

Regional office: Gandhinagar

File no: GUJ/PORB/ LST-175

MCDR INSPECTION REPORT

Inspecting officer: Dr. N K Mathur, AMG, Gandhinagar

Inspection date: 10.11.2017, Type of Inspection: Review of Mining plan

1.0 GENERAL

| SN | Particulars | Details |
|----|--|--|
| 1 | Name of the Mine | Zinzerka Limestone Mine |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | 14.27 Hectare |
| 3 | Minecode | 38GUJ08145 |
| 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 | Zinzerka |
| 7 | Taluka/Mandal | Porbandar |
| 8 | District | Porbandar |
| 9 | Pincode | 360545 |
| 10 | State | Gujarat |
| 11 | Post office | Boricha |
| 12 | Nearest police station | Adityana |
| 13 | Nearest Railway station | Ranavav |
| 14 | Date of Grant of Mining Lease | 20.01.1971 |
| 15 | Date of Execution | 19.06.1971 |
| 16 | Date of opening of Mine | - |
| 17 | Date of first Renewal, if applicable and its period & expiry | 13.06.1990 |
| 18 | Date of second Renewal, if applicable and its period & expiry | 17.06.2000 |
| 19 | Date of submission of renewal application if Mining Operations are continuing under deemed extension | 17.06.2000 |
| 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 | Mines is under temporarily discontinuation. |

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|----|---|---|
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Mines is under temporarily discontinuation. |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44. | Mines is under temporarily discontinuation. |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. | 682 (23) (706) / 97-MCCM(N) UDP dt-28.09.1997 |
| 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-187/2003 UDP , Dt- 17.06.2003 682(23) CLP-60/2005-UDP, Dt-01.04.2005 682(23) (474)/2006-MCCM(N) , Dt-28.11.2006 682(23) (404)/2006-MCCM(N) , Dt-01.04.2013 684(4)(1)/MP-81-MCCM(N) Dt-26.12.17 |
| 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 | NA | NA | Mines is under temporarily discontinuation. |
| 1b | Exploration over lease area for Geological axis 1 or 2. | NA | NA | NA |
| 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 | 1.9264 | 0 | 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 | NIL | NIL | Mines under temporary |

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|----|---|---|----|------------------|
| | | | | discontinuation. |
| 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 is under temporarily discontinuation. | | |

3.0 Exploitation

| SN | Item | Proposals (2016-17) | Actual work | Remarks |
|----|--|---------------------|-------------|---|
| 3a | Number of pits proposed for production | NA | NA | Mines is under temporarily discontinuation. NIL |
| 3b | Quantity of ROM mineral production proposed | NA | NA | NIL |
| 3c | Recovery of saleable/usable mineral from ROM production | NA | NA | NIL |
| 3d | Quantity of mineral reject generation | NA | NA | 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 | NA | NA | 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 | NA | NA | NIL |
| 3k | Provision of mining machineries in mineral benches | NA | NA | NIL |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | NA | NA | NIL |

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|----|---|---|---------------------------------------|--|
| 3m | Total area covered under excavation/pits | 8.4966 | 8.4966 | 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 | Pit- 8.4966 Waste/reject Others- 5.7734 | Pit- NA Waste/reject Others- NA | 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 | 0 0 0 0 0 | Mines under temporary discontinuation. |
| 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, | |
| 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 | 0 | 0 | 0 |
| 4k | Specific comments of inspecting officer | NA | | |

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 | NA | NA | 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. | Mines under temporary discontinuation. | No. Due to mine discontinued | 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 | No. Due to mine discontinued | No. Due to mine discontinued | 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 | |

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|----|---|--|--|-----|
| 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 | Core Zone with in limit – Ambient Air Quality, Surface water | nil |

| | | | | |
|----|--|---|---|--|
| | | quality, Noise level, Noise vibration are with in limit | Quality, Ground water quality, Noise level, Noise vibration are with in limit | |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive | 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 | NA | NA | 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 | Mines under temporary discontinuation. | NIL |

8.0 Environment

| SN | Item | Proposals (2016-17) | Actual work | Remarks |
|----|---|---------------------|------------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | NA | NA | 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) | NIL | NIL | NIL |
| 8g | Survival rate | NIL | NIL | NIL |

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|----|---|--|----|-----|
| 8h | Water sprinkling on roads to control airborne dust | NA | NA | 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 |
|-------|---|--|---------|
| 9a | 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, dumps etc. | NIL | Check & found in order | NIL |
| 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 06-07-2018

Designation: AMG