

MCDR INSPECTION REPORT**1.0 GENERAL**

S. No.	Particulars	Details
1(a)	Name of the Mine	JADUA LIMESTONE MINE
1(b)	Name of Inspecting Officer & Designation	Shri Sunil Kumar Sharma, Senior Assistant Controller of Mines, IBM, Gandhinagar
1(c)	Accompanying Mines Representatives	Shri Mukesh Kumar Choubey, GM
1(d)	Type of Inspection	Modification of Mining Plan, MCDR, Star Rating
1(e)	Date of Inspection	12/08/2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Lease Area-1543.0958 Ha Forest Area-Nil Non Forest Area-1543.0958 Ha
3	Mine code	38GUJ10005
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/753/2011
5	Name of the lessee, Address, phone, email and fax number	M/S Sanghi Industries Ltd. Corporate Office: Sanghi Industries Limited, Adani Corporate House, Shantigram, S.G. Highway Khodiyar, Ahmedabad-382421, Gujarat. Email-mines.sil@adani.com
6	Village	Jadua
7	Taluka/Mandal	Lakhpat
8	District	Kachchh
9	Pin code	370655
10	State	Gujarat
11	Post office	Sanghipuram
12	Nearest police station	Vayor
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	14.11.1995
15	Date of Execution	19.03.1996
16	Date of opening of Mine	06.06.2000
17	Date of first Renewal, if applicable and its period & expiry	N.A.
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sh.Sukuru Ramarao Address- B-1, South Colony, Ambuja Nagar, Kodinar, Junagadh-362715 Ph.-9925134280 Email-mines.sil@adani.com Date of Appointment- 12/07/2023
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sh. Pappu Kumar Address- P.O.-Sanghipuram, Taluka-Abdasa, District-Kachchh, Gujarat, Pin-370511 Ph-9909961438 Email-pappu.kumar3@adani.com Date of appointment-19.03.2010
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sh. Mukesh Kumar Choubey Address-P.O.- Sanghipuram, Taluka- Abdasa, District-Kachchh, Gujarat, Pin-370511 Ph. No.-9978443867 Email-mukesh.choubey@adani.com Date of Appointment-20.04.2011
23	Name of the Mining Engineer, Qualification	Sh. Dilip Gor

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	and total experience with Address, phone, email, fax number and date of appointment in mine	Address- P.O.-Sanghipuram, Taluka-Abdasa, District-Kachchh, Gujarat, Pin-370511 Date of appointment- 21.07.2023 Qualification-Diploma in mining Engineer Email- dilip.gor@adani.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Dilip Gor (Mining Engineer) Harish Rawal (Geologist)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval: 23.03.2021 (Review of Mining plan with PMCP) Period of Mining plan-2021-22 to 2025-26
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Period of Scheme of plan-2013-14 to 2015-16 Date of Approval :19.12.2013
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)	Fully Mechanised
30	Captive/Non Captive	Captive

Exploration

SN	Item	Proposals(2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	25 nos borehole & 750 mtr	25 nos borehole & 804mtr drilled	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	M/s Sanghi Industries Ltd.	M/s Sanghi Industries Ltd. Rs. 9.17 Lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Area beginning of the plan period (2021-22 to 2025-26) G2 to G1 = 162.98 Ha G3 to G1 = 416.6958 Ha	Area as on 01.04.2024 G1 = 1105.8197 Ha G2 = 187.254 Ha G3 = 250.0221 Ha Area to be explored :- G3 to G1- 250.0221 Ha G2 to G1 – 187.254 Ha	
1e	Balance reserves as on 01.04.2024	UNFC code	Reserves/ Resources (million tonnes)	
		111	472.27	
		122	10.05	
		211	41.76	
		221	7.49	
		222	69.92	
		333	206.10	
		Total	807.60	
1f	General remarks of inspecting officer on geology, exploration etc.	About 437 Ha Area to be explored in G1 category. The proposal of exploration is provided in modification of mining plan.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Pit-B1 Pit-B2 Pit-B3 Pit-B5	Pit-B1 Pit-B3	Due to lack of demand from plant
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not proposed	Nil	No OB/waste generated
2c	Stripping ratio or ore to OB ratio	1:00	1:00	No OB/waste

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				generated
2d	Quantity of topsoil generation in m ³	422 m ³	420 m ³	Generate top soil & 100% utilised for plantation work
2e	Quantity of overburden generation in m ³	Nil	Nil	No O/B generated
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	During the year 2023-24, the production was carried out from Pit B1 & B3. Pit No. B2 & B5 is not developed as proposed due to lack of demand from plant.		

3.0 Exploitation

SN	Item	Proposals(2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	4 No.s	2 No.s	Due to lack of demand from plant
3b	Quantity of ROM mineral production proposed	7000000 Tonnes	2054580.110 Tonnes	Due to lack of demand from plant
3c	Recovery of saleable/usable mineral from ROM production	7000000 Tonnes	2054580.110 Tonnes	Due to lack of demand from plant
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Nil	
3f	Quantity of sub-grade mineral generation	Not proposed	Nil	
3g	Grade of sub-grade mineral generation	Not proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Not proposed	Nil	
3k	Provision of mining machineries in mineral benches	Surface Miner-L&T-KSM304C, Loader-L550, Tipper-25T, Core drill, Water tanker, Pump etc.	Surface Miner-L&T-KSM304C, Loader-L550, Tipper-25T, Core drill, Water tanker, Pump etc.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m in mineral bench, No bench in OB/Waste is proposed.	6 m bench height in mineral. Surface miner is used.	No OB zone
3m	Total area covered under excavation/pits	349.2745 ha. For end of the plan period (2021-22 to 2025-26)	Total excavated area- 291.770 Ha	-
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	No O/B exist
3o	Total area put in use under different heads at the end of year	As on 01.04.2023 Pit- 286.180 Occupied by plant, building, welfare building & roads-11.26 ha. Other for Plantation/Yard- 15.50 ha.	As on 01.04.2024 Pit- 291.770 Occupied by plant, building, welfare building & roads- 11.26 ha. Other for	

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		Total Area-312.94 ha	Plantation/Yard- 16.50 ha. Total Area-319.53 ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20=5000000 Tonnes 2020-21=5000000 Tonnes 2021-22=6000000 Tonnes 2022-23=6000000 Tonnes 2023-24=7000000 Tonnes	2019-20=2018981.00 T 2020-21=2442539.40 T 2021-22=2826902.30 T 2022-23=1357846.80 T 2023-24=2054580.11 T	
3q	General remarks of inspecting officer on method of mining etc.	During the inspection, it was found that surface miner cuts 0.25 m layer of limestone in mineral bench. The ROM transport to hopper of conveyor belt with the help loader and dumper combination.		

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	Nil	No O/B, Sub- Grade or reject exist.	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Nil		
4c	Number of dumps within lease area and outside lease area	Not Proposed	Nil		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Nil		
4e	Number of active & alive dumps	Not Proposed	Nil		
4f	Number of dead dumps	Not Proposed	Nil		
4g	Number of dumps stabilised	Not Proposed	Nil		
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil		
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Nil		
4j	Number of settling ponds	Not Proposed	Nil		
4k	Specific comments of inspecting officer	There is no overburden, mineral rejects generated in mining operation. 100% recovery of ROM.			

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	Nil	
5b	Area under backfilling of mined out area	Not Proposed	Nil	No Area matured for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Nil	No O/B, Sub- Grade or reject exist
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	No Area matured
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No area is mined out in the lease.		

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-2.	Yes	Submitted under provision of rule under 26(2) of MCDR 2017.	Return submitted on time
6b	Management of worked/mined out			

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	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) With in lease: 1 Ha iii) With in lease:1200 iv) - v)Nil vi) Not Proposed	i) Nil ii) With in lease: 1Ha iii) With in lease:1205 iv) 16950 v)Nil vi) 433800/-	1205 saplings are planted in 2023-24 but during inspection, it was found that only 57% plants are survived.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (LxBxD) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water	i)Not Proposed ii)Not Proposed iii)Not Proposed iv)Not Proposed	i)Nil ii)Nil iii)Nil iv)Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i)Not Proposed ii)Not Proposed iii)Not Proposed	i)Nil ii)Nil iii)Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	Monitoring is being carried out quarterly & results are within limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive	During the inspection, it is observed that only 57% plants are survived. About 680 plants are survived against 1200 plants.		

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	7000000 Tonnes	1961523.230 Tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines	Not Proposed	Nil	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	During the inspection, it is found that there is no separate stock of cement grade limestone in the mine. Entire ROM is utilised for captive use. ROM stock is available in the mine as cutting layer of surface miner.		

8.0 Environment

SN	Item	Proposals(2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	432 m ³	430 m ³	Utilised in plantation in 7.5m barrier zone.
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	No O/B, Sub- Grade or reject exist
8d	Use of overburden, waste rock, rejects and fines dumps for	Not Proposed	Nil	No O/B, Sub- Grade or reject exist

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	restoring the land to its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	No mined out and non mineralised area is available in the mine.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1200 & 1.0 Ha	1205 & 1.0 Ha At the end of the year about 680 plants are survived.	Violation observed under Rule 11(1) that only 680 plants are survived against 1200 plants.
8g	Survival rate	-	57%	-
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Tanker deployed for Regular sprinkling
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Violation observed under Rule 11(1) that it was proposed to plant 1200 no. plants during the year 2023-24 but at the time of inspection it was found that about 680 plants are survived.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remark
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto July, 2024, dated 05/08/2024 A.R. submitted upto FY_2023-24, dated 28/06/2024	-
S.N.	Item	COMMENTS	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sh. M.K. Choubey (Mines Manager) Sh. DilipGor (Mining Engineer) Sh. Harish Rawal (Geologist)	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining Pit working- 291.770 Ha Bulding, office & Roads: 11.26 Ha Plantation- 16.50 Ha	-
9d	Scrutiny of Annual return on afforestation	1205 Nos. Sapling planted. Survival rate is 57%	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<u>ROM</u> opening stock – Nil closing stock – Nil <u>Cement Grade Limestone</u> opening stock – 82694.867 tonnes closing stock – 175751.747 tonnes	Violation observed under Rule 45. Physical stock of ROM is found during inspection and no separate stock of cement grade limestone was found.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price - 190.92 Rs/Mt Cost of Production- 190.92 Rs/Mt	-
9i	Scrutiny of Annual return on fixed assets	Plant & Machinery:- Rs 228689644 INR	-
9k	Scrutiny of Annual return on mining machineries	Surface Miner-L&T-KSM304C – 2 No. Loader-L550 – 3 No. Tipper-25T – 20 No. Core drill – 01 No. Water tanker – 01 No. Pump – 03 No. Conveyor Belt – 01 No. Jeep – 02 No.	-

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

Violations under rule 11(1), 45(5) (b) and 45(5) (c) was observed which are as follows:

नियम सं.	उल्लंघन के प्रकार का विस्तृत ब्यौरा
11(1)	The following work is not being done as per the approved Review of Mining plan No. 684(4)(1)/MP-321/2020-21 dated 23.03.2021:- According to Table No. A8.8 of the approved mining plan, it was proposed to plant 1200 no. plants during the year 2023-24 but at the time of inspection it was found that about 680 plants are survived.
45(5)(b) read with 45(7)	The following deficiencies have been found in the scrutiny of the monthly return of July 2024 – In point no. 3(ii) of Part II, the closing stock of cement grade limestone is 41235.747 whereas no such stock was found in the mine.
45 (5)(c) read with 45(7)	The following deficiencies have been found in the scrutiny of the annual return of the year 2023-24 – In point no. 3(ii) of Part VI, the closing stock of cement grade limestone is 175751.747 whereas no such stock was found in the mine.

Date- 06.09.2024

Sunil Kumar Sharma
Senior Assistant Controller of Mines