MCDR INSPECTION REPORT

1.0 GENERAL

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SN	Particulars	Details
1	Name of the Mine	Ishwaria 'G' Limestone Mine
2A	Inspecting officer with date, Type	G.Ram, DCOM, 11/4/2022 FN, MMP
2B	Accompanying official	Sh.Mayank Srivastava, MM
3	Total Lease Area (Ha), Non-forest and forest	Total area-8.7Ha, Non-Forest land
4	Mine code & IBM Registration Number	38GUJ02177 & IBM/437/2011
	under rule 45 of MCDR, 17	
5	Name of the lessee, Address, phone, email	Tata Chemicals Limited, RegdBombay House, 24 Homy modi
	and fax number	street, Fort, Mumbai-400001, Works-Ranavav Quarries, Ranavav,
		Dist- Porbandar Gujarat – 360550, cmdwivedi@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- as per MMDR Act, 1957 is under process.
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its	NA
	period & expiry	
18	Date of second Renewal, period & expiry	NA
19	Date of submission of renewal application /	NA
	deemed extension if any	
20	Name of the Nominated Owner, Address,	R. Mukundan, M/s Tata Chemicals Limited, Bombay House, 24
	phone, email, fax, date of appointment	Homy Modi Street, Mumbai – 400001, Maharastra
21	Name of the Mine Agent, Address, phone,	C M Dwivedi, Works- Ranavav Quarries, Ranavav, Dist-
	email, fax & date of appointment	Porbandar Gujarat – 360550, cmdwivedi@tatachemicals.com
22	Name of the Mines Manager with Address,	Rakesh Kumar Singh, Diploma (Mi) & SCC(R), Works- Ranavav
22	phone, email, fax number and date of	Quarries, Dist- Porbandar Gujarat – 360550 WEF-08.12.2021
	appointment in mines	Quantition, 2186 1 810 annual Culpinate Coope (1721 2021
23	Name of the ME, Qua. & Exp., Address,	Rakesh Kumar Singh, Diploma (Mi) & SCC(R), Works- Ranavav
	phone, email, fax, date of appointment	Quarries, Dist- Porbandar Gujarat – 360550 WEF-08.12.2021
24	Whether Geologist & ME appointed in	C M Dwivedi, Works- Ranavav Quarries, Ranavav, Dist-
	mines satisfy the rule	Porbandar Gujarat – 360550, cmdwivedi@tatachemicals.com,
25	Date of Approval of Mining Plan /Modified	682(23)MS-527/09-MCCM(N), 16.10.2014
	Mining Plan with five-year period and	682(23)MS-527/09-MCCM(N)UDP, 26.07.2016,
	specific condition in approval letter, if any.	
26	Date of Approval of SOM/Modified Scheme	684(4)(1)/MP-260/2019-20-GNR/70,08.1.2020 for 2020-21 to 2024-25
	of Mining with five-year period and specific	684(4)(1)MP/397/2021-22/GNR Dated11.5.2022 for 2022-23 to 2024-25
	condition in approval letter, if any.	
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

| 30 | Captive/Non Captive | Captive | Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. —

1.0 Exploration

	<u> </u>			
SN	Item	Proposals 2021-22	Actual work	Remarks
1a	Backlog of previous year	Not proposal	Not done	
1b	Exploration over lease area for Geological axis 1 or 2.		G1 & G2 level	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee itself		NA

1d	Balance area to be explored to bring	Not Proposed	NIL	NIL
	Geological axis in 1 or 2			
1e	Balance reserves as on 01.4.2022 (111,	Total resources-0.774677Million tonne & reserves available 0.133467		
	121 & 122)	Million Tonne as per approv	ved MMP dated 11.5.22	
1f	General remarks of inspecting officer	The most of lease area is developed by pit & explored in past. Entire		
		mineral deposed is well exposed of chemical/Cement grade limestone.		

1.0 **Development**

SN	Item	Proposals 2021-22	Actual work	Remarks
2a	Location of development w.r.t. lease	E/W597727-598183	Partly done as proposed	
	area	N/2400784-2401064	due to lagging in past.	
2b	Separate benches in topsoil, overburden	Proposed	Maintained separately	
	and mineral (Rule 15)	Proposed	benches.	
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.00	
2d	Quantity of topsoil generation in m3	2856T	OT	
2e	Quantity of overburden generation in m3	NIL	OT	
2f	General remarks of inspecting officer on	Mining lease area is	developed by forming open	cast mine pit of
	development of pit w.r.t. type of deposit	chemical & cement grade limestone.		
	etc.			

2.0 Exploitation

	<u>Exploitation</u>	_		
SN	Item	Proposals 2021-22	Actual work	Remarks
3a	Number of pits proposed for production (Plate no 5A to 5E)	Single Pit	Worked partly as legging in past in plan period.	
3b	Quantity of ROM mineral production proposed	65000T	65000T	
3c	Recovery of saleable/usable mineral from ROM production	100% of ROM proposed	Entire ROM is utilising	Captive Consumption
3d	Quantity of mineral reject generation	Not proposed	by proper sorting & sizing	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	
31	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	0.65Ha area proposed in plan period.	Total excavated area is about 7.3465Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	
30	Total area put in use under different heads at the end of year	0.65Ha area proposed in plan period.	Total excavated area is about 7.3465Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18 -85275T 2018-19- 86275T 2019-20-65000T 2020-21-86000T 2021-22-65000T	65000T 65000T 0T 47378T 65000T	Deviated due to lagging in ROM due to plant requirement /quality constraints.
3q	General remarks of inspecting officer on method of mining etc.	Mechanised opencast met combination & without J/F		HEMM & tipper

3.0 Solid Waste Management-Dumping

SN	Item	Proposals 2021-22	Actual work	Remarks
4a	Separate dumping of topsoil,	2856T	Proposed for utilised	No OB/Waste
	OB/Mineral reject (Rule 32, 33)		for plantation purposes.	proposed &
4b	Location of topsoil, OB & mineral reject	Not Proposed	Not generated, NIL	generated.
	dumps			
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	No overburden/waste	is generated presently.	Topsoil is utilising
	purely for plantation purposes.			

4.0 Solid Waste Management-Backfilling

SN	Item	Proposals 2021-22	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 utilising by proper blending as per
5b	Area under backfilling of mined out area			quality requirement.
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.	There are no OB/W reclamation proposed &	Vaste generation. Henc & not carried out.	e no backfilling &

6.0 Progressive Mine Closure Plan

SN	Item	Proposals 2021-22	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time correctly Rule 26 (2).	Proposed	Annual report on PMCP is submitted.	22.6.2021
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. & 0.01Ha 280M fencing	100 Nos. &0.01Ha 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 report is submonitoring is being car	nitted for the year. Pe ried out by third party.	eriodical environment

7.0 Mineral Conservation

SN	Item	Proposals 2021-22	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	65000T	65000T	Lessee is utilizing entire ROM by
7b	Method of grade-wise mineral sorting i.e.	Manual &	Manual &	proper sorting &
	manual or mechanical	Mechanised both	Mechanised both	sizing as per plant
7c	Different grade of mineral sorted out at	Stacking for sorting	Stacking for sorting	requirement.
	mines	& sizing	& sizing	
7d	Any beneficiation process at mines	Not required	NA	
7e	General remarks of inspecting officer on	Lessee is utilizing entir	e ROM by proper stackir	ng, sorting & sizing
	Mineral conservation & beneficiation	as per plant requiremen	ıt.	
	issues			

8.0 Environment

SN	Item	Proposals 2021-22	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 85%	
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	Aesthetic beauty in and around mines area is degraded mining pits & natural grown shrubs & bushes observed.		

9.0 Compliance of Rule 45

S.N	Item	COMME	NTS	Remarks
	Status of submission of Monthly and	M.R. submitted up to –Mar		
	Annual returns	submitted up to- 2020-21 (
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	Details Given as per AR	NIL
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Presently mine was inspected for MMP inspection & lessee is regular in submission of periodical returns. MMP approved on 11.5.22 & Online star rating evaluation validation done. Presently no significant violation observed.