

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/TNL/LST-79.MDS

Mine code : 38TMN15084

- (i) Name of the Inspecting : **G039**) **G.C.Sethi**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Thiru. S.Murali, Lessee
Official with
Designation
- (iv) Date of Inspection : 04/09/2023
- (v) Prev.inspection date : 01/08/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PANDAPULI(4.095HA)**
- (b) **Registration NO.** : **IBM/5363/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : TIRUNELVELI
- Village : PANDAPULI
- Taluka : SANKARANKOVIL
- Post office : PANDAPULI
- Pin Code : 626117
- FAX No. : 9443380293
- E-mail : muralilimestone@yahoo.co.in
- Phone : 9443380293
- (f) Police Station : Pandapuli
- (g) First opening date : 14/12/1998
- (h) Weekly day of rest : SUN
2. Address for : Mr. S A MURALI,
correspondance : 100/1, ALAGAI NAGARRAJAPALAYAM,
RAJAPALAYAM-626117
3. (a) Lease Number : TMN0644
- (b) Lease area : 4.1
- (c) Period of lease : 20
- (d) Date of Expiry : 13/12/2018
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S.MURALI ENTERPRISES
100/1, ALAGAI NAGAR,
RAJAPALAYAM TIRUNELVELI
TAMIL NADU
Phone:
FAX :

Owner : M/S.MURALI ENTERPRISES
100/1, ALAGAI NAGAR,
RAJAPALAYAM TIRUNELVELI
TAMIL NADU
Phone:
FAX :

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| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 26/04/2012 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 14/01/2015 |
| | | MP review under 17(1) MCR 2016 | 27/08/2018 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|---|--|
| 1a | Backlog of previous year | No Proposal | No Exploration done during 2022-23 | Nil |
| 1b | Exploration over lease area for geological axis 1 or 2 | Geological axis - 1. | Geological axis - 1. | Entire lease area is under G-1 category. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | No Proposal | Nil | Nil |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Not applicable | Nil | Entire area has been explored under G-1 category with 100m X 100m grid interval. |
| 1e | Balance reserve as on 01/04/20 | 398963 tons as per the ROMP approved on 27.08.2018 for the proposed period from 2018-19 to 2022-23 | 398963 Tons | Mine is non-working from 2017-18. Date of Re-opening of mines is 17.03.2023 |
| 1f | General remarks of inspecting officers on geology, exploration etc | Nil | Entire area has been explored up to G1 level. | Entire ML area has been drilled and proved. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|-------------|---|
| 2a | Location of development w.r.t.lease area | No Proposal for development in the overburden/waste zone. | Nil | Form-E, Temporary Discontinuance notice has been submitted on 01.11.2018. Date of Re-opening of mines is 17.03.2023 |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | No Topsoil exist in the mine | Nil | Nil |

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|----|---|--|--|-----|
| 2c | Stripping ratio or ore to OB ratio | 1 : 0.0 | Nil | Nil |
| 2d | Quantity of topsoil generation in m3 | No Topsoil exist | No topsoil generated during 2022-23 | Nil |
| 2e | Quantity of overburden generation in m3 | No Proposal for waste/overburden generation in 2022-23 | No Topsoil generated during 2022-23 | Nil |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | Nil | No development has been proposed in approved plan in 2022-23. The proposal is confined to production only. | Nil |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---------|
| 3a | Number of pit proposed for production | Single Pit | Single Pit | Nil |
| 3b | Quantity of ROM mineral production proposed | 22800 tons | 100 tons | Nil |
| 3c | Recovery of sailable/usable mineral from ROM production | 70% Recovery | 100% Recovery | Nil |
| 3d | Quantity of mineral reject generation | 6840 tons of mineral rejects has been proposed for 2022-23 | Not generated during 2022-23, due to discontinuances of mining operations | Nil |
| 3e | Grade of mineral rejects generation and threshold value declared. | High Silica | Nil | Nil |
| 3f | Quantity of sub grade mineral generation. | Nil | Not generated | Nil |
| 3g | Grade of sub grade mineral generation | Not applicable | Nil | Nil |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised method | Mechanised method | Nil |

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|----|--|--|--|---|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Not applicable | No beneficiation facility available in the mine | Nil |
| 3j | Provision of drilling and blasting in mineral benches | Drilling & Blasting has Proposed | Done as per proposal. | Not Applicable |
| 3k | Provision of mining machineries in mineral benches | Excavator, Tippers, Drill, Compressor | As proposed the machineries are deployed. | Nil |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Bench height - 5m and width 5- m | Bench height -5m and width 5- m | Nil |
| 3m | Total area covered under excavation/pits | 1.155 ha | 1.155 ha | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1 : 0.0 | Nil | Nil |
| 3o | Total area put in use under different heads at the end of year | Land use Pattern as on 01.04.2023. Mines = 1.155 hect Dump = 0.12 hect | Land use Pattern as on 01.04.2023. Mines = 1.155 hect Dump = 0.12 hect | Nil |
| 3p | Production of ROM mineral during the last five year period as applicable | 2022-2023 = 22800 tons 2021-2022 = 23770 tons 2020-2021 = 23850 tons 2019-2020 = 23400 tons 2018-2019 = 14820 tons | 2022-2023 = 100 tons 2021-2022 = Nil 2020-2021 = Nil 2019-2020 = Nil 2018-2019 = Nil | Form-E, Temporary Discontinuance notice has been submitted on 01.11.2018. Date of Re-opening of mines is 17.03.2023 |
| 3q | General remarks of inspecting officers on method of mining etc. | Nil | Mining operation is being done by opencast mechanised means. | Nil |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Dumping proposed for mineral rejects | Dumping is not due to non-working | Nil |
| 4b | Location of topsoil, OB and mineral reject dumps | Dumping proposed for mineral rejects on Northeastern side of lease area. | Not done as there is no generation of waste during 2022-23 | Nil |
| 4c | Number of dumps within lease area and outside of lease area | Dump-1 | Dump-1 | Nil |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside UPL | Nil | Nil |
| 4e | Number of active and alive dumps. | No such Proposal | Nil | Nil |
| 4f | Number of dead dumps. | No such Proposal | Nil | Nil |
| 4g | Number of dumps established. | No such Proposal | Nil | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No such Proposal | Nil | Nil |
| 4i | Length of Retaining wall or garland drain all along dumps | Not applicable | Nil | Nil |
| 4j | Number of settling ponds | Nil | Nil | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | Nil | Dumping is not due to non-working | Nil |

Solid Waste Management - Backfilling:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|---|--|--|----------------|
| 5a | Status of part or full extraction of mineral from mined out area before starting backfilling. | No Proposal | Nil | Not applicable |
| 5b | Area under backfilling of mined out area | No Proposal | Nil | Nil |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No Proposal | No Topsoil generated during 2022-23. | Nil |
| 5d | Total area fully reclaimed and rehabilitated | No Proposal for reclamation in 2022-23 | Not reclaimed any pit. | Nil |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | Nil | No Proposal for reclamation in 2022-23 | Nil |

Progressive Mine Closure Plan:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|-----------|-------------|---|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | Yes | Submitted | PMCP report for the year 2022-23 has been submitted |
| 6b | Area available for rehabilitation (ha) . | 0.23 ha | 0.23 ha | Nil |
| 6c | afforestation done (ha). | 0.20 ha | 0.20 ha | Nil |
| 6d | No. of saplings planted during the year | 100 nos | 100 nos | Nil |
| 6e | Cumulative no .of plants | 500 nos | 100 nos | Form-E, Temporary Discontinuance notice has been submitted on 01.11.2018. Date of Re-opening of mines is 17.03.2023 |

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|----|--|---------------------------|--------------------------------------|-----|
| 6f | Any other method of rehabilitation | Plantation on safety area | Plantation done over the safety area | Nil |
| 6g | Cost incurred on watch and care during the year | 0.20 lakhs | 0.20 lakhs | Nil |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No Proposal | Not applicable | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No Proposal | Not applicable | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area | No Proposal | Nil | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No such Proposal | Not applicable | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | No such Proposal | Not applicable | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | No such Proposal | Not applicable | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | No such Proposal | Not applicable | Nil |

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|----|---|------------------|--|---|
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | No such Proposal | Not applicable | Nil |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Yes | Periodical monitoring of all the environmental parameters. | Environmental parameters are within the permissible limits. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | Nil | Environmental monitoring is being done in quarterly basis all parameters for ambient air, water, noise, vibration are within the permissible limits. | Nil |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-------------------|---|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | 22800 tons | 100 tons | Form-E, Temporary Discontinuance notice has been submitted on 01.11.2018. Date of Re-opening of mines is 17.03.2023 |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanised method | Mechanised method | Nil |
| 7c | Different grade of mineral sorted out at mines. | Cement Grade | Cement Grade | Nil |
| 7d | Any beneficiation process at mines . | No Proposal | No beneficiation of mineral is involved. | Not applicable |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | Nil | The limestone are produced from the mine is utilized for cement and cem powder. So, there is no mineral conservation problem in the mine. | Nil |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No such Proposal for topsoil generation. | Not generated in 2022-23. | Nil |
| 8b | Concurrent use or storage of topsoil | No Proposal | Not applicable | Nil |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Dumping proposed for mineral rejects | Dumping is not done due to temporary discontinuances of the mining operations. | Nil |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No Such Proposal | No waste generated during 2022-23 | Nil |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No Proposal | Not applicable | Nil |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 100 saplings proposed. | 100 saplings achieved. | Nil |
| 8g | Survival rate | No proposal | 80% | Nil |
| 8h | Water sprinkling on roads to control airborne dust | Water Sprinkling in the haul road. | Water Sprinkling is being done on roads to control airborne dust. | Nil |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | Nil | Water Sprinkling is being done on roads to control airborne dust. | Nil |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
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| 9a | Status of submission of Monthly and Annual returns | Submitted | Returns are submitted within time limit. | Both Annual & Monthly returns are submitted in online. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Manager, Geologist & mining engineer are appointed. | During inspection Mines Manager is present. | Nil |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Covered under current (O/C) Workings 1.155ha; Occupied by plant, buildings, residential, welfare buildings & roads-0.10ha; Other Purpose (Green Belt , Safety Zone & Others)- 2.778ha; | Furnished under part- I. | Nil |
| 9d | Scrutiny of Annual return on afforestation | 100 saplings | Furnished under part-V. | Nil |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Furnished in part- V, of 4 | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | 100 tons | Furnished in part- VI | Nil |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Cost of production is Rs.350/- | Furnished in part- VII | Nil |
| 9h | Scrutiny of Annual return on fixed assets | Rs.3500000/- | Furnished in part- II-A | Nil |
| 9k | Scrutiny of Annual return on mining machineries | Nil | Furnished in part- V sec 6 | Nil |

Details of violations observed during current inspection and compliance position of violation pointed out

| Violation observed | | | Show couse position | | |
|--------------------|-----------|---------------|---------------------|-----------|---------------|
| Rule NO. | Issued on | Compliance on | Rule NO. | Issued on | Compliance on |
| MCDR17 | Rule 33 | 13/09/2023 | | | |

Date :

(G.C.Sethi)

Indian Bureau of Mines