

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR Inspection REPORT
Jabalpur Regional office

Mine code:14MPR018001

(i)	Name of Inspecting officer	:	Madhavrao Sabre
(ii)	Designation	:	Senior Mining Geologist
(iii)	Accompanying mine official with Designation	:	Shri V.N Mishra (AGM – Exploration), Shri Babu (AGM-Mines) Shri Sunish Raj Manager (Geo)
(iv)	Date of Inspection	:	24.09.2024
(v)	Previous Inspection date	:	12.03.2024

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	:	MALANJKHAND COPPER MINE
	(b)	Registration Number	:	14MPR01001
	(c)	Category	:	Fully Mechanized
	(d)	Type of Working	:	Opencast and Underground Development
	(e)	Postal address	:	
		State	:	MADHAYA PRADESH
		District	:	BALAGHAT
		Village	:	Pindakapar, Khursipar, Bhimjori, Jagtatola, Karamsara, Kosatola
		Taluka	:	BIRSA
		Post Office	:	MALANJKHAND
		Pin code	:	481116
		Fax	:	07637-257032
		email	:	hcl_mcp@hindustancopper.com
		Phone No	:	07637-257032
(f)	Police Station	:	MALANJKHAND	
(g)	First Opening date	:	01.11.1982	
(h)	Weekly day of rest	:	Mines runs seven days in a week	
2	Address for Correspondence		:	MALANJKHAND COPPER MINE P.O - MALANJKHAND , DISTT - BALAGHAT
3	(a)	Lease Area	:	479.9 Ha
	(b)	Period of lease	:	70
	(c)	Date of Expiry	:	27.08.2043
4	Mineral Worked (Main)		:	Copper
5	Name of address of the Lessee with Phone, email and fax number		:	Lessee with Phone,
	Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment		:	Shir Sanjeev Kumar Singh 09 June 2022 Tamra Bhavan 1, Ashutosh Chowdhury Avenue, Kolkata - 700019 3322832623 hcl_ho@hindustancopper.com

	Name of address of the Agent with Phone, email, fax number and Date of appointment	:	Shri Nagesh Shenoy 03-04-2023 Malanjkhanda Copper Mine P.O - Malanjkhanda , Distt - Balaghat, Madhya Pradesh 481116 07637-257042 hcl_mcp@hindustancopper.com 8762137782
	Name of address of the Manager with Phone, email, fax number and Date of appointment	:	Ravindra Ghattuwar 15-04-2023 Malanjkhanda Copper Mine P.O - Malanjkhanda , Distt - Balaghat, Madhya Pradesh 481116 07637-257042 hcl_mcp@hindustancopper.com 9009616627
	Mining Engineer Name Qualification Date of Appointment	:	Shri KVD Babu BE Mining 20 year 01.06.2024
	Geologist Name Qualification, Date of Appointment	:	Shri V N Mishra M Sc (Geology) 23 year
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	No. E 12438 MCDR-MPC0Cu/2/2024-JBP-IBM_RO_JBP dated 23/11/2025

PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration: (2023-24)

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for Geological axis 1 or 2	NA	NA	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	SWPE (UG orae Body deliniation)	68131840.26	
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	NA	NA	
1e	Balance reserves as on 01.04.2023	Category	Tonnage (MT)	Grade
1	Balanace reserve as on 01.04.2024	111	101.406	1.33
		121	0	
		122	12.58	1.18
2	Balanace resource as on 01.04.2024	211	54.877	1.24
		221	21.552	0.91
		221	99.882	0.32
		222	8.824	0.31
		331	0	
		332	0	
		333	0	
1f	General remarks of Inspecting officer on geology, exploration etc.	The Rocks of Malanjkhanda area are of Proterozoic age and can be broadly grouped into two divisions, each with distinct characters, separated by an unconformity. The older group consists of basement Granitoids and the younger		

		less metamorphosed sedimentary rocks of Chilpi Ghat series. The geological succession of the area is as follows: Most of the mineralization is confined to sheared quartz reef /veins and to some extent in the adjacent granitoids. The reef is exposed on the hill ridges and is dis-positioned in an arcuate shape over a length of 2.6 km in North-South direction. It dips 60-70 to the East and has an average width of 65 to 70 m. It has been emplaced along the fracture & fissure planes in the granitoids. Subsequently, the reef is sheared and fractured and permitted sulphide rich hydrothermal fluids to precipitate. The younger sedimentary formation is lying unconformable over older rocks. These rocks are exposed on the Southern and western part of the deposit. Basement Complex. Area is well explored, by core drilling.
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Development (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Within Lease	As Per Proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	2.1:1	03:01	
2d	Quantity of topsoil generation in m3	NA	NA	
2e	Quantity of overburden generation in m3	402416	308892	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is done as per proposal.		

3. Exploitation FY (2023-24)

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	NA
3b	Quantity of ROM mineral production proposed	2475295	2545820	For excess production violation issued.
3c	Recovery of Salable/usable minerals from ROM production	2475295	2545820	
3d	Quantity of mineral reject generation	133754	133754	
3e	Grade of mineral reject generation and threshold value declared	0.30 - 0.45	0.30 - 0.45	
3f	Quantity of sub-grade mineral generation	133754	133754	
3g	Grade of sub-grade mineral generation	0.30 - 0.45	0.30 - 0.45	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or	YES	YES	

	beneficiation study proposed & carried out for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	YES	YES	
3k	Provision of mining machineries in mineral benches	YES	YES	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	
3m	Total area covered under excavation /pits (Ha.)	138.13 Ha	138.13 Ha	
3n	Ore to OB ratio for the pit/mine during the year	2.1:1	03:01	
3o	Total area put in use under different heads at the end of year	353.48	344.273	
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	27.00	25.44
		2020-21	28.80	22.39
		2021-22	29.10	24.42
		2022-23	22.52	21.65
		2023-24	24.75	25.45
3q	General remarks of inspecting officer on method of mining etc.	Production was done excess to proposal for which Show cause issued.		

4. Solid Waste Management-Dumping (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	YES	YES	No Topsoil is proposed in MP
4b	Location of topsoil, OB & mineral reject dumps	Within Lease	Within Lease	
4c	Number of Dumps within lease area and outside lease area	3	3	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within Lease	Within Lease	
4e	Number of Active & Alive dumps	1	1	
4f	Number of dead dumps	2	2	
4g	Number of dumps established	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	YES	YES	
4i	Length of Retaining wall or garland drain all along dump	12 KM	12 KM	

4j	Number of settling ponds	8	8	
4k	Specific comments of inspecting officer on waste dump management	Retaining wall and Garland drain constructed.		

5. Solid Waste Management-Backfilling (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed & rehabilitated (Ha)	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	This is an Underground Mine, Voids will be back filled by Paste filling method.		

6. Progressive Mine Closure Plan (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
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	YES	YES	
6b	Area available for rehabilitation (Ha)	NA	NA	
6c	Afforestation done (ha)	0.075 Ha	0.075 Ha	
6d	No. of saplings planted during the year	1500	1500	
6e	Cumulative no. of plants	1408212	1408212	
6f	Any other specific method of rehabilitation	NA	NA	
6g	Cost incurred on watch & care during the year	1.51 Cr.	1.51 Cr.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	NA	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling	NA	NA	

	(v) Any other specific means			
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	0.075 Ha	0.075 Ha	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	NA	NA	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of Environment monitoring (core zone & buffer zone)	YES	YES	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	During the Reporting year 1500 saplings planted on benches and dumps.		

7. Mineral Conservation (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM	ROM dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sort out at mine	Copper ore	Copper ore with Cu 0.45 % and above.	
7d	Any beneficiation process at mines	YES	Processing Plant is there around the lease.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM is dispatched to Processing Plant, where after crushing of ROM concentrate of Copper ore are prepared.		

8. Environment (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	YES	YES	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	YES	YES	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	500 (within lease) 1000(outside lease)	500 (within lease) 1000(outside lease)	
8g	Survival rate	100%	100%	
8h	Water sprinkling on roads to control airborne dust	YES	YES	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	1500 saplings planted during the year.		

9. Compliance of Rule 45 (2023-24)

S.N.	Item	Comments	Remarks
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9a	Status of submission of monthly and Annual returns	Complied	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	"Name of Mining Engineer- Mr. KVD Babu, AGM (Mines) Name of Geologist- Mr. V. N. Mishra, AGM (Expl). Name of Manager- Ravindra Ghattuwar, DGM (Mines) Mines manager"	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	"Mining area-138.13 Waste Dump site- 159.58 Mineral storage- 3.28 Infra, admin buld- 16.66 Road- 16.32 Mineral separation- 1.16 Other- 10.14 Undisturbed area- 134.63"	
9d	Scrutiny of Annual return on afforestation	500 trees planted in the east lease boundary and 1000 outside the lease and casualty replacement during 2023-2024.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	133754 T of 0.33% Cu Mineral rejects generated during 2023-2024.	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	25.45 LT X 0.82% Cu ROM handled in which 21.80 LT X 0.85% Cu from UG and 2.95 LT X 0.54 Cu from OC are produced.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Rs/- 2605.29 per unit	
9i	Scrutiny of Annual return on Fixed assets	"Rs/- 14463273372 is value of Fixed assets. "	
9k	Scrutiny of Annual return on mining Machineries	Yes Furnished.	

Violation observed			Show cause Position		
Rule no.	Issued on	Compliance on	Rule no.	Issued on	Compliance on
11(1), of MCDR 2017			11(1)	01.05.2025	-