Exploration activities carried out in 2023-24.	The mine is temporary discounted due to NGT order.
1b	Exploration over lease area for Geological axis 1 or 2.	G1-4.0 Ha.	G1	The mine is temporary discounted due to NGT order.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	M/s. Rajshibhai Jothva	No Exploration activities carried out during 2023-24	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	No Exploration activities done during 2023-24	The entire lease area has been explored in G1 level.
1e	Balance reserves as on 01.04.2024	619,725.00 Tonnes	No production reported in 2023-24.	
1f	General remarks of inspecting officer on geology, exploration etc.	The mine is temporary discounted due to NGT order, EC not granted, so no exploration activities carried out during 2023-24.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development	Pit-1 at 24 mRL to	No production	The mine is

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	w.r.t. lease area	21 mRL towards southern part.	reported in 2023-24.	temporary discounted due to NGT order.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	One bench proposed in mineral. No proposal of benches in topsoil and overburden	No development work carried out to make benches in mineral.	
2c	Stripping ratio or ore to OB ratio	1:00	No development work carried during 2023-24	
2d	Quantity of topsoil generation in m ³	Not proposed	Not Applicable	
2e	Quantity of overburden generation in m ³	Not proposed	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine is temporarily discontinued due to the NGT order, and since the EC has not been granted, no development activities were conducted during 2023-24. This has been further verified from drone data analysis during virtual inspection.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One (Pit-1)	No production carried out during 2023-24.	
3b	Quantity of ROM mineral production proposed	90860 Tonnes	No production carried out during 2023-24.	
3c	Recovery of saleable/usable mineral from ROM production	100% of recovery	No production carried out during 2023-24.	
3d	Quantity of mineral reject generation	Not proposed	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Not Applicable	
3f	Quantity of sub-grade mineral generation	Not proposed	Not Applicable	
3g	Grade of sub-grade mineral generation	Not proposed	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not Applicable	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	No Proposal of drilling & blasting in mineral benches.	Not Applicable	
3k	Provision of mining machineries in mineral benches	Rock Breaker, Excavator and Water sprinkler	No mining machineries used during 2023-24	No mining operation carried out during 2023-

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Bench height-3m, width-6m, slope-70° and Over all pit slope-38°	Yes the height of benches (3m) (measured from drone data) in mineral suitable for method of mining proposed in MP/SOM		24. The mine is temporary discounted due to NGT order.	
3m	Total area covered under excavation/pits in Ha	3.18Ha	1.87 Ha		The total area covered under excavation or pits has been measured using the submitted drone data.	
3n	Ore to OB ratio for the pit/ mine during the year	1:00	No development work carried during 2023-24			
3o	Total area put in use under different heads at the end of year	Under mining-3.18Ha. Infrastructure-0.25 Ha. Plantation/Green belt development-0.56Ha.	Under mining-1.87Ha. Plantation/Green belt development-0.06Ha.		Information not given in AR 2023-24, which violates rule 45(5)(c)rw45(7)	
3p	Production of ROM mineral during last five-year period, as applicable in MT	2019-20	0.059972	2019-20	Nil	The mine is temporary discounted due to NGT order.
		2020-21	0.082763	2020-21	Nil	
		2021-22	0.092772	2021-22	Nil	
		2022-23	0.095965	2022-23	Nil	
		2023-24	0.090860	2023-24	Nil	
3q	General remarks of inspecting officer on method of mining etc.	The working method is open-cast and the proposal has given for exploitation in pit-1 with a ROM production of 90860 Tonnes with 100% recovery, but due to NGT order and unavailability of EC, the mine is temporarily discontinued so, no work carried out during 2023-24. This has been further verified through the analysis of the submitted drone data during virtual inspection.				

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)	No proposal	Not Applicable	
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Not Applicable	
4c	Number of dumps within lease area and outside lease area	No proposal	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit	No proposal	Not Applicable	
4e	Number of active & alive	No proposal	Not Applicable	

	dumps			
4f	Number of dead dumps	No proposal	Not Applicable	
4g	Number of dumps stabilised	No proposal	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Not Applicable	
4j	Number of settling ponds	No proposal	Not Applicable	
4k	Specific comments of inspecting officer	Since the mine does not have any top-soil, OB and mineral reject so, no proposal for the same given.		

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	Proposed to full extraction of mineral from mined out area. Backfilling not proposed	Not Applicable	Reclamation and rehabilitation through backfilling were not carried out, as it was not proposed in the mining plan.
5b	Area under backfilling of mined out area	No backfilling proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Reclamation and rehabilitation through backfilling were not carried out, as it was not proposed in the mining plan.		

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 26(2). Details should be given in the format as given in Annexure-20.	Proposed	Not submitted along with Annual Returns 2023-24.	PMCP yearly report and UAV Survey (KML/KMZ file not attached with AR, 2023-24. This resulted in a violation of Rule 45(5)(c)rw45(7).
6b	Management of worked/mined out benches	i) not proposed ii) 0.05 (ha) iii) 50 no. of saplings proposed to plant during the year iv) 400 no. of plants vi) 260000 rupees	i) NA ii) 0.05 (ha) iii) 150 no. of plants iv) 200 no. of plants vi) no details given	
	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			
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) by making water reservoir v) Any other specific means	No proposal	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal	Not Applicable	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	i) Ambient Air Quality- 4 (Once in Quarter) ii) Water Quality- 4 (Once in Quarter) iii) Noise Level Survey- - 4 (Once in Quarter) iv) Ground Vibration	Not Applicable	
6f	General remarks of inspecting officer on PMCP compliance & progressive	150 no.of trees planted during 2023-24 within the ML area and 200 no.of trees planted during the year outside the ML area. The drone data indicates that, due to non-operational status for the past five years, the entire lease area is now completely covered by vegetation. However, PMCP yearly report and UAV Survey (KML/KMZ file not attached with AR, 2023-24. This resulted in a violation of Rule 45(5)(c) read with 45(7).		

7.0 Mineral Conservation

10. Mineral Conservation				
S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Not Applicable	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Not Applicable	
7c	Different grade of mineral sorted out at mines	No proposal	Not Applicable	
7d	Any beneficiation process at mines	No proposal	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	This mine does not have any provision of sorting and beneficiation of minerals, so there is no work carried out for the same.		

8.0 Environment

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not Applicable	
8b	Concurrent use or storage of topsoil	No proposal	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done	400 no.of plants	200 no.of plants	
8g	Survival rate	60%	50%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Not Applicable	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Since the EC has not been granted, mining operations have not been conducted. The drone data indicates that, due to non-operational status for the past five years, the entire lease area is now completely covered by vegetation.		

9.0 Compliance of Rule 45

S. N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	All monthly returns for the year 2023-24 submitted. Annual returns for the year 2023-24 also submitted on 11/05/2024.		
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	Jayesh L. Jotva (Mining Manager) Jotava Jagdishbhai (Mining Engineer)	Found in order	PMCP yearly report and UAV Survey (KML/KMZ file not attached with A.R. Details of land use pattern for area under pits, reclaimed area, dumps etc. not given. This resulted in a violation of Rule 45(5) (c) read with 45(7).
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. in Ha	No details given	No work done	
9d	Scrutiny of Annual return on afforestation	150	There is an error in calculation on afforestation.	
9e	Scrutiny of Annual	No details given	No production	

	return on mineral reject generation (Grade & quantity)		reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Chemical grade- 171.19 tons	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	No details given	No production and dispatch reported	
9i	Scrutiny of Annual return on fixed assets	No details given	-	
9k	Scrutiny of Annual return on mining machineries	No details given	No mining activity was carried out in 2023-24	

Note: MIDPAS report is attached.

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

According to office records, there are currently pending violations under Rule 45(5)(b) read with Rule 45(7).

The mines lessee submitted a Temporary Discontinuous Notice of Mining Operation (Form-E), date of temporary discontinuous was October 24, 2018.

During the virtual inspection, additional violations were observed under Rule 45(5)(c) read with 45(7) and 34(A).

The drone data was reviewed and returned to the party because it did not comply with the Standard Operating Procedures (SOP).

The Star Rating validation for the assessment year 2023-24 has been completed.

Dr. Debajyoti Nayak
Junior Mining Geologist
IBM, Gandhingar