

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

MCDR inspection REPORT

Kolkata regional office

Mine file No : CAL/BH/SB/CU-3

Mine code : 14BHR27001

- (i) Name of the Inspecting : **G004**) **OM PRAKASH GOPAL**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri S K Sanghi, M.E. & Shri A Degvekar, Geologist
Official with
Designation
- (iv) Date of Inspection : 03/02/2022
- (v) Prev.inspection date : 11/02/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KENDADIH**
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Underground
- (e) **Postal address**
- State : JHARKHAND
- District : SINGHBHUM (EAST)
- Village : TERENCEA
- Taluka : GHATSILA
- Post office : SURDA
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 02/05/1957
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : TAMRA BHAVAN .
ASHUTOSH CHOUDHURY AVENUE . KOLKATA--1.
WEST BENGAL
3. (a) **Lease Number** : BHR0242
- (b) **Lease area** : 1139.6
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 31/03/2020
4. **Mineral worked** : COPPER ORE Main

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 : Sri S Dey
 indian Copper Complex,
 Ghatsila Singhbhum(East)
 Jharkhand-832303 SINGHBHUM
 (EAST) JHARKHAND
 Phone: 8750041900
 FAX :

Geologist
 Name : Mr. J. PRAKASHAM,Full Time
 Qualification : M. Sc. (Geology)
 Appointment/ : 19/07/2019
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	02/05/2013
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	27/05/2013
	:	MP review under 17(1) MCR 2016	21/12/2017
	:	MP modif under 17(3) MCR 2016	25/11/2020

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	No Proposal	NIL	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	NIL	NIL
1e	Balance reserve as on 01/04/20	Reserves/Reso urces as on 1/4/2019: Reeserves : 0.43 million tonnes (0.31million tonnes (111) and 0.12 million tonnes (122)) Remaining Resources: 18.1 million tonnes	NIL	NIL

1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	Copper mineralisation is in the form of disseminations in the granular quartz quartzite schist to give fairly unoiform low grade wide ore zones persistence along strike and dip. Within this wide zones stringers and veins are found within biotite chlorite schist. Thin massive sulphide zones are confined into bracecciated quartz veins. The ore bodies in the area are primarily copper lodes with dominate chalcopyrite, pyrite and subordinate pyrrhotite and a large number of minor and trace minerals.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Horizontal development (drive in ore) - 1950 m Vertical development (raises) - 2485 m	Horizontal development : 1494 m Vertical development: 1588 m	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	U/G Mining only and no proposal for open cast working	U/G Mining only.	NIL
2c	Stripping ratio or ore to OB ratio	U/G Mining only and no proposal for open cast working	U/G mining only	NIL

2d	Quantity of topsoil generation in m3	U/G Mining only and no proposal for soil generation.	U/G Mining only.	NIL
2e	Quantity of overburden generation in m3	U/G Mining only and no proposal for OB generation.	U/G Mining only.	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NIL	NIL	NIL

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	U/G Mining only and no proposal for open cast working	U/G Mining and production is being through development of drivages.	NIL
3b	Quantity of ROM mineral production proposed	66199 tonnes	41772 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	Entire rom will be dispatched to concentrater plant situated at Mosabony	Entire rom dispatched to concentrater plant situated at Mosabony	NIL
3d	Quantity of mineral reject generation	No proposal	No generation of rejects	NIL
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	No generation of rejects	NIL
3f	Quantity of sub grade mineral generation.	No proposal	No generation of subgrade mineral	NIL
3g	Grade of sub grade mineral generation	No proposal	No generation of subgrade mineral	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposal	NIL	NIL

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Room and pillar method of U/G mining.	Production from Development of drivages only. Stoping not commenced yet.	NIL
3k	Provision of mining machineries in mineral benches	Room and pillar method of U/G mining.	Production from Development of drivages only. Stoping not commenced yet.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	U/G mining only. There is no proposal for opencast working	Production from Development of drivages only. Stoping not commenced yet.	NIL
3m	Total area covered under excavation/pits	U/G mining only. There is no proposal for opencast working.	U/G mining only.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	U/G mining only. There is no proposal for opencast working	U/G mining only.	NIL
3o	Total area put in use under different heads at the end of year	U/G mining only. There is no proposal for opencast working	U/G mining only.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 83,628 tonnes 2019-20 - 1,11,077 tonnes 2020-21 - 66,199 tonnes	2018-19 - 25,451 tonnes 2019-20 - 43,230 tonnes 2020-21 - 41,772 tonnes	NIL
3q	General remarks of inspecting officers on method of mining etc.	NIL	NIL	NIL

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	U/G mining only and there is no proposal for external dumping	NIL	NIL
4b	Location of topsoil, OB and mineral reject dumps	U/G mining only and there is no proposal for external dumping	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	U/G mining only and there is no proposal for external dumping	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	U/G mining only and there is no proposal for external dumping	NIL	NIL
4e	Number of active and alive dumps.	None	None	NIL
4f	Number of dead dumps.	None	None	NIL
4g	Number of dumps established.	None	None	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	U/G mining only and there is no proposal for external dumping	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	U/G mining only and there is no proposal for external dumping	NIL	NIL
4j	Number of settling ponds	None	None	Nil
4k	Specific comments of inspecting officer on waste dump management	U/G mining only and there is no proposal for external dumping	NIL	NIL

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Hydraulic backfilling of stopes.	Stoping not commenced yet.	NIL
5b	Area under backfilling of mined out area	No such proposal	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	U/G mining and there is no such proposal	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	NIL

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).	NIL	PMCP Report submitted	NIL
6b	Area available for rehabilitation (ha) .	NO such proposal	NIL	NIL
6c	afforestation done (ha).	0.125 ha	NA	NIL
6d	No. of saplings planted during the year	200	200	NIL
6e	Cumulative no .of plants	NA	NA	NIL
6f	Any other method of rehabilitation	NA	NA	NA
6g	Cost incurred on watch and care during the year	NA	NA	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposal	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	200 sapling	200 saplings	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.125 ha	0.125 ha	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation	plantation	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring	Environment monitoring	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	NIL	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	ROM	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	NIL
7c	Different grade of mineral sorted out at mines.	No such proposal	NIL	NIL
7d	Any beneficiation process at mines	None	None	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NIL	NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	U/G mine and there is no such proposal	NIL	NIL

8b	Concurrent use or storage of topsoil	U/G mine and there is no such proposal	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	U/G mine and there is no such proposal	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	U/G mine and there is no such proposal	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	U/G mine and there is no such proposal	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 200 saplings	200 saplings	NA
8g	Survival rate	60%	60%	NIL
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	NIL

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NIL	NIL	All mining operations (except transportataion of ore from mine to concentrator plant) are underground therefore, bare mininum adverse impact of mining is on aesthetic beauty in and around mine area. To mininmise these impact water sprinklings on haul road are being done. Besides, to enhance aesthetc and aforestation are being done.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Required details are filled up in Returns	NIL	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Sh. Sampat Kumar Sanghi Geologist: Sh.J. Prakasam	Mining Engineer and Geologist are in post.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	U/G mine all details are reported as NIL	Details are in order	NIL
9d	Scrutiny of Annual return on afforestation	200 saplings	Details are in order	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject Generation: NIL	Details are in order	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stocks:10516 tonnes Closing Stocks:5011 tonnes	Details appera to be in order	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost:Rs 4837 per tonnes	Details are in order	NIL
9h	Scrutiny of Annual return on fixed assets	Values of fixed assets: RS. 949833923/-	Finacial aspects. No comments	NIL

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 :

(OM PRAKASH GOPAL)

Indian Bureau of Mines