

# INDIAN BUREAU OF MINES

## --:-- Inspection Report --:--

### Part-I : General Information

#### 1.1.1 Mine Details

|                                 |   |                                  |                         |
|---------------------------------|---|----------------------------------|-------------------------|
| Name of the Mine :              | 11ORI19013                                    | Lease Area (Ha) :                | 64.463                  |
| Forest Area (Ha) :              | 64  | Mine Code :                      | 11ORI19013              |
| Registration Number :           | IBM/62/2011                                   | Name of lessee :                 | BALASORE ALLOYS LIMITED |
| Address of lessee :             | BALASORE ALLOYS LTD<br>,BALGOPALPUR, BALASORE | Phone of lessee :                | 06782-275781            |
| Email of lessee :               | Basant.parida@balasorealloys.com              | Fax Number :                     | N/A                     |
| Village :                       | Kalarangiata (Ct)                             | Taluka / Mandal :                | Kaliapani               |
| District :                      | Jajapur                                       | Pincode :                        | 756020                  |
| State :                         | Odisha  | Post Office :                    | N/A                     |
| Nearest Police Station :        | N/A   | Nearest Railway Station :        | N/A                     |
| Date of Grant of Mining Lease : | 2000-07-17                                    | Date of Mining Lease Execution : | 2000-07-15              |
| Date of opening in the mine :   | Nilsss  |                                  |                         |

| <b>Nominated Owner Details</b>        |   |                                       |                               |
|---------------------------------------|---|---------------------------------------|-------------------------------|
| Name of the Nominated Owner :         | Mr Saivenkat Chitisureshbabu Chigurupali                                      | Nominated Owner Address:              | Balgopalpur, Balasore         |
| Nominated Owner Mobile :              | 7381096005  | Nominated Owner Email :               | Sureshbabu@balasorealloys.com |
| Nominated Owner Fax Number :          | Nil   | Date of Nominated Owner Appointment : | 2021-04-02                    |
| <b>Mining Engineer Details</b>        |   |                                       |                               |
| Name of the Mining Engineer :         | Pramod Kumar  | Qualification of Mining Engineer :    | BE Mining                     |
| Address of Mining Engineer :          | KALIAPAN I CHROMITE MINES, M/S<br>BALASOR E ALLOYS LIMITED,<br>JAJPUR, ODISHA | Phone of Mining Engineer :            | 7205401225                    |
| Email of Mining Engineer :            | Pramod.kumar@balasorealloys.com   | Fax Number of Mining Engineer :       | N/A                           |
| Date of Mining Engineer Appointment : | 2025-10-06  |                                       |                               |
| <b>Geologist Details</b>              |   |                                       |                               |
| Name of the Geologist :               | Jyoti Ranjan Das  | Qualification of Geologist :          | MSc Geology                   |
| Address of Geologist :                | ALIAPAN I CHROMITE MINES, M/S<br>BALASOR E ALLOYS LIMITED,<br>JAJPUR, ODISHA  | Phone of Geologist :                  | N/A                           |
| Email of Geologist :                  | N/A   | Fax Number of Geologist :             | N/A                           |
| Date of Geologist Appointment :       | Nil   |                                       |                               |
| <b>Mine Manager Details</b>           |   |                                       |                               |
| Name of the Mine Manager :            | Pramod Kumar  | Qualification of Mine Manager :       | BE Mining                     |
| Address of Mine Manger :              | ALIAPAN I CHROMITE MINES, M/S   | Phone of Mine Manger :                | 7205401225                    |

|   |   |   |            |
|---|---|---|------------|
|   | BALASOR E ALLOYS LIMITED,<br>JAJPUR, ODISHA |   |            |
| Email of Mine Manger :                              | Pramod.kumar@balasorealloys.com             | Fax Number of Mine Manger :   | N/A        |
| Date of Mine Manger Appointment :                   | 2025-10-06                                  |   |            |
| Mineral(s) granted in lease and proved for mining : | CHROMITE                                    | Date of Approval of Mining Plan / Modified Mining Plan / ROMP with five-year period : | N/A        |
| Method of mining :                                  | Both  | Category :  | MECHANISED |
| Nature of Use :                                     | Captive                                     |   |            |

## Part-II : Other Information

### 2.1.1 : Inspection Details

|   |                    |
|---|--------------------|
| Inspecting Officer :                          | VIKRAM DESHPANDE   |
| Designation :                                 | Inspection Officer |
| Name of the Accompanying Official from Mine : | Pramod Kumar       |
| Designation of the Accompanying Official :    | Mines Manager      |
| Type of Inspection :                          | MPAS               |
| Date of Inspection :                          | 05/11/2025         |
| Review year considered for MCDR Inspection :  | 2024-2025          |

**2.2.1 : Exploration Details**

| S.N                             | Items for Reporting                                | As Per Approved Mining Plan | Actual | Deviation                            | Violation under Rule |
|---------------------------------|--|-----------------------------|--------|--------------------------------------|----------------------|
| 1                               | Number of Core Boreholes                           | 1                           | Nil    | 1.000 proposed borehole was not made | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL |  |                             |        |                                      |                      |
| 2                               | Number of DTH Boreholes                            | Nil                         | Nil    | 0.000                                | No Violation         |
| Remark: NIL<br>Remark File: NIL |  |                             |        |                                      |                      |
| 3                               | Number of exploratory pits / trial pits            | Nil                         | Nil    | 0.000                                | No Violation         |
| Remark: NIL<br>Remark File: NIL |  |                             |        |                                      |                      |
| 4                               | Number of exploratory Trenches                     | Nil                         | Nil    | 0.000                                | No Violation         |
| Remark: NIL<br>Remark File: NIL |  |                             |        |                                      |                      |
| 5                               | Lateral exploration status for the lease area - G1 | 20.154                      | 20.154 | 0.000                                | No Violation         |
| Remark: NIL<br>Remark File: NIL |  |                             |        |                                      |                      |
|                                 |  |                             |        |                                      |                      |

|                                 |  |   |   |   |              |
|---------------------------------|--|---|---|---|--------------|
| 6                               | Lateral exploration status for the lease area-G2   | 23.019  | 23.019  | 0.000   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |
| 7                               | Lateral exploration status for the lease area-G3   | Nil   | Nil   | 0.000   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |
| 8                               | Lateral exploration status for the lease area-G4   | Nil   | Nil   | 0.000   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |
| 9                               | UNFC category wise reported Resources/Reserves as per MP/MMP ROMP<br><br>Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334) | 121:1100075.68 mT Resource 221: 1507878.42 mT Grand Total (Reserve + Resource): 2607954.10 mT Under Ground Reserve 121: 11119683.84 mT 122: 13389577.00 mT Resource 221: 1245296.81 mT 222: 1578716.00 mT Grand Total (Reserve + Resource): 27333273.65 mT (estimated as on 01.09.2024) | 272,225 mT during the FY 2024-25. Only Opencast | No production has been reported from Underground Mining as proposed | Rule 11(1)   |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |

**2.3.1 : Development - Opencast Details**

| S.N                                     | Items for Reporting                       | As Per Approved Mining Plan  | Actual  | Deviation   | Violation under Rule |
|---|---|--|---|---|----------------------|
| 1                                       | Location of development w.r.t. lease area | North Side South Side OC 2325891N - 2326524N/ 371837E - 372404E BPM<br>2326323N-2326393N/372198E-372269E UG<br>2325810N-2326378N/371973E-372421E | OC (At Pit bottom) 2325966-2326504N/ 371856E -372382E. BPM No Work UG No Work | No work in BPM and Underground has been carried out as proposed.  | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL         |   |  |   |   |                      |
| 2                                       | Quantity of overburden generation in m3   | OC 8,55,250 m3 BPM NIL UG 1,31,994 m3  | OC 3,12,506 m3 BPM NIL UG NIL   | The target of generation of overburden from Opencast, BPM and Underground workings has not been achieved. | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL         |   |  |   |   |                      |
| 3                                       | Quantity of topsoil generation in m3      | 0  | 0   | 0.000   | No Violation         |
| Remark: No proposal<br>Remark File: NIL |   |  |   |   |                      |
| 4                                       | Stripping ratio : ore to OB ratio         | OC: 1:2.85, UG 1:0.813   | OC 1:1.5 UG NIL   | There is deviation in the ratio both in opencast and underground working                                  | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL         |   |  |   |   |                      |

### 2.3.2 : Development - Underground Details

| S.N | Items for Reporting  | As Per Approved Mining Plan | Actual | Deviation                                   | Violation under Rule |
|-----|----------------------|-----------------------------|--------|---|----------------------|
| 1   | Mode of Entry Shaft/ | Decline                     | None   | The proposed Decline 1 and 2 were found not | Rule                 |

|                                 |                          |          |      |   |              |
|---------------------------------|--------------------------|----------|------|---|--------------|
|                                 | Adit/Incline/Decline     |          |      | made.                                     | 11(1)        |
| Remark: NIL<br>Remark File: NIL |                          |          |      |   |              |
| 2                               | Method of Working        | Stoping  | None | No stopes have been developed as proposed | Rule 11(1)   |
| Remark: NIL<br>Remark File: NIL |                          |          |      |   |              |
| 3                               | (i)Shaft                 | 3        | 0    | 3.000                                     | Rule 11(1)   |
| Remark: NIL<br>Remark File: NIL |                          |          |      |   |              |
| 4                               | (ii)Incline/Decline/Ramp | Decline  | 0    | Decline 1 and 2 have not been made        | Rule 11(1)   |
| Remark: NIL<br>Remark File: NIL |                          |          |      |   |              |
| 5                               | (iii)Raises/Winzes       | 0        | 0    | 0.000                                     | No Violation |
| Remark: NIL<br>Remark File: NIL |                          |          |      |   |              |
| 6                               | (iv)Adit                 | 0        | 0    | 0.000                                     | No Violation |
| Remark: NIL<br>Remark File: NIL |                          |          |      |   |              |
| 7                               | (v)Haulage               | Proposed | 0    | No haulage was found as proposed          | Rule 11(1)   |
| Remark: NIL<br>Remark File: NIL |                          |          |      |   |              |

|                                 |  |          |   |   |              |
|---------------------------------|--|----------|---|---|--------------|
| 8                               | (vi)Cross-Cut  | 0        | 0 | 0.000   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |          |   |   |              |
| 9                               | (vii)Ore-Drive/Levels  | Proposed | 0 | The ore drive have not been made as proposed                            | Rule 11(1)   |
| Remark: NIL<br>Remark File: NIL |  |          |   |   |              |
| 10                              | Number of stopes under development during the year               | 0        | 0 | 0.000   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |          |   |   |              |
| 11                              | Number of Levels   | 0        | 0 | 0.000   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |          |   |   |              |
| 12                              | Level Interval (in Meter)  | 0        | 0 | 0.000   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |          |   |   |              |
| 13                              | Quantum of Ore Generated while Development during the year (inT) | 55700    | 0 | The quantum of ore proposed i.e. 55700.000 tonnes could not be achieved | Rule 11(1)   |
| Remark: NIL<br>Remark File: NIL |  |          |   |   |              |
| 14                              | Ore Recovery in the development                                  | 55700    | 0 | The proposed ore recovery of 55700.000 tonnes could not be achieved     | Rule 11(1)   |

|                                 |                                    |   |   |       |              |
|---------------------------------|------------------------------------|---|---|-------|--------------|
| Remark: NIL<br>Remark File: NIL |                                    |   |   |       |              |
| 15                              | Quantity of waste generation in m3 | 0 | 0 | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |                                    |   |   |       |              |

#### 2.4.1 Exploitation - Opencast Mine Details

| S.N                             | Items for Reporting   | As Per Approved Mining Plan | Actual | Deviation   | Violation under Rule |
|---------------------------------|---|-----------------------------|--------|---|----------------------|
| 1                               | Number of pits / Blocks proposed for production                       | 1                           | 1      | 0.000   | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |   |                      |
| 2                               | Quantity of ROM mineral production proposed (in T)                    | 512746                      | 272225 | There is a shortfall of 240521.000 tonnes in the ROM production       | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL |   |                             |        |   |                      |
| 3                               | Recovery of salable/usable mineral quantity from ROM production in T) | 357270                      | 272225 | There is a shortfall of 85045.000 tonnes of saleable mineral quantity | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL |   |                             |        |   |                      |
| 4                               | Quantity of mineral   | 86572                       | 0      | 86572.000   | No                   |

|   |   |                    |                                       |  |              |
|---|---|--------------------|---------------------------------------|--|--------------|
|   | reject/Sub-grade generation   |                    |                                       |  | Violation    |
| Remark: All saleable<br>Remark File: NIL  |   |                    |                                       |  |              |
| 5   | Grade of mineral reject/sub-grade generation as per threshold value declared                            | 10% Cr2O3          | 10% Cr2O3                             | 0  | No Violation |
| Remark: NIL<br>Remark File: NIL   |   |                    |                                       |  |              |
| 6   | Manual/Mechanised method adopted for segregating subgrade/mineral rejects from ROM                      | Mechanised         | Mechanised                            | 0  | No Violation |
| Remark: NIL<br>Remark File: NIL   |   |                    |                                       |  |              |
| 7   | Whether height of benches in Overburden & mineral suitable for method of mining proposed in mining plan | 8m height proposed | Not maintained at most of the places. | During inspection it was observed that the height of the benches was exceeding the proposed height of 8m | Rule 11(1)   |
| Remark: NIL<br>Remark File: NIL   |   |                    |                                       |  |              |
| 8   | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject             | Yes Proposed       | Carried out through COBP              | 0  | No Violation |
| Remark: Feed Grade to COBP 22% to 28% Cr2O3 Output Concentrate grade 42% to 49% Cr2O3<br>Remark File: NIL |   |                    |                                       |  |              |

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### 2.4.2 Exploitation - Underground Mine Details

| S.N                             | Items for Reporting   | As Per Approved Mining Plan | Actual | Deviation | Violation under Rule |
|---------------------------------|---|-----------------------------|--------|-----------|----------------------|
| 1                               | Number of levels for production                                       | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 2                               | Number of stopes for production                                       | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 3                               | Quantity of ROM mineral production from stopes                        | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 4                               | Recovery of salable/usable mineral quantity from ROM production in T) | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 5                               | Total Production (Development + stopes)                               | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
|                                 |   |                             |        |           |                      |

|                                 |   |     |     |       |              |
|---------------------------------|---|-----|-----|-------|--------------|
| 6                               | Overall recovery in %   | 0   | 0   | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |     |     |       |              |
| 7                               | Quantity of mineral reject generation   | 0   | 0   | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |     |     |       |              |
| 8                               | Grade of salable/usable mineral quantity                                      | 0   | 0   | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |     |     |       |              |
| 9                               | Manual / Mechanized method adopted for segregating mineral reject from ROM    | 0   | 0   | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |     |     |       |              |
| 10                              | Any analysis or beneficiation study proposed & carried out for mineral reject | 0   | Nil | Nil   | No Violation |
| Remark: NIL<br>Remark File: NIL |   |     |     |       |              |
| 11                              | Provision of drilling & blasting  | Nil | Nil | Nil   | No Violation |
| Remark: NIL<br>Remark File: NIL |   |     |     |       |              |
| 12                              | Provision of mining   | 0   | 0   | 0.000 | No           |

|                                 |                            |  |  |  |               |
|---------------------------------|----------------------------|--|--|--|---------------|
|                                 | machineries<br>underground |  |  |  | Violatio<br>n |
| Remark: NIL<br>Remark File: NIL |                            |  |  |  |               |

### 2.4.3 : Exploitation - Dump Working Details

| S.N                             | Items for Reporting   | As Per Approved Mining Plan | Actual | Deviation | Violatio<br>n under<br>Rule |
|---------------------------------|---|-----------------------------|--------|-----------|-----------------------------|
| 1                               | Number of dumps<br>proposed for production                                  | 0                           | 0      | 0.000     | No<br>Violatio<br>n         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                             |
| 2                               | Quantity of dump<br>material handling<br>Proposed (in Tonne)                | 0                           | 0      | 0.000     | No<br>Violatio<br>n         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                             |
| 3                               | Recovery of<br>salable/usable mineral<br>from dump production<br>(in Tonne) | 0                           | 0      | 0.000     | No<br>Violatio<br>n         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                             |
| 4                               | Production from<br>dump(s) during the year                                  | 0                           | 0      | 0.000     | No<br>Violatio<br>n         |

|                                 |   |   |   |       |              |
|---------------------------------|---|---|---|-------|--------------|
| Remark: NIL<br>Remark File: NIL |   |   |   |       |              |
| 5                               | Quantity of mineral reject generation   | 0 | 0 | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |   |       |              |
| 6                               | Grade of mineral reject generation and threshold value declared               | 0 | 0 | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |   |       |              |
| 7                               | Any analysis or beneficiation study proposed & carried out for mineral reject | 0 | 0 | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |   |       |              |
| 8                               | Manual / Mechanized method adopted for dump working                           | 0 | 0 | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |   |       |              |

**2.5.1 : OB/Waste Dumps Details**

| S.N | Items for Reporting | As Per Approved Mining Plan | Actual | Deviation | Violation under Rule |
|-----|---------------------|-----------------------------|--------|-----------|----------------------|
|     |                     |                             |        |           |                      |

|                                 |   |   |  |       |              |
|---------------------------------|---|---|--|-------|--------------|
| 1                               | Separate dumping of topsoil, OB & mineral rejects, fines, tailings (Rule 36,37) | OB  | OB   | 0     | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |  |       |              |
| 2                               | Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines         | Dump1,2326090-2326522N/371030-371400E<br>Dump2,2326200-2326585N/371400-372020E<br>Dump3,2325556-2325952N/372090-372555E | Dump1, 2326090 N-2326520 N/371030E 371394 E<br>Dump2, 2326232N 2326584N /371394 E 372020 E<br>Dump3, 2325570N-2326060N/372189E-372601E | 0     | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |  |       |              |
| 3                               | Number of active & Inative dumps  | Active-03   | Active-03  | 0     | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |  |       |              |
| 4                               | Number of dead dumps  | 0   | 0  | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |  |       |              |
| 5                               | Number of dumps proposed for stabilished  | 0   | 0  | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |  |       |              |
| 6                               | Stabilization Technique (Terracing, plantation, geo-textiles etc.)              | 0   | 0  | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |   |   |  |       |              |

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**2.6.1 : Solid Waste Management - Backfilling (Opencast) Details**

| S.N                             | Items for Reporting  | As Per Approved Mining Plan | Actual | Deviation | Violation under Rule |
|---------------------------------|--|-----------------------------|--------|-----------|----------------------|
| 1                               | Status on part or full extraction of mineral from mined out area before starting backfilling | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |  |                             |        |           |                      |
| 2                               | Year-wise area under backfilling of mined out area   | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |  |                             |        |           |                      |
| 3                               | Year-wise topsoil generation, Utilization and Stored proposal (in m3)                        | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |  |                             |        |           |                      |
| 4                               | Total area fully reclaimed & rehabilitated   | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |  |                             |        |           |                      |
| 5                               | Locations of proposed reclamation &  | 0                           | 0      | 0.000     | No Violation         |

|                                 |               |  |  |  |   |
|---------------------------------|---------------|--|--|--|---|
|                                 | rehabilitated |  |  |  | n |
| Remark: NIL<br>Remark File: NIL |               |  |  |  |   |

### 2.6.2 : Solid Waste Management - Backfilling (Underground) Details

| S.N                             | Items for Reporting   | As Per Approved Mining Plan | Actual | Deviation | Violation under Rule |
|---------------------------------|---|-----------------------------|--------|-----------|----------------------|
| 1                               | For Underground, Percentage of Waste backfilled underground itself  | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 2                               | For Underground, number of exploited stopes under filling/stowing   | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 3                               | For Underground, number of exploited stopes abandoned after filling | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 4                               | Total area fully reclaimed & rehabilitated                          | 0                           | 0      | 0.000     | No Violation         |

Remark: NIL  
 Remark File: NIL

**2.7.1 : Progressive Mine Closure Plan (PMCP) Details**

| S.N                             | Items for Reporting   | As Per Approved Mining Plan | Actual | Deviation | Violation under Rule |
|---------------------------------|---|-----------------------------|--------|-----------|----------------------|
| 1                               | Compliance on reclamation and rehabilitation by backfilling/Other means<br><br>Total area and numbers of plantation proposed.               | 3000                        | 3000   | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 2                               | Rehabilitation by making water reservoir  | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 3                               | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation<br>ii) Area rehabilitated (ha)<br>iii) Method of rehabilitation | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |

|  |  |   |  |   |              |
|--|--|---|--|---|--------------|
| 4  | Compliance of Environmental monitoring (core zone & buffer zone) | Environmental monitoring (core zone & buffer zone) proposed | Environmental monitoring (core zone & buffer zone) carried out | 0 | No Violation |
| Remark: Core Zone: 3 locations (quarry, near office & bachelor barrack) Buffer Zone: 2 villages (Kaliapani and Ransol)<br>Remark File: NIL |  |   |  |   |              |

### 2.8.1 : Mineral Conservation Details

| S.N  | Items for Reporting  | As Per Approved Mining Plan  | Actual   | Deviation | Violation under Rule |
|--|--|--|--|-----------|----------------------|
| 1  | ROM Mineral dispatch or grade-wise sorting within lease area | Grade-wise sorting within lease area proposed  | Grade-wise sorting within lease area carried out                                       | 0         | No Violation         |
| Remark: NIL<br>Remark File: NIL  |  |  |  |           |                      |
| 2  | Different grade of mineral sorted out at mines               | i. HighGrade: +52% Cr2O3 ii. Medium Grade: 40-52% Cr2O3 iii. Low Grade: 10%- 40% Cr2O3 | i. HighGrade: +52% Cr2O3 ii. Medium Grade: 40-52% Cr2O3 iii. Low Grade: 10%- 40% Cr2O3 | 0         | No Violation         |
| Remark: NIL<br>Remark File: NIL  |  |  |  |           |                      |
| 3  | Any beneficiation process at mines                           | Yes  | COBP   | 0         | No Violation         |
| Remark: ROM/LG - 40% Cr2O3 is sent to the COB plant to produce concentrate<br>Remark File: NIL |  |  |  |           |                      |
| 4  | For Underground, compliance of Rule 16                       | 0  | 0  | 0.000     | No Violation         |

|                                 |  |   |   |       |              |
|---------------------------------|--|---|---|-------|--------------|
|                                 | (Sub-grade mineral is below cut-off value for the lease) <br> - Sub-grade generation <br> - Sub-grade brought to the surface |   |   |       | n            |
| Remark: NIL<br>Remark File: NIL |  |   |   |       |              |
| 5                               | Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)                          | 0 | 0 | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL |  |   |   |       |              |

### 2.9.1 : Environment Details

| S.N                             | Items for Reporting   | As Per Approved Mining Plan | Actual | Deviation | Violation under Rule |
|---------------------------------|---|-----------------------------|--------|-----------|----------------------|
| 1                               | Separate removal and utilization of topsoil   | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |
| 2                               | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | 0                           | 0      | 0.000     | No Violation         |
| Remark: NIL                     |   |                             |        |           |                      |

|  |   |   |  |       |              |
|--|---|---|--|-------|--------------|
| Remark File: NIL   |   |   |  |       |              |
| 3  | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | 0   | 0  | 0.000 | No Violation |
| Remark: NIL<br>Remark File: NIL  |   |   |  |       |              |
| 4  | Plantation & Survival rate  | 3000 70   | 3000 70  | 0     | No Violation |
| Remark: NIL<br>Remark File: NIL  |   |   |  |       |              |
| 5  | Water sprinkling on roads to control airborne dust  | Water sprinkling on roads to control airborne dust proposed | Water sprinkling on roads to control airborne dust carried out | 0     | No Violation |
| Remark: No of water sprinkler:-02 Each of Capacity 20KL .1.5 KM main haul road fixed water sprinkler system.<br>Remark File: NIL |   |   |  |       |              |

### 2.10 : Annual Return Details

| S.N         | Items for Reporting   | As Per Approved Mining Plan  | Actual  | Deviation | Violation under Rule |
|-------------|---|--|---|-----------|----------------------|
| 1           | Submission of Online Monthly and Annual returns in prescribed period or not | Submission of Online Monthly and Annual returns in prescribed period | Submission of Online Monthly and Annual returns is in prescribed period | 0         | No Violation         |
| Remark: NIL |   |  |   |           |                      |

|                                 |  |   |   |   |              |
|---------------------------------|--|---|---|---|--------------|
| Remark File: NIL                |  |   |   |   |              |
| 2                               | Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017 | Mining Engineer-Aditya Kumar Sahoo Mining Geologist-Jyoti Ranjan Das  | Mining Engineer-Pramod Kumar Mining Geologist-Absent  | 0   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |
| 3                               | Whether incomplete or false or wrong returns submitted (Rule 45(7))                  | Complete and Correct returns to be submitted  | Complete and Correct returns not submitted  | 1. The work done under PMCP has been mentioned as 0. Whereas it was reported during inspection that about 3000 plants have been planted. 2. The details for plantation and survival rate has been in correctly furnished. | Rule 45(7)   |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |
| 4                               | Status of Approval of FMPCP u/r 24, 25 of MCDR,2017                                  | NA  | NA  | 0   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |
| 5                               | Notices and Returns for the lease area submitted or not where fine applicable        | Notices and Returns for the lease area to be submitted  | Notices and Returns for the lease area submitted  | 0   | No Violation |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |
| 6                               | Scrutiny of Annual return on sale value, Ex. Mine price & production cost            | Lumps 1. 40% to below 52 % Cr2O3-5038 Fines: 1. Below 40% Cr2O3-3801.00 2. 40% to below 52 % Cr2O3- 5610.00 3.52% and above Cr2O3-5610.00 4. CONCENTRATES-8865.00 Cost of Production- 9645.00 | The cost of production appears to be correct. However, all the ex-mine price is in correct as being captive consumption the cost of production will be the ex-mine price. | All the consumption is captive hence the cost of production will be the ex-mine price however different ex-mine price has been furnished  | Rule 45(7)   |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |              |

**2.11 : SDF Details**

| S.N                             | Items for Reporting                                 | As Per Approved Mining Plan | Actual | Deviation | Violation under Rule |
|---------------------------------|---|-----------------------------|--------|-----------|----------------------|
| 1                               | Start Ratings accorded for mine during last 3 years | 3                           | 3      | 0.000     | No Violation         |
| Remark: NIL<br>Remark File: NIL |   |                             |        |           |                      |

**Part-III : Other Reports****3.1.1 : Upload Other Reports**

| S.N. | Reports File | Remark   File Description  |
|------|--------------|----------------------------|
| 1    | NIL          | No other report to furnish |

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## Part-IV : Summary Details

### 4.1 : Summary of Violations

| S.N                             | Items for Reporting  | As Per Approved Mining Plan   | Actual  | Deviation   | Violation under Rule |
|---------------------------------|--|---|---|---|----------------------|
| 1                               | Exploration : Number of Core Boreholes   | 1   | 0   | 1.000 proposed borehole was not made  | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |                      |
| 2                               | Exploration : UNFC category wise reported Resources/Reserves as per MP/MMP ROMP<br><br>Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334) | 121:1100075.68 mT Resource 221: 1507878.42 mT Grand Total (Reserve + Resource): 2607954.10 mT Under Ground Reserve 121: 11119683.84 mT 122: 13389577.00 mT Resource 221: 1245296.81 mT 222: 1578716.00 mT Grand Total (Reserve + Resource): 27333273.65 mT (estimated as on 01.09.2024) | 272,225 mT during the FY 2024-25. Only Opencast                               | No production has been reported from Underground Mining as proposed                                       | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |                      |
| 3                               | Development - Opencast : Location of development w.r.t. lease area   | North Side South Side OC 2325891N - 2326524N/ 371837E - 372404E BPM<br>2326323N-2326393N/372198E-372269E UG<br>2325810N-2326378N/371973E-372421E  | OC (At Pit bottom) 2325966-2326504N/ 371856E -372382E. BPM No Work UG No Work | No work in BPM and Underground has been carried out as proposed.  | Rule 11(1)           |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |                      |
| 4                               | Development - Opencast : Quantity of overburden generation in m3   | OC 8,55,250 m3 BPM NIL UG 1,31,994 m3   | OC 3,12,506 m3 BPM NIL UG NIL   | The target of generation of overburden from Opencast, BPM and Underground workings has not been achieved. | Rule 11(1)           |
| Remark: NIL                     |  |   |   |   |                      |

|                                 |   |                        |                 |  |            |
|---------------------------------|---|------------------------|-----------------|--|------------|
| Remark File: NIL                |   |                        |                 |  |            |
| 5                               | Development - Opencast : Stripping ratio : ore to OB ratio                      | OC: 1:2.85, UG 1:0.813 | OC 1:1.5 UG NIL | There is deviation in the ratio both in opencast and underground working | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                        |                 |  |            |
| 6                               | Development - Method of Underground : Mode of Entry Shaft/ Adit/Incline/Decline | Decline                | None            | The proposed Decline 1 and 2 were found not made.                        | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                        |                 |  |            |
| 7                               | Development - Method of Underground : Method of Working                         | Stoping                | None            | No stopes have been developed as proposed                                | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                        |                 |  |            |
| 8                               | Development - Method of Underground : (i)Shaft                                  | 3                      | 0               | 3.000  | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                        |                 |  |            |
| 9                               | Development - Method of Underground : (ii)Incline/Decline/Ramp                  | Decline                | 0               | Decline 1 and 2 have not been made                                       | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                        |                 |  |            |
| 10                              | Development - Method of Underground : (v)Haulage                                | Proposed               | 0               | No haulage was found as proposed   | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                        |                 |  |            |
| 11                              | Development - Method of Underground : (vii)Ore-Drive/Levels                     | Proposed               | 0               | The ore drive have not been made as proposed                             | Rule 11(1) |
| Remark: NIL                     |   |                        |                 |  |            |

|                                 |   |                    |                                       |  |            |
|---------------------------------|---|--------------------|---------------------------------------|--|------------|
| Remark File: NIL                |   |                    |                                       |  |            |
| 12                              | Development - Method of Underground : Quantum of Ore Generated while Development during the year (inT)                                | 55700              | 0                                     | The quantum of ore proposed i.e. 55700.000 tonnes could not be achieved                                  | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                    |                                       |  |            |
| 13                              | Development - Method of Underground : Ore Recovery in the development   | 55700              | 0                                     | The proposed ore recovery of 55700.000 tonnes could not be achieved                                      | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                    |                                       |  |            |
| 14                              | Exploitation - Opencast Mine : Quantity of ROM mineral production proposed (in T)   | 512746             | 272225                                | There is a shortfall of 240521.000 tonnes in the ROM production  | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                    |                                       |  |            |
| 15                              | Exploitation - Opencast Mine : Recovery of salable/usable mineral quantity from ROM production in T)                                  | 357270             | 272225                                | There is a shortfall of 85045.000 tonnes of saleable mineral quantity                                    | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                    |                                       |  |            |
| 16                              | Exploitation - Opencast Mine : Whether height of benches in Overburden& mineral suitable for method of mining proposed in mining plan | 8m height proposed | Not maintained at most of the places. | During inspection it was observed that the height of the benches was exceeding the proposed height of 8m | Rule 11(1) |
| Remark: NIL<br>Remark File: NIL |   |                    |                                       |  |            |

|                                 |  |   |   |   |            |
|---------------------------------|--|---|---|---|------------|
| 17                              | Annual Return :<br>Whether incomplete or false or wrong returns submitted (Rule 45(7))       | Complete and Correct returns to be submitted  | Complete and Correct returns not submitted  | 1. The work done under PMCP has been mentioned as 0. Whereas it was reported during inspection that about 3000 plants have been planted. 2. The details for plantation and survival rate has been in correctly furnished. | Rule 45(7) |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |            |
| 18                              | Annual Return :<br>Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Lumps 1. 40% to below 52 % Cr2O3-5038 Fines: 1. Below 40% Cr2O3-3801.00 2. 40% to below 52 % Cr2O3- 5610.00 3.52% and above Cr2O3-5610.00 4. CONCENTRATES-8865.00 Cost of Production- 9645.00 | The cost of production appears to be correct. However, all the ex-mine price is in correct as being captive consumption the cost of production will be the ex-mine price. | All the consumption is captive hence the cost of production will be the ex-mine price however different ex-mine price has been furnished  | Rule 45(7) |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |            |
| 19                              | Plans and Sections   | Plans and sections to be maintained and updated   | During inspection no Plans and sections were observed to maintained   | During inspection no Plans and sections were observed to maintained   | Rule 31(4) |
| Remark: NIL<br>Remark File: NIL |  |   |   |   |            |

Final Submitted

Esigned by:  VIKRAM DESHPANDE  
Date: 05/12/2025 10:56:38 PM