

INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Aniali Limestone Mine
1 (b)	Name of Inspecting officer & Designation	Darshan Deep Bhardwaj (Sr. Asst. Controller, IBM)
1 (c)	Accompanying Mines Representatives	Mayank Srivastava
1 (d)	Type of Inspection	Star Rating
1 (e)	Date of Inspection	11.09.2021
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	16.21 Hectare
3	Minecode	38GUJ08177
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	12.06.1964
15	Date of Execution	31.10.1964
16	Date of opening of Mine	01.03.2017
17	Date of first Renewal, if applicable and its period & expiry	13.04.1983 period 20 Years
18	Date of second Renewal, if applicable and its period & expiry	21.10.2003 period 20 years
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	03.04.2018 upto 31/03/2030
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	C M Dwivedi 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 19 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.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(641)/96-MCCM(N)UDP, 31.12.1997 682(23)MP-437/2008- MCCM(N)UDP, 01.04.2014
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)MS-228/2003-MCCM(N)UDP, 29.01.2004 682(23)MS-473/2008-MCCM(N)UDP, 21.10.2008 684(4)(1)/MP-209/2019-MDRD(U)/GNR,18.03.2019 Period 2019-20 upto 2023-24
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

Exploration

SN	Item	Proposals (2020-21)	Actual work	Remarks
1a	Backlog of previous year	For Compliance Rule 12(3) of MCDR 2017 the proposal for exploration of entire mineralized area of the lease to establish vertical limit of limestone by drilling 8 Nos. of borehole of total meterage of 53m for	Entire lease has been explored. & also done the 8 borehole during the year 20-21	.
1b	Exploration over lease area for Geological axis 1 or 2.			
1c	Exploration Agency & Expenditure in lakh Rupees during the year			
1d	Balance area to be explored to bring Geological axis in 1 or 2			

		detailed exploration in G1 during 2020-21		
1e	Balance reserves as on 01.04.2021	0.147269 Million Tonne Balance as on 1 st Apr 2021	0.170506 Million Tonne Balance as on 1 st Apr 2021	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire has been explored in G1 level.		

2.0 Development

SN	Item	Proposals (2020-21)	Actual work	Remarks
2a	Location of development w.r.t. lease area	E/W 585241 585416 N/S 2400551 2400820	As per plan	---
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	There was no such proposal	As per plan	---
2c	Stripping ratio or ore to OB ratio	1:0	1:0	---
2d	Quantity of topsoil generation in m3	Nil	As per plan	---
2e	Quantity of overburden generation in m3	Nil	As per plan	---
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of pit is done as per proposal.		

3.0 Exploitation

SN	Item	Proposals (2020-21)	Actual work	Remarks
3a	Number of pits proposed for production	One	One	NIL
3b	Quantity of ROM mineral production proposed	88000 tonnes	87970 Tonnes	NIL
3c	Recovery of salable/usable mineral from ROM production	100%	100%	Sized limestone 65% & under size 35%
3d	Quantity of mineral reject generation	NIL	No ROM is rejected & entire mineral is utilized.	Entire mineral is utilized
3e	Grade of mineral reject generation and threshold value declared	NIL	No mineral rejects generated	NIL
3f	Quantity of sub-grade mineral generation	NIL	NIL	NIL
3g	Grade of sub-grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	NIL
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NIL	NA	NIL
3j	Provision of drilling & blasting in mineral benches	Yes	Apart from drilling blasting, rock breaker was also used during mining.	NIL
3k	Provision of mining machineries in mineral benches	Yes	Rock breaker, excavator, loader and tippers	NIL
3l	Whether height of benches in overburden and mineral suitable	Yes	Yes	-.

	for method of mining proposed in MP/SOM			
3m	Total area covered under excavation/pits	11.5120	8.7673	NIL
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	NIL
3o	Total area put in use under different heads at the end of year	Pit- 11.5120 Waste/reject Others- 0.3359	Pit- 8.7673 Waste/reject Others- 0.3819	NIL
3p	Production of ROM mineral during last five-year period, as applicable	2016-17-87628 tonne 2017-18-87394 tonne 2018-19-83932 tonne 2019-20-88000 tonne 2020-21-88000 tonne	2016-17- Nil (No EC) 2017-18-43625 tonne 2018-19-82886 tonne 2019-20-82150 tonne 2020-21-87970 tonne	
3q	General remarks of inspecting officer on method of mining etc.	Mining is done by using shovel dumper combination without using drilling and blasting.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2020-21)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	NA, No mines waste, concurrent use of top soil for plantation	NA, No mines waste, concurrent use of top soil for plantation	NA
4b	Location of topsoil, OB & mineral reject dumps	NIL	There was no proposal of OB removal and dumping of waste or mineral rejects.	The mining lease area is devoid of Top soil and OB, except in some portion few cm thick top soil.
4c	Number of dumps within lease area and outside lease area	NIL		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL		
4e	Number of active & alive dumps	NIL		
4f	Number of dead dumps	NIL		
4g	Number of dumps established	NIL		
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	NIL	---
4i	Length of Retaining wall or garland drain all along dump	NIL	NIL	---
4j	Number of settling ponds	NIL	Temporary water is used in plantation and GW recharge	---
4k	Specific comments of inspecting officer	No waste is generated as entire ROM is used.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2020-21)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Partial	Partial put which is used while doing FMCP	There was no such area where backfilling can be proposed.
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NIL	Utilized for plantation	

5d	Total area fully reclaimed & rehabilitated	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No waste is generated as entire ROM is used.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2020-21)	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	Yes Submitted	NIL
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	0.3 Hect. 0.3 hect 100 Nos. 200 Nos. Nil Rs. 193600	0.2 Hect. 0.2 Hect. 300 Nos. 1405 Nos. Nil Rs. 136141	NIL
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	Plantation in periphery of the lease area	Plantation done in periphery of the lease area	NIL
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	100 Nos 0.3 hect	300 Nos 0.2 Hect.	NIL
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 to be monitor and should be in limit.	Core Zone with in limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration are measured with in limit	NIL
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP return is submitted.		

7.0 Mineral Conservation

SN	Item	Proposals (2020-21)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	88000 Tonne	87970 Tonne	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Crushing and screening / manual	Crushing and screening / manual	NIL
7c	Different grade of mineral sorted out at mines	NIL	NIL	NIL
7d	Any beneficiation process at mines			
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire ROM is used and screening/manual sorting is done.		

8.0 Environment

SN	Item	Proposals (2020-21)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	NIL	Occurrence of top soil is not regular. Concurrent use in Plantation	Wherever available is utilised for the plantation work
8b	Concurrent use or storage of topsoil	NIL	Concurrent use done with temporary storage.	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	Negligible quantity found	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes, as per PMCP Plantation 100 Nos	Yes and per PMCP Plantation 300 Nos	NIL
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	As per PMCP Plantation 100 Nos	Plantation 300 Nos	NIL
8g	Survival rate	90%	90%	Actual as per annual return.
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	Aesthetic beauty is good.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Online Monthly and Annual returns	M.R. Submitted till August-21 A.R. of 2020-21 submitted	NIL

S.N	Item	Details GIVEN in A.R 2020-21	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	YES	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	YES	Found in order	
9d	Scrutiny of Annual return on afforestation	YES	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	YES	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	YES	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	YES	Found in order	
9i	Scrutiny of Annual return on fixed assets	YES	Found in order	
9k	Scrutiny of Annual return on mining machineries	YES	Found in order	

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

During inspection no significant violation found.