

## INSPECTION REPORT

File no: GUJ/POR/ LST-25

Inspecting officer: Dr. N K Mathur, AMG, Gandhinagar  
 Inspection date: 12.11.2017, Type of Inspection: Star rating

### 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Ishwaria "G" Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	8.70 Hectare
3	Mine code	38GUJ21077
4	IBM Registration Number under rule 45 of MCDR, 1988	437
5	Name of the lessee, Address, phone, email and fax number	Tata Chemicals Limited Ranavav Quarries, Ranavav, Dist- Porbandar, Gujarat - 360550
6	Village	Ishwaria
7	Taluka/Mandal	Kutiyana
8	District	Porbandar
9	Pincode	362650
10	State	Gujarat
11	Post office	Ishwaria
12	Nearest police station	Kutiyana
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	13.04.1970
15	Date of Execution	12.10.1970
16	Date of opening of Mine	01.11.2006
17	Date of first Renewal, if applicable and its period & expiry	25.10.1989
18	Date of second Renewal, if applicable and its period & expiry	15.07.1999
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	15.07.1999
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	S K Bhakta Tata Chemicals Limited Ranavav Quarries, Ranavav – 360550, Porbandar, Gujarat
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Balram Singh Tata Chemicals Limited Ranavav Quarries, Ranavav – 360550m(Porbandar)Gujarat Mo. 9227608561 <a href="mailto:bsing@tatachemicals.com">bsing@tatachemicals.com</a> Date of appointment - 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 BE (Mining) Total Experience 15 years Tata Chemicals Limited Ranavav Quarries, Ranavav – 360550 (Porbandar) Gujarat Mo. 9227608561 <a href="mailto:bsing@tatachemicals.com">bsing@tatachemicals.com</a> Date of appointment - 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 appointed.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(797)/97-MCCM(N), Dt- 18.02.1997
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-263/2004-MCCM (N)Udp, 26.8.2004.  682(23) (MS-527)/09— MCCM(N) Udp , dt- 16.10.2014  682(23)(MS-527)/2009-MCCM(N)Udp, 26.06.2016
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. –

**1.0 Exploration**

SN	Item	Proposals (2016-17)	Actual work	Remarks
1a	Backlog of previous year	NA	NA	NA
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	Area under G1 already fully explored
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	NA
1e	Balance reserves as on 01.04.2017	0.3451	0.30367	NA
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	E597700 to E597900  N240070 to N240090	E597700 to E597900  N240070 to N240090	NIL
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	NIL
2c	Stripping ratio or ore to OB ratio	NA	NA	NIL
2d	Quantity of topsoil generation in m3	NA	NA	NIL
2e	Quantity of overburden generation in m3	NA	NA	NIL
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mines working as per planning		

## **3.0 Exploitation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	One	One	NIL
3b	Quantity of ROM mineral production proposed	85000	41427.30	NIL
3c	Recovery of saleable/usable mineral from ROM production	76500	41427.30	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral reject generation and threshold value declared	NA	NA	NIL
3f	Quantity of sub-grade mineral generation	NA	NA	NIL
3g	Grade of sub-grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised – Crushing and Screening	Mechanised – Crushing and Screening	NIL
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	NIL

3j	Provision of drilling & blasting in mineral benches	Yes	Yes, by using Kelvax, ANFO and delay detonators	NIL
3k	Provision of mining machineries in mineral benches	Shovel, tipper combination, compressor and drilling rig.	Excavator, tipper, compressor and drilling rig.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	NIL
3m	Total area covered under excavation/pits	2.5941	2.59	NIL
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	NIL
3o	Total area put in use under different heads at the end of year	3.0701	3.0	NIL
3p	Production of ROM mineral during last five-year period, as applicable	Yr- 2012-13 Yr- 2013-14 Yr- 2014-15 Yr- 2015-16 Yr- 2016-17	21200 12500 43050 78089 41427.3	NIL
3q	General remarks of inspecting officer on method of mining etc.	Mechanised open cast working		

#### **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	NIL
4b	Location of topsoil, OB & mineral reject dumps	NA	NA	NIL
4c	Number of dumps within lease area and outside lease area	NA	NA	NA
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	NIL
4e	Number of active & alive dumps	NA	NA	nil
4f	Number of dead dumps	NA	NA	NIL
4g	Number of dumps stabilised	NA	NA	nil

4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	nil
4i	Length of Retaining wall or garland drain all along dump	NA	NA	nil
4j	Number of settling ponds	NA	NA	NA
4k	Specific comments of inspecting officer	No deviation found		

### **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	NA	NA	NA
5b	Area under backfilling of mined out area	NA	NA	NA
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	NA
5d	Total area fully reclaimed & rehabilitated	NA	NA	NA
5e	General remarks of inspecting officer on backfilling, reclamation etc	No back filling has done		

### **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	nil
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	0.2 Hect. 0.2 200  Nil 37000	0.059 Hect. 0.059 200  1025 Nil 98080	nil

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	
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	As per MCDR 2017 compliance has done.		

## **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	Entire quantity mined has to shift to crushing and screening plant in Ishwariya 13.15 Ha. Lease.	Entire quantity mined has to shift to crushing and screening plant in Ishwariya 13.15 Ha. Lease.	NIL
7d	Any beneficiation process at mines	NA	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Working as per approved mining 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	Na	Na	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Na	Na	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	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)	200	200 plantation	NIL
8g	Survival rate	60%	60%	NIL
8h	Water sprinkling on roads to control airborne dust	yes	Yes	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Environment control parameters are under control		

## 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 - 10.10.2017 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	NIL	Check & found in order	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area,	NIL	Check & found in order	NIL

	dumps etc.			
9d	Scrutiny of Annual return on afforestation	NIL	Check & found in order	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL	Check & found in order	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	Check & found in order	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	NIL	Check & found in order	NIL
9i	Scrutiny of Annual return on fixed assets	NIL	Check & found in order	NIL
9k	Scrutiny of Annual return on mining machineries	NIL	Check & found in order	NIL

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Nil

Place Gandhinagarr

Name: Dr N. K. Mathur

Signature

Date 03-04-2018

Designation: AMG