Mine code: 14BHR27005

# INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION MCDR INSPECTION REPORT Ranchi Regional Office

Mine file No: MCDR-MiFL0Cu/2/2023-RCH-IBM\_EZ

Date of Inspection: 22.10.2024

General:

<u>eral:</u>		
Sl. No.	Particulars	Details
1.	Name of the Mines	Surda U/G Copper Mine
2	Total Lease Area (Ha)	388.68 Ha
	with breakup of non-forest land & forest land	Non forest: 239.65 Ha; Forest: 149.03 Ha
3.	Mine code	14BHR27005
4	IBM Registration Number under rule	IBM/6381/2011
	45 of MCDR, 1988/2017	
5	Name of the lessee, Address, Phone, email and fax number	Hindustan Copper Limited, Indian Copper Complex, Ghatsila
6	Village	Surda
7	Taluka/Mandal	Ghatsila
8	District	East Singhbhum
9	Pin code	832303
10	State	Jharkhand
11	Post Office	Ghatsila
12	Nearest Police Station	Mosabani
13	Nearest Railway station	Ghatsila
14	Date of Grant of Mining Lease	16.06.1939
15	Date of Execution	26.12.1941
16	Date of Opening of Mine	1956
17	Date of First Renewal, if applicable	Renewal application submitted for the period of 20-year
	and its period & expiry	w.e.f. 16.06.1984 to 15.06.2004 and executed on
	F J	02.01.1990
18	Date of second Renewal, if applicable and its period & expiry	Application for 2 <sup>nd</sup> renewal of the lease for a period of 10 years w.e.f. 16.06.2004 to 15.06.2014 and executed on 22.02.2007.
		Application for 3 <sup>rd</sup> renewal of the lease for a period of 6 years w.e.f. 16.06.2014 to 31.03.2020 and executed on 15.07.2017
		Application for 4 <sup>th</sup> renewal of the lease for a period of 20 years w.e.f. 01.04.2020 to 31.03.2040 and executed on 26.09.2024
19	Date of submission of renewal	NA
	application if Mining operations are	
	continuing under deemed extension	
20	Name of the Nominated Owner with	Shri Sanjiv Kumar Singh
	Address, phone, email, fax number	M/s Hindustan Copper Limited, Tamra Bhavan 1,
	and date of appointment	Ashutosh Chowdhury Avenue, Kolkata -700019, West
		Bengal
		Phone: 033-22832623, Date of appointment:
		09.06.2022
		Email: sanjivkumarsingh@hindustancopper.com
21	Name of the Mine Agent with	Shri Shyam SundarSethi
	Address, phone email, fax number	Moubhnadar, Ghatsila, East-Singhbhum, Jharkhand-
	and date appointment in mines.	832103
		Mobile -9424661530 Date of appointment: 01.04.2023
		Email: shyam ss@hindustancopper.com
22	Name of the Mines Manager with	Shri Dibhyo Jyoti Shome,
	Address, Phone, email, fax number	Moubhandar, Ghatsila, East- Singhbhum, Jharkhand,
	and date of appointment	832103; Mobile: 9608026844; Email:
	Tr.	dibhyo js@hindustancopper.com
		DOA in Mines: 05.09.2024; Experience: 18 yrs

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23	Name of the mining engineer,	Shri Dibhyo Jyoti Shome,
	qualification and total experience	Moubhandar, Ghatsila, East- Singhbhum, Jharkhand, 832 10.
	with Address, phone, email, fax	Mobile: 9608026844;Email: dibhyo_js@hindustancopper.com
	number and date of appointment in	DOA in Mines: 05.09.2024; Experience: 18 yrs
	Mines.	
24	Whether Geologist and Mining	Yes
	Engineer appointed in Mines satisfy	
	the rule 42 & carrying out their duties	
	as per rule 43 & 44.	
25	Date of Approval of Mining	RAN/ESB/Cu/MP-34/2021-22;27.04.2022
	Plan/Modified Mining Plan with	Period: 01.04.2022 to 31.03.2025
	five-year period and specific	
	condition in approval letter, if any.	
26	Date of Approval of Scheme of	RAN/ESB/Cu/MP-34/2021-22
	Mining/Modified Scheme of Mining	27.04.2022
	with five-year period and specific	Period: 01.04.2022 to 31.03.2025
	condition in approval letter, if any.	
27	Mineral(s) granted in lease and	Copper Ore
	proved for mining	
28	Method of Mining (Opencast,	Underground
	Underground)	
29	Category (Fully Mechanized, Others,	Fully Mechanized
	or Manual)	
30	Captive/non-captive	Captive

### **Exploration**

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Nil	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	44 U/G Borehole with 4400 meters during 2023-24	Nil	8446 meters Surface drilling has been carried out through M/s MECL
1c	Exploration Agency & Expenditure in lakh Rupee during the year	M/s MECL	total expenditure incurred: 12.37Cr in FY 2023-24	total expenditure incurred: 12.37Cr in FY 2023-24
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	NA
1e	Balance reserves	31984095 tons at 1.00% Cu (as on 01.04.2021)	34776858 tons at 1.00% Cu (as on 31.03.2024)	As per furnished records.
1f	General remarks of inspecting officer on geology, exploration etc.		on of the mining lease, nation the mining lease, nations stopped in 2023	-

### **Development**

Sl.No	Item	<b>Proposals (2023-24)</b>	Actual work (2023-24)	Remarks
2a	Location of development w.r.t lease area	X-cut:420 mtrs Interconnect:465 mtrs Level:810 mtrs Shaft:156 mtrs Total:1851 mtrs	0 meters 0 meters 0 meters 0 meters 0 meters	Due to the non- execution of the mining lease, mine production, and development activities has stopped in 2023- 24
2b	Separate benches in top soil, overburden and mineral (Rule 15)	Nil	Nil	Due to the non- execution of the mining lease, mine production,

				and development activities has stopped in 2023- 24
2c	Stripping ratio or ore to OB ratio	Nil	Nil	Due to the non- execution of the mining lease, mine production, and development activities has stopped in 2023- 24
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	ok
2e	Quantity of overburden generation in m <sup>3</sup>	Nil	Nil	Due to the non- execution of the mining lease, mine production, and development activities has stopped in 2023- 24
2f	General remarks of inspecting officer on development etc.		on of the mining lease, nations has stopped in 2023	

## **Exploitation**

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposal for production	Nil	Nil	NA
3b	Quantity of ROM mineral production proposed(cum)	134276 cum (386717 MT)	0 cum (0 MT)	
3c	Recovery of salable/usable mineral from ROM production (tone)	134276 cum (386717 MT)	0 cum (0 MT)	
3d	Quantity of mineral reject generation (cum)	20496 cum (59026 MT)	0 cum (0 MT)	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	NA
3f	Quantity of sub-grade mineral generation	Nil	Nil	NA
3g	Grade of sub-grade mineral generation	NA	NA	NA
3h	Manual/Mechanized method adopted for segregating from ROM	NA	NA	NA
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	NA	NA
3j	Provision of drilling & blasting in mineral benches	NA	NA	NA
3k	Provision of mining machineries in mineral benches	NA	NA	NA
31	Whether height of benches in overburden and mineral	NA	NA	NA

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	suitable for method of mining proposed in MP/SOM			
3m	Total area covered under excavation/pits	Nil	NA	NA
3n	Ore to OB ratio for the pit/ mine during the year	Nil	NA	NA
30	Total area put in use under different heads at the end of the year:	66.33	66.33	Within the envisaged proposal.
3p	Production of ROM (in tons) mineral during last five-year period, as applicable:	2019-20: 443110 2020-21: 317238 2021-22: 400587 2022-23: 310992 2023-24: 386717	2019-20: 245247 2020-21: 0 2021-22: 0 2022-23: 26746 2023-24: 0	Due to the non- execution of the mining lease, mine production, and development activities has stopped in 2023- 24
3q	General remarks of inspecting officer on method of mining etc.		ion of the mining lease, notices has stopped in 2023	•

## **Solid Waste Management-Dumping**

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a.	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	NA	NA	No proposal envisaged in the mining plan
4b	Location of topsoil, & OB & mineral reject dumps	NA	NA	No proposal envisaged in the mining plan
4c	Number of dumps within lease area and outside lease area	NA	NA	No proposal envisaged in the mining plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	No proposal envisaged in the mining plan
4e	Number of active & alive dumps	NA	NA	No proposal envisaged in the mining plan
4f	Number of dead dumps	NA	NA	No proposal envisaged in the mining plan
4g	Number of dumps stabilized	NA	NA	No proposal envisaged in the mining plan
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	No proposal envisaged in the mining plan
4i	Length of Retaining wall or garland drain all along dump	NA	NA	No proposal envisaged in the mining plan
4j	Number of settling ponds	NA	NA	No proposal envisaged in the mining plan
4k	Specific comments of inspecting officer on waste dump management	No proposal envisaged	in the mining plan.	

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### Solid Waste Management-Backfilling

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	0	0	No proposal envisaged in the mining plan
5b	Area under backfilling of mined out area	0	0	No proposal envisaged in the mining plan
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	No proposal envisaged in the mining plan
5d	Total area fully reclaimed & rehabilitated	NA	NA	No proposal envisaged in the mining plan
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No proposal envisaged	in the mining plan.	

### **Progressive Mine Closure Plan**

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2).	Submitted on time	Submitted on time	ok
6b	Management of worked/mined out benches (i) Area available for rehabilitation (ha) (ii) Afforestation done (ha) (iii) No. of sapling planted during the year (iv) Cumulative no. of plants (v) Any other specific method of rehabilitation (vi) Cost incurred on watch & care during the year	NA	NA	No proposal envisaged in the mining plan
6c	Compliance on reclamation and rehabilitation by back filling i) Voids available for backfilling (LxBxD) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NA	NA	No proposal envisaged in the mining plan
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii)Area rehabilitated(ha) iii)Method of rehabilitation	NA	NA	No proposal envisaged in the mining plan

6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air Quality, Surface water Quality, Ground water Quality, Noise Survey: Quarterly reporting	Air Quality, Surface water Quality, Ground water Quality, Noise Survey: Quarterly reporting	No proposal envisaged in the mining plan
6f	General remarks of inspecting & progressive closure operations.	<u> </u>	nmental monitoring (core a out as per envisaged propos	

# Mineral Conservation

Sl.No	Item	Proposals (2023- 24)	Actual work (2023- 24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	386717 MT (0.84 %)	0 MT	Within the envisaged proposal.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	No proposal envisaged in the mining plan
7c	Different grade of mineral sorted out at mines	Not proposed	NA	No proposal envisaged in the mining plan
7d	Any beneficiation process at mines	No beneficiation process available at mine site.	NA	No proposal envisaged in the mining plan
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No propos	sal envisaged in the minin	g plan

#### Environment

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	No proposal envisaged in the mining plan
8b	Concurrent use or storage of topsoil	NA	NA	No proposal envisaged in the mining plan
8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	NA	NA	No proposal envisaged in the mining plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	No proposal envisaged in the mining plan
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	No proposal envisaged in the mining plan
8f	Baseline information on existence of plantation & additional plantation done (Rule 42)	500	500	No proposal envisaged in the mining plan
8g	Survival rate	60%	60%	No proposal envisaged in the mining plan
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling is being done regularly	Ok
8i	General remarks of inspecting officer on	Water sprinkling is being done regularly in and around the mine site. Plantation is being carried out This sustain the aesthetic		

aesthetic beauty in and around mines area.
beauty in and around mines area.

#### **Compliance of Rule 45**

Sl.No	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted up to September 2024 as on 31.10.2024; Annual Return submitted for FY 2023-2024: 29.06.24		Found ok with records.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Dibhyo Jyoti Shome Mining Manager: Dibhyo Jyoti Shome Geologist: Amit Degvekar	Mining Engineer: Dibhyo Jyoti Shome Mining Manager: Dibhyo Jyoti Shome Geologist: Amit Degvekar	Found ok with records.
9с	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total area put to use: 66.33 ha	Total area put to use: 66.33 ha	Found ok with records.
9d	Scrutiny of Annual return on afforestation	500 number of trees planted during the year 2023-24 within the Lease area	500 number of trees planted during the year 2023-24 within the Lease area	Found ok with records.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	Found ok with records.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Found ok with records.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.	0/-	0/-	
9h	Scrutiny of Annual return on fixed assets	Rs 78,92,29,216/-	Rs 78,92,29,216/-	Found ok with records.
9i	Scrutiny of Annual return on mining machineries	Winding Engine (Elect):3 Vent Fan: 2 Air Compressor:7 Generator:2 Pumps: 13 Haulage:01 Rock Shovel Loader :10 Rock Drill: 42 LHD: 4 Loco: 8 Crane:5	Winding Engine (Elect):3 Vent Fan: 2 Air Compressor:7 Generator:2 Pumps: 13 Haulage:01 Rock Shovel Loader :10 Rock Drill: 42 LHD: 4 Loco: 8 Crane:5	Found ok with records.

Details of violations observed during current inspection and compliance position of earlier violation pointed out: -

Earlier Violation: Rule 11(1) dated 23.01.2019; Complied.

**Current Violation: Nil**