

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

Inspection under SDF for star rating of mines REPORT

Ranchi regional office

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

Mine code : 07JHK12009

- (i) Name of the Inspecting : **E025**) **NAMAN EKKA**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 16/02/2021
- (v) Prev.inspection date :

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 : VILL.- HISRI,
correspondance P.O.- BAGRU HILL,
DISTT.- LOHARDAGA (JHK)
3. (a) Lease Number : BHR0266
- (b) Lease area : 14.55
- (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 : B.K.JHA
 M/s HINDALCO INDUSTRIES
 Ltd. COURT ROAD PO& DIST -
 LOHARDAGA (JHK) LOHARDAGA
 JHARKHAND
 Phone: Mob- 941708929, 06526-224112/224015
 FAX : 06526-224118

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	No Proposal	The lease area has been fully explored in G1 axis	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	The lease area has been fully explored in G1 axis	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	The lease area has been fully explored in G1 axis	
1e	Balance reserve as on 01/04/20	No Proposal	Balance reserve as on 01/04/2020 111 - 902495 Tonnes 221 - 316363 Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	-	-	-

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry -6	Quarry -6	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Soil - 1 OB - 1 Ore-1	Soil - 1 OB - 1 Ore-1	
2c	Stripping ratio or ore to OB ratio	1.0.40	1.0.37	
2d	Quantity of topsoil generation in m3	7700.00 m3	6724.00 m3	
2e	Quantity of overburden generation in m3	39852.00 m3	37052.00 m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	-
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	54980 (Cum)	11025 (Cum)	
3c	Recovery of sailable/usable mineral from ROM production	99458 (Tonne)	22162 (Tonne)	
3d	Quantity of mineral reject generation	5498 (Tonne)	110 (Tonne)	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Al2O3-26.5 SiO2- 5.62	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No	
3j	Provision of drilling and blasting in mineral benches	Yes Proposed	Drilling and blasting done in ineral benches	

3k	Provision of mining machineries in mineral benches	Yes	Mining machineries present in mineral benches.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	-	Yes Suitable as per proposal	
3m	Total area covered under excavation/pits	5.49 Ha	5.056 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.38	1:1.03	
3o	Total area put in use under different heads at the end of year	5.32 Ha	4.186 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 99087 2016-17 99316 2017-18 99904 2018-19 99026 2019-20 99458	2015-16 64488 2016-17 98608 2017-18 90001 2018-19 90674 2019-20 22162	
3q	General remarks of inspecting officers on method of mining etc.	-	-	-

Solid Waste Management - Dumping:

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

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	No work done
4e	Number of active and alive dumps.	No Proposal	No work done
4f	Number of dead dumps.	No Proposal	No work done
4g	Number of dumps established.	No Proposal	No work done
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	No work done
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	No work done
4j	Number of settling ponds	No Proposal	No work done
4k	Specific comments of inspecting officer on waste dump management	-	-

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.	Part by Part Extraction and simultaneous back filling	Part by Part Extraction and simultaneous back filling	
5b	Area under backfilling of mined out area	0.71Ha	0.87 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	FOR REHABILITATION	FOR REHABILITATION	
5d	Total area fully reclaimed and rehabilitated	0.71 Ha	1.129 Ha	

5e General remarks - - -
of inspecting
officers on
backfilling and
reclamation etc.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting	
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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
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7c	Different grade of mineral sorted out at mines.	42 to 45 % Al2O3	42 to 45 % Al2O3	
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7d	Any beneficiation process at mines	No Proposal	No work done	
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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	-
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Continuous Spreading over backfilled area	Continuous Spreading over backfilled area	
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8b	Concurrent use or storage of topsoil	Concurrent Use	Concurrent Use	
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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	No work done
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Back Filling	Back Filling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration	Phased restoration
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Yes
8g	Survival rate	80 %	80 %
8h	Water sprinkling on roads to control airborne dust	Regular Sprinkling	Regular Sprinkling
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	-	Submitted On Time	--

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Shri Manoj Nayak Geologist-Shri Basudev Manager- Shri Vidya Sagar Singh	Mining Engineer- Shri Manoj Nayak Geologist-Shri Basudev Manager- Shri Vidya Sagar Singh
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.752 Ha	3.752 Ha
9d	Scrutiny of Annual return on afforestation	3096 (2019-20)	3096 (2019-20)
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	-	A1203-26.5% -
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM/ 22162 A1203-42.80 Sio2- 2.88	ROM/ 22162 A1203-42.80 Sio2- 2.88
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Cost- 1262.85 Production Cost- 1262.85	Ex- Mine Cost- 1262.85 Production Cost- 1262.85
9h	Scrutiny of Annual return on fixed assets	Rs.629132486	Rs.629132486
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) DUMPER AIR COMPRESSOR CRUSHER	SHOVEL (HYDRAULIC) DUMPER AIR COMPRESSOR CRUSHER

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

Date :

(NAMAN EKKA)

Indian Bureau of Mines