

I/31145/2024

**MCDR inspection REPORT**

**Kolkata regional office**

**Mine file No :** KOL/JHK/SB(E)/Cu-3

**Mine code :** 14BHR27005

- (i) Name of the Inspecting : **K001** ) **B.L. KISKU**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Parvez Alam, Mines Manager & Shri Amit Degvekar,  
Official with  
Designation
- (iv) Date of Inspection : 21/04/2023
- (v) Prev.inspection date : 15/11/2022

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SURDA**
- (b) **Registration NO.** : **IBM/6381/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Underground
- (e) Postal address
- State : JHARKHAND
- District : SINGHBHUM (EAST)
- Village : SURDA & MOSABANI
- Taluka : GHATSILA
- Post office : SURDA-MOSABANI
- Pin Code : 832104
- FAX No. : 06585-225806
- E-mail : bhattacharya\_sk@hindustan
- Phone : 06585-225878/225862
- (f) Police Station : GHATSHILA
- (g) First opening date : 01/01/1956
- (h) Weekly day of rest : SUN
2. Address for : PO: MOUBHANDAR  
correspondance DIST: EAST SINGHBHUM .  
JHARKHAND PIN 832103
3. (a) Lease Number : JHK0025
- (b) Lease area : 388.68
- (c) Period of lease : 50
- (d) Date of Expiry : 15/03/2030
4. Mineral worked : COPPER ORE Main

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## 5. Name and Address of the

Lessee : HINDUSTHAN COPPER LTD.  
1,ASHUTOSH CHOUDHURY AVENUE  
TAMRA BHAWAN KOLKATA-700019  
KOLKATA WEST BENGAL  
Phone:033-2283-2832/2529  
FAX :033-2283-2623

Owner : Shri Sanjay Panjiyar  
Flat No.-1H,402, Avidipata-  
phase-1 401, Barakhola,  
Kolkata- 700099 SINGHBHUM  
(EAST) JHARKHAND  
Phone: 8878951491  
FAX :

Agent : SHRI KHUSIRAM HANSDAH  
INDIAN COPPER COMPLEX  
GHATSILA EAST SINGHBHUM  
SINGHBHUM (EAST) JHARKHAND  
Phone: 9575279259  
FAX :

## Mining Engineer

Name : PARVEZ ALAM,Full Time  
Qualification : BE(MINING)  
Appointment/ : 01/05/2015 05/09/2022  
Termination date

## Mining Engineer

Name : Dibhyo Jyoti Shome,Full Time  
Qualification : B.E.(Mining)  
Appointment/ : 05/09/2022  
Termination date

## Geologist

Name : AMIT DEGVEKAR,Full Time  
Qualification : MSc.(Geo)  
Appointment/ : 09/03/2014 01/02/2023  
Termination date

## Geologist

Name : ARINDAM GHOSH,Full Time  
Qualification : M. Sc. (Geology)  
Appointment/ : 01/02/2023  
Termination date

|                               |   |                                |            |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Renewal under rule 24 MCR1960  | 04/10/2007 |
| Plan/Scheme of Mining         | : | Mining Scheme rule 12 MCDR1988 | 21/01/2013 |
|                               | : | MP review under 17(1) MCR 2016 | 16/04/2019 |
|                               | : | MP modif under 17(3) MCR 2016  | 27/11/2020 |
|                               | : | MP modif under 17(3) MCR 2016  | 27/04/2022 |

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

## Exploration :

| Sl.No. | Item  | Proposals                                   | Actual work   | Remarks   |
|--------|---|---|---|---|
| 1a     | Backlog of previous year  | Nil   | Nil   | Nil.  |
| 1b     | Exploration over lease area for geological axis 1 or 2              | 233.53 ha.                                  | Till Date the entire lease area exploration covered under<br>G1 - 162.08 Hect.<br>G2 - 71.45 Hect.<br>G3 - 155.15 Hect.   | Exploration activity started on 27.03.2023 to enhance geological axis total 9 No of BH proposed with 7604m. |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | Nil   | Nil.  | To be spent about Rs. 52.21 Lakh.   |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | 155.15 Hect.                                | 155.15 Hect.  | Exploration activity started on 27.03.2023 to enhance geological axis Total 9 No of BH proposed with 7604m. |
| 1e     | Balance reserve as on 01/04/20                                      | Proved Reserve (111)- 2139260 Mill. Tonnes. | Proved Reserve (111) - 2112514 Mill. tonnes<br>122-2.88 Mill. tonnes<br>211-6.68 Mill. tonnes<br>222-1.44 Mill. tonnes<br>331-5.65 Mill. tonnes<br>332-3.25 Mill. tonnes<br>333-9.94 Mill. tonnes | Mining operation couldn't been started due to non-execution of lease deed and only blasted muck hoisting.   |
| 1f     | General remarks of inspecting officers on geology, exploration etc  | N.A.  | Mining operation couldn't been started due to non-execution of lease deed and only blasted muck hoisting.   | Mining operation couldn't been started due to non-execution of lease deed and only blasted muck hoisting.   |

## Development :

| Sl.No. | Item                                     | Proposals   | Actual work  | Remarks   |
|--------|--|---|--|---|
| 2a     | Location of development w.r.t.lease area | Vertical development 1585 m<br>Lateral development 1365 m | Vertical development 88.10 m<br>Lateral development 115.40 m | Mining operation was closed due to non-extension of Mining Lease and E.C. |

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|    |   |   |  |   |
|----|---|---|--|---|
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15)                          | Not applicable, a this mine is underground. | Not applicable.  | Mining operation closed due to non-extension of Mining Lease and E.C.                           |
| 2c | Stripping ratio or ore to OB ratio  | Not applicabe.                              | Not applicabe.   | Mine is underground and mining operation is closed due to non-extension of Mining Lease and E.C |
| 2d | Quantity of topsoil generation in m3  | N.A   | N.A  | N.A   |
| 2e | Quantity of overburden generation in m3   | N.A.  | N.A.   | N.A.  |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | N.A.  | Mining operation is closed due to non-extension of Mining Lease and E.C. | Mining operation is closed due to non-extension of Mining Lease and E.C.                        |

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**Exploitation:**

| Sl.No. | Item  | Propasals | Actual work | Remarks  |
|--------|---|-----------|-------------|--|
| 3a     | Number of pit proposed for production                             | N.A.      | N.A.        | No production for during 2022-23 only Blasted muck hoisting. |
| 3b     | Quantity of ROM mineral production proposed                       | 310992 MT | 26746 MT    | No production for during 2022-23 only Blasted muck hoisting. |
| 3c     | Recovery of sailable/usable mineral from ROM production           | N.A.      | N.A.        | No production for FY 2022-23 only blasted muck hoisting.     |
| 3d     | Quantity of mineral reject generation                             | N.A.      | N.A.        | Nil  |
| 3e     | Grade of mineral rejects generation and threshold value declared. | N.A.      | N.A.        | Nil  |
| 3f     | Quantity of sub grade mineral generation.                         | N.A.      | N.A.        | Nil  |

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|    |  |   |   |  |
|----|--|---|---|--|
| 3g | Grade of sub grade mineral generation  | N.A.  | N.A.  | Nil  |
| 3h | Manual / Mechanised method adopted for segregating from ROM  | N.A.  | N.A.  | Nil  |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.      | N.A.  | N.A.  | Nil  |
| 3j | Provision of drilling and blasting in mineral benches  | N.A.  | N.A.  | Nil  |
| 3k | Provision of mining machineries in mineral benches   | N.A.  | N.A.  | Nil  |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | N.A.  | N.A.  | Nil  |
| 3m | Total area covered under excavation/pits   | N.A.  | N.A.  | Nil  |
| 3n | Ore to OB ratio for the pit/mine during the year.  | N.A.  | N.A.  | Nil  |
| 3o | Total area put in use under different heads at the end of year                                       | N.A.  | N.A.  | No fresh area is proposed to be degraded as the mine is an Underground Mine. |
| 3p | Production of ROM mineral during the last five year period as applicable                             | 2018-19 :<br>900000 MT,<br>2019-20 :<br>443110 MT,<br>2020-21 : NIL,<br>2021-22 : NIL,<br>2022-23 :<br>310992 MT. | 2018-19 : 217524 MT,<br>2019-20 : 245247 MT,<br>2020-21 : NIL,<br>2021-22 : NIL,<br>2022-23 : 26746 MT. | Nil  |
| 3q | General remarks of inspecting officers on method of mining etc.                                      | N.A.  | N.A.  | No development work is done, only blasted muck hoisting is done.             |

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## Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals | Actual work | Remarks   |
|--------|--|-----------|-------------|---|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)   | N.A.      | N.A.        | No development work is done, only previous blasted muck hoisting is done. |
| 4b     | Location of topsoil, OB and mineral reject dumps                   | N.A.      | N.A.        | No development work is done, only previous blasted muck hoisting is done. |
| 4c     | Number of dumps within lease area and outside of lease area        | N.A.      | N.A.        | Nil   |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | N.A.      | N.A.        | Nil   |
| 4e     | Number of active and alive dumps.                                  | N.A.      | N.A.        | Nil   |
| 4f     | Number of dead dumps.  | N.A.      | N.A.        | Nil   |
| 4g     | Number of dumps established.                                       | N.A.      | N.A.        | Nil   |
| 4h     | Whether Retaining wall or garland drain all along dumps are there. | N.A.      | N.A.        | Nil   |
| 4i     | Length of Retaining wall or garland drain all along dumps          | N.A.      | N.A.        | Nil   |
| 4j     | Number of settling ponds   | N.A.      | N.A.        | Nil   |
| 4k     | Specific comments of inspecting officer on waste dump management   | N.A.      | N.A.        | No development work is done, only previous blasted muck hoisting is done. |

## 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. | N.A.      | N.A.        | No development work is done, only previous blasted muck hoisting is done. |

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|    |   |      |      |   |
|----|---|------|------|---|
| 5b | Area under backfilling of mined out area  | N.A. | N.A. | Nil   |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | N.A. | N.A. | Nil   |
| 5d | Total area fully reclaimed and rehabilitated  | N.A. | N.A. | Nil   |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc.                | N.A. | N.A. | This is a underground mine. Backfilling of voids is done by blasted debris. |

#### 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). | N.A.      | N.A.        | This is an underground mine. At the time of inspection, mine was not working, only previous blasted muck hoisting is done. |
| 6b     | Area available for rehabilitation (ha) .                                     | N.A.      | N.A.        | Nil  |
| 6c     | afforestation done (ha).   | N.A.      | N.A.        | Nil  |
| 6d     | No. of saplings planted during the year                                      | N.A.      | N.A.        | Nil  |
| 6e     | Cumulative no .of plants   | N.A.      | N.A.        | Nil  |
| 6f     | Any other method of rehabilitation   | N.A.      | N.A.        | Nil  |
| 6g     | Cost incurred on watch and care during the year                              | N.A.      | N.A.        | Nil  |

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|    |  |      |  |     |
|----|--|------|--|-----|
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | N.A. | This is an underground mine. Backfilling of voids is done by blasted debris. | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area       | N.A. | N.A.   | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | N.A. | N.A.   | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.                   | N.A. | N.A.   | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation                                   | N.A. | N.A.   | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)                       | N.A. | N.A.   | Nil |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation                      | N.A. | N.A.   | Nil |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)   | N.A. | N.A.   | Nil |



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|    |   |      |      |     |
|----|---|------|------|-----|
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | N.A. | N.A. | Nil |
|----|---|------|------|-----|

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**Mineral Conservation:**

| Sl.No. | Item   | Propasals           | Actual work                     | Remarks |
|--------|--|---------------------|---------------------------------|---------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | 2022-23 : 310992 MT | 2022-23: 5000 MT (Within lease) | Nil     |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | N.A.                | N.A.                            | Nil     |
| 7c     | Different grade of mineral sorted out at mines.  | N.A.                | N.A.                            | Nil     |
| 7d     | Any beneficiation process at mines .   | N.A.                | N.A.                            | Nil     |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues | N.A.                | N.A.                            | Nil     |

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**Environment:**

| Sl.No. | Item  | Propasals | Actual work | Remarks   |
|--------|---|-----------|-------------|---|
| 8a     | Separate removal and utilization of topsoil (Rule 32) | N.A.      | N.A.        | Nil. This is an underground mine. No top soil are removed.  |
| 8b     | Concurrent use or storage of topsoil                  | N.A.      | N.A.        | This is an underground mine. No top soil generation arises. |

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|    |   |      |      |   |
|----|---|------|------|---|
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | N.A. | N.A. | Nil   |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | N.A. | N.A. | Nil. Blasted waste rocks & rejects are used for backfilling of voids. |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | N.A. | N.A. | Nil   |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | N.A. | N.A. | Nil   |
| 8g | Survival rate   | N.A. | N.A. | Nil   |
| 8h | Water sprinkling on roads to control airborne dust  | N.A. | N.A. | Nil   |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          | N.A. | N.A. | Nil. This is an underground mine.                                     |

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**Compliance of Rule 45:**

| Sl.No. | Item   | Propasals | Actual work                                     | Remarks   |
|--------|--|-----------|---|---|
| 9a     | Status of submission of Monthly and Annual returns | Yes.      | MR & AR for the year 2022-23 submitted in time. | MR & AR for the year 2022-23 submitted in time. |

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|    |   |  |  |     |
|----|---|--|--|-----|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Mining Engineer - Shri Parvez Alam<br>Mining Geologist - Shri Amit Degvekar.   | 1. Mining Engineer - Shri Parvez Alam<br>2. Mining Geologist - Shri Amit Degvekar.   | Nil |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | (i) Area under Forest = 149.030 hectcs.,<br>(ii) Area under Non-Forest = 239.650 hectcs.<br>(iii) Area for which surface rights are held:-<br>(a) Under Forest - 31.07 ha.<br>(b) Under Non Forest - 35.26 ha.<br>(iv) Used for waste disposal - 5.48 ha.,<br>(v) Occupied by plant, buildings, residential, welfare buildings and roads - 58.55 ha.,<br>(vi) Used for any other purpose (top soil) - 2.28 ha. | (i) Area under Forest = 149.030 hectcs.,<br>(ii) Area under Non-Forest = 239.650 hectcs.<br>(iii) Area for which surface rights are held:-<br>(a) Under Forest - 31.07 ha.<br>(b) Under Non Forest - 35.26 ha.<br>(iv) Used for waste disposal - 5.48 ha.,<br>(v) Occupied by plant, buildings, residential, welfare buildings and roads - 58.55 ha.,<br>(vi) Used for any other purpose (top soil) - 2.28 ha. | Nil |
| 9d | Scrutiny of Annual return on afforestation  | i) Number of trees planted during the year - 300 nos.<br>ii) Survival rate in percentage - 60%<br>iii) Total no. of trees at the end of the year - 180 nos.  | i) Number of trees planted during the year - 300 nos.<br>ii) Survival rate in percentage - 60%<br>iii) Total no. of trees at the end of the year - 180 nos.  | Nil |

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|    |   |   |   |  |
|----|---|---|---|--|
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | N.A.  | N.A.  | Nil  |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                    | N.A.  | N.A.  | Nil  |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex-mine price of the ore produced Rs. 8561.40/- | Ex-mine price of the ore produced Rs. 8561.40/-.<br>Appears to be correct.  | Ex-mine price of the ore produced Rs. 8561.40/-.<br>Appears to be correct. |
| 9h | Scrutiny of Annual return on fixed assets                                   | Value of Fixed Assets Rs. 1079361743/-          | Total Value of Fixed Assets Rs. 1079361743/- under following heads: -<br>(i) Land - Rs. 95323420/-<br>(ii)(a) Industrial Buildings - Rs. 1584502/-<br>(ii)(b) Residential Buildings - Rs. 34422/-<br>(iii) Plant and Machinery including transport equipments -Rs. 648915741/-<br>(iv) Capitalised Expenditure exploration, development, major overhaul and repair to machinery etc. - Rs 333503658/- | Nil  |

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|    |  |  |  |     |
|----|--|--|--|-----|
| 9k | Scrutiny of<br>Annual return on<br>mining<br>machineries | (a) WINDING<br>ENGINE (ELEC.)<br>2000 Kgs<br>capacity - 1<br>no.,<br>(b) WINDING<br>ENGINE (ELEC.)<br>2750 Kgs<br>capacity - 1<br>no.,<br>(c) WINDING<br>ENGINE (ELEC.)<br>3750 Kgs<br>capacity - 1<br>no.,<br>(d)<br>VENTILATION<br>FAN 6000<br>cum/hr - 1<br>no.,<br>(e)<br>VENTILATION<br>FAN 4300<br>cum/hr - 1<br>no.,<br>(f) LOAD HAUL<br>DUMPER 1.50<br>cum - 5 nos.,<br>1.45 cum -1<br>no. & 0.76 cum<br>- 1 no. | (a) WINDING ENGINE<br>(ELEC.) 2000 Kgs<br>capacity - 1 no., 2750<br>Kgs capacity - 1 no. &<br>3750 Kgs capacity - 1<br>no.,<br>(b) VENTILATION FAN 6000<br>cum/hr - 1 no. & 4300<br>cum/hr - 1 no.,<br>(c) LOAD HAUL DUMPER<br>1.50 cum - 5 nos., 1.45<br>cum - 1 no. & 0.76 cum -<br>3 nos.<br>(d) PUMPS (Elec.) 100<br>Ltr/min - 3 nos., 220<br>Ltr/min - 2 nos., 20<br>Ltr/min - 1 no., 60<br>Ltr/min - 1 no. & 55<br>Ltr/min - 1 no. (e) AIR<br>COMPRESSORS - 1000 -<br>3500 cum/min - 9 nos.<br>(f) CRANE 5.00 Tonne - 7<br>nos.<br>(g) FRONT END LOADER<br>0.76 cum - 5 nos. | Nil |
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Details of violations observed during current inspection and compliance position of violation pointed out

| Violation observed |           |               | Show couse position |           |               |
|--------------------|-----------|---------------|---------------------|-----------|---------------|
| Rule NO.           | Issued on | Compliance on | Rule NO.            | Issued on | Compliance on |

Date :

(B.L. KISKU)

Indian Bureau of Mines

**Signed by Babulal Kisku****Date: 03-05-2024 16:46:20****Reason: Approved**