

MCDR inspection REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-41/NGP

Mine code : 40MPR01028

- (i) Name of the Inspecting : **C005**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : SK Jain, (Lessees representative), Nikhil Vyas (Manager mines)
Official with
Designation
- (iv) Date of Inspection : 22-DEC-22
- (v) Prev.inspection date : 14-AUG-14

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SELWA**
- (b) **Registration NO.** :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : BALAGHAT
Village : SELWA
Taluka : KATANGI
Post office : KATANGI
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 22-JAN-99
- (h) Weekly day of rest : FRI
2. Address for : SELWA MANGANESE MINE
correspondance PO- KATANGI
DISTT. - BALAGHAT (MP)
3. (a) Lease Number : MPR1863
(b) Lease area : 6.72
(c) Period of lease : 30
(d) Date of Expiry : 22-APR-48
4. Mineral worked : MANGANESE ORE Main

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5. Name and Address of the

Lessee : M/S R. B. SHREERAM & CO. PVT. LTD.,
SREERAM BHAVAN, TUMSAR,
DISTT. BHANDARA (MS) NAGPUR
MAHARASHTRA
Phone:
FAX :

Owner : M/s R.B.Sreeram & Company Pvt. Ltd.
Sreeram Bhawan, Tumsar
distt. Balaghat (MP)
BHANDARA MAHARASHTRA
Phone:
FAX :

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| 6. Date of approval of Mining Plan/Scheme of Mining | : | Modif.of approved Mining Plan | 20-FEB-02 |
| | | Mining Scheme rule 12 MCDR1988 | 21-APR-04 |
| | | Mining Scheme rule 12 MCDR1988 | 04-AUG-09 |
| | | Mining Scheme rule 12 MCDR1988 | 18-SEP-13 |

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---------------|-------------------------------|---|
| 1a | Backlog of previous year | Nil | Nil | |
| 1b | Exploration over lease area for geological axis 1 or 2 | Nil | Nil | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NA | NA | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Not specified | 5.623 ha to be explored in G1 | |
| 1e | Balance reserve as on 01/04/20 | Not specified | 111- 16236 211- 8340 | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | Manganese ore occurring as detached lenses and also stratified in nature. These stratified deposits occur in three stratigraphic positions in Sausar Series. 5.623 ha yet to be explored in G1. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|-------------------------------|---------------------------------|---------|
| 2a | Location of development w.r.t.lease area | In northern part of the lease | In northern part of the lease | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Separate bench in OB proposed | Separate bench in OB maintained | |
| 2c | Stripping ratio or ore to OB ratio | 1:2.5 | 1.4.8 | |
| 2d | Quantity of topsoil generation in m3 | Nil | Nil | |

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|----|---|------|----------|---|
| 2e | Quantity of overburden generation in m3 | 4575 | 10366.95 | Violation pointed out under Rule 11(1) of MCDR 2017 |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | 2140 T of ROM achieved against the proposal of 1985 T for the year 2021-22. 10366.95 m3 of waste reported against the proposal of 4575 m3 of waste generation. Violation pointed out under rule 11(1) |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------|---------------|---|
| 3a | Number of pit proposed for production | 01 | 01 | |
| 3b | Quantity of ROM mineral production proposed | 1985 T | 2140 T | Violation pointed out under Rule 11(1) of MCDR 2017 |
| 3c | Recovery of sailable/usable mineral from ROM production | 90% | 90% | |
| 3d | Quantity of mineral reject generation | Not proposed | 100t | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not proposed | Not specified | |
| 3f | Quantity of sub grade mineral generation. | Not proposed | NA | |
| 3g | Grade of sub grade mineral generation | Not proposed | NA | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised | Mechanised | |

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| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Not proposed | NA |
| 3j | Provision of drilling and blasting in mineral benches | Yes | As per proposal |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes | Details of Benches (Separately for mechanised and manual sections) In ore In OB/Waste (i) Number of Benches Mechanised 4 0 (ii) Average height (meters) Mechanised 6 0 (iii) Depth of the deepest working from adjacent ground (Meters) Mechanised 6 0 |
| 3m | Total area covered under excavation/pits | Not specified | 4.92 ha |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:2.5 | 1.4.8 |
| 3o | Total area put in use under different heads at the end of year | Not specified | 6.04 ha |
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19 6351 2019-20 7180 2020-21 6904 | 2018-19 1460 2019-20 5066 2020-21 7671 |

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3q General remarks of inspecting officers on method of mining etc.

2140 T of ROM achieved against the proposal of 1985 T for the year 2021-22. 10366.95 m3 of waste reported against the proposal of 4575 m3 of waste generation. Hence, the mining operations in the mine were not being not carried out in accordance with the approved document Mining Plan document. Violation pointed out under Rule 11(1) of MCDR 2017.

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Separate dumping of OB proposed | Separate dumping of OB done | |
| 4b | Location of topsoil, OB and mineral reject dumps | 21:44:59.81 21:45:02.29 79:48:50.91 79:48:58.15 | 21:44:59.81 21:45:02.29 79:48:50.91 79:48:58.15 | |
| 4c | Number of dumps within lease area and outside of lease area | 04 | 04 | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside UPL | Outside UPL | |
| 4e | Number of active and alive dumps. | 01 | 01 | |
| 4f | Number of dead dumps. | 03 | 03 | |
| 4g | Number of dumps established. | Nil | Nil | |

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|----|--|---------------|-----|---|
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Not specified | Nil | |
| 4i | Length of Retaining wall or garland drain all along dumps | NA | NA | |
| 4j | Number of settling ponds | Nil | Nil | |
| 4k | Specific comments of inspecting officer on waste dump management | | | Separate dumping of OB being carried out. |

Solid Waste Management - Backfilling:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|-------------|---|
| 5a | Status of part or full extraction of mineral from mined out area before starting backfilling. | Backfilling proposed after Full extraction of mineral | Adopted | |
| 5b | Area under backfilling of mined out area | Nil | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Not proposed | Nil | |
| 5d | Total area fully reclaimed and rehabilitated | Nil | Nil | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Area not matured to carryout backfilling process. |

Progressive Mine Clousre Plan:

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

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|----|--|---------------|---|---|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | | PMCP report for the year 2021-22 not furnished. | Violation pointed out under Rule 26(2) of MCDR 2017 |
| 6b | Area available for rehabilitation (ha) . | | PMCP report for the year 2021-22 not furnished. | Violation pointed out under Rule 26(2) of MCDR 2017 |
| 6c | afforestation done (ha). | Not specified | Nil | |
| 6d | No. of saplings planted during the year | 40 | PMCP report for the year 2021-22 not furnished. | Violation pointed out under Rule 26(2) of MCDR 2017 |
| 6e | Cumulative no .of plants | Not specified | Not available | |
| 6f | Any other method of rehabilitation | NA | NA | |
| 6g | Cost incurred on watch and care during the year | Not specified | NA | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | NA | NA | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | NA | NA | |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | NA | NA | |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NA | NA | |

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|----|---|-----|------|---|
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | NA | NA | |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | NA | NA | |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | NA | NA | |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation | NA | NA | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | yes | Done | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | PMCP report for the year 2021-22 not furnished. Violation pointed out under Rule 26(2) of MCDR 2017 |

Mineral Conservation:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|----------------------|--|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | ROM mineral dispatch | ROM mineral dispatch | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanical | Mechanical | |
| 7c | Different grade of mineral sorted out at mines. | Not specified | Below 25% Mn & 25% to below 35% Mn as per AR | |

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|----|--|---------------|-----|--|
| 7d | Any beneficiation process at mines | Not specified | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | ROM mineral dispatch with sorting adopted. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-------------------------|--|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Not proposed | Nil | |
| 8b | Concurrent use or storage of topsoil | NA | NA | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Separate dumps proposed | Separate dumps for overburden overburden adopted | |
| 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) | Not proposed | Nil | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Not specified | Not available | |
| 8g | Survival rate | Not specified | 70 % | |

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|----|--|---|--|---|
| 8h | Water sprinkling on roads to control airborne dust | Water sprinkling on roads to control airborne dust proposed | Water sprinkling on roads to control airborne dust done. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | Aesthetic beauty in and around mine area needs improvement. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---------------------------|--|--|
| 9a | Status of submission of Monthly and Annual returns | Returns submitted online. | Returns submitted online but discrepancies observed. | Violation pointed out under Rule 45(7) of MCDR 2017. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Given | Manager Shri Nikhil Vyas | Violation pointed out under Rule 45(7) of MCDR 2017. |

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|----|---|-------|---|--|
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Given | Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 4.420 4.420 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 1.190 1.190 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.288 0.288 (vi) Other Purpose (Mineral Storage) 0.000 0.031 0.031 | Violation pointed out under Rule 45(7) of MCDR 2017. |
| 9d | Scrutiny of Annual return on afforestation | Given | (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 100 100 (ii) Survival rate in percentage 70.00 70 | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Given | 100 T | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Given | Detailed information furnished in AR | |

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|----|---|--------------------------------------|---|--|
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Detailed information furnished in AR | Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(MANGANESE ORE) Grades (% of Mn content) Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) Below 25% Mn 636.152 2070.000 2686.540 19.612 3502.42 (b) 25% to below 35% Mn 701.605 340.000 1025.820 15.785 5195.40 (c) 35% to below 46% Mn 39.740 0.000 0.000 39.740 15080.00 (d) 46% Mn and above 37.405 0.000 | |
| 9h | Scrutiny of Annual return on fixed assets | Nil | Nil | Violation pointed out under Rule 45(7) of MCDR 2017. |

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|----|--|-------|---|
| 9k | Scrutiny of Annual return on mining machineries | Given | Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) PUMPS (ELEC.) 3375.350 L/MN 2 Electrical Opencast PUMPS (ELEC.) 6532.930 L/MN 1 Electrical Opencast OTHERS (NON-ELEC.) 1.000 1 Non Electrical Opencast |
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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 |

Date :

(ROBERT SIMON C)

Indian Bureau of Mines