

**NDIAN BUREAU OF MINES**  
**MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**  
**MCDR INSPECTION REPORT**  
**Ranchi Regional Office**

Mine file No: MCDR-MiFLOFE/1/2023-RCH-IBM\_EZ

Mine code: 14BHR27001

Date of Inspection: 23.10.2024

**General:**

Sl. No.	Particulars	Details
1.	Name of the Mines	Kendadih U/G Copper Mine
2	Total Lease Area (Ha) with breakup of non-forest land and forest land	1139.60 Ha; Non-Forest: 500.76 Ha; Forest: 638.84 Ha)
3.	Mine code	14BHR27001
4	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/6381/2011
5	Name of the lessee, Address, Phone, email, fax number	Hindustan Copper Limited, Indian Copper Complex, Ghatsila
6	Village	Kendadih
7	Taluka/Mandal	Ghatsila
8	District	East SinghBhum
9	Pin code	832303
10	State	Jharkhand
11	Post Office	Ghatsila
12	Nearest Police Station	Jadugoda
13	Nearest Railway station	Ghatsila
14	Date of Grant of Mining Lease	03.06.1973
15	Date of Execution	03.06.1973
16	Date of Opening of Mine	1973
17	Date of First Renewal, if applicable and its period & expiry	Renewal application submitted for the period of 20 year w.e.f03.06.1993 on dated 24th May 1992
18	Date of second Renewal, if applicable and its period & expiry	<p>Application for 2nd renewal of the lease for a period of 20 years w.e.f3.6.2013 (Form D obtained on 18.04.2012).</p> <p>Govt. of Jharkhand vide letter No. Kha. Ni. 01/2012, dated 18.03.2015 under section 8A (8) of MMDR Amendment Ordinance 2015 has extended the lease period up to 31.03.2020. The Supplementary Lease Deed executed in support of the extended lease period 15th July 2017.</p> <p>Ministry of Mines Govt. of India has issued Mineral (Mining by Government Company) 2015 vide notification dated 3rd Dec-2015 by which as per section 3 (1), period of mining lease has been extended up-to 50 years from the date of initial grant and for this in compliance, Dept. of Mines, Govt. of Jharkhand extended lease period up to 50 years from the initial grant vide letter No 1772/M Ranchi dated 30.10.2019, therefore the period of validity of the said lease is deemed to have been extended up to 2nd day of June 2023&amp; lease deed executed in support of the extended lease period up to 02.06.2023 on dated 4th May 2020.</p> <p>For extension of Kendadih Mining Lease for further period of 20 years, application has been submitted to District Magistrate, East Singhbhum, Jamshedpur as per provision under clause 72 (2) of Mineral Concession Rule (MCR) 2016 amended up to Nov 2021 &amp; subsequently, extension of Mining Lease for next 20 years has been recommended by Dy. Commissioner, Jamshedpur, vide letter no. 421/ Khanan dated 09.05.2023.</p> <p>Directorate of Mines, Govt. of Jharkhand vide letter no. B./M.-6-1028/93/(Khand-I)122 M/, dated 17.01.2024, has communicated that under rule 72(2) of Mineral Concession Rule 2016 amended up to Nov 2021, the application for extension of Kendadih Mining Lease is under process and</p>

		pending for want of statutory clearances. Further, based on the application for extension of the lease period for another 20 years w.e.f. 03.06.2023, Cabinet of Govt. of Jharkhand in its meeting at Ranchi on 20.09.2024 has approved the extension of Kendadih ML over 1139.60 ha in favor of HCL as per provision of Rule 72 (2) of MCR 2016. Govt. of Jharkhand vide letter no. B/M 6-1028/93/Khand-1/1671/M, Ranchi dated 08.10.2024 has extended ML from 03.06.2023 till 02.06.2043.
19	Date of submission of renewal application if Mining operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sanjiv Kumar Singh; M/s Hindustan Copper Limited Tamra Bhavan 1, Ashutosh Chowdhury Avenue, Kolkata -700019, West Bengal. Phone-033-22832623; Fax-033-22902978; Date of appointment: 09.06.2022 Email: <a href="mailto:sanjivkumarsingh@hindustancopper.com">sanjivkumarsingh@hindustancopper.com</a>
21	Name of the Mine Agent with Address, phone email, fax number and date appointment in mines.	Shri Shyam Sundar Sethi, Moubhandar, Ghatsila, East -Singhbhum, Jharkhand- 832103 Mobile -9424661530 Date of appointment: 01.04.2023 Email: <a href="mailto:shyam_ss@hindustancopper.com">shyam_ss@hindustancopper.com</a>
22	Name of the Mines Manager with Address, Phone, email, fax number and date of appointment	Shri Sampath Kumar Sangi, Moubhnadar, Ghatsila, East -Singhbhum, Jharkhand-832103 Mobile-8789372360 / 7033629292 Email: <a href="mailto:sampath_ks@hindustancopper.com">sampath_ks@hindustancopper.com</a> DOA in Mines:14th august 2017
23	Name of the mining engineer, qualification and total experience with Address, phone, email, fax number and date of appointment in Mines.	Shri Sampath Kumar sangi, Moubhnadar, Ghatsila, East - Singhbhum, Jharkhand-832103 Mobile-8789372360 / 7033629292 Email: <a href="mailto:sampath_ks@hindustancopper.com">sampath_ks@hindustancopper.com</a> DOA in Mines: 14th august 2017
24	Whether Geologist and Mining Engineer appointed in Mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	RAN/ESB/Cu/ROMP-05/2023-24;25.11.2023 Period: 02.06.2023 to 02.06.2028
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	RAN/ESB/Cu/ROMP-05/2023-24 ;25.11.2023 Period: 02.06.2023 to 02.06.2028
27	Mineral(s) granted in lease and proved for mining	Copper Ore
28	Method of Mining(Open cast, Underground)	Underground
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

### **Exploration**

Sl. No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Nil	Nil	No proposal in reporting year
1b	Exploration over lease area for Geological axis 1 or 2.	7129M	10588M	Report is yet to be submitted.

1c	Exploration Agency & Expenditure in lakh Rupee during the year	M/s MECL	Rs. 14.4 Cr	As per furnished records
1d	Balance area to be explored to bring Geological axis in 1 or 2	277.47Ha.	277.47Ha.	As per furnished records
1e	Reserves as on 01.04.2023 beginning of the Plan Period (Qty in tons) 111: 741636 122: 154284 211: 639255 222: 456596 331: 3663999 332: 20239000 333: 30780000 G. Total: 56674770 (56.67 MioT)	2,25,395M t	5,63,89,375 MT	Kendadih mine: 4936 tons. Siddeswar mine :0 tons.
1f	General remarks of inspecting officer on geology, exploration etc.	Work done in the area of exploration is satisfactory.		

### **Development**

Sl. No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t lease area	NA		
2b	Separate benches in top soil, overburden and mineral (Rule 15)	Nil	Nil	No proposal in reporting year
2c	Stripping ratio or ore to OB ratio	Nil	Nil	No proposal in reporting year
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	No proposal in reporting year
2e	Quantity of overburden generation in m <sup>3</sup>	Nil	Nil	No proposal in reporting year
2f	General remarks of inspecting officer on development etc.	No proposal in reporting year for this chapter.		

### **Exploitation**

Sl. No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposal for production	Nil	Nil	No proposal in reporting year
3b	Quantity of ROM mineral production proposed(cum)	78262.15 cum (225395 MT)	1713.89cum (4936 MT)	
3c	Recovery of salable/usable mineral from ROM production ( tone)	Nil	Nil	No proposal in reporting year
3d	Quantity of mineral reject generation (cum)	Nil	Nil	No proposal in reporting year
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	No proposal in reporting year
3f	Quantity of sub-grade mineral generation	Nil	Nil	No proposal in reporting year
3g	Grade of sub-grade mineral generation	Nil	Nil	No proposal in reporting year
3h	Manual/Mechanized method adopted for segregating from ROM	Nil	Nil	No proposal in reporting year
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	No proposal in reporting year
3j	Provision of drilling & blasting in	Nil	Nil	No proposal in

	mineral benches			reporting year
3k	Provision of mining machineries in mineral benches	Nil	Nil	No proposal in reporting year
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	No proposal in reporting year
3m	Total area covered under excavation/pits	Nil	Nil	No proposal in reporting year
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	No proposal in reporting year
3o	Total area put in use under different heads at the end of year	Total: 48.69	Total: 48.69	No Additional area required
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 111077 MT 2020-21:66199 MT 2021-22:189806 MT 2022-23: 222865MT 2023-24:225395MT	2019-20: 43230 MT 2020-21:41772 MT 2021-22:25834 MT 2022-23: 26630 MT 2023-24:4936 MT	4936 MT production as on 31.09.2024
3q	General remarks of inspecting officer on method of mining etc.	Most of the points were not proposed in the reporting year. The production is very less however it is due to statutory clearances of different govt. bodies.		

### **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 in reporting year
4b	Location of topsoil, & OB & mineral reject dumps	NA	NA	No proposal in reporting year
4c	Number of dumps within lease area and outside lease area	NA	NA	No proposal in reporting year
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	No proposal in reporting year
4e	Number of active & alive dumps	NA	NA	No proposal in reporting year
4f	Number of dead dumps	NA	NA	No proposal in reporting year
4g	Number of dumps stabilized	NA	NA	No proposal in reporting year
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	No proposal in reporting year
4i	Length of Retaining wall or garland drain all along dump	NA	NA	No proposal in reporting year
4j	Number of settling ponds	NA	NA	No proposal in reporting year
4k	Specific comments of inspecting officer on waste dump management	No proposal in reporting year under this chapter		

### **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	174168 Tonnes	115 Tonnes	Stope voids are back filled with

	before starting backfilling			mill tailings for K-1 stope block between 2L-1L
5b	Area under backfilling of mined out area	30238sq.m	20sq.m	Two Stopes in stope block K-2 between 4L to 3L are ready for back filling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	No proposal in reporting year
5d	Total area fully reclaimed & rehabilitated	NA	NA	No proposal in reporting year
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Ok may be considered satisfactory as mines was not fully operational.		

### **Progressive Mine Closure Plan**

<b>Sl. No</b>	<b>Item</b>	<b>Proposals (2023-24)</b>	<b>Actual work(2023-24)</b>	<b>Remarks</b>
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E(2). Details should be given in the format as given in Annexure-20	Submitted on time	Submitted on time	
6b	Management of worked/mined out benches: i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of sapling planted during 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 in reporting year
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 in reporting year
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii)Area rehabilitated(ha) iii)Method of rehabilitation	NA	NA	No proposal in reporting year
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly Monitoring of Ambient air Quality, Water quality etc.	Quarterly Monitoring of Ambient air Quality, Water quality etc.	ok
6f	General remarks of inspecting & progressive closure operations.	No proposal in reporting year for most of the points of this chapter. Compliance of Environmental monitoring was done by the lessee.		

### **Mineral Conservation**

<b>Sl. No</b>	<b>Item</b>	<b>Proposals (2023-24)</b>	<b>Actual work (2023-24)</b>	<b>Remarks</b>
7a	ROM Mineral dispatch or grade-wise sorting within lease area	225395MT (0.8% to1.1%)	6290MT in DMT (1.08%)	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	No proposal in reporting year
7c	Different grade of mineral sorted out at mines	Not proposed	Nil	No proposal in reporting year
7d	Any beneficiation process at mines	Not proposed	Nil	No proposal in reporting year
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Ok.		

### **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 in reporting year
8b	Concurrent use or storage of topsoil	NA	NA	No proposal in reporting year
8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	NA	NA	No proposal in reporting year
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	No proposal in reporting year
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	No proposal in reporting year
8f	Baseline information on existence of plantation & additional plantation done (Rule 42)	300	300	ok
8g	Survival rate	--	70%	ok
8h	Water sprinkling on roads to control airborne dust	Proposed	being done	ok
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.	The aesthetic beauty in and around mines area is good		

### **Compliance of Rule 45**

Sl. No	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted On time		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Mining Engineer:</b> Sh. Sampath Kumar Samgi <b>Geologist:</b> Sh.J Prakashm <b>Manager:</b> Sh. Sampath Kumar Samgi.	<b>Mining Engineer:</b> Sh. Sampath Kumar Samgi <b>Geologist:</b> Sh.J Prakashm <b>Manager:</b> Sh. Sampath Kumar Samgi.	Matching with the furnished records.
9c	Scrutiny of Annual return on	Total :48.69H	Total :48.69Ha	Matching with the

	land use pattern for area under pits, reclaimed area, dumps etc.	a		furnished records.
9d	Scrutiny of Annual return on afforestation	300 saplings	300 saplings	Matching with the furnished records.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Compiled	NIL	Matching with the furnished records.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: 9492MT Grade:1.01%	ROM: 9492MT Grade:1.01%	Matching with the furnished records.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.	Rs 7215.00	Rs 7215.00	Matching with the furnished records.
9h	Scrutiny of Annual return on fixed assets	Rs 1092107722/-	Rs 1092107722/-	Matching with the furnished records.
9i	Scrutiny of Annual return on mining machineries	Air Compressor-4 Crane-2 Generator-2 Locomotice-7+1 Mine Car-117 rocker shovel loader-11 ventilation fan-2 pumps (elec.)-3 scrapper-23 winding engine (elec.)-1	Air Compressor-4 Crane-2 Generator-2 Locomotice-7+1 Mine Car-117 rocker shovel loader-11 ventilation fan-2 pumps (elec.)-3 scrapper-23 winding engine (elec.)-1	Matching with the furnished records.

**Details of violations observed during last inspection and compliance of violation pointed out:-**

Rule 45(5) b); Dated 30.03.2022; Complied

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

Signature