

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Aniali Limestone Mine, (Sy. No.94/P)
2A	Inspecting officer with date, Type	G.Ram, DCOM, 16/11/2022 FN , Star Rating
2B	Accompanying official	Sh.Mayank Srivastava, MM
3	Total Lease Area (Ha) Non-forest and forest land	Total area-6.07 Ha, Non-Forest land
4	Mine code, IBM Reg. under rule 45 of MCDR,17	38GUJ08333 & 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, cmdwivedi@tatachemicals.com
6	Village	Aniali
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	360550
10	State	Gujarat
11	Post office	Ranavav
12	Nearest police station	Ranavav
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	25.11.1986
15	Date of Execution	25.05.1987
16	Date of opening of Mine	01.11.2015
17	Date of first Renewal, if and its period & expiry	28.04.2006
18	Date of second Renewal, period & expiry	NA
19	Date of submission of renewal application if any	NA
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,Maharashtra
21	Name of the Mine Agent, Address, phone, email, fax & date of appointment	C M Dwivedi, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat – 360550, cmdwivedi@tatachemicals.com
22	Name of the Mines Manager with Address, phone, email, date of appointment in mines	Mayank Srivastava, BE (Mi) & 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 (Mi) & FCC(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, <a href="mailto:cmdwivedi@tatachemicals.com">cmdwivedi@tatachemicals.com</a> , Part wef,1.11.15
25	Date of Approval of MP//MMP with five-year period and specific condition, if any.	682(23)(355)/2004-MCCM(N)UDP, 13.01.2005
26	Date of Approval of RMP with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-365(12)/2021-22-MDRD(N)/GNR, 24/12/21 (For 2022-23 to 2026-27)
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 2021-22	Actual work	Remarks
1a	Backlog of previous year	Not proposal	Not done	NIL
1b	Exploration over lease area for Geological axis 1 or 2.	---	Entire ML area is in G1/G2	NA
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee itself		
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	NIL	NIL

1e	Balance reserves as on 01.4.2022	0.210091 million tonne
1f	General remarks of inspecting officer	Entire lease area is developed by various pits & explored in past by drilling in G1/G2 level.

### 1.0 Development

SN	Item	Proposals 2021-22	Actual work	Remarks
2a	Location of development w.r.t. lease area	2398468N - 2398600N, 589616E -589865E	As per proposal	
2b	Separate benches in topsoil, OB and mineral	Not Proposed	Maintained separately	
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.00	
2d	Quantity of topsoil generation in m3	NIL	0T	
2e	Quantity of overburden generation in m3	NIL	0T	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Lease area developed by mining pits, Limestone is used for captive soda ash & cement plant.		

### 2.0 Exploitation

SN	Item	Proposals 2021-22	Actual work	Remarks
3a	Number of pits proposed for production	Single Pit	Single Pit	
3b	Quantity of ROM production proposed	53,000T	52580T	
3c	Recovery of saleable/usable mineral from ROM	100%	100%	
3d	Quantity of mineral reject generation	9183T proposed	0T	
3e	Grade of mineral reject generation and THV	THV-Cao-34%(Min) & Mgo-5% (Max)		
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	Manual / mech.	Both	
3i	Any analysis or beneficiation study proposed	Not Proposed	Not done	-
3j	Provision of drilling & blasting in benches	as and when requires	As proposed	-
3k	Provision of mining machineries in benches	Excavator-& Tippers	Excavator & Tippers	
3l	Whether height of benches suitable for method	As proposed	Irregular bench height	
3m	Total area covered under excavation/pits	4.23Ha in plan period.	Total about 3.59Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	
3o	Total area put in use under different heads	--	Pit-3.5977, Road-0.1259 Infr.-0.0040	
3p	Production of ROM mineral during last five-year period, as applicable (2022-23 till Oct'22)	2018-19-53000 tonne 2019-20-53000 tonne 2020-21-53000 tonne 2021-22-53000 tonne 2022-23-53000 tonne	2018-19-52,885 tonne 2019-20-46,070 tonne 2020-21-25,650 tonne 2021-22-52,850 tonne 2022-23-16,400 tonne	Deviated due to lagging in ROM production in past.
3q	General remarks of IO on method of mining etc.	Mech.O/C method with using HEMM & tipper combination		

### 3.0 Solid Waste Management-Dumping

SN	Item	Proposals 2021-22	Actual work	Remarks
4a	Separate dumping of topsoil, OB/Mineral reject	for plantation purposes	not reported /generated	No OB/Waste proposed & generated.
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	NIL	
4c	Number of dumps within lease area and outside	None	None	
4d	Location of dumps w.r.t. ultimate pit limit	Not applicable	Not applicable	
4e	Number of active & alive dumps	No proposal	Not applicable	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Not applicable	NIL	
4h	Whether Retaining wall or garland drain there	NIL	NIL	
4i	Length of Retaining wall or garland drain	Not applicable	NIL	

4j	Number of settling ponds	Not proposed	NIL	
4k	Specific comments of inspecting officer	No OB/waste is generated presently. Topsoil is used for plantation.		

#### 4.0 Solid Waste Management-Backfilling

SN	Item	Proposals 2021-22	Actual work	Remarks
5a	Status on part or full extraction of mineral	Not proposed	NIL	
5b	Area under backfilling of mined out area	--	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Not proposed	NIL	
5d	Total area fully reclaimed & rehabilitated	Nil	---	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	There are no OB/Waste generation. Hence no backfilling & reclamation proposed & not carried out.		

#### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals 2021-22	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2).	Proposed	Submitted on 13.6.2022	
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	0.01 Hect. 200 Nos Nil Rs. 52,000	0.2 Hect. 241 Nos 1666 Nos Nil Rs. 2,22,461	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Voidfilled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other etc.	Not Proposed	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	200 Nos. & 0.02Ha 90M fencing	200 Nos. &0.02Ha	
6e	Compliance of Environmental monitoring		done	
6f	General remarks of IO on PMCP compliance & progressive	PMCP report is submitted.		

#### 7.0 Mineral Conservation

SN	Item	Proposals 2021-22	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting	53,000T	52580T	
7b	Method of grade-wise sorting i.e. manual or mech.	Manual & Mech.	Manual & Mec.	
7c	Different grade of mineral sorted out at mines	sorting & sizing	Yes	
7d	Any beneficiation process at mine	Not required	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Lessee is utilizing entire ROM by proper stacking, sorting & sizing as per plant requirement.		

#### 8.0 Environment

SN	Item	Proposals 2021-22	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Proposed	Utilising for plantation	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for OB, waste rock, rejects, fines	NA	NA	
8d	Use of OB, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation & rehabilitation of lands affected by mining operations	No proposal	Nil	
8f	Baseline information on existence of plantation	No proposal	Utilising for plantation	
8g	Survival rate		About 85%	
8h	Water sprinkling on roads to control airborne dust	proposed	Regular doing.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mines area is degraded mining pits & natural grown shrubs & bushes observed.		

### 9.0 Compliance of Rule 45

S. N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. & A.R. submitted with in time for the year 2021-22 (09/06/2022)		
S. N	Item	Details GIVEN in A.R.	Observation of I/O	Remarks
9b	Scrutiny of AR for information on ME, Geologist & Manager	Deails as per given in AR	Sh.Mayank Srivastava, CM Dwivedi, MSc (Geology)	NIL
9c	Scrutiny of AR on land use pattern for area under pits, reclaimed , dumps etc.		O/c-3.59 Ha, road-0.13Ha,	
9d	Scrutiny of Annual return -afforestation		No of trees: 241, survival-90%	
9e	Scrutiny of AR on mineral reject generation		There is no mineral rejects generaed	
9f	Scrutiny of AR on ROM stock,graded ore		Chem- O/S-12392.4 & C/S- 2129.1 t	
9g	Scrutiny of AR on sale value, Ex. Mine price & production cost		Ex. Mine price-166.91Rs. /T (Chemical) ,Captive used	
9i	Scrutiny of Annual return on fixed assets		given	
9k	Scrutiny of Annual return on mining machineries		Excavator, loader Tipper,water tanker, Air compressor	

**10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-**Presently mine was inspected for MCDR/Star Rating & Online star rating evaluation done(4Star). Presently no significant violation observed & pointed out.