

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/KTN/LST-50

**Mine code :** 38MPR18049

- (i) Name of the Inspecting : **N007** ) **PUKHRAJ NENIVAL**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Anand Mukul Pandey, DGM (Mines), Shri Abhay Kuma  
Official with  
Designation
- (iv) Date of Inspection : 20-MAR-23
- (v) Prev.inspection date : 21-NOV-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KUTESHWAR**
- (b) **Registration NO.** : **IBM/5662/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : KATNI  
Village : MARWA, JARARODA  
Taluka : VIJAYRAGHAVGARH  
Post office : BARHI  
Pin Code : 483770  
FAX No. : 07626-273251  
E-mail : sailktr@yahoo.co.in  
Phone : 07626-273251
- (f) Police Station :
- (g) First opening date : 30-JAN-76
- (h) Weekly day of rest : THU
2. Address for : STEEL AUTHORITY OF INDIA LTD.  
correspondance : P.O. BARHI, DIST. KATNI (M.P.)  
483770
3. (a) Lease Number : MPR0523
- (b) Lease area : 91.14
- (c) Period of lease : 20
- (d) Date of Expiry : 14-MAY-22
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : Steel authority of India Ltd.  
 G. OJHA, DIR(PER & I/C RMD)  
 LODHI RD, ISPAT BHAWAN  
 NEWDELHI-110003 KATNI  
 MADHYA PRADESH  
 Phone:07626-273211  
 FAX :07626-273201

Owner : STEEL AUTHORITY OF INDIA LTD.  
 AT & P.O. BARHI, DIST.KATNI  
 M.P KATNI MADHYA PRADESH  
 Phone: 07626-273211/25  
 FAX : 07626-273201

Agent : H.S.PRASAD, GM(FLUX), KTR  
 At & P.O.katni, Kuteshwar,  
 Barhi Dist.Katni MP> KATNI  
 MADHYA PRADESH  
 Phone: 07626-273211  
 FAX : 07626-273201

|                               |   |                                |           |
|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Renewal under rule 22 MCR1960  | 12-JUN-03 |
| Plan/Scheme of Mining         | : | PMCP under 23B(2) for Existing | 29-DEC-05 |
|                               | : | Mining Scheme rule 12 MCDR1988 | 14-JUN-07 |
|                               | : | Modif.approved Mining Scheme   | 24-SEP-09 |
|                               | : | Mining Scheme rule 12 MCDR1988 | 09-SEP-11 |
|                               | : | MP modif under MCR 1960        | 04-APR-16 |

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

| Sl.No. | Item                                                                | Proposals                            | Actual work                                                                                                                                                               | Remarks                                                                                                                                                                                      |
|--------|---------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1a     | Backlog of previous year                                            | 56 Bore holes                        | 19 Bore holes                                                                                                                                                             | Violation pointed out under rule 11(1).                                                                                                                                                      |
| 1b     | Exploration over lease area for geological axis 1 or 2              | M/s Gemco Kati Exploration Pvt. Ltd. | M/s Gemco Kati Exploration Pvt. Ltd.                                                                                                                                      |                                                                                                                                                                                              |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | 1.42 Cr                              | 42 Lakhs                                                                                                                                                                  |                                                                                                                                                                                              |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | G1                                   | G1                                                                                                                                                                        |                                                                                                                                                                                              |
| 1e     | Balance reserve as on 01/04/20                                      |                                      | 111 91<br>121 NIL<br>122 NIL<br>211 47.69<br>221 15.15<br>221(Pre feasibility mineral resources below cut-off) 14.54<br>222 NA<br>331 51.18<br>332 NA<br>333 NA<br>334 NA |                                                                                                                                                                                              |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |                                      |                                                                                                                                                                           | There was a proposal of 56 nos. of core boreholes during the year 2021-22 & 2022-23 (total 3000 mtrs) but only 19 nos.(1235 mtrs) of core boreholes are dug. Violation pointed out for same. |

## Development :

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

|    |                                                                                         |                                                                  |                                                                  |                                                                                                                                                                                                      |
|----|-----------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2a | Location of development w.r.t.lease area                                                | Gairtalai, Marwa & Jararoda Pit                                  | Gairtalai, Marwa & Jararoda Pit                                  |                                                                                                                                                                                                      |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15)                          | Total Eight benches. 1st two of OB. Topmost bench contains Soil. | Total Eight benches. 1st two of OB. Topmost bench contains Soil. |                                                                                                                                                                                                      |
| 2c | Stripping ratio or ore to OB ratio                                                      | 1: 0.55 M3/Tonnes                                                | 1: 0.11 M3/Tonnes                                                |                                                                                                                                                                                                      |
| 2d | Quantity of topsoil generation in m3                                                    | 130535 cubic meter                                               | 221581 cubic meter                                               |                                                                                                                                                                                                      |
| 2e | Quantity of overburden generation in m3                                                 | 146601 cubic meter                                               | 145851 cubic meter                                               |                                                                                                                                                                                                      |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |                                                                  |                                                                  | Lease area is divided into 3 blocks namely Gairtalai, Marwa & Jaroda blok. Dimension of Marwa block-702876M2 x 48m depth, Gairtalai block-48735M2 x 17m depth & Jarado block - 126276M2 x 25m depth. |

### Exploitation:

| Sl.No. | Item                                                    | Propasals     | Actual work               | Remarks                                          |
|--------|---------------------------------------------------------|---------------|---------------------------|--------------------------------------------------|
| 3a     | Number of pit proposed for production                   | one pit       | one pit                   |                                                  |
| 3b     | Quantity of ROM mineral production proposed             | 1907739 Tones | 1258179 Tones             |                                                  |
| 3c     | Recovery of sailable/usable mineral from ROM production | 1449882 Tons  | 979180 Tons<br>Around 67% |                                                  |
| 3d     | Quantity of mineral reject generation                   | 457857 Tones  | 269684 Tones              | violation has been pointed for lesser production |

|    |                                                                                                      |                                                                                                |                                                                                                                                                            |                                                   |
|----|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 3e | Grade of mineral rejects generation and threshold value declared.                                    | Mineral reject of quantity of 100mm of cement grade above threshold value proposed             | Cement grade of 47.18% CaO achieved                                                                                                                        |                                                   |
| 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 for segregating from ROM                                          | Mechanical method was proposed                                                                 | By way of screening plant                                                                                                                                  |                                                   |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.      | Not Proposed                                                                                   | Screening of ROM practised                                                                                                                                 |                                                   |
| 3j | Provision of drilling and blasting in mineral benches                                                | Drilling 100mm dia by wagon drill & 32mm by jack hammer                                        | Deilling blasting carried out as per the proposals                                                                                                         |                                                   |
| 3k | Provision of machineries in mineral benches                                                          | IR Drill - 100mm, Rock Breaker-32mm, Excavator-2.7 CuM, Dozer-420HP, Dumpers-18/22 Tonner, etc | Mining operation being carried out by deploying IR Drill - 100mm, Rock Breaker-32mm, Excavator-2.7 CuM, Dozer-420HP, Dumpers-18/22 Tonner, etc machineries | Machineries both contractual as well as in-house. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Height of 6 m in overburden & 6m in limestone were proposed                                    | Proposed height of 6m in OB & 6m in limestone are being maintained.                                                                                        |                                                   |
| 3m | Total area covered under excavation/pits                                                             | 88.72 Ha                                                                                       | 80.665 Ha                                                                                                                                                  |                                                   |
| 3n | Ore to OB ratio for the pit/mine during the year.                                                    | 1: 0.55 M3/Tonnes                                                                              | 1: 0.11 M3/Tonnes                                                                                                                                          |                                                   |

|           |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
|-----------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|---------|-----------|---------|-----------|-----------|---------|---------|-----------|---------|-----------|-----------|---------|---------|-----------|---------|-----------|-----------|---------|-----------|--|--|-----------|--|--|---------|--|--|-----------|--|--|---------|--|--|-----------|--|--|---------|--|--|
| 3o        | Total area put in use under different heads at the end of year           | Area under mining-80.665 Ha<br>OB, IB, Fines dumps-36.81 Ha<br>Mineral Stacks-6.33Ha<br>Infrastructure-121.96 Ha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 3p        | Production of ROM mineral during the last five year period as applicable | <table border="0"> <tr> <td>2015-16-:</td> <td>2015-16-:</td> <td>2314474</td> </tr> <tr> <td>2314474</td> <td>2016-17-:</td> <td>1596158</td> </tr> <tr> <td>2016-17-:</td> <td>2017-18-:</td> <td>1460717</td> </tr> <tr> <td>1865100</td> <td>2018-19-:</td> <td>1252545</td> </tr> <tr> <td>2017-18-:</td> <td>2019-20-:</td> <td>1650183</td> </tr> <tr> <td>1978200</td> <td>2020-21-:</td> <td>1028553</td> </tr> <tr> <td>2018-19-:</td> <td>2021-22-:</td> <td>1258179</td> </tr> <tr> <td>20,57,376</td> <td></td> <td></td> </tr> <tr> <td>2019-20-:</td> <td></td> <td></td> </tr> <tr> <td>1825450</td> <td></td> <td></td> </tr> <tr> <td>2020-21-:</td> <td></td> <td></td> </tr> <tr> <td>1822439</td> <td></td> <td></td> </tr> <tr> <td>2021-22-:</td> <td></td> <td></td> </tr> <tr> <td>1907739</td> <td></td> <td></td> </tr> </table> | 2015-16-: | 2015-16-: | 2314474 | 2314474 | 2016-17-: | 1596158 | 2016-17-: | 2017-18-: | 1460717 | 1865100 | 2018-19-: | 1252545 | 2017-18-: | 2019-20-: | 1650183 | 1978200 | 2020-21-: | 1028553 | 2018-19-: | 2021-22-: | 1258179 | 20,57,376 |  |  | 2019-20-: |  |  | 1825450 |  |  | 2020-21-: |  |  | 1822439 |  |  | 2021-22-: |  |  | 1907739 |  |  |
| 2015-16-: | 2015-16-:                                                                | 2314474                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 2314474   | 2016-17-:                                                                | 1596158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 2016-17-: | 2017-18-:                                                                | 1460717                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 1865100   | 2018-19-:                                                                | 1252545                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 2017-18-: | 2019-20-:                                                                | 1650183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 1978200   | 2020-21-:                                                                | 1028553                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 2018-19-: | 2021-22-:                                                                | 1258179                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 20,57,376 |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 2019-20-: |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 1825450   |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 2020-21-: |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 1822439   |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 2021-22-: |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 1907739   |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |
| 3q        | General remarks of inspecting officers on method of mining etc.          | Mining operation being carried out by opencast fully mechanised method by deploying HEMM for excvaton, drilling, blasting & transportation of material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |         |           |         |           |           |         |           |  |  |           |  |  |         |  |  |           |  |  |         |  |  |           |  |  |         |  |  |

---

Solid Waste Management - Dumping:

| Sl.No. | Item                                                             | Propasals                                                                                                                       | Actual work                                         | Remarks |
|--------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | OB & mineral rejects dumping was proposed towards Southern barrier zone and fines gerated proposed to be dumped at central part | Dumping carried the proposals.                      |         |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | E3437830 to 3437200 & N709100 to 708890, IB dumping-E3438080 to E3438520 with avg height of 7 to 8mts                           | Dumping of OB & IB carried out as per the proposals |         |

|    |                                                                    |                                                                                                                  |                                                                                                                  |
|----|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 4c | Number of dumps within lease area and outside of lease area        | Marwa Block-04 overburden & IB dumps Jarorada Block- 03 overburden & IB dumps Gairtalai Block-01 overburden dump | Marwa Block-04 overburden & IB dumps Jarorada Block- 03 overburden & IB dumps Gairtalai Block-01 overburden dump |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | As per the approved document proposed beyond ultimate pit limit                                                  | Minor portions of dumps in Marwas, Gairtalai & Jarorada bloks falling under ultimate pits limits.                |
| 4e | Number of active and alive dumps.                                  | Marwa Block-04 overburden & IB dumps are active                                                                  | Marwa Block-04 overburden & IB dumps are active                                                                  |
| 4f | Number of dead dumps.                                              | Jarorada Block- 03 overburden & IB dumps & in Gairtalai Block-01 overburden dump are dead dumps                  | Jarorada Block- 03 overburden & IB dumps & in Gairtalai Block-01 overburden dump are dead dumps                  |
| 4g | Number of dumps established.                                       | Proposal for construction of garland drain along the periphery of waste dump has been given.                     | carried out as per proposals                                                                                     |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Yes proposed                                                                                                     | Constructed as per proposal                                                                                      |
| 4i | Length of Retaining wall or garland drain all along dumps          |                                                                                                                  | 100 mtr                                                                                                          |
| 4j | Number of settling ponds                                           | Proposed                                                                                                         | 01                                                                                                               |

|    |                                                                  |                                                                                                                                                                                                                        |
|----|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4k | Specific comments of inspecting officer on waste dump management | Huge quantity of overburden & Interburden are being generated during mining operations, hence more emphasis need to be given on systematic dumps management & this aspect was discussed during inspection accordingly. |
|----|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

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 extration of mineral is not occured in any pits & no such proposals given | Not Applicable                                      |                                                                                                                                                                                                                                      |
| 5b     | Area under backfilling of mined out area                                                      | Not Proposed                                                                   | None of the pits area has been backfilled as of now |                                                                                                                                                                                                                                      |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | No Proposals of top soil during the year 2021-22                               | Not Applicable                                      |                                                                                                                                                                                                                                      |
| 5d     | Total area fully reclaimed and rehabilitated                                                  | Not Proposed                                                                   | Nil                                                 |                                                                                                                                                                                                                                      |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    |                                                                                |                                                     | Limestone is not ehausted in any pits so far, hence scope of backfilling and reclamation doent exists. Fines material below threshold value generated during crushing/screening can be very well utilized for backfilling in future. |

---



## 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).                               | To be submitted before 1st July of every year                               | Annual PMCP report submitted well within time limit                                          |         |
| 6b     | Area available for rehabilitation (ha) .                                                                   | No area is proposed for rehabilitation                                      | Within the lease, no such area is available for rehabilitation as of now.                    |         |
| 6c     | afforestation done (ha).                                                                                   | Total 10000 saplings proposed to be planted over 4Ha with 80% survival rate | During the year 2022, total 1500 saplings were planted with cummuative survival rate of 85%. |         |
| 6d     | No. of saplings planted during the year                                                                    | Total 10000 saplings proposed to be planted over 4Ha with 80% survival rate | During the year 2022, total 1500 saplings were planted with cummuative survival rate of 85%. |         |
| 6e     | Cumulative no .of plants                                                                                   |                                                                             | Total 58100 nos.                                                                             |         |
| 6f     | Any other method of rehabilitation                                                                         | Not Proposed                                                                | Nil                                                                                          |         |
| 6g     | Cost incurred on watch and care during the year                                                            | Not Proposed                                                                | Nil                                                                                          |         |
| 6h     | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | Not Proposed                                                                | Nil                                                                                          |         |
| 6i     | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | Not Proposed                                                                | Nil                                                                                          |         |
| 6j     | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area         | Not Proposed                                                                | Nil                                                                                          |         |

|    |                                                                                                              |                                                                                                  |                                                                                                                   |                                                                                                                                                                            |
|----|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv)<br>Rehabilitation by making water reservoir | Not Proposed                                                                                     | Nil                                                                                                               |                                                                                                                                                                            |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.                     | Not Proposed                                                                                     | Nil                                                                                                               |                                                                                                                                                                            |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation                                     | Not Proposed                                                                                     | Nil                                                                                                               |                                                                                                                                                                            |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)                         | Not Proposed                                                                                     | Nil                                                                                                               |                                                                                                                                                                            |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation                        | Not Proposed                                                                                     | Nil                                                                                                               |                                                                                                                                                                            |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                           | Environmental parameters monitoring proposed at regular interval in core zone and in buffer zone | Environmental parameters monitoring being carried out at regular interval in core zone as well as in buffer zone. |                                                                                                                                                                            |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.            |                                                                                                  |                                                                                                                   | PMCP report in prescribed form submitted and PMCP works carried out as per the proposals. Significant plantation have been carried out by the lessee in & around the mine. |

---

Mineral Conservation:

---

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

---

|    |                                                                                      |                                                                                                   |                                                                                                                                                                                                                                                                                             |
|----|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area                         | Before despatch ROM subjected to mechanical screening/crushing. No grade wise sorting is proposed | ROM dispatched after mechanical screening/crushing. No grade wise sorting is done.                                                                                                                                                                                                          |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical.                      | Grade wise sorting is not proposed.                                                               | Grade wise sorting not done.                                                                                                                                                                                                                                                                |
| 7c | Different grade of mineral sorted out at mines.                                      | No grade wise sorting is not proposed.                                                            | Not applicable                                                                                                                                                                                                                                                                              |
| 7d | Any beneficiation process at mines .                                                 | No benifiation is proposed. Limestone crushing/screeing proposed                                  | Benifiation not done only limestone crushing/screening is done                                                                                                                                                                                                                              |
| 7e | General remarks of inspecting officer on Mineral conservation and benifiation issues |                                                                                                   | 33.58 lakh tone mineral reject existing inside the lease are above the threshold limit. The limestone has been classified under mineral reject by virtue of its size i.e below 10 mm as it cannot be used in the steel furnance. The CaO content of the Mineral reject is about 48% to 49%. |

---

Environment :

| Sl.No. | Item                                                  | Propasals                                                   | Actual work                                             | Remarks |
|--------|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32) | Spreding of this top OB for plantation purpose is proposed. | Top overburden generated utilized as per the proposals. |         |

|    |                                                                                                             |                                                                      |                                                                                                                                  |                                                                                                                                                                                         |
|----|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8b | Concurrent use or storage of topsoil                                                                        | Not Proposed                                                         | Nil                                                                                                                              |                                                                                                                                                                                         |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Separate dumps proposed as per approved documents                    | Dumping carried out as per the proposals                                                                                         |                                                                                                                                                                                         |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | Not Proposed                                                         | No mined out area matured for backfilling, hence OB, mineral rejects & fines are being stacked separately on earmarked locations |                                                                                                                                                                                         |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Not Proposed                                                         | Not done                                                                                                                         |                                                                                                                                                                                         |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | Total 10000 nos of saplings proposed to be planted with 85% survival | Total 1500 nos of saplings planted                                                                                               |                                                                                                                                                                                         |
| 8g | Survival rate                                                                                               | Proposed 85%                                                         | Achieved 85%                                                                                                                     |                                                                                                                                                                                         |
| 8h | Water sprinkling on roads to control airborne dust                                                          | Water sprinkling proposed                                            | Water sprinkling done                                                                                                            | Two water tankers of 16KL are dedicatedly provided for water sprinkling purpose on mine haul road to arrest airborne dust.                                                              |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          |                                                                      |                                                                                                                                  | The general aesthetic beauty of the area is good, the lease area is surrounded by the the catchment area of Bansagar dam. Significant plantation are also done in an around mines area. |

## Compliance of Rule 45:

| Sl.No. | Item                                                                                          | Propasals | Actual work                                                                                                                                                         | Remarks                                                       |
|--------|-----------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 9a     | Status of submission of Monthly and Annual returns                                            |           | M.R. submitted upto-Feb -2023<br>A.R. submitted upto-2021-22                                                                                                        | Annual Return for the year 21-22 submitted within time limit. |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           |           | Mining Engineer & Geologist have not been appointed                                                                                                                 | Violation pointed out under rule 55(1)                        |
| 9c     | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. |           | Area under mining-80.665 Ha<br>OB, IB, Fines dumps-36.81 Ha<br>Mineral Stacks-6.33Ha<br>Infrastructure-121.96 Ha                                                    |                                                               |
| 9d     | Scrutiny of Annual return on afforestation                                                    |           | Total 1500 saplings planted with 80% survival rate                                                                                                                  |                                                               |
| 9e     | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   |           | Total 269684 tonnes mineral rejects generated during the year                                                                                                       |                                                               |
| 9f     | Scrutiny of Annual return on ROM stock and/or graded ore                                      |           | BF Grade limestone:<br>O/S-10154 MT<br>Despatch-988495.670 MT<br>C/S-10154 MT<br>Cement Grade Limestone<br>O/S-2904984.120 MT<br>Despatch-Nil<br>C/S-3174667.780 MT |                                                               |
| 9g     | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   |           | BF - 629.02/-<br>cement - 550.10/-                                                                                                                                  |                                                               |
| 9h     | Scrutiny of Annual return on fixed assets                                                     |           | Value of Fixed Assets (in .) - 241418735/-                                                                                                                          |                                                               |

|    |                                                          |                                                                                                                                                                                                                                                                                                                             |
|----|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9k | Scrutiny of<br>Annual return on<br>mining<br>machineries | ROCK DRILL (NONELEC.)-<br>115.000 MM - 3 nos<br>EXPLOSIVE VAN - 4.700<br>TONNE - 1Nos<br>CRANE - 16.000 TONNE -<br>1 Nos<br>DOZER - 420.000 HP - 2<br>Nos<br>CRUSHER - 200.000 T/H -<br>1 Nos<br>MOTOR GRADER - 145.000<br>HP - 1 Nos<br>WATER TANKER - 9000.000<br>LITRE -1 Nos<br>FRONT END LOADER - 3.900<br>CUM - 1 Nos |
|----|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

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

| Violation observed |               |               | Show cause position |           |               |
|--------------------|---------------|---------------|---------------------|-----------|---------------|
| Rule NO.           | Issued on     | Compliance on | Rule NO.            | Issued on | Compliance on |
| MCDR17             | Rule 11(1)    | 27-MAR-23     |                     |           |               |
| MCDR17             | Rule 55(1)(3) | 27-MAR-23     |                     |           |               |

**Date :**

( PUKHRAJ NENIVAL )

Indian Bureau of Mines