

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Pachhtar Limestone Mine
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. C.M.Diwedi, Geologist & Sh. D.Gaur,TQP
1(d)	Type of Inspection	Review of Mining Plan
1(e)	Date of Inspection	03.04.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	116.0544 Hectare
3	Minecode	38GUJ07042
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/437/2011
5	Name of the lessee, Address, phone, email and fax number	Tata Chemicals Limited P.O.-Ranavav Quarries, Taluka-Ranavav, Dist- Porbandar, Gujarat – 360550 Ph No-+912801230381, Fax No-+912801230320 Email:cdwivedi@tatachemicals.com
6	Village	Pachhtar
7	Taluka/Mandal	Bhanvad
8	District	Devbhumi Dwarka
9	Pincode	360510
10	State	Gujarat
11	Post office	Pachhtar
12	Nearest police station	Bhanvad
13	Nearest Railway station	Bhanvad
14	Date of Grant of Mining Lease	12.06.1964
15	Date of Execution	29.10.1964
16	Date of opening of Mine	-
17	Date of first Renewal, if applicable and its period & expiry	13.04.1983
18	Date of second Renewal, if applicable and its period & expiry	25.10.1993
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	21.10.2003
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	R. Mukundan Tata Chemicals Limited Bombay House, 24 Homy Modi Street, Mumbai – 400001, Maharashtra
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	C M Dwivedi Tata Chemicals Limited P.O.-Ranavav Quarries, Taluka-Ranavav, Dist- Porbandar, Gujarat – 360550 Ph No-+912801230381, Fax No-+912801230320 Email:cdwivedi@tatachemicals.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	NA- (No mining operation as the mining lease is under temporary closure.)
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	NA- (No mining operation as the mining lease is under temporary closure.)

24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	-
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(117)/89-MCCM (N)-UDP, dt- 30.08.1991
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-259/2004-MCCM (N) UDP, Dt- 11.08.2004, 682(23)MS-524/09-MCCM (N)-UDP , dt- 09.03.2012 682(23) CLP-157 /2014 MCCM (N) Udp, Dt- 02.09.15
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Mechanised.
30	Captive/Non Captive	Captive

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

### **Exploration**

SN	Item	Proposals (2016-17)	Actual work	Remarks
1a	Backlog of previous year	Not Proposed	Not Applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Not Applicable	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Not Applicable	
1e	Balance reserves as on 01.04.2018	3.027946 (Million Ton)	0	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lase area has been explored as per UNFC Guidelines		

### **2.0 Development**

SN	Item	Proposals(2016-17)*	Actual work	Remarks
2a	Location of development w.r.t. lease area	Not Proposed	Not Applicable	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not Proposed	Not Applicable	
2c	Stripping ratio or ore to OB ratio	Not Proposed	Not Applicable	
2d	Quantity of topsoil generation in m3	Not Proposed	Not Applicable	
2e	Quantity of overburden generation in m3	Not Proposed	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No working. Mine discontinued.		

### **3.0 Exploitation**

SN	Item	Proposals (2016-17)*	Actual work	Remarks
3a	Number of pits proposed for production	Not Proposed	Not Applicable	
3b	Quantity of ROM mineral	Not Proposed	Not Applicable	

	production proposed			
3c	Recovery of salable/usable mineral from ROM production	Not Proposed	Not Applicable	
3d	Quantity of mineral reject generation	Not Proposed	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	Not Applicable	
3f	Quantity of sub-grade mineral generation	Not Proposed	Not Applicable	
3g	Grade of sub-grade mineral generation	Not Proposed	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	Not Applicable	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Not Proposed	Not Applicable	
3k	Provision of mining machineries in mineral benches	Not Proposed	Not Applicable	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not Proposed	Not Applicable	
3m	Total area covered under excavation/pits	21.16	23.86	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	
3o	Total area put in use under different heads at the end of year	Pit- 21.16 Waste/reject Others- 101.9711	Pit- NA Waste/reject Others- NA	
3p	Production of ROM mineral during last five-year period, as applicable	Yr- 2013-14 Yr- 2014-15 Yr- 2015-16 Yr- 2016-17	97500 0 0 0	
3q	General remarks of inspecting officer on method of mining etc.	<b><i>No mining operation as the mining lease is under temporary closure</i></b>		

\*No mining plan or scheme of mining during the period was in force

#### **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)	NA, No mines waste, concurrent use of top soil for plantation	NA, No mines waste, concurrent use of top soil for plantation	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Not Applicable	
4c	Number of dumps within lease area and outside lease area	Not Proposed	Not Applicable	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Not Applicable	NIL
4e	Number of active & alive dumps	Not Proposed	Not Applicable	nil
4f	Number of dead dumps	Not Proposed	Not Applicable	NIL
4g	Number of dumps stabilised	Not Proposed	Not Applicable	nil
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Not Applicable	nil
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Not Applicable	nil
4j	Number of settling ponds	0	0	0
4k	Specific comments of inspecting officer	<i>No mining operation as the mining lease is under temporary closure</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	Not Proposed	Not Applicable	NA
5b	Area under backfilling of mined out area	Not Proposed	Not Applicable	NA
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Not Applicable	NA
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Not Applicable	NA
5e	General remarks of inspecting officer on backfilling, reclamation etc	Not Proposed	Not Applicable	NA

### **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). Details should be given in the format as given in Annexure-20.	Yes Submitted	Yes Submitted on 3 <sup>rd</sup> July 2017	Lease is under temporary closure
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	2.5 Hect.  2.5 2500  2500 Nil  307700	2.5 Hect.  2.5 2500  2500 Nil  367500	Lease is under temporary closure

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	NA	NA	NA
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	nil
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Core Zone with in limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration are with in limit	Core Zone with in limit – Ambient Air Quality, Surface water Quality, Ground water quality, Noise level, Noise vibration are with in limit	nil
6f	General remarks of inspecting officer on PMCP compliance & progressive	<i>No mining operation as the mining lease is under temporary closure</i>		

### **7.0 Mineral Conservation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	0	0	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	NIL
7c	Different grade of mineral sorted out at mines	Chemical Grade +50 mm to – 100MM) Cement Grade – 0-50mm fines	Chemical Grade +50 mm to – 100MM) Cement Grade – 0 -50mm fines	NIL
7d	Any beneficiation process at mines	Na	Na	NIL
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	In order as per plan	In order as per plan	NIL

### 8.0 Environment

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Na	Concurrent use for plantation	NIL
8b	Concurrent use or storage of topsoil	Not Proposed	Not Applicable	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Not Applicable	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Not Applicable	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes and per PMCP	Yes and per PMCP	NIL
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	NIL	NIL	NIL
8g	Survival rate	70%	70%	NIL
8h	Water sprinkling on roads to control airborne dust	Not Proposed	Not Applicable	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	<i>No mining operation as the mining lease is under temporary closure</i>		

### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date -31.03.2018 A.R. submitted up to till date- 30.6.2017	NIL

S. N.	Item	Details GIVEN in A.R.(2016-17)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NA	NA	<i>No mining operation as the mining lease is under temporary closure</i>
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 21.16 Waste/reject Others- 101.9711	Pit- NA Waste/reject Others- NA	
9d	Scrutiny of Annual return on afforestation	NA	NA	

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	NA	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	NA	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	NA	NA	
9i	Scrutiny of Annual return on fixed assets	NA	NA	
9k	Scrutiny of Annual return on mining machineries	NA	NA	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -The last inspection of mine was carried out on dtd 20.09.2015 and no violations were pointed out. This inspection was carried out in connection with Review of Mining Plan. During the inspection also no violation were pointed as mine was not in operations/ mine temporarily discontinued/closure since long back.

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