

## INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Aniali Limestone Mine
1 (b)	Name of Inspecting officer & Designation	Shri Pushpendra Gaur (Regional Controller of Mines, IBM, Gandhinagar)
1 (c)	Accompanying Mines Representatives	Mayank Srivastava (Mines Manager), C M Dwivedi (Geologist)
1 (d)	Type of Inspection	Five Star Rating
1 (e)	Date of Inspection	11.04.2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	16.21 Hectare
3	Minecode	38GUJ08177
4	IBM Registration Number under rule 45 of MCDR, 1988	437
5	Name of the lessee, Address, phone, email and fax number	Tata Chemicals Limited Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat - 360550
6	Village	Aniali
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pincode	360550
10	State	Gujarat
11	Post office	Aniali
12	Nearest police station	Ranavav
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	12.06.1964
15	Date of Execution	31.10.1964
16	Date of opening of Mine	01.03.2017
17	Date of first Renewal, if applicable and its period & expiry	13.04.1983 period 20 Years
18	Date of second Renewal, if applicable and its period & expiry	21.10.2003 period 20 years <i>Redi</i> <u>31.3.2030</u>
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	03.04.2018 upto 31/03/2030
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	R. Mukundan Tata Chemicals Limited Bombay House, 24 Homy Modi Street, Mumbai - 400001, Maharashtra
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Rohit Gaur Tata Chemicals Limited Ranavav Quarries, Ranavav - 360550 Porbandar Gujarat

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mayank Srivastava BE Mining & FCC Metal(R) Date of appointment in mines - 15.12.2015 Tata Chemicals Limited Ranavav Quarries, Ranavav - 360550 Porbandar Gujarat
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mayank Srivastava Mining Engineer, BE (Mining) & FCC metal (R), Total Experience 21 years date of appointment in mine - 15.12.2015
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes. Mr. C M Dwivedi appointed as a Geologist
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(641)/96-MCCM(N)UDP, 31.12.1997 682(23)MP-437/2008- MCCM(N)UDP, 01.04.2014
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	682(23)MS-228/2003-MCCM(N)UDP, 29.01.2004 682(23)MS-473/2008-MCCM(N)UDP, 21.10.2008 684(4)(1)/MP-209/2019-MDRD(U)/GNR, 18.03.2019 Period 2019-20 upto 2023-24.
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)	Mechanised.
30	Captive/Non Captive	Captive

#### Exploration

SN	Item	Proposals (2022-23)	Actual work	Remarks
1a	Backlog of previous year			
1b	Exploration over lease area for Geological axis 1 or 2.	For Compliance Rule 12(3) of MCDR 2017 the proposal for exploration of entire mineralized area of the lease to establish vertical limit of limestone by drilling 10 Nos. of borehole of total meterage of 91.4m for	Entire lease has been explored. & also done the 10 borehole during the year 22-23.	Entire has been explored in G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year		Exploration agency was B K Diamond, Total 91.40 mtr drilled. Sent the	
1d	Balance area to be explored to bring Geological axis in 1 or 2			

		detailed exploration in G1 during 2022-23	Notice of Intimation in Form I Rule 12 of MCDR 17 dated on-09.07.2022 & Form-J maintained as per rule 48(1) MCDR 2017.
1e	Balance reserves as on 01.04.2023	(UNFC 111) 0.599089 Million Tonne Reserve (UNFC 221) 0.655527 Million Tonne Resource Balance as on 1 <sup>st</sup> Apr 2023	
1f	General remarks of inspecting officer on geology, exploration etc.		

### 2.0 Development

SN	Item	Proposals (2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	EW/ 585265 585501 N/S 2400523 2400855	As per plan	---
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	There was no such proposal	As per plan	---
2c	Stripping ratio or ore to OB ratio	1:0	1:0	---
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	As per plan	---
2e	Quantity of overburden generation in m <sup>3</sup>	Nil	As per plan	---
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			

### 3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	One	One	NIL
3b	Quantity of ROM mineral production proposed	88400 tonnes	82300 Tonnes	NIL
3c	Recovery of salable/usable mineral from ROM production	100%	100%	Sized limestone 65% & under size 35%
3d	Quantity of mineral reject generation	NIL	No ROM is rejected & entire mineral is utilized.	Entire mineral is utilized
3e	Grade of mineral reject generation and threshold value declared	NIL	No mineral rejects generated	NIL
3f	Quantity of sub-grade mineral generation	NIL	NIL	NIL
3g	Grade of sub-grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	NIL
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NIL	NA	NIL
3j	Provision of drilling & blasting in mineral benches	Yes	Apart from drilling blasting, rock breaker was also used during mining.	NIL
3k	Provision of mining machineries in mineral benches	Yes	Rock breaker, excavator, Dumpers,	NIL

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	11.70	10.27	NIL
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	NIL
3o	Total area put in use under different heads at the end of year	Pit- 11.70 Waste/reject Others- 0.56	Pit- 10.27 Waste/reject Others- 0.753 Plantation-0.41	NIL
3p	Production of ROM mineral during last five-year period, as applicable	2018-19-83932 tonne 2019-20-88000 tonne 2020-21-88000 tonne 2021-22-88000 tonne 2022-23-88400 tonne	2018-19-82886 tonne 2019-20-82150 tonne 2020-21-87970 tonne 2021-22-87850 tonne 2022-23-82300 tonne	Production is as per annual returns.
3q	General remarks of inspecting officer on method of mining etc.			

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	NA, No mines waste, concurrent use of top soil for plantation	NA, No mines waste, concurrent use of top soil for plantation	NA
4b	Location of topsoil, OB & mineral reject dumps	NIL	There was no proposal of OB removal and dumping of waste or mineral rejects.	The mining lease area is devoid of Top soil and OB, except in some portion few cm thick top soil.
4c	Number of dumps within lease area and outside lease area	NIL		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL		
4e	Number of active & alive dumps	NIL		
4f	Number of dead dumps	NIL		
4g	Number of dumps established	NIL		
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	NIL	---
4i	Length of Retaining wall or garland drain all along dump	NIL	NIL	---
4j	Number of settling ponds	NIL	Temporary water is used in plantation and GW recharge	---
4k	Specific comments of inspecting officer			

#### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-23)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area	Partial	Partial put which is used while doing	There was no such

	before starting backfilling		FMCP	area where backfilling can be proposed.
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NIL	Utilized for plantation	
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc			

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work Yes Submitted	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	NIL
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	0.3 Hect. 0.3 Hect 250 Nos. 250 Nos. Nil Rs. 75000	0.03 Hect. 0.03 Hect. 300 Nos. 300 Nos. Nil Rs. 489791	NIL
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	Plantation in periphery of the lease area	Plantation done in periphery of the lease area	NIL
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	250 Nos 0.3 Hect	300 Nos 0.03 Hect.	NIL
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Core Zone with in limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration to be monitor and should be in limit.	Core Zone with in limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration are	NIL

		measured with in limit	
6f	General remarks of inspecting officer on PMCP compliance & progressive		

**7.0 Mineral Conservation**

SN	Item	Proposals (2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	88400 Tonne	82300 Tonne	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Crushing and screening / manual	Crushing and screening / manual	NIL
7c	Different grade of mineral sorted out at mines	NIL	NIL	NIL
7d	Any beneficiation process at mines			
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

**8.0 Environment**

SN	Item	Proposals (2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	NIL	Occurrence of top soil is not regular. Concurrent use in Plantation.	Wherever available is utilised for the plantation work.
8b	Concurrent use or storage of topsoil	NIL	Concurrent use done with temporary storage.	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	Negligible quantity found	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes, as per PMCP Plantation 250 Nos	Yes as per PMCP Plantation 300 Nos	NIL
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	As per PMCP Plantation 250 Nos	Plantation 300 Nos	NIL
8g	Survival rate	70%	70%	Actual as per

