

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	
1	Name of the Mine	Aniali Limestone Mine, (Sy. No.207/P)
2A	Inspecting officer with date, Type	G.Ram, DCOM, 15/11/2022 AN , Star Rating
2B	Accompanying official	Sh.Mayank Srivastava, MM
3	Total Lease Area (Ha) Non-forest and forest land	Total area-21.04 Ha, Non-Forest land
4	Mine code, IBM Reg. under rule 45 of MCDR,17	38GUJ21097 & 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	07.7.1966
15	Date of Execution	23.12.1966, 50 Year, Expiry-31.3.2030 as per MMDR Amendment Act,2015
16	Date of opening of Mine	01.03.2017
17	Date of first Renewal, if and its period & expiry	02.9.1985 period 20 Years
18	Date of second Renewal, period & expiry	17.11.2005
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 & 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, cmdwivedi@tatachemicals.com,
25	Date of Approval of MP//MMP with five-year period and specific condition, if any.	682(23)(337)/2003-MCCM(N)UDP, 1.11.2004
26	Date of Approval of RMP with five-year period and specific condition in approval letter, if any.	684(4)(1)MP-259/2019-20/GNR, 26.12.2019 for the period of 2019-20 to 2023-24
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	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee itself		NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	NIL	NIL

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1e	Balance reserves as on 01.4.2022	1.006 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.

2.0 Development

SN	Item	Proposals 2021-22	Actual work	Remarks
2a	Location of development w.r.t. lease area	2400627N-2400815N 585735E -585989E	Partly done due to logging in ROM	
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.		

3.0 Exploitation

SN	Item	Proposals 2021-22	Actual work	Remarks
3a	Number of pits proposed for production	Two Pit	Single Pit	Partly done due to logging in ROM
3b	Quantity of ROM production proposed	1,75,000 tonnes	42,750 Tonnes	
3c	Recovery of saleable/usable mineral from ROM	100%	100%	
3d	Quantity of mineral reject generation	67,870T 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	14.9342 Ha	About-6.1063 Ha	
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- 6.1063, Roads-1.2926 Infrastructure-0.6000	
3p	Production of ROM mineral during last five-year period, as applicable (2022-23 till Oct'22)	2018-19-1,75,000 tonne 2019-20-1,75,000 tonne 2020-21-1,75,000 tonne 2021-22-1,75,000 tonne 2022-23-1,75,000 tonne	2018-19-42878 tonne 2019-20-41350 tonne 2020-21-42965 tonne 2021-22-42750 tonne 2022-23-30,400 tonne (Oct 22)	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		

4.0 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	

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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.		

5.0 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	-- 0.1 hect 100 -- Rs. 50,800	-- 2.1Hect. 2900 Nos. 6695 Nos Rs. 229324	
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	Not proposed	Not done	
6e	Compliance of Environmental monitoring		done	
6f	General remarks of IO on PMCP compliance & progressive	PMCP report is submitted with in stipulated time.		

7.0 Mineral Conservation

SN	Item	Proposals 2021-22	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting	1,75,000 tonnes	42,750 Tonnes	
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

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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	Details as per given in AR	Sh.Mayank Srivastava, CM Dwivedi, MSc (Geology) (Part)	NIL
9c	Scrutiny of AR on land use pattern for area under pits, reclaimed , dumps etc.		O/c- 6.106 ha, Afforestation – 2.1 ha Wire Fencing – 2200 mt	
9d	Scrutiny of Annual return -afforestation		No of trees: 2900, survival-80%	
9e	Scrutiny of AR on mineral reject generation		There is no mineral rejects generated	
9f	Scrutiny of AR on ROM stock, graded ore		Chem– O/S-365.7 & C/S– 353.5 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		As per given in AR	
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.