

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details	
1(a)	Name of the Mine	Aniali Limestone Mine, Survey No-613(P)	
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist	
1(c)	Accompanying Mines Representatives	Sh. C.M. Devidi, Agent (Mines)	
1(d)	Type of Inspection	Star Ratings/MCDR	
1(e)	Date of Inspection	29.01.2019	
1	Name of the Mine	Aniali Limestone Mine	
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	15.9953 Hectare	
3	Mine Code	38GUJ21055	
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/437/2011	
5	Name of the lessee, Address, phone, email and fax number	Mines Office Tata Chemicals Limited Ranavav Quarries, Ranavav, Dist- Porbandar, Gujarat – 360550, Phone-02801230381 cdwivedi@tatachemicals.com	Registered Office Tata Chemicals Limited Bombay House-24, Homi Mody Street, Fort Mumbai, Dist-Mumbai (M.H.) Phone-02266658-282/143/144 Fax-022-66058143
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	25.11.1986 Initial grant was for 17.57Ha later on corrected as 15.99Ha	
15	Date of Execution	25.05.1987 for the period 25.05.2007 to 24.05.2027	
16	Date of opening of Mine	01.11.2015	
17	Date of first Renewal, if applicable and its period & expiry	28.04.2006	
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable	
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	29.10.2015	
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	R. Mukundan Tata Chemicals Limited Bombay House, 24 Homi Modi Street, Mumbai – 400001, Maharashtra	
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	C M Dwivedi Tata Chemicals Limited Ranavav Quarries, Ranavav - 360550 Porbandar, Gujarat cdwivedi@tatachemicals.com M-09227194002	
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 18 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, appointed.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan was approved vide letter no-682(23)(338)/2003-MCCM(N)UDP, 01.11.2004
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Scheme of mining approved vide letter no- 682(23)(472)/2006-MCCM(N)UDP, 16.10.2006 Scheme of mining approved vide letter no 682(23)(472)/2006-MCCM(N)UDP, 3.06.2013 Review of Mining Plan approved vide letter no-684(4)(1)/MP-11/2017-GNR, 12.04.2017
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

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

Exploration

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
1a	Backlog of previous year	No Proposals	NA	Entire lease area explored in G1 level of exploration. Hence, no further exploration proposed
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposals	Exploration carried out during 1996 over 100x100m grid for G1 level.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposals	M/s. GIEM India Consortium & M/s. Tata Chemicals Ltd carried exploration in past	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposals	NA	
1e	Balance reserves as on 01.04.2018	Proved (111)- 0.539 Million Tonne- Chemical Grade Proved(111)- 0.239Million Tonne- Cement Grade Feasibility (211)- 0.00825 Million Tonne	Proved (111)- 738700MT (Chemical +Cement grade)	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lase area has been explored as per UNFC Guidelines. Deposit being mined for shallow depth mineralisation of chemical grade limestone.		

2.0 Development

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
2a	Location of development w.r.t. lease area	From N239792 to 23981140N & From 588374E to 588466E	Development carried out at proposed locations with minor variations	No OB encountered in lease area
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	One bench of maximum 5m height proposed in mineral	Working carried by formation of one bench	
2c	Stripping ratio or ore to OB ratio	No Proposals	NA	
2d	Quantity of topsoil generation in m ³	No Proposals	NA	No OB encountered in lease area
2e	Quantity of overburden generation in m ³	No Proposals	NA	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There are total 12 existing pits area in the lease area of different dimensions where maximum dimension of pit No-4 (215.91m x 136.2m x 3m depth). Maximum depth of mineralisation established pit no-2 of 3.5m		

3.0 Exploitation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	Excavation proposed in 1pit i.e. in Pit No-4	Excavation carried out in Pit-4	
3b	Quantity of ROM mineral production proposed	50000 (65% sized limestone-32500MT & 35% undersized-17500MT)	40400 Chemical grade limestone	Undersized limestone also being used as chemical grade in Cement plant
3c	Recovery of salable/usable mineral from ROM production	65% sized limestone & 35% undersized Lst	90% recovered as chemical grade	
3d	Quantity of mineral reject generation	No Proposals	Nil	
3e	Grade of mineral reject generation and threshold value declared	No Proposals	NA	
3f	Quantity of sub-grade mineral generation	No Proposals	NA	
3g	Grade of sub-grade mineral generation	No Proposals	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	By crushing/screening
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Drilling & blasting by 102mm deep hole proposed	Done as per proposals of Drilling & blasting by 102mm deep hole proposed	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of maximum 5m proposed in mineral	Working carried by formation of one bench of 5m height	
3m	Total area covered	9.2393Ha	5.93Ha	

	under excavation/pits			
3n	Ore to OB ratio for the pit/mine during the year	No Proposals	NA	No OB encountered in lease area
3o	Total area put in use under different heads at the end of year	Under Pits-8.6613Ha Infrastructure-0.004Ha Road-0.574Ha	Under Pits-5.73 Infrastructure-0.400Ha Green belt-0.20Ha	NIL
3p	Production of ROM mineral during last five-year period, as applicable	Yr- 2013-14:50000MT Yr- 2014-15:50000MT Yr- 2015-16:50000MT Yr- 2016-17:50000MT Yr- 2017-18:50000MT	EC not available EC not available 8950 tonne 49600 tonne 40400 tonne	
3q	General remarks of inspecting officer on method of mining etc.	Mechanised open cast working for shallow depth chemical grade limestone by using excavator & tipper combination.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2017-18)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NA, No mines waste, concurrent use of top soil for plantation	NA, No mines waste, concurrent use of top soil for plantation	Mining lease area completely devoid of any sort of OB & top soil.
4b	Location of topsoil, OB & mineral reject dumps	No Proposals	Nil	
4c	Number of dumps within lease area and outside lease area	No Proposals	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposals	Nil	
4e	Number of active & alive dumps	No Proposals	Nil	
4f	Number of dead dumps	No Proposals	Nil	
4g	Number of dumps stabilised	No Proposals	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposals	Nil	
4i	Length of Retaining wall or garland drain all along dump	No Proposals	Nil	
4j	Number of settling ponds	No Proposals	0	
4k	Specific comments of inspecting officer	Mining lease area completely devoid of any sort of OB & top soil and hence maximum items details are not applicable.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2017-18)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposals	Nil	No pits have been mineral exhausted so far and hence not applicable reclamation & rehabilitation.
5b	Area under backfilling of mined out area	No Proposals	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposals	Nil	
5d	Total area fully reclaimed & rehabilitated	No Proposals	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Below the chemical grade limestone, cement grade limestone is encountered and hence scope of reclamation & rehabilitation doesn't exist in this lease area.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2017-18)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes Submitted	Yes Submitted on 12 th June 2018	
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	0.020 Hect. 0.020 Hect. 200 Nos 200 Nil Rs-52000	0.20 Hect. 0.20 Hect. 205 Nos 205 Nil Rs-116875	
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	No Proposals	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposals	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Regular monitoring in Core & Buffer Zone proposed for Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration.	Monitoring carried out & monitoring results of these parameter found within limits	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Due to non-availability of Environment Clearance mine was non-operation & restarted from the year 2016-17& PMCP works are being carried out by lessee accordingly.		

7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	50000	40400 Chemical grade limestone	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	During ROM loading by loader
7c	Different grade of mineral sorted out at mines	No Proposals	Sorted chemical grade limestone above 50mm used in soda ash plant & rest under size used in cement plant	
7d	Any beneficiation process at mines	No Proposals	Nil	

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral being conserved very smartly as material above 50mm size used in Soda ash plant & rest undersized material used in cement plant with maximum recovery.
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8.0 Environment

SN	Item	Proposals (2017-18)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposals	Very thin layer of top soil encountered being concurrently used for plantation	
8b	Concurrent use or storage of topsoil	No Proposals		
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposals	Nil	Concurrent use of top soil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Nil	No OB encountered in lease area
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	100 Nos saplings proposed	205 Nos of saplings planted	
8g	Survival rate	90%	90%	
8h	Water sprinkling on roads to control airborne dust	One dedicated water tanker proposed for water sprinkling	Water sprinkling carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mine is not that much satisfactory & more emphasis should be given on maximum plantation.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to December-2018 A.R. submitted up to till date- 12.6.2018	NIL

S.N.	Item	Details GIVEN in A.R. (2017-18)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mayank Srivastava appointed as Mining Engineer	Mining Eng. Was present during the inspection.	During the inspection it was advised to Mine representative to submit the AR & MR correctly for correct cost of production & Ex mine price as per the guidelines in future.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under Pits-5.73 Infrastructure-.400Ha Green belt-0.20Ha	Nil	
9d	Scrutiny of Annual return on afforestation	Total 205 saplings planted during the year	Saplings planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Applicable as no mineral reject generation	Nil	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Chemical Grade Lst Opening Stock- 5902MT Closing Stock- 2121MT	ROM stocks observed	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine cost reported for chemical grade limestone- Rs-163.62/MT	Nil	
9i	Scrutiny of Annual return on fixed assets	Fixed asset value is given as Rs-1706/-	Nil	
9k	Scrutiny of Annual return on mining machineries	Tata Hitachi EX-70 Tata Tippers Compressor Loader, Drill Machine, etc	Nil	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The last inspection of mine was carried out on dtd 09.01.2013 and violations of rules 27(E)(2), 23(F)(1), 34, 45(5)(b) and the same has been complied vide reply letter no. RQG/632/12-13 Date-28.03.2013. Present inspection was carried out in connection with evaluation of Star Ratings Templates during inspection violation of rules 33 & 54(a) were pointed out and accordingly violation letter was issued.
