

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Ishwaria Limestone Mine (14.37Ha)
1(b)	Name of Inspecting officer & Designation	G. Ram Sr.Assistant Controller of Mines
1(c)	Accomp.official	C.M.Dwedi & Technical Person-Deepak Gour
1(d)	Date & Type of Inspection	11.8.2017 AN & FMCP
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area: 14.37 Hect, Sy.No.-180/P Non-Forest land:
3	Mine code	38GUJ21040
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/437/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Tata Chemicals Ltd, Bombay House 24, Homi Mody Street, Fort Mumbai, Mumbai, State- Maharashtra -400 001, Phone +91 22 66658- 282/143/144,Fax 022 66058143, <u>Mines Office:</u> P.O Mithapur – 361345 ,Taluka – Okhamandal Dist. Devbhumi Dwarka , State-Gujarat -362 715
6	Village	Ishwaria
7	Taluka/Mandal	Kutiyana
8	District	Porbandar
9	Pin code	360575
10	State	Gujarat
11	Post office	Kutiyana
12	Nearest police station	Kutiyana
13	Nearest Railway station	Porbandar
14	Date of Grant of Mining Lease	31.05.1968
15	Date of Execution	03.10.1968
16	Date of opening of Mine	01.11.2006
17	Date of first Renewal, if app.	03.10.1988-02.10.1998
18	Date of second Renewal, if applicable and its period & expiry	03.10.1998-02.10.2018, Captive used therefore as per MMDR Amendment Act, 2015, Expiry-31.3.2030.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	22.09.1997
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri R.Mukandan, Nominated owner & C.E.O Tata Chemicals Limited, Bombay House, 24, Homi Mody Street, Fort, Mumbai, Maharashtra- 400 001 Phone' +91 22 66658-282/143/144
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri S Bhakta, Ranavav Quarries, P.O.-Ranavav, Taluka- Ranavav, Dist- Porbandar, Gujarat-360 550. Phone' +91 28012360381, Fax' 2360320

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Balram Singh Mining Engineer, BE (Mining) & FCC metal (R), Total Experience 15 years date of appointment in mine - 25.10.2013
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Balram Singh Mining Engineer, BE (Mining) & FCC metal (R), Total Experience 15 years date of appointment in mine - 25.10.2013
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)(505)/1994-MCCM(N)Ud, Dt-06.11.1995 682(23)(752)/10-MCCM(N)Ud, Dt-09.02.2012
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-225/2003-MCCM(N)Udd, 28.1.2004. 682(23)MS-421/2008-MCCM(N)Udd, 28.7.2008 682(23)(752)/2010-MCCM(N)Udd, 17.8.2015
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	A-OTFM
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals (2016-17)	Actual work	Remarks
1a	Backlog of previous year	Not proposed	--NIL--	The lessee has submitted the FMCP to this office due to exhaust of limestone for captive use as per provision of MCDR, 2017 & under process.
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	--NIL--	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed		
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	--	
1e	Balance reserves as on 01.04.2017	0T (111), 121&122 Limestone reserves as on 01.4.17 after depletion of production achieved.		
1f	General remarks of inspecting officer on geology, exploration etc.	<i>Violation under provision of rules 45(5) (b) & 45(5) (c), 26(2) & 33 pointed out on 18.9.2017 for rectification.</i>		

2.0 Development

SN	Item	Proposals (2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	E/W 596800 - 596600 N/S 240160-	E/W 596800- 596600 N/S 240160-	The lessee has submitted the FMCP to this office

		240170 as earmarked in plate 5A&5B	240170	due to exhaust of limestone for captive use as per provision of MCDR, 2017 & under process.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not Proposed of topsoil	NIL	
2c	Stripping ratio or ore to OB ratio	-do-	NIL	
2d	Quantity of topsoil generation in m3	NO Proposal	NIL	
2e	Quantity of overburden generation in m3	-do-	NIL	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The lease area is devoid of overburden/waste generation.		

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	one	one	The lessee has submitted the FMCP to this office due to exhaust of limestone for captive use as per provision of MCDR, 2017 & under process.
3b	Quantity of ROM mineral production proposed	9338	9334.5	
3c	Recovery of salable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	4669	4200.52	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
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	Yes-J/H Drilling & Blasting	Yes-J/H Drilling & Blasting	
3k	Provision of mining machineries in mineral benches	Excavator & loader-tipper combination	Excavator & loader-tipper combination	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	No overburden Benches	--
3m	Total area covered under excavation/pits	Pit- 3.7 Waste/reject Others- 10.67	Pit- 3.7 Waste/reject Others- 10.67	-
3n	Ore to OB ratio for the pit/mine during the year	Not proposed	NIL	

3o	Total area put in use under different heads at the end of year	Area under mining total-About 3.7Ha, Road-0.02Ha,	Area under mining total-About 3.7Ha, Road-0.02Ha,	The lessee has submitted the FMCP to this office due to exhaust of limestone for captive use as per provision of MCDR, 2017 & under process.
3p	Production of ROM mineral during last five-year period, as applicable	2012-13-41150T 2013-14-41644T 2014-15-39477T 2015-16-22862T 2016-17-9338T	2012-13-17400T 2013-14-37745T 2014-15-39425T 2015-16-22854T 2016-17-9334.5T	
3q	General remarks of inspecting officer on method of mining etc.	<i>Violation under provision of rules 45(5) (b) &45(5) (c), 26(2) & 33 pointed out on 18.9.2017 for rectification.</i>		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal -do- -do- -do-	NIL NIL NIL NIL	-
4b	Location of topsoil, OB & mineral reject 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	<i>Violation under provision of rules 45(5) (b) &45(5) (c), 26(2) & 33 pointed out on 18.9.2017 for rectification.</i>		

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	No proposal	NIL	
5b	Area under backfilling of mined out area		NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area		NIL	
5d	Total area fully reclaimed & rehabilitated		NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc	<i>Violation under provision of rules 45(5) (b) &45(5) (c), 26(2) & 33 pointed out on 18.9.2017 for rectification.</i>		

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).	Not submitted.	Violation under provision of rules 26(2) pointed out.	The lessee has submitted the FMCP to this office due to exhaust of limestone for captive use as per provision of MCDR, 2017 & under process.
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	0.26 Hect. 0.26 320 320 Nil 146920	0.26 Hect. 0.26 320 320 Nil 146920	
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 Proposal	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	-do-	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	-do-	Environmental monitoring is conducted periodical by authorized agency.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	<i>Violation under provision of rules 45(5) (b) & 45(5) (c), 26(2) & 33 pointed out on 18.9.2017 for rectification & under process</i>		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal	NIL	The lessee has submitted the FMCP to this office due to exhaust of limestone for captive use as per provision of MCDR, 2017 & under process.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	-do-	NIL	
7c	Different grade of mineral sorted out at mines	-do-	NIL	
7d	Any beneficiation process at mines	-do-	NIL	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire quantity mined has to shift to crushing and screening plant in Ishwariya 13.15 Ha. Lease.		

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	NIL	The lessee has submitted the FMCP to this office due to exhaust of limestone for captive use as per provision of MCDR, 2017 & under process.
8b	Concurrent use or storage of topsoil	-do-	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	-do-	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-do-	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-do-	NIL	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	-do-	NIL	
8g	Survival rate	Not proposed	About 60-70% cumulative	
8h	Water sprinkling on roads to control airborne dust	-do-	NIL	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	<i>Violation under provision of rules 45(5) (b) &45(5) (c), 26(2) & 33 pointed out on 18.9.2017 for rectification & under process</i>		

9.0 Compliance of Rule 45

SN.	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date –June-2017 A.R. submitted up to till date-2016-17.		<i>The lessee/party has not been submitted the monthly & annual returns online under provision of rules 45 of MCDR,2017 to this office till date & accordingly violation pointed out under rules 45(5)(b)&45(5) (c),26(2)& 33 pointed out on 18.9.2017 for rectification & under process.</i>
S.N	Item	Annual return as per provision of rule 45 of MCDR 2017 for the year 2016-17 has not been submitted to IBM	Observation of I/Officer /Actual report	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Not applicable	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		--	
9d	Scrutiny of Annual return on afforestation		--	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		Not applicable	
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: -The MS was approved Vide letter No 682(23)(752)/10-MCCM(N)/UDP, Dated-14.8.2015 for period 2015-16 to 2016-17 & further proposal of FMCP is submitted for approval & under process due to mineral exhausted.