

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

**MCDR inspection REPORT**

**Ranchi regional office**

**Mine file No :** JHK/LOH/BX/248/RRO

**Mine code :** 07JHK12009

- (i) Name of the Inspecting : S011 ) SALIL SANDIP KUJUR  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Tapas Gachchayat, Geo  
Official with  
Designation
- (iv) Date of Inspection : 16/09/2022
- (v) Prev.inspection date : 16/08/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : HISRI EXTENSION (19.58 H)
- (b) **Registration NO.** : IBM/935/2011
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : JHARKHAND
- District : LOHARDAGA
- Village : HISRI
- Taluka : LOHARDAGA
- Post office :
- Pin Code :
- FAX No. : 033-22883964
- E-mail : N.A.
- Phone : 06526-295526/27, 294611,
- (f) **Police Station** : KISKO
- (g) **First opening date** : 10/10/1951
- (h) **Weekly day of rest** : FRI
2. **Address for correspondance** : VILL.- HISRI,  
P.O.- BAGRU HILL,  
DISTT.- LOHARDAGA (JHK)
3. (a) **Lease Number** : BHR0266
- (b) **Lease area** : 19.58
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 31/03/2030
4. **Mineral worked** : BAUXITE Main

## 5. Name and Address of the

Lessee : M/S HINDALCO INDUSTRIES LTD.  
 AT - COURT ROAD,  
 LOHARDAGA, LOHARDAGA  
 JHARKHAND  
 Phone:06526-22401112, 224446 & 224016.  
 FAX :06526-224112 & 224445

Owner : A.K AGRAWAL  
 M/S HINDALCO INDUSTRIES  
 LTD. CENTURY BHAWAN, 3rd  
 FLOOR, Dr. ANNIE BASANT  
 ROAD, WORLY, MUMBAI (MH)  
 KOLKATA WEST BENGAL  
 Phone:  
 FAX :

Agent : Prateek Kumar  
 Hindalco Ind. Ltd. Court  
 Road Lohardaga LOHARDAGA  
 JHARKHAND  
 Phone: 7738368627  
 FAX :

## Mining Engineer

Name : TARINI GAUTAM, Full Time  
 Qualification : B. Tech. (Mining)  
 Appointment/ : 08/05/2021  
 Termination date

## Geologist

Name : BASUDEV GANGOPADHYAY, Full Time  
 Qualification : M.TECH (APPLIED GEOLOGY), I.S.M. DHANBAD  
 Appointment/ : 01/11/2017  
 Termination date

## Manager

Name : AJAY KUMAR PANDEY  
 Qualification : B.E. (MINING), ISM, DHANBAD  
 Appointment/ : 28/08/2014  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	13/01/1994
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	18/12/1995
		Renewal under rule 24 MCR1960	20/05/2006
		Mining Scheme rule 12 MCDR1988	06/10/2010
		Modif.of approved Mining Plan	06/10/2010
		FMCP under 23C(1)	05/08/2014
		MP modif under MCR 1960	23/12/2015
		MP review under 17(1) MCR 2016	19/03/2020

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL, TOTAL AREA IS EXPLORED
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	NIL, TOTAL AREA IS EXPLORED
1e	Balance reserve as on 01/04/20	717463 IN 111 CATEGORY	717463 IN 111 CATEGORY	TOTLA BALANCE RESERVE
1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	TOTAL AREA IN EXPLORED IN G1 CATEGORY.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	QUARRY-1	QUARRY-1	AS PER APPROVED PROPOSAL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SOIL-1 HT=1.9 MTR OB-2 HEIGHT=5.6 MTR ORE-2 HEIGHT=4.9 MTR	SOIL-1 HT=1.5 MTR OB-2 HEIGHT=2.5 MTR ORE-2 HEIGHT=3 MTR	AS PER APPROVED MP THE HEIGHT AND WIDTH ARE MAINTAINED.
2c	Stripping ratio or ore to OB ratio	1:0.59	1:0.57	NIL
2d	Quantity of topsoil generation in m3	14199	17980.98	NIL
2e	Quantity of overburden generation in m3	57942	38586.8	NIL

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NIL	NIL	AS PER PLAN.
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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	AS PER APPROVED MINING PLAN.
3b	Quantity of ROM mineral production proposed	49260.69	49252.73	AS PER APPROVED MINING PLAN.
3c	Recovery of sailable/usable mineral from ROM production	99014	98998	WITHIN LIMIT
3d	Quantity of mineral reject generation	5491	742	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED	MECHANISED SHOWEL=2 DUMPER=2 AIR COMPRESSOR-1 CRUSHER=2	AS PER PLAN
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	YES	DRILLING AND BLASTING IS DONE AS PER PLAN	NIL

3k	Provision of mining machineries in mineral benches	YES	SHOEVEL=2 DUMPERS=2 DRILL=1 WT=1 CRUSHER=2	AS PER PLAN
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	HEIGHT=1.5 MTR IN TS, OB=2.5 MTR BAUXITE=3.5 MTR	WITHIN THE APPROVED PLAN, AS ONE PLACE THE HEIGHT WAS FOUND MORE THEN THE APPROVED PLAN VIOLATION IS ISSUED.
3m	Total area covered under excavation/pits	0.75 HA	0.75HA	AS PER MP
3n	Ore to OB ratio for the pit/mine during the year.	1:0.59	1:0.57	NIL
3o	Total area put in use under different heads at the end of year	7.682	6.278 HA	WITHIN THE APPROVED MP
3p	Production of ROM mineral during the last five year period as applicable	2016-17=99316 2017-18=99904 2018-19=99026 2019-20=99458 2020-21=99014	2016-17=98608 2017-18=9001 2018-19=90674 2019-20=22162 2020-21=98998	ALL PRODUCTION ARE WITHIN LIMIT.
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
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	NA	CONCURRENT BACKFILLING IS DONE
4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	NIL, CONCURRENT BACKFILLING IS DONE
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NA	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	NIL

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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.	ALL ORE IS TO BE REMOVED BEFORE BACKFILLING	DONE AS PER PROPOSAL	0.70 HA IS BACKFILLED
5b	Area under backfilling of mined out area	0.71	0.70HA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	YES	AS PER PROPOSAL CONCURRENT BACKFILLING IS DONE	NIL
5d	Total area fully reclaimed and rehabilitated	4.03HA	4.612 HA	NIL

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	NIL
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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).	YES	SUBMITTED IN TIME	NIL
6b	Area available for rehabilitation (ha) .	0.71	0.70	NIL
6c	afforestation done (ha).	0.71	0.70HA	NIL
6d	No. of saplings planted during the year	1500	1810	NIL
6e	Cumulative no .of plants	-	15171	NIL
6f	Any other method of rehabilitation	NA	NA	NIL
6g	Cost incurred on watch and care during the year	132000	133722	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	CONCURRENT BACKFILLING	AS PER PLAN CONCURRENT BACKFILLING IS DONE	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	81X61X8 M3	81X61X8 M3	AS PER PROPOSAL.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	AREA TO BE REHABILITATED BY PLANTATION	AREA IS REHABILITATED BY PLANTATION	AS PER PLAN
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NO WASTE LAND AVAILABLE	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NO WASTE LAND AVAILABLE	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	NO WASTE LAND AVAILABLE
6p	Compliance of environmental monitoring (core zone and buffer zone)	AIR WATER AND NOISE SURVEY TO BE DONE	AIR WATER AND NOISE SURVEY IS CARRIED OUT ON QUARTERLY BASIS.	ALL REPORTS ARE WITHIN LIMITS
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	NIL

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Mineral Conservation:

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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.	NIL	NIL	NIL
7d	Any beneficiation process at mines .	NA	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NIL	NIL

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Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES	TOP SOIL IS REMOVED SEPRATELY DONE	CONCURRENT BACKFILLING IS DONE .
8b	Concurrent use or storage of topsoil	YES	YES	AS PER PLAN .
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	OB/TOPSOIL ARE USED FOR CONCURRENT BACKFILLING	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	AS PER PLAN THE AREA IS BACKFILLED	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1500	1810	NIL
8g	Survival rate	80%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	WT IS USED FOR WATER SPRINKLING IN HAUL ROAD	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	NIL

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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	SUBMITTED IN TIME	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge Manoj Kr. Nayak, Geologist in charge Basudev Gangopadhyay	MINING ENGINEER TARINI GAUTAM - CHANGED INTIMATION IS GIVEN. GEOLOGIST=Basudev Gangopadhyay	PRESENT AT THE TIME OF INSPECTION.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	7.682 HA	6.278 HA	NIL
9d	Scrutiny of Annual return on afforestation	1810	1810	1810 SAPLING ARE PLANTED

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	5473 MT	AL2O3=26.3 % 14107 MT	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1150.29	1150.29 IS CORRECT	NIL
9h	Scrutiny of Annual return on fixed assets	22088683	22088683	NIL
9k	Scrutiny of Annual return on mining machineries	<p>machinery Capacity of each unit</p> <p>No.of units</p> <p>Electrical/ Non-Electrical (specify)</p> <p>Used in opencast/ underground (specify)</p> <p>SHOVEL (HYDRAULIC) 0.900 CUM 1</p> <p>Non Electrical Opencast SHOVEL (HYDRAULIC) 1.900 CUM 1</p> <p>Non Electrical Opencast DUMPER 25.000 TONNE 1 Non Electrical Opencast AIR COMPRESSOR 365.000 CUM/MN 1 Non Electrical Opencast AIR COMPRESSOR 450.000 CUM/MN 1 Non Electrical Opencast CRUSHER 120.000 T/H 1 Non Electrical Opencast CRUSHER 200.000 T/H 1 Non Electrical Opencast</p>	IT IS USED WITH ANOTHER LEASE BHUSAR	NIL

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**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
MCDR17	Rule 11(1)	22/09/2022			

**Date :**

**(SALIL SANDIP KUJUR)**

Indian Bureau of Mines