

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Aniali B Limestone Mine
1(b)	Name of Inspecting Officer & Desig.	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. Mayank Srivastava, ME & Sh. C.M.Diwedi, Geologist
1(d)	Type of Inspection	Star Ratings/MCDR
1(e)	Date of Inspection	01.10.2017
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	6.07 Hectare
3	Minecode	38GUJ08333
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	Pin code	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	Applied on 28.04.2006 for the period 25.05.2007 to 24.05.2027 and 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	20.10.2015
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	Mayank Srivastava Mining Engineer, BE (Mining) & FCC metal (R),

	Address, phone, email, fax number and date of appointment in mine	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)(355)/2004-MCCM(N)UDP, 13.01.2005 and 684(4)(1)/MP-12/2017-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)(473)/2006-MCCM(N)UDP, 10.11.2006 682(23)(473)/2006-MCCM(N)UDP, 1.04.2013
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	NIL	NA	To ascertain variation in grade 3 prospecting pits were made during the year 2016-17
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Not Proposed	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Applicable	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Not Applicable	
1e	Balance reserves as on 01.04.2017	0.2956	0.051	Including chemical & cement grade limestone
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 (2016-17)	Remarks
2a	Location of development w.r.t. lease area	E/W 1900 2100 N/S 600 800	E/W 1900 2100 N/S 600 800	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not Applicable	Not Applicable	
2c	Stripping ratio or ore to OB ratio	Not Applicable	Not Applicable	
2d	Quantity of topsoil generation in m3	Not Applicable	Not Applicable	
2e	Quantity of overburden	Not Applicable	Not Applicable	

	generation in m3			
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Chemical grade limestone mostly devoid of overburden and top soil in most of the area. A small generation of top soil is of concurrent use.		

2.0 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	51296	51050	
3c	Recovery of salable/usable mineral from ROM production	95%	95%	
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	
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	Not Applicable	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	Loader/JCB & dumper/tipper combination	Rock breaker with loader/JCB & dumper/tipper combination adopted	
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	2.73 Ha	2.72 Ha	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	
3o	Total area put in use under different heads at the end of year	Pit- 2.73 Ha Waste/reject Others- 0.20	Pit- 2.72 Ha Waste/reject Others- 0.20	
3p	Production of ROM mineral during last five-year period, as applicable	Yr- 2012-13 Yr- 2013-14 Yr- 2014-15 Yr- 2015-16 Yr- 2016-17	0 0 0 1950 51050	Due to non-availability of EC production was Nil
3q	General remarks of inspecting officer on method of mining etc.	Opencast working is being carried out by deployment of rock breaker and dumper combination.		

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)	NA, No mines waste, concurrent use of top soil for plantation	NA, 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, no 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 (2016-17)	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 (2016-17)	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 3 rd July 2017	

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. 0.020 240 240 Nil 51600	0.20 Hect. 0.20 250 250 Nil 96270	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	NA	NA	
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	No comments		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	51296	51050 Dispatch Quantity	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	No specific shorting required
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 the approved MP/ROMP plan		

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed	Concurrent use for plantation	
8b	Concurrent use or storage of topsoil	Yes proposed	Yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposed	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes and per PMCP proposals	Attended as per the PMCP proposals	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	As per PMCP	250 plantation	Good aesthetic near mine office
8g	Survival rate	75%	75%	NIL
8h	Water sprinkling on roads to control airborne dust	yes	Yes	NIL
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	Mayank Srivastava Mining Engineer, C.M. Diwedi Geologist reported	C.M. Diwedi Geologist & Mayank Srivastava were present in inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 2.72 Ha Waste/reject Others- 0.20Ha	Pit- 2.72 Ha Waste/reject Others- 0.20Ha	Slight variation due to less production in approved plan period.
9d	Scrutiny of Annual return on afforestation	240 (Survival Rate- 75%)	250 (Survival Rate-75%)	

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Given	Not Given	
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	Production cost Rs-142.43/MT	Production cost Rs-142.43/MT	NMET & DMF Considered
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. Last inspection was carried out on dtd. 10.1.2013, and rules 23(E)(2), 23(F)(1), 34, 42(1)(C), 45(5)(b) were pointed out and the same were compiled vide reply letter no. RQG/633/12-13 Date-28.03.2013. The present inspection was carried out for evaluation of online templates filled by the lessee for year 2016-17 but as such no violations were pointed out.
