

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Devda Limestone Mine (13.44Ha)
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	12.8.2017 FN & FMCP
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area: 13.44 Hect, Sy.No.-221 Non-Forest land:
3	Mine code	38GUJ21035
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	Devda
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	10.04.1968
15	Date of Execution	03.10.1968
16	Date of opening of Mine	-
17	Date of first Renewal, if app.	28.09.1987
18	Date of second Renewal, if applicable and its period & expiry	22.09.1997,04.10.1968 for 50 years as per MMDR Amendment Act, 2015
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	Balram Singh Mining Engineer, BE (Mining) & FCC metal (R),

	number and date of appointment in mines	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)(527)/1994-MCCM(N)UDP, 06.09.1995 682(23MP-419/2008-MCCM(N)UDP, 26.05.2014
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-227/2003MCCM(N)UDP, 30.01.2004 682(23)(MS-419)/2008-MCCM(N)UDP, 24.07.2008 682(23)(MS-419)/2008-MCCM(N)UDP, 14.8.2015 for 2015-16 to 2018-19.
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--	Mining operation is discontinued due to mineral exhaustion of Chemical grade limestone. Further FMCP is submitted & 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(4846T) 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 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-	Not applicable	
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		

### 3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	Block-A& D	Block-A& D	Mining operation is discontinued due to mineral exhaustion of Chemical grade limestone. Further FMCP is submitted & under process.
3b	Quantity of ROM mineral production proposed	37064T	37060T	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral reject generation and threshold value declared	0	0	
3f	Quantity of sub-grade mineral generation	Not proposed	NIL	
3g	Grade of sub-grade mineral generation	Not proposed	utilizing with proper sorting.	
3h	Manual / Mechanized method adopted for segregating from ROM	Machanised	Machanised	
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	Rockdrill, Compressor	Rockdrill, Compressor	
3k	Provision of mining machineries in mineral benches	BackHoe, Loader/ Tipper ,Rockdrill, Compressor	BackHoe, Loader/ Tipper ,Rockdrill, Compressor	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No OB benches	NIL	--
3m	Total area covered under excavation/pits	9.41Ha	9.41Ha	-
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- 9.41Ha Waste/reject Others- 4.03	Pit- 9.41Ha (about)Waste/reject Others- 4.03	
3p	Production of ROM mineral during last five-year period, as applicable	2012-13-NA T 2013-14-NA T 2014-15-66881 2015-16-46520T 2016-17-37064T	2012-13-83550T 2013-14-27000T 2014-15-44800T 2015-16-46520T 2016-17-37060T	

3q	General remarks of inspecting officer on method of mining etc.	Violation under provision of rules 45(5)(b),26(2)&33 pointed out for rectification.
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#### 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.	Mining operation is discontinued due to mineral exhaustion of Chemical grade limestone. Further FMCP is submitted & under process.
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	----		

#### 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, area is devoid of OB	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			

#### 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.	Mining operation is discontinued due to mineral exhaustion of Chemical grade limestone. Further
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	0.167Ha 0.15Ha 150No  175m Nil 44000Rs	0.16Ha 0.15Ha 500No  175m Nil 44000Rs	

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	-do-	NA	FMCP is submitted & under process.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposal, area is devoid of OB	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	Violation under provision of rules 45(5)(b),26(2)&33 pointed out for rectification.		

### **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 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	Not Proposal	NIL	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Violation under provision of rules 45(5)(b),26(2)&33 pointed out for rectification.		

### **8.0 Environment**

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	NIL	Mining operation is discontinued due to mineral exhaustion of Chemical grade limestone. Further FMCP is submitted & under process.
8b	Concurrent use or storage of topsoil	-do-	Top soil generated was used for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed, area is devoid of OB	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-	Not applicable presently.	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	-do-	NIL	
8g	Survival rate	150	500 Nos. (more than 100%)	175m wire fencing
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	Violation under provision of rules 45(5)(b),26(2)&33 pointed out for rectification.		

#### 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-2017A.R. submitted up to till date-2016-17.		Violation under provision of rules 45(5)(b), 26(2)&33 pointed out for rectification & under process.
S. N.	Item		Observation of I/Officer /Actual reported in Returns	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	BalramSingh,MM & CM Dwedi, Geologist given	Appointed as Part time as per earlier category	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	8.44Ha.- O/C 3.36Ha -Reclaimed 0.3Ha-Road& other	Mining operation is discontinued due to mineral exhaustion of Chemical grade limestone. Further FMCP is submitted & under process.	
9d	Scrutiny of Annual return on afforestation	500Nos.plantation		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/s-1021.02T, Production-37060T, Dispatch-35562.1T, C/s-2518.9T		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex.Mine Price- 134.7Rs./T		
9i	Scrutiny of Annual return on fixed assets	Details given		
9k	Scrutiny of Annual return on mining machineries	BackHoe, Loader/ Tipper,Rockdrill, Compressor		

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 2018-19,(ROM proposal for 2015-16& 2016-17) simultaneously proposal of FMCP is submitted for approval due to mineral exhaust & under process. Presently violation under provision of rules 45(5) (b) 26(2)& 33 pointed out for rectification.