

MCDR INSPECTION REPORT

I/33693/2024.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Ishwaria 'G' Limestone Mine
2A	Inspecting officer with date, Type	Shri Naman Ekka, (Sr. Mining Geologist) , 08/12/2023 Star Rating
2B	Accompanying official	Sh.Rohit Gaur - Agent Mines
3	Total Lease Area (Ha),Non-forest and forest	Total area-8.7Ha, Non-Forest land
4	Mine code & IBM Registration Number under rule 45 of MCDR, 17	38GUJ20177 & 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, rgaur@tatachemicals.com
6	Village	Ishwaria
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	13.4.1970
15	Date of Execution	12.10.1970, Expiry- 31.3.2030 as per MMDR Amendment Act,2015
16	Date of opening of Mine	--
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, period & expiry	NA
19	Date of submission of renewal application / deemed extension if any	NA
20	Name of the Nominated Owner, Address, phone, email, fax , 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	Rohit Gaur, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat – 360550, cmdwivedi@tatachemicals.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Rakesh Kumar Singh, Diploma (Mi) & SCC(R), Works- Ranavav Quarries, Dist- Porbandar Gujarat – 360550 WEF-08.12.2021
23	Name of the ME, Qua. & Exp., Address, phone , email, fax, date of appointment	Rakesh Kumar Singh, Diploma (Mi) & SCC(R), Works- Ranavav Quarries, Dist- Porbandar Gujarat – 360550 WEF-08.12.2021
24	Whether Geologist & ME appointed in mines satisfy the rule	C M Dwivedi, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat – 360550, cmdwivedi@tatachemicals.com ,
25	Date of Approval of Mining Plan /Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)MS-527/09-MCCM(N), 16.10.2014 682(23)MS-527/09-MCCM(N)UDP, 26.07.2016,
26	Date of Approval of SOM/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-260/2019-20-GNR/70,08.1.2020 for 2020-21 to 2024-25 684(4)(1)MP/397/2021-22/GNR Dated11.5.2022 for 2022-23 to 2024-25
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 2022-23	Actual work	Remarks
1a	Backlog of previous year	Not proposal	Not done	
1b	Exploration over lease area for Geological axis 1 or 2.	---	G1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee itself	--	NA

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1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	NIL	NIL
1e	Balance reserves as on 01.4.2023 (111, 121 & 122)	Total resources-0.641210Million tonne & reserves available 0 Million Tonne		
1f	General remarks of inspecting officer	Lease has been explored in G1 Level		

1.0 Development

SN	Item	Proposals 2022-23	Actual work	Remarks
2a	Location of development w.r.t. lease area	E/W597727-598251 N/2401118-2400697	Done as per proposal.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Proposed	Maintained separately benches.	
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.00	
2d	Quantity of topsoil generation in m3	0T	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.	Development of pits has carried out as per proposal by separate benches in Top Soil and Mineral.		

2.0 Exploitation

SN	Item	Proposals 2022-23	Actual work	Remarks
3a	Number of pits proposed for production (Plate no 5A to 5E)	Single Pit	Done as per proposal.	
3b	Quantity of ROM mineral production proposed	133467T	133467T	
3c	Recovery of saleable/usable mineral from ROM production	100% of ROM proposed	Entire ROM is utilizing by proper sorting & sizing	Captive Consumption
3d	Quantity of mineral reject generation	Not proposed		Soda ash & Cement
3e	Grade of mineral reject generation and threshold value declared	Above THV & below cut-off grade bauxite	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 for segregating from ROM	Manual / mechanised	Manual / mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade/ mineral reject	Not Proposed	Not done	-
3j	Provision of drilling & blasting in mineral benches	drilling & blasting as and when requires	As and when requires	-
3k	Provision of mining machineries in mineral benches	Excavator-0.9M3 bucket capacity, Tippers - (17T)	Excavator-0.9M3 bucket capacity, Tippers	
3l	Whether height of benches in OB & mineral suitable for method of mining proposed	mechanised working with regular bench height	Irregular bench height	
3m	Total area covered under excavation/pits	0.2684Ha area proposed in plan period.	Total excavated area is about 7.327Ha.	
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 at the end of year	0.2684Ha area proposed in plan period.	Total excavated area is about 7.327Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19- 86275T 2019-20-65000T 2020-21-86000T 2021-22-65000T 2022-23-133467T	65000T 0T 47378.92T 65000T 133467T	Deviated due to lagging in ROM due to plant requirement /quality constraints.
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is Opencast. No Drilling and blasting is being carried out.		

3.0 Solid Waste Management-Dumping

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SN	Item	Proposals 2022-23	Actual work	Remarks
4a	Separate dumping of topsoil, OB/Mineral reject (Rule 32, 33)	OT	Utilized for plantation purposes.	No OB/Waste proposed & generated.
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Not generated, NIL	
4c	Number of dumps within lease area and outside lease area			
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)			
4e	Number of active & alive dumps			
4f	Number of dead dumps			
4g	Number of dumps stabilised			
4h	Whether Retaining wall or garland drain all along dumps are there			
4i	Length of Retaining wall or garland drain all along dump			
4j	Number of settling ponds			
4k	Specific comments of inspecting officer			As reported No Solid waste generated.

4.0 Solid Waste Management-Backfilling

SN	Item	Proposals 2022-23	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NIL	Entire ROM is utilizing by proper blending as per quality requirement.
5b	Area under backfilling of mined out area			
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area			
5d	Total area fully reclaimed & rehabilitated			
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No Back filling of the Mine has been carried out.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals 2022-23	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time correctly Rule 26 (2).	Proposed	Annual report on PMCP is submitted.	01.06.2023
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	Not Proposed	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	Not Proposed	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	100 Nos. & 0.1Ha 0M fencing	1100 Nos. & 1.16Ha Embankment work done	
6e	Compliance of Environmental monitoring (core zone/buffer zone)	monitoring as per IBM /MoEF	monitoring done as per IBM/MoEF	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP as per Proposals has been carried out.		

7.0 Mineral Conservation

SN	Item	Proposals 2022-23	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	133467T	133467T	Lessee is utilizing entire ROM by proper sorting & sizing as per plant requirement.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual & Mechanised both	Manual & Mechanised both	
7c	Different grade of mineral sorted out at mines	Stacking for sorting & sizing	Stacking for sorting & sizing	
7d	Any beneficiation process at mines	Not required	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No Beneficiation issue reported.		

8.0 Environment

SN	Item	Proposals 2022-23	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed for separate removal	Utilising for plantation purposes	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of OB, waste rock, rejects, fines dump for restoring land to original use	NA	NA	
8e	Phased restoration, reclamation & rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	No proposal	Utilising for plantation purposes	
8g	Survival rate	--	About 34%	
8h	Water sprinkling on roads to control airborne dust	--	Regular water sprinkling is done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Mines is surrounded by Little to no Vegetation.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted up to –November 2023 & A.R. submitted up to- 2022-23 (28/6/2023)		
S.N	Item	Details GIVEN in A.R.	Observation of I/O	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist & Manager	Rakesh Kumar Singh, Dip (Mi) & SCC(R), CM Dwivedi, Geologist		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details Given as per AR	O/c– 7.327 ha, Afforestation – 1.16 ha Wire Fencing – 250 mt	NIL
9d	Scrutiny of Annual return on afforestation		No of trees: 1100, survival-34%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		There is no mineral rejects generated	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Cement– O/S-3191.235 & C/S– 9123.925 ton	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		Ex. Mine price– 180.15Rs. /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 Dumper,water tanker, etc.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Presently mine was inspected for star rating & lessee is regular in submission of periodical returns. Online star rating evaluation validation done.

Naman Ekka
SMG