

MCDR INSPECTION REPORT**General**

SN	Particulars	Details
1(a)	Name of the Mine	Khan Kotra Limestone Mine[S No. 538/2/P]
1(b)	Name of Inspecting Officer & Designation	Sanjaya Kumar Sahoo
1(c)	Accompanying Mines Representatives	NA
1(d)	Type of Inspection	Virtual Inspection
1(e)	Date of Inspection	Virtual Inspection
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.80 Ha
3	Mine code	38GUJ07075
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/1142/2011
5	Name of the lessee, Address, phone, email and fax number	Shri Kashavji Uka Bhai Patel Post- Dhudasiya, Taluka- Kelwad, Dist- Jamnagar, Gujarat- 360007 Email Id- Emmanuel_jogaiah@yahoo.co.in
6	Village	Khan Kotra
7	Taluka/Mandal	Kelawad
8	District	Jamnagar
9	Pin code	-
10	State	Gujarat
11	Post office	-
12	Nearest police station	-
13	Nearest Railway station	-
14	Date of Grant of Mining Lease	08-01-2002
15	Date of Execution	19-02-2002 for 30 years to 18-02-2032
16	Date of opening of Mine	-
17	Date of first Renewal, if applicable and its period & expiry	NA
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 18-02-2032
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not Applicable
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not Applicable
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri. Franklin Jogaiah
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Rajesh kurani
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 &57.	Geologist- Shri. Tahera
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.	684(4)(1)/MP-314(245/19)/2020-21, Dated- 18-02-2021
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	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	A, Semi-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	Two trial pits at pit floor of 5m x 5m x 6m dimension	Not done	11(1) violation is found
1b	Exploration over lease area for Geological axis 1 or 2.	One borehole of 20 meters, Three trial pits of 5m x 5m x 10m dimension,	Not Done	11(1) violation is found
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not reported	Not reported	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Total area is explored to G1.
1e	Balance reserves as on 01.04.2024	UNFC Code 111: 587180 MT		
1f	General remarks of inspecting officer on geology, exploration etc.	Explorations were proposed in Eastern part (in Pit-01) and Western part (in Pit-02) of the lease area, part mentioned in Geological plan however such exploration activities are not found in Drone image. Hence violation of Rule 11(1) is found.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Pit No. 02, in easterly direction, controlled by A-A' section.	-	Shape file of all existing pits is given. Shape file of actual excavation done in F.Y. 2023-24 is not given. The excavation is not done in proposed area for F.Y. 2023-24 mentioned in Mining Plan however the existing pits are falling inside cumulative area of proposed excavation which is observed from Drone image.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	No OB reported
2d	Quantity of topsoil generation in m ³	2277	Nil	
2e	Quantity of overburden generation in m ³	No Proposal	Not Applicable	No OB reported
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The co-ordinates of existing Pits are 22.2933004N, 70.2636865E and 22.29268072N, 70.26216002E. The Drone data has been referred back.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One	-	Shape file of actual excavation done in F.Y. 2023-24 is not given.
3b	Quantity of ROM mineral production proposed	150350 MT	194683 MT	Reported in Annual Return of F.Y. 2023-24.
3c	Recovery of saleable/usable	150350 MT	194683 MT	44333 MT (29.48%)

	mineral from ROM production				ROM production is reported than proposal. Hence violation under Rule 11(1) is found.
3d	Quantity of mineral reject generation	No Proposal		Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	No Proposal		Not Applicable	
3f	Quantity of sub-grade mineral generation	No Proposal		Not Applicable	
3g	Grade of sub-grade mineral generation	No Proposal		Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised		-	Virtual inspection
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal		Not Applicable	
3j	Provision of drilling & blasting in mineral benches	No Proposal		Not Applicable	
3k	Provision of mining machineries in mineral benches	One Excavator of 0.9 m ³ , Three Tippers of 25 MT		Generator(Diesel)- 01 Dumper- 01 Pump(Electric)-01	Reported in annual Return
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m in mineral in N-S direction.		5m in mineral	In existing pits Observed from Drone data.
3m	Total area covered under excavation/pits in Ha	4.5380 Ha		2.428 Ha	Reported in annual Return.
3n	Ore to OB ratio for the pit/mine during the year	1:0		1:0	No OB generated reported as nil in Annual Return.
3o	Total area put in use under different heads at the end of year	Area under mining- 4.5380 Ha Roads- 0.01Ha Workshop etc. – 0.0050 Ha Green belt- 0.035 Ha		Covered under current (O-C) Workings- 2.428 Ha Roads etc. - 0.01Ha Plantation- 0.05 Ha	
3p	Production of ROM mineral during last five-year period, as applicable in MT	2022-23	150250	2022-23	149495.000
		2023-24	150350	2023-24	194683.000
3q	General remarks of inspecting officer on method of mining etc.	5m height of bench height is found in existing pits which is measured from profile. More ROM production is reported than proposal. Hence violation under Rule 11(1) is found.			

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	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit	No Proposal	Not Applicable	
4e	Number of active & alive dumps	Nil	Nil	No Dump is found in Drone image.
4f	Number of dead dumps	Nil	Nil	

4g	Number of dumps stabilised	Nil	Nil	
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	There was no proposal of Dump working and no dumps are found in Drone data.		

5.0 Solid Waste Management-Backfilling

S N	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	Not Applicable	
5b	Area under backfilling of mined out area	No Proposal	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	For plantation	Nil	
5d	Total area fully reclaimed & rehabilitated	No Proposal	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	There was no proposal of backfilling. Backfilling is not reported in Drone data.		

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.	Yes	Yes Submitted along with Annual Return	
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	i) Nil ii) 0.01 Ha iii) 50 plants iv) 170 plants v) Rs. 5020/-	i) Nil ii) 0.05 Ha iii) 25 plants inside lease area & 25 plants outside lease area iv) 150 plants inside lease area and 130 plants outside lease area	Rule 11(1) is violated.
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	iv) 7590 m ² by making water reservoir	iv) Nil	
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)	In a year, Surface water- once Ambient Air- Twice Noise- Twice	-	Virtual inspection
6f	General remarks of inspecting officer on PMCP compliance & progressive	The co-ordinates of plantation area 22.29333888N, 70.26160061E and 22.2940461N, 70.2635834E. Plantation has been done in different area than proposed in Mining Plan. About 20 plants are seen in Drone image but there were proposal of 50 plants. Violation under Rule 11(1) is found. Near co-ordinates 22.29406117N, 70.26354567E, existing plantation is shown.		

7.0 Mineral Conservation

7. Mineral Conservation				
SN	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	There was no proposal of beneficiation.		

8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	For plantation	Nil	
8b	Concurrent use or storage of topsoil	For plantation	Nil	Reported as Nil
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	Additional plants- 50	Additional plants- 50	Planation is done in different area than proposed in Mining Plan.
8g	Survival rate	50 %	60 %	
8h	Water sprinkling on roads to control airborne dust	By water tanker	-	Virtual inspection
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Planation is not done near proposed area and about 20 plants are seen in Drone image against proposal of 50 plants.		

9.0 Compliance of Rule 45

S. N	Item	COMMENTS	Remarks
	Status of submission of	2023-24 Annual Return was submitted on 30-06-	

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	Monthly and Annual returns	2024. January-2025 Monthly Return was submitted on 04-02-2025.		
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	Mines Manager- Shri. Franklin Jogaiah Mining Engineer- Shri. Rajesh kurani Geologist- Shri. Tahera		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. in Ha	Covered under current (O-C) Workings- 2.428 Ha Roads etc. - 0.01Ha Plantation- 0.05 Ha		
9d	Scrutiny of Annual return on afforestation	Area- 0.05 Ha 25 plants inside lease area & 25 plants outside lease area 150 plants inside lease area and 130 plants outside lease area Survival rate- 60%		
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: O/S- Nil, Production- 194683.000 MT, C/S-194683.000 MT Cement grade: O/S-78933.700 MT, Production- 194683.000 MT, Dispatch- 271776.180 MT C/S- 1840.520 MT		Violation under Rule 45(5) (c) read with 45(7) is found.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value- ₹47314652 Ex. Mine price- ₹174 per tonne Production cost- ₹160 per tonne		
9i	Scrutiny of Annual return on fixed assets	₹ 4324000		
9k	Scrutiny of Annual return on mining machineries	Generator(Diesel)- 01 Dumper- 01 Pump(Electric)-01		

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

1. During previous inspection, violations were issued under Rules 11(1), 34 on 06-07-2023 and the same have been complied on 23-07-2024.
2. Violations were issued under Rules 11(4), 23, 27 on office records. They have not been complied yet.
3. During current year virtual inspection, violations under Rules 11(1), 45(5)(c) read with 45(7) are found.
4. The Drone data has been submitted by the Lessee on 01-07-2024. It has been checked and referred back.
5. Self-assessment date of Star Rating is 28-06-2024 and the Rating given by the Lessee is 3. The evaluation has been done and given 3 Star.

Shri. Sanjaya Kumar Sahoo
Junior Mining Geologist
Indian Bureau of Mines