

**MCDR INSPECTION REPORT**

SN	Particulars	Details
1	Name of the Mine	Aniali Limestone Mine, (21/P)
2A	Inspecting officer with date, Type	Shri Sanjaya Kumar Sahoo, (Junior Mining Geologist) , 06/08/2024, Star Rating
2B	Accompanying official	Shri.Sachin Sharma, Geologist and Shri Rakesh kumar singh, Mines Manager
3	Total Lease Area (Ha) Non-forest and forest land	Total area-15.9953 Ha, Non-Forest land
4	Mine code, IBM Reg. under rule 45 of MCDR,17	38GUJ21055 & IBM/437/2011
5	Name of the lessee, Address, phone, email and fax number	Tata Chemicals Limited, Regd.-Bombay House, 24 Homy modi street, Fort,Mumbai-400001, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat - 360550, rgaur@tatachemicals.com
6	Village	Aniali
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	360550
10	State	Gujarat
11	Post office	Kondona
12	Nearest police station	Ranavav
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	24.11.1986
15	Date of Execution	25.05.1987
16	Date of opening of Mine	-
17	Date of first Renewal, if and its period & expiry	28.04.2006
18	Date of second Renewal, period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	03.04.2018, Expiry-24.05.2037 as per MMDR Amendment Act,2015
20	Name of the Nominated Owner with Address, phone, email and date of appointment	R. Mukundan, M/s Tata Chemicals Limited, Bombay House, 24 Homy Modi Street, Mumbai - 400001,Maharastra
21	Name of the Mine Agent, Address, phone, email, fax & date of appointment	Rohit Gaur, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat - 360550, rgaur@tatachemicals.com,15.7.22
22	Name of the Mines Manager with Address, phone, email, date of appointment in mines	Mayank Srivastava, BE & FCC(R), Wef - 15.12.2015 Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat - 360550
23	Name of the ME, Qua. & Exp., Address, phone , email, fax, date of appointment	Mayank Srivastava, BE & FCC metal(R), Wef -15.12.2015 Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat - 360550
24	Whether Geologist & ME appointed in mines satisfy the rule 55	C M Dwivedi, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat - 360550, cdwivedi@tatachemicals.com,
25	Date of Approval of MP//MMP	684(4)(1)/MP-366(11)/2021-22,Dated-

	with five-year period and specific condition, if any.	24.12.2021, Proposal Period- 2022-23 to 2026-27
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	Limestone
28	Method of Mining (O/C, U/G)	Opencast
29	Category (FM, Others or Manual)	A-Others (Mechanised)
30	Captive/Non Captive	Captive

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

### 1.0 Exploration

SN	Item	Proposals 2023-24	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Not Applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	Entire ML area is in G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal		
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not Applicable	
1e	Balance reserves as on 01.4.2023	UNFC Code: 111- 501340 MT 211- 26030 MT Total- 527370 MT		
	General remarks of inspecting officer	There was no proposal of exploration for the F.Y 2023-24. Total Lease area is explored to G1.		

### 2.0 Development

SN	Item	Proposals 2023-24	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit-02 Nmax: 2398233 mn Nmin: 2397948 mN Emax: 588622 mE Emin: 588496 mE	Pit-02 Location-N21° 41' 00.8" E069° 51' 25.0" Size- 276m x 206m x 4m	
2b	Separate benches in topsoil, OB and mineral	No Proposal	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:00	1:00	
2d	Quantity of topsoil generation in m3	Not Proposed	Not Applicable	
2e	Quantity of overburden generation in m3	Not Applicable	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There was no proposal of generation of Over Burden and Top soil. During inspection mining operations were not carried out.		

**3.0** Exploitation

SN	Item	Proposals 2023-24	Actual work	Remarks
3a	Number of pits proposed for production	01	01	Location- N21° 41' 00.8" E069° 51' 25.0" Size- 276m x 206m x 4m
3b	Quantity of ROM production proposed	50000 MT	750 MT	
3c	Recovery of saleable/usable mineral from ROM	50000 MT	750 MT	
3d	Quantity of mineral reject generation	Not proposed	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	THV-Cao-34%(Min) & Mgo-5% (Max)		
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	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed	Not Proposed	Not Applicable	-
3j	Provision of drilling & blasting in benches	Not Proposed	Not Applicable	-
3k	Provision of mining machineries in benches	Excavator-& Tippers	Excavator & Tippers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP	In Mineral: 6m	4m	
3m	Total area covered under excavation/pits	8.2253 Ha	7.657 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	
3o	Total area put in use under different heads	Area under Mining- 8.2253 Ha Infrastructure- 0.0056 Ha Roads- 0.7611 Ha	Area under Mining -7.657 Ha Road- 0.795 Ha Plantation- 0.933 Ha	
3p	Production of ROM mineral during last five-year period, as applicable (upto 2023-24)	2019-20-50000 tonne 2020-21-50000 tonne 2021-22- 50,000 tonne 2022-23-50,000 tonne 2023-24-50000 tonne	2019-20-48000 tonne 2020-21-48950 tonne 2021-22-49850 tonne 2022-23-39950 tonne 2023-24-750 tonne	

3q	General remarks of IO on method of mining etc.	No Violation found. During inspection mining operations were not carried out.
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#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals 2023-24	Actual work	Remarks
4a	Separate dumping of topsoil, OB/Mineral reject	Not Proposed	Not Applicable	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Not Applicable	
4c	Number of dumps within lease area and outside	Not Proposed	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit	Not Proposed	Not Applicable	
4e	Number of active & alive dumps	Not Proposed	Not Applicable	
4f	Number of dead dumps	Not Proposed	Not Applicable	
4g	Number of dumps stabilized	Not Proposed	Not Applicable	
4h	Whether Retaining wall or garland drain there	Not Proposed	Not Applicable	
4i	Length of Retaining wall or garland drain	Not Proposed	Not Applicable	
4j	Number of settling ponds	Not Proposed	Not Applicable	
4k	Specific comments of inspecting officer	There was no proposal for Dumping for F.Y 2023-24.		

#### 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	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)	No Proposal	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	No Proposal	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	There was no proposal for backfilling for F.Y 2023-24.		

#### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals 2023-24	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2).		Submitted on 11.06.2024	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii)	i) 0.1Ha ii) 100	i) 0.35 Ha ii)350	

	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	vi) Rs.10,000	iv) 2215	
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 etc.	Not Proposed	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	Not Applicable	
6e	Compliance of Environmental monitoring	Yes	Yes	
6f	General remarks of IO on PMCP compliance & progressive	Planation has been found in the field during inspection.		

## 7.0 Mineral Conservation

SN	Item	Proposals 2023-24	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting	50000 Tonnes	750 Tonnes	
7b	Method of grade-wise sorting i.e. manual or mech.	Not Proposed	Not Applicable	
7c	Different grade of mineral sorted out at mines	Not Proposed	Not Applicable	
7d	Any beneficiation process at mine	Not Proposed	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There was no proposal for beneficiation for F.Y 2023-24.		

## 8.0 Environment

SN	Item	Proposals 2023-24	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Not Proposed	Not Applicable	
8b	Concurrent use or storage of topsoil	Not Proposed	Not Applicable	
8c	Separate dumps for OB, waste rock, rejects, fines	Not Proposed	Not Applicable	
8d	Use of OB, waste rock, rejects	Not Proposed	Not Applicable	

	and fines dumps for restoring the land to its original use			
8e	Phased restoration, reclamation & rehabilitation of lands affected by mining operations	Not Proposed	Not Applicable	
8f	Baseline information on existence of plantation	--	2215 plants	
8g	Survival rate	80 %	55%	
8h	Water sprinkling on roads to control airborne dust	Yes	Through water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Fencing has been done near plantation.		

## 9.0 Compliance of Rule 45

S. N	Item	COMMENTS	Remarks
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9a	Status of submission of Monthly and Annual returns	A.R. was submitted with in time for the year 2023-24 on 11/06/2024, Monthly Return upto December-2024 was submitted on 03-01-2025.		
S. N	Item	Details GIVEN in A.R.	Observation of I/O	Violation observed under Rule 45(5)(c) read with 45(7)
9b	Scrutiny of AR for information on ME, Geologist & Manager	Manager- Shri Mayank Srivastava, Geologist- Shri CM Dwivedi	Manager- Shri Mayank Srivastava, Geologist- Shri CM Dwivedi	
9c	Scrutiny of AR on land use pattern for area under pits, reclaimed , dumps etc.	Mining - 7.657 Ha, Dump- NIL	Mining - 7.657 Ha, Dump- NIL	
9d	Scrutiny of Annual return -afforestation	During the year- 350 plants, Cumulative- 2215 plants, Survival-55%	During the year- 350 plants, Cumulative- 2215 plants, Survival-55%	
9e	Scrutiny of AR on mineral reject generation	NIL	NIL	
9f	Scrutiny of AR on ROM stock and/ or graded ore	Chemical grade O/S- 11304535 MT, C/S- 6575.435 MT	Chemical grade O/S- 11304535 MT, C/S- 6575.435 MT	
9g	Scrutiny of AR on sale value, Ex. Mine price & production cost	Ex. Mine price- Rs. 197.65 Rs. /Tonne (Chemical), Production cost- Rs. 197.65 /Tonne, Captive used	Ex. Mine price-Rs. 197.65 Rs. /Tonne (Chemical), Production cost- Rs. 197.65 /Tonne, Captive used	
9i	Scrutiny of Annual return	0	0	

	on fixed assets			
9k	Scrutiny of Annual return on mining machineries	Backhoe - 1 Water tanker - 1 Dumper - 2 Other HEMM machinery - 1 Wheel loader - 1	Backhoe - 1 Water tanker - 1 Dumper - 2 Other HEMM machinery - 1 Wheel loader - 1	

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

- a. No violations were pointed out during last inspection.
- b. The Drone data has been submitted on 28-06-2024. It has been checked and referred back to the Lessee.
- c. Self-assessment date of Star Rating is 27/06/2024 and Rating given the Lessee is 4. It has been evaluated and given 3 Star.
- d. Show Cause notice has been issued on 02-12-2024 under Rule 45(5) (c) read with 45(7) and the same has been complied on 28-01-2025.

Shri Sanjaya Kumar Sahoo  
Junior Mining Geologist  
Indian Bureau of Mines