MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Mokhana 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	107.69 Hectare (Non- Forest), Survey No-51/P
3	Mine Code	38GUJ07045
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.ORanavav Quarries, Taluka-Ranavav, Dist- Porbandar, Gujarat – 360550 Ph No-+912801230381, Fax No-+912801230320 Email:cdwivedi@tatachemicals.com
6	Village	Mokhana
7	Taluka/Mandal	Bhanvad
8	District	Devbhumi Dwarka
9	Pincode	360510
10	State	Gujarat
11	Post office	Bhanvad
12	Nearest police station	Bhanvad
13	Nearest Railway station	Bhanvad
14	Date of Grant of Mining Lease	05.07.1973
15	Date of Execution	24.12.1973
16	Date of opening of Mine	-
17	Date of first Renewal, if applicable and its period & expiry	First renewal was applied on 21.12.1992 for next 10 yrs period.
18	Date of second Renewal, if applicable and its period & expiry	Second renewal was applied on 23.12.2002 for next 20 years
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Lease period extended till 23/12/2023 vide Govt. order no. MCR- 1572- (T-77) 3499 CHH -1 dated 24/10/2017
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, Maharastra
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	C M Dwivedi P.ORanavav 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- (From 2013-14 to 2017-18 period mining operations was completely stopped by CGM, Gujarat on dtd 01.06.2013)
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	NA- (From 2013-14 to 2017-18 period mining operations was completely stopped by CGM, Gujarat on dtd 01.06.2013)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	NA

25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approved vide letter No-682(23)(499)/94-MCCM (N)- UDP, dt- 25.09.1995
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-213/2003-MCCM (N) UDP, Dt- 06.11.2003, 682(23) CLP-54 /2005 MCCM (N) Udp, Dt- 14.03.2005 682(23)(MS-438)/2008-MCCM (N)- UDP, dt- 22.10.2008 682(23) CLP-159 /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 (2017-18)	Actual work	Remarks
1a	Backlog of previous year	Not Proposed	NA	NA
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	NA	NA
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	NA	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	NA	NA
1e	Balance reserves as on 01.04.2018	Proved (111)-3.88 (Million Ton) Resources(221&331)- 10.80 Million Tonnes	0	NA
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lase area has been explored as per UNFC Guidelines & MEMC Rules 2015		
2.0 I	<u>Development</u>			

<u>2.0 I</u>	Development			
SN	Item	Proposals(2017-18)	Actual work	Remarks
2a	Location of development w.r.t.	No proposals	Not Applicable	
	lease area			
2b	Separate benches in topsoil,	No proposals	Not Applicable	
	overburden and mineral (Rule 15)			
2c	Stripping ratio or ore to OB ratio	No proposals	Not Applicable	
2d	Quantity of topsoil generation in	No proposals	Not Applicable	
	m3			
2e	Quantity of overburden	No proposals	Not Applicable	
	generation in m3			
2f	General remarks of inspecting	Mining operation stopp	oed since June,2013	as mine closure
	officer on development of pit	notice was issued by D	istrict Geologist on	01.06.13 referring
	w.r.t. type of deposit etc.	Hon'ble Gujarat High Court order about no mining operation to		
		be done within 1km zone	of Barda Sanctuary	
<u>3.0 E</u>	Exploitation			
SN	Item	Proposals (2017-18)	Actual work	Remarks

SN	Item	Proposals (2017-18)	Actual work	Remarks
3a	Number of pits proposed for production	No proposals	Not Applicable	

				1
3b	Quantity of ROM mineral production proposed	No proposals	Not Applicable	
3c	Recovery of salable/usable mineral from ROM production	No proposals	Not Applicable	
3d	Quantity of mineral reject generation	No proposals	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	No proposals	Not Applicable	
3f	Quantity of sub-grade mineral generation	No proposals	Not Applicable	
3g	Grade of sub-grade mineral generation	No proposals	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposals	Not Applicable	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposals	Not Applicable	
3ј	Provision of drilling & blasting in mineral benches	No proposals	Not Applicable	
3k	Provision of mining machineries in mineral benches	No proposals	Not Applicable	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposals	Not Applicable	
3m	Total area covered under excavation/pits	12.4827	12.4827	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	
30	Total area put in use under different heads at the end of year	Pit- 12.4827Ha Waste/reject Others- 95.2073Ha	Pit- 12.4827Ha Waste/reject Others- 95.2073Ha	
3р	Production of ROM mineral during last five-year period, as applicable	Yr- 2013-14 Yr- 2014-15 Yr- 2015-16 Yr- 2016-17 Yr- 2017-18	29039 0 0 0 0 0	
3q	General remarks of inspecting officer on method of mining etc.	Mining operation stop notice was issued by 1 Hon'ble Gujarat High (be done within 1km zon	District Geologist on Court order about no n	01.06.13 referring
	olid Waste Management-Dumping			
SN	Item	Proposals (2017-18)	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	No proposals	Not Applicable	
4c	Number of dumps within lease area and outside lease area	No proposals	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposals	Not Applicable	
4e	Number of active & alive dumps	No proposals	Not Applicable	
4f	Number of dead dumps	No proposals	Not Applicable	İ

4g	Number of dumps stabilished	No proposals	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposals	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	No proposals	Not Applicable	
4j	Number of settling ponds	0	0	0
4k	Specific comments of inspecting officer	Mining operation stopped since June,2013 as mine closure notice was issued by District Geologist on 01.06.13 referring Hon'ble Gujarat High Court order about no mining operation to be done within 1km zone of Barda Sanctuary		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2017-18)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposals	Not Applicable	
5b	Area under backfilling of mined out area	No proposals	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposals	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	No proposals	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposals	Not Applicable	

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2017-18)	Actual work	Remarks
ба	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.	Last day to submit Annual Return: 31 st July of every year	Yes submitted on 3 rd July 2017	Lease is under temporary closure
бb	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 Hect. 1 500 500 Nil 180000	1 Hect. 1 500 500 Nil 235000	Lease is under temporary closure
6с	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	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
бе	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	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil	•	

7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	0 No Proposals	0 Not Applicable	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
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	
7d	Any beneficiation process at mines	No Proposals	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mining operation stopped since June,2013 as mine closure notice was issued by District Geologist on 01.06.13 referring Hon'ble Gujarat High Court order about no mining operation to be done within 1km zone of Barda Sanctuary		

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Concurrent use for plantation	
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes and as per PMCP	Yes and per PMCP	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not Proposed	NIL	
8g	Survival rate	82%	82%	

8h	Water sprinkling on roads to	NA	NA	NIL
	control airborne dust			
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Under temporary closing of mine period basic works as per the proposals of PMCP like saplings plantation, fencing etc. carried out.		

9.0 Compliance of Rule 45

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

S. N.	Item	Details GIVEN in A.R.(2017-18)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NA	NA	Mining operation stopped since June,2013 as mine closure notice was issued by District Geologist on 01.06.13 referring Hon'ble Gujarat High Court order about no mining operation to be done within 1km zone of Barda Sanctuary
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 12.4827Ha Waste/reject Others- 95.2073Ha	Pit- 12.4827Ha Waste/reject Others- 95.2073Ha	
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 19.09.2015. This inspection was carried out for in connection with Review of Mining Plan submitted by the lessee. During the inspection no violations were pointed out as Mining operation stopped since June, 2013 as mine closure notice was issued by District Geologist on 01.06.13 referring Hon'ble Gujarat High Court order about no mining operation to be done within 1km zone of Barda Sanctuary.
