

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JHN-4/CU- 2

Mine code : 14RAJ17003

- (i) Name of the Inspecting : 26) Nishant kumar rao
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh Arunava Bhandari, AGM Mines , Sh Gopal Rathi Geologi
Official with
Designation
- (iv) Date of Inspection : 06-NOV-24
- (v) Prev.inspection date : 08-JUL-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : KOLIHAN
- (b) **Registration NO.** : IBM/6381/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Underground
- (e) **Postal address**
- State : RAJASTHAN
- District : JHUNJHUNU
- Village : KOLIHAN NAGAR/KHETRI
- Taluka : KHETRI
- Post office : KHETRI
- Pin Code :
- FAX No. : 01593- 20002
- E-mail : hclkcc@jpl.dot.net.in
- Phone : 01593- 20001
- (f) **Police Station** : Khetrinagar
- (g) **First opening date** : 24-NOV-66
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : HINDUSTAN COPPER LIMITED,
KOLIHAN NAGAR, PO KHETRI
3. (a) **Lease Number** : RAJ0451
- (b) **Lease area** : 163.23
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 23-NOV-16
4. **Mineral worked** : COPPER ORE Main

5. Name and Address of the

Lessee : HINDUSTAN COPPER LIMITED
 KHETRI COPPER COMPLEX
 KHETRI NAGAR JHUNJHUNU
 RAJASTHAN
 Phone:01593-20065-20006
 FAX :01593-20002

Owner : Shri S.K. Bhattacharya
 1-Ashutosh Chowdhury Avenue
 Kolkata 700019 JHUNJHUNU
 RAJASTHAN
 Phone: 033 22817138
 FAX : 033 22832478

Agent : Shri R.K. Shah
 Khetri Copper Complex M/s
 Hindustan Copper Limited
 Khetri Nagar, Jhunjhunu
 JHUNJHUNU RAJASTHAN
 Phone: 09414082953
 FAX : 01593 220002

Mining Engineer

Name : Mr. U.B. Bhatt, Full Time
 Qualification : BE Mining
 Appointment/ : 13-MAY-13
 Termination date

Geologist

Name : Dr. Gopal Rathi, Full Time
 Qualification : M.Sc. & Ph.D.(Geology)
 Appointment/ : 19-JUN-15
 Termination date

Manager

Name : Mr. S.D. Sharma
 Qualification : B.E. Mining
 Appointment/ : 01-JUN-13
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	06-JUN-95
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	29-NOV-02
		Mining Scheme rule 12 MCDR1988	15-JUN-07
		Modif.approved Mining Scheme	04-JAN-12
		Mining Scheme rule 12 MCDR1988	25-JUL-13
		Renewal under rule 24 MCR1960	01-APR-14
		MP modif under 17(3) MCR 2016	22-MAY-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	124 ML & 64 ML Total 1535 mts Bore Hole No19 BH	124ML & 64 ML Total- 1158 mts Bore Hole No- 15 BH	Deviation has been pointed out to lessee
1b	Exploration over lease area for geological axis 1 or 2	124 ML& 64 ML Total 3230 mts Bore Hole No20 BH	124 ML& 64 ML Total 3230 mts Bore Hole No20 BH	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	AgencyM/s EFMCP & MECL 311.02 Lakhs Excluding Taxes	Agency- M/s Asha Engg. Works, M/s EFMCP & MECL 374.28 Lakhs	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	36.05 Ha	27.14 ha	Deviation has been pointed out to lessee
1e	Balance reserve as on 01/04/20	During MP Period (Apr2020 to Mar2025) Reserve- 9.50 million T X1.31% Resource4.53million T X1.42% Total - 14.03million T x 1.34%	As on 01/04/2024 Reserve- 11.09 million T X1.31% Resource- 4.38 million T X 0.95% Total - 15.47million T x 1.21%	The reserve & resources are updated considering mine depletion and addition of reserve & resources due to re-interpretation of ore lenses after recent exploratory drilling.
1f	General remarks of inspecting officers on geology, exploration etc			For less exploration deviation have been pointed out to lesee

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	306 mRL- 0 m 246 mRL- 240 m 124 mRL- 1866 m 64 mRL- 744 m 0 mRL- 390 m Total- 3240 m	306 mRL-0 m 246 mRL- 38.0 m 124 mRL- 199.30 m 64 mRL- 236.70 m 0 mRL- 0 m Total- 504.20 m	Deviation has been pointed out to lessee
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	UG operation
2c	Stripping ratio or ore to OB ratio	NA	NA	UG operation
2d	Quantity of topsoil generation in m3	NA	NA	Nil
2e	Quantity of overburden generation in m3	35735 cub mtr	9830 cub mtr	Deviation have been pointed out to lessee
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Deviation for location and waste generation is being pointed out to lessee

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	124 ML1.RP6089 S+Cr 609 S 2. RP 609-10N + Cr 610N + SL 509 (1/2) 3. St 611 N 4. St 612 N 5. RP 611-12 N + Cr 612N 6. RP 6011+ Cr 601 S+ SL 5011 7. RP 6012 S + Cr 602 S+ SL 5012 S 8. RP 6023 S + Cr 603 S+ SL 5012 S 9. St 613 N 64ML1. St 701 N 2. St 702 N	124 ML1.RP6089 S+Cr 609S 2. RP 609-10N + Cr 610N + SL 509 (1/2) 3. St 601 S 4. St 602 S 5. St 612 N 6. Cr 611 N 7. RP 6011 + Cr 601 8. RP 6012 S + Cr 602 S+ SL 5012 S 9. RP 6023 S + Cr 603 S+ SL 5012 S 64ML1. St 701 N 2. St 702 N	Deviation is pointed out to lesee

3b	Quantity of ROM mineral production proposed	720000 Tones	489916 Tones	Deviation is pointed out to lesee
3c	Recovery of sailable/usable mineral from ROM production	100% ROM	96.96% ROM, Remaining 3.04% of sub-grade mineral generation and blended with ROM production	
3d	Quantity of mineral reject generation	NA	NA	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil, blended with ROM production	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	mechanisation ,crushing	mechanisation ,crushing	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA, ROM being sent to Khetri mill	Nil
3j	Provision of drilling and blasting in mineral benches	Underground Mining Blast hole open stoping	Underground Mining Blast hole open stoping	nil
3k	Provision of mining machineries in mineral benches	Large Dia Drilling- 115 mm dia& 165 mm diaStope & Rib Pillar Drilling. Long Hole 57 mmCrown Pillar, Sill Pillar &Trough Drilling	Large Dia Drilling- 115 mm dia& 165 mm diaStope & Rib Pillar Drilling. Long Hole 57 mmCrown Pillar, Sill Pillar &Trough Drilling	nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	
3m	Total area covered under excavation/pits	1.15 ha	0.95 ha	
3n	Ore to OB ratio for the pit/mine during the year.	na	na	
3o	Total area put in use under different heads at the end of year	21.76 Ha	21.76 Ha	nil
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 650000 2020-21: 720000 2021-22: 720000 2022-23: 720000 2023-24: 720000	2019-20: 439518 2020-21: 453528 2021-22: 413466 2022-23: 400134 2023-24: 489916	deviation have been pointed out to lessee
3q	General remarks of inspecting officers on method of mining etc.			For less production deviation pointed out to lessee

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	na	nil
4b	Location of topsoil, OB and mineral reject dumps	na	na	nil
4c	Number of dumps within lease area and outside of lease area	03 no	03 no.	nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	na	na	nil
4e	Number of active and alive dumps.	03	03	nil
4f	Number of dead dumps.	na	na	nil
4g	Number of dumps established.	na	na	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	na	already exist 202 mtr of retail wall & 30.5 mtr garland drain constructed	nil
4i	Length of Retaining wall or garland drain all along dumps	na	already exist 202 mtr of retail wall & 30.5 mtr garland drain constructed	nil
4j	Number of settling ponds	na	na	nil
4k	Specific comments of inspecting officer on waste dump management			Nil

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Nil	nil	
5b	Area under backfilling of mined out area	Stope ST-1 N1630 m3 ST-2N- 12823 m3	Stope 510 N8740 m3	deviation have been pointed out to lessee
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	Nil
5d	Total area fully reclaimed and rehabilitated	no proposal	na	nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Deviation for backfilling pointed out to lessee
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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).	Annual report submitted	PMCP kmz file is very old of year 2022	Deviation pointed out to lessee
6b	Area available for rehabilitation (ha) .	na	NA	nil
6c	afforestation done (ha).	na	na	nil
6d	No. of saplings planted during the year	150 no.in lease and 200 no. outside the lease	150 no.in lease and 200 no. outside the lease	nil
6e	Cumulative no .of plants		13255 no. inside the lease and 13245 out side the lease	nil
6f	Any other method of rehabilitation	na	na	nil
6g	Cost incurred on watch and care during the year	rs 500000	rs 4625000	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Stope ST-1 N1630 m3 ST-2N- 12823 m	Stope 510 N- 8740 cub mtr	deviation pointed out to lessee
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Stope ST-1 N1630 m3 ST-2N- 12823 m3	Stope 510 N- 8740 m	deviation point out to leseee

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on 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 (v)any other specific means.	na	na	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	150 no. inside lease	150 no. inside lease	nil
		,200 no. outside lease	,200 no. outside lease	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	na	na	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	na	na	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	yes	nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP kmz file are too old ,for the same deviation pointed out to lessee

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	na	na	nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	na	na	nil
7c	Different grade of mineral sorted out at mines.	na	na	nil
7d	Any beneficiation process at mines .	na	na	Ore is being treated at Khetri mill
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Ore is being treated at Khetri mill

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	na	na,ug working	nil
8b	Concurrent use or storage of topsoil	na	na	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	dump no. 1	dump no. 1	nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	na	na	nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	na	na	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	150 nos. Inside Lease area 200 nos. Outside	150 nos. Inside Lease area 200 nos. Outside	nil
8g	Survival rate	-	40 % survival rate	nil
8h	Water sprinkling on roads to control airborne dust	at surface sprinkler gun available	at surface sprinkler gun available	nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		water sprinkling being done at stock pile area and ore transfer points	

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted on /before 9 th of every month and annual return was submitted on 25/06/24	submitted on time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - 01 Geologist - 01 Manager - 01	Appointment of mining engineer, geologist, manager is in place	nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	10.99 ha	10.99 ha	nil

9d	Scrutiny of Annual return on afforestation	150 no. in lease 200 outside the lease	150 no. in lease 200 outside the lease	nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	na	na	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock 2607 MT X 0.98% as on 31-Mar-2024	ok	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price 2682.83/unit in 2023-24	ok	nil
9h	Scrutiny of Annual return on fixed assets	Fixed Assets rs 3460832 in 2023-24	Fixed Assets rs 3460832 in 2023-24	nil
9k	Scrutiny of Annual return on mining machineries	No of Machineries: - Crusher- 01, Pumps- 9, Dozer 1, Explosive Van 1, Jeep- 01, Truck- 01 & other electrical- 40 Rocker Shovel Loader- 1, LHD- 5, Dumper- 5, Winding Engine 3, Ventilation fan 15, Conveyor- 7,	ok	nil

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 :

(Nishant kumar rao)

Indian Bureau of Mines