

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Ishwaria Limestone Mine (21.04Ha)
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	10.8.2017 AN & FMCP
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area: 21.04 Hect, Sy.No.-448/P Non-Forest land:
3	Mine code	38GUJ21076
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	19.6.1974
15	Date of Execution	19.6.1974
16	Date of opening of Mine	01.11.2006
17	Date of first Renewal, if app.	15.06.1993,ML was first renewed for the period of 20 Years (19.6.1974 to 18.6.2094)
18	Date of second Renewal, if applicable and its period & expiry	11.06.2003,19.6.2004 to 18.6.2024 for a period of 20 Years
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	11.06.2003,
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	Shri Balram Singh, BE (Mining)

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Balram Singh, BE (Mining)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mining operation is discontinued from 01.4.2017 due to exhaustion of Chemical grade limestone mineral. (Copy of discontinuance notice is submitted on 20.4.2017)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682 (23) (712)/2009- MCCM (N) dated 6.4.2015 under rule 12 (3) & 23 (B) of MCDR'88 for the period of 5 years i.e. 2015-16 to 2020-21 with partly development work.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NIL, Remarks-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.
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
30	Captive/Non Captive	Captive

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

SN	Item	Proposals (2016-17) & 17-18	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) & 221(25844T) & 221,222(11897T), 331(15493T) Limestone reserves as on 01.4.17 after depletion of production achieved.		
1f	General remarks of inspecting officer on geology, exploration etc.	Violation under provision of rules 45(5) (b), 26(2) & 33 pointed out on 18.9.2017 for rectification.		

### **2.0 Development**

SN	Item	Proposals (2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	NO Proposed	NIL	No Overburden/ Waste is proposed in approved Mining Plan
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	-do-	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	
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### 3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	Not Proposed	NIL	<i>The lessee has been achieved the ROM production of 67403T for the year 2014-15 &amp; remaining reserves of 13T available. Further lessee has submitted the FMCP to IBM &amp; under process due to mineral exhaust.</i>
3b	Quantity of ROM mineral production proposed	0T	0T	
3c	Recovery of salable/usable mineral from ROM production	Not proposed	NA	
3d	Quantity of mineral reject generation	Not proposed	NIL	
3e	Grade of mineral reject generation and threshold value declared	-do-	NIL	
3f	Quantity of sub-grade mineral generation	-do-	NA	
3g	Grade of sub-grade mineral generation	-do-	NIL	
3h	Manual / Mechanized method adopted for segregating from ROM	-do-	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	-do-	NIL	
3j	Provision of drilling & blasting in mineral benches	-do-	NIL	
3k	Provision of mining machineries in mineral benches	-do-	NIL	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	No overburden Benches	Lessee has submitted the FMCP to IBM & under process due to mineral exhaust.
3m	Total area covered under excavation/pits	Pit- 11.51Ha Others- 9.53Ha	Pit- 10.35Ha Others- 10.69Ha	
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	Pit- 11.51Ha Others- 9.53Ha	Pit- 10.35Ha Others- 10.69Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2012-13-80265T 2013-14-80345T 2014-15-94522T 2015-16-67416T 2016-17-0T	2012-13-79500T 2013-14-36500T 2014-15-94000T 2015-16- 67403T 2016-17-0T	
3q	General remarks of inspecting officer on method of mining etc.	Violation under provision of rules 45(5)(b),26(2)&33 pointed out on 18.9.2017 for rectification.		

### 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	Stacked separately & utilized.	-
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)	-do-		
4e	Number of active & alive dumps			-
4f	Number of dead dumps			-
4g	Number of dumps stabilised	-do-		-
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>Lessee has submitted the FMCP to IBM &amp; under process due to mineral exhaust.</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 since no OB generated	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	NIL		

#### **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.	
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	1.19Ha 1.19Ha 200  5612 --- 54000 Rs.	0.32Ha 0.32Ha 1108  2607 --- 129160 Rs	
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 Proposed-	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated	Not Proposed-	NA	

	(ha) iii) Method of rehabilitation			
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),26(2)&amp; 33 pointed out on 18.9.2017 for rectification.</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 entire ROM of limestone is properly utilizing by size separation etc as per plant.
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	<i>Entire quantity mined has to shift to crushing and screening plant in Ishwariya 13.15 Ha. Lease.</i>		

#### **8.0 Environment**

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	NIL	Top soil was removed separately & utilize for plantation purpose.
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-	Poor survival due to scarcity of water.	
8g	Survival rate	100%	About 46%	
8h	Water sprinkling on roads to control airborne dust	-do-	Water Sprinkling done on haul road	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	<i>Lessee has submitted the FMCP to IBM &amp; under process due to mineral exhaust.</i>		

## 9.0 Compliance of Rule 45

SN.	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	A.R. for 2016-17 is submitted online dated-22.6.2017.		<i>The lessee/party has not been submitted the monthly returns online under provision of rules 45 of MCDR,2017 to this office till date &amp; accordingly violation pointed out under rules 45(5)(b),26(2)&amp; 33 pointed out for rectification. Further Lessee has submitted the FMCP to IBM &amp; under process due to mineral exhaust.</i>
S. N.	Item	Reported in AR-16-17	Observation of I/Officer /Actual reported in Returns	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NIL	NIL	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	9.9Ha O/c & 4.79Ha reclaimed area given	10.35Ha area under mining, 2.29Ha reclaimed.	
9d	Scrutiny of Annual return on afforestation	870, 75% Survival	Good afforestation with fencing done	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not mentioned	Not generated	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S-1937.69T, Production-0T, Closing Stock-1937.69T, Dispatch-0T	--NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine Price-0	ROM Production-0T	
9i	Scrutiny of Annual return on fixed assets	Given	Mentioned	
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)(712)/09-MCCM(N)/UDP, Dated-06.4.2015 for period 2015-16 to 2020-21 with partly development. Lessee has submitted the FMCP to IBM & under process due to mineral exhaust.

Date of Inspection – 12.3.2013, Violation date-12.10.2013, rule violated- 13(1), 24(3), 27(4), 28(5)(b)(iv), 30(2), 35, 42(1), 45(1), 45(5)(b)(viii), 45(6)(i), 45(6)(ii) Compliance status- Complied vide reply letter no. RQG/381/13-14 Date-09.11.2013

Date of Inspection – 9.3.2013, Violation date-25.4.2013, rule violated- 13(1), 23(E)(2) , 42(1)(c)(i), Compliance status- Complied vide reply letter no. RQG/70/13-14 Date-04.05.2013

Date of Inspection – 07.2.2016, Violation date-13.04.2016, rule violated- 13(1), 27(4), 29, 41(1)(c)(1), 45(5)(b), Compliance status- Complied vide reply letter no. RQG/112/2016 Date-20.05.2016

Presently violation under provision of rules 45(5) (b) 26(2) & 33 pointed out for rectification on 18.9.2017 & lessee submitted the compliance report.