

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JHN-11/CU-3

Mine code : 14RAJ17001

- (i) Name of the Inspecting : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Dr. Gopal Rathi, Geologist
Official with
Designation
- (iv) Date of Inspection : 07/10/2022
- (v) Prev.inspection date : 07/12/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHANDMARI**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Underground
- (e) Postal address
- State : RAJASTHAN
- District : JHUNJHUNU
- Village : KHETRI
- Taluka : KHETRI
- Post office : KHETRI
- Pin Code : 333503
- FAX No. : 01593-20002
- E-mail : hclkcc@jpl.dot.net.in
- Phone : 01593-34433
- (f) Police Station : Khetri
- (g) First opening date : 27/10/1972
- (h) Weekly day of rest : SUN
2. Address for : Chandmari Copper Mine M/s Hindustan Copper Limit
correspondance : Khetri Copper Complex, Khetri Nagar-333504
District: hunjhunun (Raj.)
3. (a) Lease Number : RAJ0448
- (b) Lease area : 148.45
- (c) Period of lease : 50
- (d) Date of Expiry : 26/12/2022
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 : S. DEY
 M/S Hindustan Copper Ltd;
 Khetrinagar, Jhunjhunu,
 Rajasthan JHUNJHUNU
 RAJASTHAN
 Phone: 01593-220001
 FAX : 01593-220002

Mining Engineer

Name : Shri Narendra Singh Jangde, Full Time
 Qualification : BE Mining
 Appointment/ : 30/08/2019
 Termination date

Geologist

Name : Dr. Gopal Rathi, Full Time
 Qualification : M.Sc & Ph.D(Geology)
 Appointment/ : 09/06/2015
 Termination date

Manager

Name : Shri Narendra Singh Jangde
 Qualification : BE Mining
 Appointment/ : 30/08/2019
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	19/06/2012
Plan/Scheme of Mining		MP review under 17(1) MCR 2016	06/07/2017
		MP modif under 17(3) MCR 2016	22/01/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Proposal for 2020-21:0m No. of BH- NIL Proposal for 2021-22:0m No. of BH- NIL Proposal for 2022-23: 420m No. of BH- 6	No Bore Hole executed during the period of 2022-23 as statutory compliances are under process.	
1b	Exploration over lease area for geological axis 1 or 2	Exploration Programme for Geological axis G1 during F.Y. 2021-22: NIL	Exploration Programme for Geological axis G1 during F.Y. 2021-22: NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	Nil	
1e	Balance reserve as on 01/04/20	G1=2.20(mT) x 0.95%Cu G2=11.06(mT) x 1.00%Cu	Geological Reserve estimated between level 246mRL to 0mRL as given below : G1=2.20(mT) x 0.95%Cu G2=11.06(mT) x 1.00%Cu	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The status of exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed for 2021-22 - Nil	Statutory Clearances under process. Actual Work during 2021-22 - Nil	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA
2c	Stripping ratio or ore to OB ratio	NA	Nil
2d	Quantity of topsoil generation in m3	NA	Nil
2e	Quantity of overburden generation in m3	NA	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	There is only one pit on the surface, which was water logged during the inspection. The U/g execution is under process.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Total no. of Proposed Stopes Nil In the F.Y. 2021-22	Total no. of Proposed Stopes Nil In the F.Y. 2021-22	
3b	Quantity of ROM mineral production proposed	Not Applicable	Nil production reported.	
3c	Recovery of sailable/usable mineral from ROM production	NA	Nil, during the year 2021-22.	
3d	Quantity of mineral reject generation	NA	Nil during the year 2021-22.	
3e	Grade of mineral rejects generation and threshold value declared.	NA	Nil during the year 2021-22.	
3f	Quantity of sub grade mineral generation.	NA	Not applicable as no sub gade generation during the year 2021-22.	
3g	Grade of sub grade mineral generation	NA	Not applicable as no sub grade generation during the year.	

3h	Manual / Mechanised method adopted for segregating from ROM	NA	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	Nil
3j	Provision of drilling and blasting in mineral benches	NA	No mining activity observed in the mine.
3k	Provision of mining machineries in mineral benches	NA	No mining activity observed in the mine.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	Not applicable as it is proposed to win the deposit by u/g method of mining.
3m	Total area covered under excavation/pits	9.02 Hect.	Total 9.02Hect. area is put to use in opencast pit which is water logged.
3n	Ore to OB ratio for the pit/mine during the year.	NA	Not applicable as the statutory clearances are under process to run the mine.
3o	Total area put in use under different heads at the end of year	27.51 Hect.	Area Under Mining - 9.02Hect, Waste dump site - 17.64Hect, Roads - 0.85Hect. respectively as reported.
3p	Production of ROM mineral during the last five year period as applicable	NA	Nil production as statutory clearances are under process to run the mine.
3q	General remarks of inspecting officers on method of mining etc.	NA	The proposed method of mining is under ground which may be considered as satisfactory.

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)	No top soil generation is proposed for the F.Y. 2021-22.	Not applicable.
4b	Location of topsoil, OB and mineral reject dumps	No top soil generation is proposed.	Not applicable as no top soil, OB, mineral reject generated during the previous year.
4c	Number of dumps within lease area and outside of lease area	2 Nos.	Total 02 Numbers of Waste Dumps no. 1 & 2 on surface within Mining leases area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	The dumps are beyond the ultimate pit limit as the proposed method of mining is U/g.
4e	Number of active and alive dumps.	One	Total 01 Numbers of Waste Dumps no. 2 on surface is active dumps.
4f	Number of dead dumps.	One	Total 01 Numbers of Waste Dumps no. 1 on surface is inactive dumps.
4g	Number of dumps established.	NA	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	Nil, Construction of Retaining wall & Garland Drain will be done during execution of the mine for production.
4i	Length of Retaining wall or garland drain all along dumps	NA	Construction of Retaining wall & Garland Drain will be done during execution of the mine for production.
4j	Number of settling ponds	NA	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	As the mine is not working since long and the proposed method of mining is u/g therefore the current status of waste dump management may be considered as satisfactory. However, during the inspection it was observed that some bio-waste is overlaying in some part of area therefore it was advised to take suitable measures to stop such practice.

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.	NA	Not applicable as the extraction is yet to commence.	
5b	Area under backfilling of mined out area	NA	No Backfilling done in mined out area during the period 2021-22 as no mining operation	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	No concurrent use applicable related with top soil for restoration or rehabilitation of mineral out area during the period 2021-22 as there was no mining operation in previous year.	
5d	Total area fully reclaimed and rehabilitated	NA	The lease area is not matured for reclamation or rehabilitation.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	No scope of backfilling or reclamation observed as the area is not matured for the same.	

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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	NA	Nil, no area available for rechabilitation.	
6c	afforestation done (ha).	2021-22: 0.4 Ha	During the year 2021-22 the plantation has been done in 0.3 hectare area.	
6d	No. of saplings planted during the year	2021-22: 200 Nos.	During the year 2021-22 total 150 saplings were planted.	
6e	Cumulative no .of plants	NA	350 as reported.	

6f	Any other method of rehabilitation	NA	Nil
6g	Cost incurred on watch and care during the year	1.5 lakh was expected.	Rs. 1.5L + incurred on watch and care during the year.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Not applicable at this stage.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Not applicable at this stage.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	NA	Not applicable at this stage.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	The water logged pit at surface is well fenced and working as water reservoir.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	Not applicable at this stage.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	Not applicable at this stage.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	Not applicable at this stage.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Not applicable at this stage.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes, various environmental parameters are being monitored and well within limits as reported.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	At present the mine is not working. Previously it was a opencast mine. Now lessee wants to work by adopting U/g method. The process of opening is under progress. Therefore the PMCP compliance may be considered as satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	No such operation observed during the inspection as it is a non working mine.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	No such operation observed during the inspection as it is a non working mine.	
7c	Different grade of mineral sorted out at mines.	NA	No such operation observed during the inspection as it is a non working mine.	
7d	Any beneficiation process at mines .	NA	No such operation observed during the inspection as it is a non working mine.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	As it is a non working mine where leseee intends to win the deposit by opting U/g method, therefore no such issue observed during the inspection.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	Not applicable as it is a non-working mine.	
8b	Concurrent use or storage of topsoil	NA	No such operation observed during the inspection as it is a non working mine.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	02 No.	02 No. of dumps of previous working observed in the lease area.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	No such activity observed as it is a non working mine which is under process of re-opening.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	No such activity observed as it is a non working mine which is under process of re-opening.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	350 Nos.	Total 150 (aprox) saplings observed in the lease area.	
8g	Survival rate	The survival rate is very poor.	THE survival rate is very poor due to scarcity of water for the purpose.	
8h	Water sprinkling on roads to control airborne dust	NA	No such activity observed in the lease area as it is a non working mine.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	It is a non working mine where the lessee is trying to re-open it. During the inspection anthropogenic waste lying here and there was observed. At the time , the accompanying mine official was advised to take necessary action to stop / prevent such anthropogenic waste dumping for the sake of health and hygiene in the lease area.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	The annual return for the year 2021-22 submitted on 21.07.2022	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Sh. Shashikant Bharti, Sh. Shashikant Bharti and Geologist in charge Dr. Gopal Rathi	Manager Sh. Shashikant Bharti, Sh. Shashikant Bharti and Geologist in charge Dr. Gopal Rathi	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining : 9.20 ha, Used for waste disposal : 17.64 ha, Other Purpose (Rail road) : 0.850 ha.	The above mentioned information seems to be correct.	
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year within ML : Nil, Outside ML : 150 Nos. with 50% survival rate.	Aprox. 150 saplings have been planted. The survival rate is poor due to scaricity of water.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Non working during the year 2021-22.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Non working during the year 2021-22.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	No such information furnished in the annual return for the year 2021-22. The mine is non working.
9h	Scrutiny of Annual return on fixed assets	Nil	No information regarding fixed assets have been furnished in the annual return for the year 2021-22.
9k	Scrutiny of Annual return on mining machineries	Nil	Nil, as it is a non working mines at present.

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 :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines