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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-7

Mine code : 38MPR18013

- (i) Name of the Inspecting : C004 ) ROBERT SIMON C  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : AJAY PANDEY(Geologist), R.K. TIWARI (Mine Manager)  
Official with  
Designation
- (iv) Date of Inspection : 19-OCT-22
- (v) Prev.inspection date : 19-MAR-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BADARI ( 5.04 HECT.)
- (b) Registration NO. :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : BADARI  
Taluka : VIJAYRAGHAVGARH  
Post office : KAHANGAON  
Pin Code : 483880  
FAX No. : N. A.  
E-mail : snsktm@bom6.vsnl.net.in  
Phone : 07622- 221976, 222304
- (f) Police Station :
- (g) First opening date : 02-MAY-77
- (h) Weekly day of rest : SAT
2. Address for : M/S S.N.SUNDERSON & COMPANY  
correspondance P.O.NO.39, CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0262
- (b) Lease area : 5.04
- (c) Period of lease : 50
- (d) Date of Expiry : 01-MAY-27
4. Mineral worked : LIMESTONE Main

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## 5. Name and Address of the

Lessee : S.N.SUNDERSON & COMPANY  
 P.O.NO.39, CIVIL LINES,  
 KATNI MADHYA PRADESH  
 Phone:52304, 54061  
 FAX :07622-51976

Owner : S.N.SUNDERSON & COMPANY  
 POST BOX.NO.39 JABALPUR  
 ROAD, BARAGAWAN KATNI  
 MADHYA PRADESH  
 Phone: 52304, 54061  
 FAX : 07622-51976

## Mining Engineer

Name : BALRAM SINGH,Part Time  
 Qualification : B.Sc.(Mining), A.I.S.M  
 Appointment/ :  
 Termination date

|                               |   |                                |           |
|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Renewal under rule 22 MCR1960  | 14-MAR-00 |
| Plan/Scheme of Mining         |   | Mining Scheme rule 12 MCDR1988 | 14-SEP-04 |
|                               |   | Mining Scheme rule 12 MCDR1988 | 15-JUN-09 |
|                               |   | Mining Scheme rule 12 MCDR1988 | 12-SEP-14 |
|                               |   | MP modif under 17(3) MCR 2016  | 21-APR-17 |

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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 | G2-0.8 HA                    |   |
| 1e     | Balance reserve as on 01/04/20                                      | Not specified | 111-281344 T<br>122-292632 T |   |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |               |                              | The lease area from a part of the Semri Group and comprises rocks belonging to Rohtas formation of lower Vindhyan system consists limestone which is grey, light gray, fine to Medium Grained and Slightly fractured. limestone is soft and stratified. The limestone is bedded with intercalations of argillaceous material and inter bedded with shale. The general strike of limestone is ENE- WSW and the amount of dip usually about 90 to 45° towards North westerly. |

## Development :

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

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|    |   |   |   |
|----|---|---|---|
| 2a | Location of development w.r.t.lease area  | Central and western part of the quarry.               | Central and western part of the quarry.                 |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15)                          | Separate benches in Topsoil, OB and minerals proposed | Separate benches in Topsoil, OB and minerals maintained |
| 2c | Stripping ratio or ore to OB ratio  | 1:0.21  | 1:0.24  |
| 2d | Quantity of topsoil generation in m3  | 8050  | 8000  |
| 2e | Quantity of overburden generation in m3   | 21315   | 23873   |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |   |   |

## Exploitation:

| Sl.No. | Item  | Propasals     | Actual work                       | Remarks |
|--------|---|---------------|-----------------------------------|---------|
| 3a     | Number of pit proposed for production                             | 01            | 01                                |         |
| 3b     | Quantity of ROM mineral production proposed                       | 99050 T       | 99029 T                           |         |
| 3c     | Recovery of sailable/usable mineral from ROM production           | Not specified | entire ROM produced is dispatched |         |
| 3d     | Quantity of mineral reject generation                             | Nil           | Nil                               |         |
| 3e     | Grade of mineral rejects generation and threshold value declared. | NA            | NA                                |         |
| 3f     | Quantity of sub grade mineral generation.                         | NA            | NA                                |         |
| 3g     | Grade of sub grade mineral generation                             | NA            | NA                                |         |

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|----|--|---------------|--|
| 3h | Manual /<br>Mechanised<br>method adopted<br>for segregating<br>from ROM  | Manual        | Manual   |
| 3i | Any analysis or<br>beneficiation<br>study proposed<br>and carried out<br>for sub grade<br>mineral and<br>rejects.      | Not proposed  | Not done   |
| 3j | Provision of<br>drilling and<br>blasting in<br>mineral benches   | Yes           | drilling & blasting in<br>mineral benches done   |
| 3k | Provision of<br>mining<br>machineries in<br>mineral benches  | Yes           | Type of machinery<br>Capacity of each unit<br>No. of units<br>Electrical/Non-<br>Electrical (specify)<br>Used in<br>opencast/underground (specify)<br>BACK HOE 1.200 CUM 2 Non<br>Electrical Opencast<br>DUMPER 20.000 TONNE 6<br>Non Electrical Opencast<br>AIR COMPRESSOR 110.000<br>CUM/MN 1 Non Electrical<br>Opencast |
| 3l | Whether height<br>of benches in<br>overburden and<br>mineral suitable<br>for method of<br>mining proposed<br>in MP/SOM |               | Details of Benches<br>(Separately for<br>mechanised and manual<br>sections)<br>In ore In OB/Waste<br>(i) Number of Benches<br>Mechanised 5 1<br>(ii) Average height<br>(meters) Mechanised 7.5<br>7.5  |
| 3m | Total area<br>covered under<br>excavation/pits   | Not specified | 2.5 ha   |
| 3n | Ore to OB ratio<br>for the pit/mine<br>during the year.  | 1:0.21        | 1:0.24   |
| 3o | Total area put<br>in use under<br>different heads<br>at the end of<br>year   | Not specified | 4.9 ha   |

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|----|--|---|---|
| 3p | Production of ROM mineral during the last five year period as applicable | 2017-18-225600<br>2018-19-228960<br>2019-20-227511<br>2020-21-145570<br>2021-22-99050 | 2017-18-107260<br>2018-19-201659<br>2019-20-226030<br>2020-21-145422<br>2021-22-99029 |
|----|--|---|---|

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|----|---|---|
| 3q | General remarks of inspecting officers on method of mining etc. | Mechanized mining is being carried out with combination of loaders and tippers. |
|----|---|---|

## Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals                           | Actual work                           | Remarks |
|--------|--|-------------------------------------|---------------------------------------|---------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)   | Yes                                 | Separate dumping of topsoil & OB done |         |
| 4b     | Location of topsoil, OB and mineral reject dumps                   | eastern part of the quarry.         | eastern part of the quarry.           |         |
| 4c     | Number of dumps within lease area and outside of lease area        | 02 temporary dump within lease area | 02 temporary dump within lease area   |         |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | outside UPL                         | outside UPL                           |         |
| 4e     | Number of active and alive dumps.                                  | 02                                  | 02                                    |         |
| 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. | not specified                       | Garland drain-200 meters              |         |
| 4i     | Length of Retaining wall or garland drain all along dumps          | not specified                       | Garland drain-200 meters              |         |
| 4j     | Number of settling ponds   | 01                                  | 01                                    |         |

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|----|--|---|
| 4k | Specific comments of inspecting officer on waste dump management | Ob generated in being temporarily dumped within lease |
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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. | 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  | 1.7 ha  | 1.5 ha   |  |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | For plantation  | For plantation   |  |
| 5d     | Total area fully reclaimed and rehabilitated  |   | 1.9 ha   |  |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    |   |  | Backfilling is being carried out after full extraction of mineral. |

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       | Not Submitted | Violation pointed out. |
| 6b     | Area available for rehabilitation (ha) .                                     | 0.01      | 0.01          |                        |
| 6c     | afforestation done (ha).   | 0.01      | 0.01          |                        |

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|    |  |               |                       |
|----|--|---------------|-----------------------|
| 6d | No. of saplings planted during the year  | 50            | 50                    |
| 6e | Cumulative no .of plants   | Not proposed  | Details not available |
| 6f | Any other method of rehabilitation   | Not proposed  | Nil                   |
| 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 | Not specified | 1.9 as per AR         |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | Not specified | 1.9 as per AR         |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area          | 0.01          | 0.01                  |
| 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                    |



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|    |   |     |             |   |
|----|---|-----|-------------|---|
| 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 | Carried out |   |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. |     |             | Progressive closer operations in the form of backfilling is being carried out in the lease. |

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**Mineral Conservation:**

| Sl.No. | Item   | Propasals            | 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.                        | Manual               | Manual               |   |
| 7c     | Different grade of mineral sorted out at mines.  | Not specified        | BF Grade             |   |
| 7d     | Any beneficiation process at mines   | Not proposed         | Not done             |   |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues |                      |                      | No beneficiation process at mines adopted, only ROM dispatch. |

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## Environment:

| Sl.No. | Item  | Propasals   | Actual work   | Remarks |
|--------|---|---|---|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)   | Yes   | Utilised for plantation   |         |
| 8b     | Concurrent use or storage of topsoil  | To be utilised for plantation                               | Utilised for plantation   |         |
| 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           | Backfilling proposed  | Backfilling done  |         |
| 8e     | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Backfilling & plantation proposed                           | Backfilling & plantation done   |         |
| 8f     | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | Yes   | <p>Within<br/>lease area      Outside</p> <p>leasearea</p> <p>(i) Number of trees planted during the year<br/>50</p> <p>10</p> <p>(ii) Survival rate in percentage<br/>70</p> <p>70</p> |         |
| 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   |         |

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| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | Aesthetic beauty in and around mine area needs improvement. |
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## Compliance of Rule 45:

| Sl.No. | Item  | Propasals | Actual work   | Remarks |
|--------|---|-----------|---|---------|
| 9a     | Status of submission of Monthly and Annual returns                                  | Given     | MR & AR online submitted.   |         |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Given     | Manager SHRI R.K. TIWARI<br>Mining Engineer in charge SH. R.K. TIWARI<br>Geologist in charge SHRI AJAY PANDEY |         |

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|    |   |  |  |                        |
|----|---|--|--|------------------------|
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Lease area (surface area)utilisati on as at the end of year(hectares)<br>Underforest<br>Outsideforest<br>Total<br>(i) Already exploited & abandoned byopencast (O/C) mining<br>0.000 2.500<br>2.500<br>(ii) Covered under current (O/C)Workings<br>0.000 2.200<br>2.200<br>(iii) Reclaimed/Rehabilitated<br>0.000 1.900<br>1.900<br>(iv) Used for waste disposal<br>0.000 0.000<br>0.000<br>(v) Occupied by plant, buildings, residential, welfare buildings & roads<br>0.050 0.050<br>(vi) Other Purpose (Green Belt)<br>0.000 0.050<br>0.050 | In Part-I, Sl.No.12, the lease area (surface area) utilisation are furnished incorrectly.  | Violation pointed out. |
| 9d | Scrutiny of Annual return on afforestation  | Given  | Within<br>lease area<br>leasearea<br>(i) Number of trees planted during the year<br>50<br>10<br>(ii) Survival rate in percentage<br>70 | Outside<br>70          |

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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 | Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore( LIMESTONE )<br>Grades<br>Opening stockat mine head(in tonne)<br>Production (intonne)<br>Dispatchesfrom minehead(in tonne)<br>Closingstock at mine head (intonne)<br>Ex-mineprice(in ? PerTonne)<br>(a) LD 0.000 0.000 0.000 0.000 0.00<br>(b) SMS 0.000 0.000 0.000 0.000 0.000 0.00<br>(c) Chemical 0.000 0.000 0.000 0.000 0.000 0.00<br>(d) BF 21752.865 99029.920 116479.410 4303.375 313.55 |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Given | Ex-mine prices of Processed ore( LIMESTONE ) BF grade-Rs. 313.55<br>COST OF PRODUCTION- Rs.224.63   |
| 9h | Scrutiny of Annual return on fixed assets                                   | Given | Value of Fixed Assets (in Rs.) 1188835  |
| 9k | Scrutiny of Annual return on mining machineries                             | Given | Type ofmachinery<br>Capacity ofeach unit<br>No.ofunits<br>Electrical/Non-Electrical(specify)<br>Used in<br>opencast/underground(spe cify)<br>BACK HOE 1.200 CUM 2 Non Electrical Opencast<br>DUMPER 20.000 TONNE 6<br>Non Electrical Opencast<br>AIR COMPRESSOR 110.000 CUM/MN 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 |
| MCDR17 Rule 26(2)  | 21-APR-23 |               |                     |           |               |
| MCDR17 Rule 33     | 21-APR-23 |               |                     |           |               |
| Rule 45(7)         | 21-APR-23 |               |                     |           |               |

**Date :****(ROBERT SIMON C)**

Indian Bureau of Mines