

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

Review and updation of Mining Plan REPORT

Kolkata regional office

Mine file No : CAL/BH/SB/CU-4

Mine code : 14BHR27004

- (i) Name of the Inspecting : **K001**) **B.L. KISKU**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri Amit Degvekar, Sr. Manager (Geo.) & Sri Danveer K
Official with
Designation
- (iv) Date of Inspection : 07/11/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAKHA**
- (b) **Registration NO.** : **IBM/6381/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Underground
- (e) Postal address :
State : JHARKHAND
District : SINGHBHUM (EAST)
Village : ROAM GORA
Taluka : GHATSILA
Post office : RAKHA COPPER PROJECT
Pin Code : 832106
FAX No. :
E-mail : sanjivkumarsingh@hindustan
Phone :
- (f) Police Station : Jadugoda
- (g) First opening date : 29/08/1971
- (h) Weekly day of rest : SUN
2. Address for : TAMRA BHAVAN .ASHUTOSH CHOUDHURY AVENUE .
correspondance KOLKATA ---1
WEST BENGAL.
3. (a) Lease Number : BHR0243
- (b) Lease area : 785.09
- (c) Period of lease : 50
- (d) Date of Expiry : 28/08/2021
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 : SANJIV KUMAR SINGH
 M/s Hindustan Copper
 Limited, Indian Copper
 Complex, Maubhandar,
 Ghatsila. SINGHBHUM (EAST)
 JHARKHAND
 Phone:
 FAX :

Agent : SHYAM SUNDAR SETHI
 M/s Hindustan Copper
 Limited, Indian Copper
 Complex, Maubhandar,
 Ghatsila. SINGHBHUM (EAST)
 JHARKHAND
 Phone:
 FAX :

Geologist

Name : AMIT DEGVEKAR,Full Time
 Qualification : MSc.(Geo)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	05/09/2013
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	06/10/2016
		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	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
1b	Exploration over lease area for geological axis 1 or 2	Nil	785..09 ha.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001
1c	Exploration Agencies and Expenditure in lakh rupees during the year	N.A.	M/s M.E.C.L. Total expenditure - Rs. 26 Cr.	Exploration covered entire lease area.
1d	Balance area to be explored to bring Geological axis in 1 or 2	N.A.	Exploration covered entire lease area.	Exploration covered entire lease area.
1e	Balance reserve as on 01/04/20	N.A.	As on date of inspection: - 111 - 3364683.00 MT - Rakha Main Block, 211 - 3054986.00 MT - Rakha Main Block (Blocked in Pillars & others), 331 - 45470559.00 MT - Rakha Mines/Rakha NW/Chapri & Tamapahar Block,	Exploration carried out in entire lease area.
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	N.A.	Exploration carried out in entire lease area.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	N.A.	N.A.	Nil

2c	Stripping ratio or ore to OB ratio	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
2d	Quantity of topsoil generation in m3	N.A.	N.A.	The mine operation is underground, hence top soil generation does not arise.
2e	Quantity of overburden generation in m3	N.A.	N.A.	The mine operation is underground, hence O.B. generation does not arise.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	N.A.	N.A.	Mine is closed since 07.07.2001.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3b	Quantity of ROM mineral production proposed	N.A.	N.A.	Nil
3c	Recovery of sailable/usable mineral from ROM production	N.A.	N.A.	Nil
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
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.	Method of mining adopted is Room & Pillar with mechanised means. Drawal through chutes in comblnation with mine tubs from face to pit bottom.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3j	Provision of drilling and blasting in mineral benches	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3k	Provision of mining machineries in mineral benches	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	N.A.	N.A.	Mine working is underground. Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3m	Total area covered under excavation/pits	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3n	Ore to OB ratio for the pit/mine during the year.	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3o	Total area put in use under different heads at the end of year	N.A.	N.A.	Mine working is underground. Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3p	Production of ROM mineral during the last five year period as applicable	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.
3q	General remarks of inspecting officers on method of mining etc.	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.

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.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001
4b	Location of topsoil, OB and mineral reject dumps	N.A.	N.A.	Nil
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.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.

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.	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001
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.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	N.A.	N.A.	Operation of Rakha mine was discontinued w.e.f. 07.07.2001
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

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	N.A.	N.A.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	N.A.	N.A.	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
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A.	N.A.	This is underground mine. Mining operation is discontinued w.e.f. 07.07.2001.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	N.A.	N.A.	Mine is underground and mining operation is discontinued w.e.f. 07.07.2001.
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.	Mine is underground and mining operation is discontinued w.e.f. 07.07.2001.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	N.A.	N.A.	Mine is underground and mining operation is discontinued w.e.f. 07.07.2001.

8b	Concurrent use or storage of topsoil	N.A.	N.A.	Nil
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
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.	Mine is underground and mining operation is discontinued w.e.f. 07.07.2001.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	N.A.	N.A.	Mining operation is discontinued w.e.f. 07.07.2001.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	N.A.	N.A.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	N.A.	N.A.	Nil
9d	Scrutiny of Annual return on afforestation	N.A.	N.A.	Nil
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	N.A.	N.A.	Nil
9h	Scrutiny of Annual return on fixed assets	N.A.	N.A.	Nil
9k	Scrutiny of Annual return on mining machineries	N.A.	N.A.	Mining operation is discontinued w.e.f. 07.07.2001.

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

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(B.L. KISKU)

Indian Bureau of Mines