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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-134

Mine code : 38MPR35117

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri. Rishab Jain(Nominated Owner), Shri Vidhyasagar
Official with
Designation
- (iv) Date of Inspection : 25-SEP-23
- (v) Prev.inspection date : 08-DEC-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHATOORA (26.9 AC)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : BHATOORA
Taluka : MAIHAR
Post office : BHATOORA
Pin Code : 485772
FAX No. : N. A.
E-mail : hukamchandstonelimecompany@rediffmail.com
Phone : 8839942016
- (f) Police Station : BADERA
- (g) First opening date : 28.12.1978
- (h) Weekly day of rest : SUN
2. Address for : M/S HUKUM CHAND STONE LIME CO.
correspondance : POST BAX NO. 69, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0652
(b) Lease area : 10.56
(c) Period of lease : 50
(d) Date of Expiry : 27-DEC-28
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : HUKUM CHAND STONE LIME CO.
POST BAX NO. 69, KATNI
MADHYA PRADESH
Phone: 8839942016
FAX :N. A.

Owner : RISHABH KUMAR JAIN, HUKUM CHAND STONE LIME CO.
STATION ROAD, KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

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|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 25-OCT-07 |
| Plan/Scheme of Mining | : | Mining Scheme rule 12 MCDR1988 | 10-AUG-11 |
| | : | MP modif under MCR 1960 | 24-FEB-16 |
| | : | MP review under 17(1) MCR 2016 | 30-APR-19 |

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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 | | G-2-3.28 HA G-3-2.24 | |
| 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 | G-2-3.28 HA G-3-2.24 | G-2-3.28 HA G-3-2.24 | |
| 1e | Balance reserve as on 01/04/20 | | 1704970.25 Tonnes | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | Geologically the limestone of this area belongs to Semri series equivalent to Rohtas formation of lower Vindhyan. Geologically the area has been explored by 5 nos of core drilling having 28 to 30m thick limestone band along with thin shale bands, further depth continuity has been correlated with central part of the lease area maximum up to 360 m MRL, thus average 28 to 30m thick band of limestone with thin bands of shale been considered while the limestone of the area is overlain by residual soil. |

Development :

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| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|--|
| 2a | Location of development w.r.t.lease area | N 2664740 TO N 2664860 E 466990- E 467180 | N 2664740 TO N 2664860 E 466990- E 467180 | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Yes | Maintained | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.10 | 1:0.096 | |
| 2d | Quantity of topsoil generation in m3 | NIL | NIL | |
| 2e | Quantity of overburden generation in m3 | 12029 | 10666 | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | The existing pit were being advanced from south with emphasizing on Excavation and in depth. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------|-------------|---------|
| 3a | Number of pit proposed for production | 01 | 01 | |
| 3b | Quantity of ROM mineral production proposed | 120287 T | 111101.36 T | |
| 3c | Recovery of sailable/usable mineral from ROM production | 100 | 100 | |
| 3d | Quantity of mineral reject generation | NA | NA | |
| 3e | Grade of mineral rejects generation and threshold value declared. | NA | NA | |

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|----|---|---------------------------|---|
| 3f | Quantity of sub grade mineral generation. | NA | NA |
| 3g | Grade of sub grade mineral generation | NA | NA |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanized | Mechanized |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No beneficiation proposed | No beneficiation proposed |
| 3j | Provision of drilling and blasting in mineral benches | yes | Carried out. |
| 3k | Provision of mining machineries in mineral benches | Yes | Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast underground (specify) DUMPER 10.000 TONNE 2 Non Electrical Opencast DUMPER 17.000 TONNE 4 Non Electrical Opencast DUMPER 21.000 TONNE 6 Non Electrical Opencast PUMPS (NON-ELEC.) 650.000 L/MN 4 Non Electrical Opencast WATER TANKER 2000.000 LITRE 1 Non Electrical Opencast FRONT END LOADER 1.200 CUM 2 Non Electrical Opencast |

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|----|--|--|--|---|
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes | Suitable | |
| 3m | Total area covered under excavation/pits | | 2.409 ha | |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.10 | 1:0.096 | |
| 3o | Total area put in use under different heads at the end of year | Not specified | 3.17 ha | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19 0 T 2019-20..... 120000 T 2020- 21.....12093 4 T 2021- 22.....12028 7 T 2022-23 120287 T | 2018-19.....0 T 2019-20.....64,584 T 2020-21.....19,698 T 2021-22.1,19,175 T 2022-23....1,11,101 T | |
| 3q | General remarks of inspecting officers on method of mining etc. | | | Opencast semi Mechanized method of mining were being adopted in the lease area for increasing the production rate. The excavation of Mineral were being done by shovel. The loading of mineral were being done with shovel-tipper combination and transportation were being done through hired trucks or tippers. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
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|----|--|------------------------------|--|---|--|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Separate dumping of proposed | Separate dumping of OB done. | OB | |
| 4b | Location of topsoil, OB and mineral reject dumps | Yes | Waste dump location in lat-long: D-1 -24:05:40.81 24:05:41.79 80:40:41.21 80:40:41.21 D-2 - 24:05:41.81 24:05:43.76 80:40:26.57 80:40:28.84 D-2 24:05:43.93 24:05:46.26 80:40:31.36 80:40:33.35 | | |
| 4c | Number of dumps within lease area and outside of lease area | 03 | 03 | | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | 03 | 03 | | |
| 4e | Number of active and alive dumps. | 03 | 03 | | |
| 4f | Number of dead dumps. | Nil | Nil | | |
| 4g | Number of dumps established. | Nil | 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 dumps | Nil | Nil | | |
| 4j | Number of settling ponds | Nil | Nil | | |
| 4k | Specific comments of inspecting officer on waste dump management | | | OB generated is being dumped in 03 dumps lying within the lease area. | |

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. | Full extraction of mineral from mined out area before starting backfilling proposed | Full extraction of mineral from mined out area before starting backfilling adopted | |
| 5b | Area under backfilling of mined out area | 275 m2 | 275 m2 | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | NA | NA | |
| 5d | Total area fully reclaimed and rehabilitated | 0.04 HA | 0.04 HA | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Backfilling & reclamation have been carried out after full extraction of mineral from mined out area. |

Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---------------|--------------------------|---------|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | Yes | Submitted along with AR. | |
| 6b | Area available for rehabilitation (ha) . | 0.04 | 0.04 | |
| 6c | afforestation done (ha) . | 0.04 | 0.04 | |
| 6d | No. of saplings planted during the year | 275 | 175 approx. | |
| 6e | Cumulative no .of plants | Not specified | 400 approx. | |
| 6f | Any other method of rehabilitation | NA | NA | |

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|----|--|---------|---------|
| 6g | Cost incurred on watch and care during the year | NA | NA |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | 0.04 ha | 0.04 ha |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | 0.04 ha | 0.04 ha |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area | 0.04 ha | 0.04 ha |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NA | NA |
| 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 |

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|----|---|-----|-----------------------------|---|
| 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 | Environment monitoring done | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | Afforestation on backfilled area were being carried out in the lease. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | ROM mineral dispatch within lease area proposed | ROM mineral dispatch within lease area done | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Manual | Manual | |
| 7c | Different grade of mineral sorted out at mines. | NA | SMS grade limestone | |
| 7d | Any beneficiation process at mines | Nil | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | ROM mineral dispatch after manual sorting were being done. No beneficiation process at mines carried out. |

Environment:

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

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|----|---|---|---|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Nil | 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 maintained | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | OB dumping & backfilling proposed | OB dumping & backfilling carried out | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | OB dumping & backfilling proposed | OB dumping & backfilling carried out | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Not specified | Information available in the form of PMCP report. | |
| 8g | Survival rate | Not specified | Not furnished | Violation pointed out under rule 26(2) |
| 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 carried out. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | Aesthetic beauty in and around mine area is moderate. |

Compliance of Rule 45:

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| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|--|--|
| 9a | Status of submission of Monthly and Annual returns | Given | Returns submitted online. | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer in charge: MOHD. KAFIL Geologist in charge : SANDIPAN SARKAR | Supporting documents not furnished. | Violation pointed out under rule 55. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Given | 12. Lease area (surface area) utilisation as at the end of year (hectares): Under forest Outside forest Total (i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 2.409 2.409 (iii) Reclaimed-rehabilitated 0.000 0.040 0.040 (iv) Used for waste disposal 0.000 0.575 0.575 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.180 0.180 (vi) Used for any other purpose (specify) 0.000 0.000 0.000 | |
| 9d | Scrutiny of Annual return on afforestation | 5. Trees planted- survival rate Description Within lease area Outside lease area i) Number of trees planted during the year 175 0 ii) Survival rate in percentage 0 0 iii) Total no. of trees at the end of the year 0 0 | Survival rate in percentage & Total no. of trees at the end of the year not furnished. | Violation pointed out under rule 45(7) |

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| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Given | Production and Stocks of ROM ore at Mine-head Category Opening stock Production Closing stock (a) Open Cast workings 0.000 111101.360 0.000 |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Given | Grade-wise Production, Dispatches, Stocks and Ex-mine prices: Grades** Opening stock at mine-head Production Despatches from minehead Closing stock at mine-head Ex-mine price (?-Tonne) (a) LD Grade (less than 1.5% silica content) 0.000 0.000 0.000 0.000 0.00 (b) SMS 66280.737 111101.360 175088.235 2293.862 468.00 |
| 9h | Scrutiny of Annual return on fixed assets | Given. | Value of Fixed Assets* (Rs. 3450155) |
| 9k | Scrutiny of Annual return on mining machineries | Given | Type of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc. Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in open cast underground (specify) DUMPER 10.000 TONNE 2 Non Electrical Opencast DUMPER 17.000 TONNE 4 Non Electrical Opencast DUMPER 21.000 TONNE 6 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 |
| MCDR17 | Rule 12(3) | 09-JAN-24 | | | |
| MCDR17 | Rule 12(4) | 09-JAN-24 | | | |
| MCDR17 | Rule 26(2) | 09-JAN-24 | | | |
| MCDR17 | Rule 31(4) | 09-JAN-24 | | | |
| MCDR17 | Rule 33 | 09-JAN-24 | | | |
| MCDR17 | Rule 45(7) (a | 09-JAN-24 | | | |

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines