

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Aniali Limestone Mine
1(b)	Name of Inspecting Officer	Sanjay M. Girhe
1(c)	Designation of Inspecting Officer	Sr. Mining Geologist
1(e)	Date of Inspection	30.09.2017
1(f)	Type of Inspection	Star Ratings/MCDR
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	15.9953 Hectare
3	Minecode	38GUJ21055
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	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 applicable and its period & expiry	28.04.2006 for the period 25.05.2007 to 24.05.2027 Application pending at State level.
18	Date of second Renewal, if applicable and its period & expiry	-
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 Homy Modi Street, Mumbai – 400001, Maharashtra
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	S K Bhakta 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 18 years date of appointment in mine - 15.12.2015
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56& 57.	Yes, Geologist and Mining Engineer appointed as per rule 55 of MCDR, 2017.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(338)/2003-MCCM(N)UDP, 01.11.2004 and 684(4)(1)/MP-11/2017-GNR, 12.04.2017
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)(472)/2006-MCCM(N)UDP, 16.10.2006 682(23)(472)/2006-MCCM(N)UDP, 3.06.2013
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 (2016-17)	Actual work (2016-17)	Remarks
1a	Backlog of previous year	Not Applicable	Not Applicable	Not Applicable
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	NA	Mineral in the lease area are about to exhaust
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	NA	
1e	Balance reserves as on 01.04.2017	0.6241	0.0496	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lase area has been explored as per UNFC/MEMC Rules,2015 guidelines.		

2.0 Development

SN	Item	Proposals(2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	E/W 600 800 N/S 1000 1100	Work done as per proposals with slight deviation	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not Applicable	Not Applicable	No top soil & OB encountered

2c	Stripping ratio or ore to OB ratio	Not Applicable	Not Applicable	
2d	Quantity of topsoil generation in m ³	Not Applicable	Not Applicable	
2e	Quantity of overburden generation in m ³	Not Applicable	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Chemical grade limestone with devoid of overburden and top soil in most of the area.		

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	52710	49600	
3c	Recovery of salable/usable mineral from ROM production	90%	90%	Losses due to manual sorting
3d	Quantity of mineral reject generation	Not Proposed	0	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	0	
3f	Quantity of sub-grade mineral generation	Not Proposed	NIL	Few quantity of cement grade Limestone generated during mechanical sorting
3g	Grade of sub-grade mineral generation	Not Proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
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	Jack Hammer drilling & blasting	Jack Hammer drilling & blasting adopted	
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	NIL	NIL	
3m	Total area covered under excavation/pits	5.01	5.01	
3n	Ore to OB ratio for the pit/mine during the year	Not Applicable	Not Applicable	
3o	Total area put in use under different heads at the end of year	Pit- 8.22 Road-0.574 Ha Plantation-0.15Ha Agriculture Land-2.84 Virgin Area-4.20	Pit- 9.12 Road-0.574 Ha Plantation-0.15Ha Agriculture Land-2.84 Virgin Area-4.20	
3p	Production of ROM mineral during last five-year period, as applicable	Yr- 2012-13 Yr- 2013-14	0 0	Due to non-availability of

		Yr- 2014-15 Yr- 2015-16 Yr- 2016-17	0 8950 49600	EC production was Nil
3q	General remarks of inspecting officer on method of mining etc.	Opencast working with deployment of rock breaker and dumper combination noticed.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not applicable as no mines waste, concurrent use of top soil for plantation	Not applicable as no mines waste, concurrent use of top soil for plantation	
4b	Location of topsoil, OB & mineral reject dumps	Not Applicable	Not Applicable	
4c	Number of dumps within lease area and outside lease area	Not Applicable	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Applicable	Not Applicable	
4e	Number of active & alive dumps	Not Applicable	Not Applicable	
4f	Number of dead dumps	Not Applicable	Not Applicable	
4g	Number of dumps stabilised	Not Applicable	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Applicable	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	Not Applicable	Not Applicable	
4j	Number of settling ponds	0	0	0
4k	Specific comments of inspecting officer	Concurrent use of top soil for plantation, OB, mineral reject encountered during mining operation hence most items are not applicable		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Applicable	Not Applicable	
5b	Area under backfilling of mined out area	Not Proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No comments		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	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	Yes Submitted	Yes Submitted on 3 rd July 2017	

	Annexure-20.			
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	0.20 Hect. 0.20 300 300 Nil Rs. 91000	0.30 Hect. 0.30 300 300 Nil Rs. 120020	Survival rate & caring of saplings found satisfactorily
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	Not Applicable	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Applicable	Not Applicable	
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 are with in limit	Core Zone with in limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration are with in limit	Monitoring carried out as per IBM guidelines
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	52782	dispatch Quantity 49600	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	NIL	NIL	

7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	In order as per approved mining plan	In order as per approved mining plan	

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Concurrent use for plantation	
8b	Concurrent use or storage of topsoil	Yes	Yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes and per PMCP	Yes and per PMCP	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	As per PMCP	300 plantation	
8g	Survival rate	90%	85%	
8h	Water sprinkling on roads to control airborne dust	yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Established Env. Monitoring Cell and most of environment control parameters are under control		

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 till date -10.12.2017 A.R. submitted up to till date- 30.6.2017		
S. N.	Item	Details GIVEN in A.R.(2016-17)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sh. Mayank Srivastava, Mining Eng. date of appointment in mine - 15.12.2015 Sh. C.M.Devedi, Geologist	ME & geologist were present during inspection	It was advised to the mine representatives present in the inspection to submit the online AR & MR meticulously.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 8.22 Road-0.574 Ha Plantation-0.15Ha Agriculture Land-2.84 Virgin Area-4.20	Pit- 8.22 Road-0.574 Ha Plantation-0.15Ha Agriculture Land-2.84	

			Virgin Area-4.20	
9d	Scrutiny of Annual return on afforestation	300 (Survival Rate-90%)	255 (Survival Rate-85%)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price- Rs-142.43 Cost of production Rs-142.43	Ex mine price & cost of production is given as same which appears incorrect.	
9i	Scrutiny of Annual return on fixed assets	Given	Given	
9k	Scrutiny of Annual return on mining machineries	Given	Given	

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

1. Date of Inspection – 10.1.2013, Violation date-19.2.2013, rule violated- 27(E)(2), 23(F)(1), 34, 42(1)(C), 45(5)(b), Compliance status- complied vide reply letter no. RQG/632/12-13 Date-28.03.2013. The present inspection carried out for evaluation of online templates filled by the lessee and no violations were pointed out.
