

MCDR INSPECTION REPORT

I/33616/2024.0 GENERAL

| SN | Particulars | Details |
|----|---|--|
| 1 | Name of the Mine | Aniali Limestone Mine, (Sy. No.21/P) |
| 2A | Inspecting officer with date, Type | Naman Ekka, SMG, 03/11/2023, RMP |
| 2B | Accompanying official | Sh.Mayank Srivastava, MM |
| 3 | Total Lease Area (Ha) with breakup of Non-forest and forest land | Total area-16.21 Ha, Non-Forest land |
| 4 | Mine code & IBM Registration Number under rule 45 of MCDR, 17 | 38GUJ08177 & IBM/437/2011 |
| 5 | Name of the lessee, Address, phone, email and fax number | Tata Chemicals Limited, Regd.-Bombay House, 24 Homy modi street, Fort,Mumbai-400001, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat – 360550, cmdwivedi@tatachemicals.com |
| 6 | Village | Aniali |
| 7 | Taluka/Mandal | Ranavav |
| 8 | District | Porbandar |
| 9 | Pin code | 360550 |
| 10 | State | Gujarat |
| 11 | Post office | Ranavav |
| 12 | Nearest police station | Ranavav |
| 13 | Nearest Railway station | Ranavav |
| 14 | Date of Grant of Mining Lease | 12.06.1964 |
| 15 | Date of Execution | 31.10.1964, 50 Year, Expiry-31.3.2030 as per MMDR Amendment Act,2015 |
| 16 | Date of opening of Mine | 013.2017 (Re-opening) |
| 17 | Date of first Renewal, if applicable and its period & expiry | 13.4.1983 period 20 Years |
| 18 | Date of second Renewal, period & expiry | 21.10.2003 |
| 19 | Date of submission of renewal application / deemed extension if any | NA |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | R. Mukundan, M/s Tata Chemicals Limited, Bombay House, 24 Homy Modi Street, Mumbai – 400001,Maharastra |
| 21 | Name of the Mine Agent, Address, phone, email, fax & date of appointment | C M Dwivedi, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat – 360550, cmdwivedi@tatachemicals.com |
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | Mayank Srivastava, BE Mining & FCC metal(R), Wef - 15.12.2015 Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat – 360550 |
| 23 | Name of the ME, Qua. & Exp., Address, phone , email, fax, date of appointment | Mayank Srivastava, BE Mining & FCC metal(R), Wef - 15.12.2015 Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat – 360550 |
| 24 | Whether Geologist & ME appointed in mines satisfy the rule 42, 43 & 44 | C M Dwivedi, Works- Ranavav Quarries, Ranavav, Dist- Porbandar Gujarat – 360550, cmdwivedi@tatachemicals.com , |
| 25 | Date of Approval of Mining Plan /Modified Mining Plan with five-year period and specific condition in approval letter, if any. | 682(23)(641)/1996-MCCM31.12.1997 682(23)MP-437/2008-1.04.2014 |
| 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(228)/2003-MCCM(N)UDP, 29.1.2004 682(23)MS(473)/2008-MCCM(N)UDP, 21.10.2008 684(4)(1)MP-209/2019/MDRD/U/GNR, 18.3.2019 for the period of 2019-20 to 2023-24 |
| 27 | Mineral(s) granted in lease | Limestone |
| 28 | Method of Mining (O/C, U/G) | Opencast |
| 29 | Category (FM, Others or Manual) | A-Others (mechanised) |
| 30 | Captive/Non Captive | Captive |

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

1.0 Exploration

| SN | Item | Proposals | Actual work | Remarks |
|----|---|---|----------------------------|-----------------------|
| 1a | Backlog of previous year | Not proposal | Not done | NIL |
| 1b | Exploration over lease area for Geological axis 1 or 2. | --- | Entire ML area is in G1/G2 | |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | Lessee itself | | NA |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Not Proposed | NIL | NIL |
| 1e | Balance reserves as on 01.4.2020 (111, 121 & 122) | Reserves(111,121&122)= 0.077502MT(221&222) & 0.513900MT (331) as per approved RMP dated 01.3.2019 | 0.317775millionT | Remaining resources = |
| 1f | General remarks of inspecting officer | Entire lease area is developed by various pits & explored in past by drilling in G1/G2 level. | | |

1.0 Development

| SN | Item | Proposals | Actual work | Remarks |
|----|---|--|--|---------|
| 2a | Location of development w.r.t. lease area | E/W585226-585333 N/S2400516-2400774 | Partly done as proposed due to lagging lateral & depth | |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | Proposed | Maintained separately benches. | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.0 | 1:0.00 | |
| 2d | Quantity of topsoil generation in m3 | NIL | 0T | |
| 2e | Quantity of overburden generation in m3 | NIL | 0T | |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Limestone deposit of Chemical/Cement grade quality & developed by various mining pits for utilising soda ash & cement plant. | | |

2.0 Exploitation

| SN | Item | Proposals | Actual work | Remarks |
|----|--|---|--|---------------------|
| 3a | Number of pits proposed for production (Plate no) | Single Pit, It was proposed to work as earmarked in plate No.4A | Worked partly as proposed during due to lagging in past. | |
| 3b | Quantity of ROM mineral production proposed | 88,000T (2021-22) | 87850 T | |
| 3c | Recovery of saleable/usable mineral from ROM production | 80% of ROM proposed | Entire ROM is utilising by proper sorting & sizing | Captive Consumption |
| 3d | Quantity of mineral reject generation | 20% of ROM proposed | | Soda ash & Cement |
| 3e | Grade of mineral reject generation and threshold value declared | Above THV & below cut-off grade bauxite | THV-Cao-34%(Min) & Mgo-5% (Max) | |
| 3f | Quantity of sub-grade mineral generation | Not proposed | NIL | |
| 3g | Grade of sub-grade mineral generation | Not Proposed | NIL | |
| 3h | Manual / Mechanised method adopted segregating from ROM | Manual / mechanised | Manual / mechanised | |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade/ mineral reject | Not Proposed | Not done | - |
| 3j | Provision of drilling & blasting in mineral benches | drilling & blasting as and when requires | As proposed | - |
| 3k | Provision of mining machineries in mineral benches | Excavator-01,1.3M3 bucket capacity, Tippers - (17T) | Excavator-01,1.3M3 bucket capacity, Tippers -(17T) etc. | |

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|----|---|--|--|--|
| 3l | Whether height of benches in OB & mineral suitable for method of mining proposed | mechanised working with regular bench height | Irregular bench height | |
| 3m | Total area covered under excavation/pits | 4.53Ha area proposed in plan period. | Total excavated area is about 7.95Ha. | |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:0.0 | 1:0.0 | |
| 3o | Total area put in use under different heads at the end of year (as on 31.03.2020) | -- | Area under mining- 7.95Ha, Road-0.33Ha, Inf- 0.002Ha | |
| 3p | Production of ROM mineral during last five-year period, as applicable | 2017-18 -87394T 2018-19- 83932T 2019-20-88000T 2020-21-88000T 2021-22 – 88000 T | 43625T 82886T 82150T 87970T 87850 T | Deviated due to lagging in ROM production in past. |
| 3q | General remarks of inspecting officer on method of mining etc. | Mechanised opencast method of mining with using HEMM & tipper combination & without J/H drilling & blasting. | | |

3.0 Solid Waste Management-Dumping

| SN | Item | Proposals | Actual work | Remarks |
|----|---|--|---|---|
| 4a | Separate dumping of topsoil, OB/Mineral reject (Rule 32, 33) | Proposed for utilised for plantation purposes. | Topsoil is not reported /generated presently. | No OB/Waste proposed & generated. |
| 4b | Location of topsoil, OB & mineral reject dumps | Not Proposed | NIL | |
| 4c | Number of dumps within lease area and outside lease area | None | None | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Not applicable | Not applicable | |
| 4e | Number of active & alive dumps | No proposal | Not applicable | Fencing is already done in surrounding lease area |
| 4f | Number of dead dumps | Nil | Nil | |
| 4g | Number of dumps stabilised | Not applicable | NIL | |
| 4h | Whether Retaining wall or garland drain all along dumps are there | NIL | NIL | |
| 4i | Length of Retaining wall or garland drain all along dump | Not applicable | NIL | |
| 4j | Number of settling ponds | Not proposed | NIL | |
| 4k | Specific comments of inspecting officer | No overburden/waste is generated presently. Topsoil is utilising purely for plantation purposes. | | |

4.0 Solid Waste Management-Backfilling

| SN | Item | Proposals | Actual work | Remarks |
|----|--|--|-------------|---------|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Not proposed | NIL | |
| 5b | Area under backfilling of mined out area | -- | - | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) | Not proposed | NIL | |
| 5d | Total area fully reclaimed & rehabilitated | Nil | --- | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc. | There are no OB/Waste generation. Hence no backfilling & reclamation proposed & not carried out. | | |

6.0 Progressive Mine Closure Plan

| SN | Item | Proposals | Actual work | Remarks |
|----|------|-----------|-------------|---------|
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| 6a | Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2). | Proposed | Annual report on PMCP is submitted for the year 2021-22 | |
| 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 | Not Proposed | 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 | Not Proposed | NIL | |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation | 200 Nos. & 0.02Ha 90M fencing | 200 Nos. & 0.02Ha Embankment work done | |
| 6e | Compliance of Environmental monitoring (core zone/buffer zone) | Periodically monitoring as per IBM/MoEF guidelines. | Periodically monitoring as per IBM/MoEF guidelines. | |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive | PMCP report is submitted for the year. Periodical environment monitoring is being carried out by third party. | | |

7.0 Mineral Conservation

| SN | Item | Proposals | Actual work | Remarks |
|----|--|---|-------------------------------|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | 2021-22 – 88000 T | 87850 T | Lessee is utilizing entire ROM by proper sorting & sizing as per plant requirement. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Manual & Mechanised both | Manual & Mechanised both | |
| 7c | Different grade of mineral sorted out at mines | Stacking for sorting & sizing | Stacking for sorting & sizing | |
| 7d | Any beneficiation process at mine | Not required | NA | |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Lessee is utilizing entire ROM by proper stacking, sorting & sizing as per plant requirement. | | |

8.0 Environment

| SN | Item | Proposals | Actual work | Remarks |
|----|--|-------------------------------|---|---|
| 8a | Separate removal and utilization of topsoil | Proposed for separate removal | Utilising for plantation purposes only. | Whatever little top soil is generated, directly used for plantation purposes. |
| 8b | Concurrent use or storage of topsoil | NA | NA | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines | NA | NA | |
| 8d | Use of OB, waste rock, rejects and fines dumps for restoring the land to its original use | NA | NA | |
| 8e | Phased restoration, reclamation & rehabilitation of lands affected by mining operations (Pits, dumps etc.) | No proposal | Nil | |

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| 8f | Baseline information on existence of plantation & additional plantation done | No proposal | Utilising for plantation purposes only. | |
| 8g | Survival rate | | About 85% | |
| 8h | Water sprinkling on roads to control airborne dust | Water spraying on haul road loading & unloading points | Regular water sprinkling is done. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | Aesthetic beauty in and around mines area is degraded mining pits & natural grown shrubs & bushes observed. | | |

9.0 Compliance of Rule 45

| S.N | Item | COMMENTS | | Remarks |
|-----|---|---|--|---------|
| | Status of submission of Monthly and Annual returns | M.R. submitted up to –October 2023 & A.R. submitted for the year 2022-23 | | |
| S.N | Item | Details GIVEN in A.R. | Observation of I/O | Remarks |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist & Manager | Shri Mayank Srivastava, BE (Mining) CM Dwivedi, MSc (Geology) | | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area under use – 7.95 Ha, road-0.529Ha, Occupied by plant & bldg.-0.2Ha, Green belt -0.18Ha | **Scrutiny of annual return for the year 2019-20 has been carried out. Found in order. | |
| 9d | Scrutiny of Annual return on afforestation | No of trees planted: 735 with survival rate of 90% | | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | There is no mineral rejects during the year | | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Opening stock-4652.53T, ROM-82150T, dispatch-86101.12T, Closing stock-611.41T | | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Ex. Mine price-149.79Rs. /T (Chemical) ,Captive used | | |
| 9i | Scrutiny of Annual return on fixed assets | given | | |
| 9k | Scrutiny of Annual return on mining machineries | 01-Shovel/Back hoe—1M3 & Wheelloader-01, Tipper-17M3 & water tanker, Air compressor-01 | | |

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-Presently mine was inspected for RMP inspection & lessee is regular in submission of periodical returns. Online star rating evaluation validation done. Presently no significant violation observed & pointed out.

Naman Ekka
SMG
