INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Ranchi regional office

	Mine :	file No : JHK/LTH/BX/2	250,	/RRO Mine code : 07JHK19001
	(i)	Name of the Inspecting Officer and ID No.	:	GQ04) OM PRAKASH GOPAL
	(ii)	Designation	:	Regional Mining Geologist
	(iii)	Accompaning mine Official with Designation	:	Shri Y K Lilhare Mines Manager
	(iv)	Date of Inspection	:	03/02/2020
	(v)	Prev.inspection date	:	16/11/2018
		PAI	RT-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	ORSA (309.19HC.)
	(b)	Registration NO.	:	IBM/935/2001
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone	:::::::::::::::::::::::::::::::::::::::	A Manual Opencast JHARKHAND LATEHAR ORSA MAHUADANR ORSA 0652-6224118 bijesh.jha@adityabirla.com 0652-6224016
	(f)	Police Station	:	
	(g)	First opening date	:	
	(h)	Weekly day of rest	:	
2.		ess for espondance	:	VILLAGE- ORSA, DISTT LATEHAR JHARKHAND
3.	(a) (b) (c) (d)		:	BHR0230 309.36 50 16/06/2036
4.	Miner	ral worked	:	BAUXITE Main

5. Name and Address of the

6.

Name and Address of			
Lessee	:	HINDALCO	
		AT & PO – COURT ROAD, LOHARDAGA, LOHARDAGA JHARKHAND	
		Phone:06526-24016,24112	
		FAX :06526-24118	
Owner	:	HINDALCO INDUSTRIES LTD.	
		HIDALCO INDUSTRIES LTD. PO/DIST-LOHARDAGA JHARKHAND LOHARDAGA JHARKHAND Phone: (06526)- 224016	
		FAX : (06526)- 224118	
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	
Date of approval of Plan/Scheme of Mini		ing : Existing rule 11 MCDR1988 MP modif under 17(3) MCR 2016	

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	No exploration proposal was envisaged in 2017-18	There is no backlog of previous year as no exploration proposal was envisaged in 2017-18	-
1b	Exploration over lease area for geological axis 1 or 2	As per approved doccument it was proposed to drill 46 boreholes in 2018-19 and 82 boreholes in 2019-20	Exploration could not be taken up as per approved proposal. Mining operations discontinued from 20/4/2018 for want of statutory clearence from NBWL.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	_	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	-
1e	Balance reserve as on 01/04/20	Reserves as on 31/9/2017: 291765 tonnes (111) and 775255 tonnes (122)	-	-

1f General remarks of inspecting officers on geology, exploration etc

The plateau region on either side along the boundary between Chhattishgarh and Jharkhand States has been known to be potential tract of high grade bauxite. Bauxit occur as thin irregular and discontinuous lenses within laterite cappings. The laterite occur as blankets over basalt (deccan trap). It has been established that the laterite / bauxite profile resulted from chemical weathering of underlying basalt parent rocks.

Development :

Gl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry no 2 and 3	For want of statutory clearences the mining operations stopped since 20/4/2018. The mine was not under operation at the time of inspection.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to develop seperate benches in top soil, OB and minerals	Mining operations stopped since 20/4/2018	-
2c	Stripping ratio or ore to OB ratio	1:1.97	NA	-
2d	Quantity of topsoil generation in m3	218060 cum	NA	-
2e	Quantity of overburden generation in m3	26209 cum	3496 tonnes	-

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

It was proposed two develop quarry 2 and 3 but development could not be done as per approved proposal because Mining operations stopped since 20/4/2018 for want of statutory clearences.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two	one	
3b	Quantity of ROM mineral production proposed	199601 tonnes	1470 tonnes	Mining operations stpopped since 20/4/2018
3d	Quantity of mineral reject generation	No such proposal	NIL	-
3e	Grade of mineral rejects generation and threshold value declared.	No such proposal	NA	-
3f	Quantity of sub grade mineral generation.	NIL	NIL	-
3g	Grade of sub grade mineral generation	Not applicable	-	-
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 proposal	Not done	-
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting in mineral benches proposed	Mine was not under opeartion at the time of inspection	-

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3k	Provision of mining machineries in mineral benches	DEployment of mining machenaries envisaged	Mine was not under opeartion at the time of inspection and no mining machenaries were avilable at site at the time of inspection.	-
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Mine was not under operation at the time of inspection.	-
3m	Total area covered under excavation/pits	NA	NA	-
3n	Ore to OB ratio for the pit/mine during the year.	1:1.97	NA	-
30	Total area put in use under different heads at the end of year	NA	NA	-
3р	Production of ROM mineral during the last five year period as applicable	2017 -18- 155333 tonne 2018-19- 199601 tonnes	2017 -18- 6620 tonne 2018-19- 1470 tonnes	
3q	General remarks of inspecting officers on method of mining etc.	A category opencast mine	It is reported that mining operations were done by deploying mining machenaries. Mine remain closed at the time of inspection. There is no sign of recent workings.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	concurrent backfilling is	The mine was not under operation at the time of insection. It is reported that concurrent backfilling one as per proposal.	_
4b	Location of topsoil, OB and mineral reject dumps	No proposal for external dumping.	No external dumping.	_

4c	Number of dumps within lease area and outside of lease area	None	None	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No external dumps	No external dumps	-
4e	Number of active and alive dumps.	None	None	-
4f	Number of dead dumps.	NOne	None	-
4g	Number of dumps established.	None	None	-
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal	Not applicable as there is no external dumps	-
4i	Length of Retaining wall or garland drain all along dumps	No such proposal	Not applicable	-
4j	Number of settling ponds	None	None	-
4k	Specific comments of inspecting officer on waste dump management	_	-	There is no proposal for external dumping.Concurrent backfilling are being in practice as proposed in approved doccument.

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.	5	Mine was not under operation at the time of inspection. It is reported that concurrent backfilling done after full extraction of minerals.	_
5b	Area under backfilling of mined out area	3.80 ha	NA	-

5c Concurrent use It is proposed Mine was not under to spread top operation at the time of of topsoil for restoration or soil over inspection. It is rehabilitation backfilled reported that generated of mineral out area. top soil were spread area (Rule 32) over backfilled area. Total area NA 5d 3.30 ha fully reclaimed and rehabilitated General remarks 5e _ _ of inspecting officers on backfilling and reclamation etc.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP Report submitted	_	A copy of PMCP report was collected at the time of inspection.
6b	Area available for rehabilitation (ha) .	3.30 ha	NIL	-
бс	afforestation done (ha).	3.30 ha	It is reported that plantation was done over 0.13 ha area	-
6d	No. of saplings planted during the year	5280 saplings	It is reported that 320 saplings were planted during 2018-19	-
бе	Cumulative no .of plants	NA	NA	-
6f	Any other method of rehabilitation	None	-	-
бg	Cost incurred on watch and care during the year	43.2 lakh	NA	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	3.80 ha	NA	_

бі	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3.80 ha	NA	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	3.3 ha	NIL	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	_
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	-	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	-
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal	Not done	-
бр	Compliance of environmental monitoring (core zone and buffer zone)	Proposal for establishment of Environmental monitoring stations envisaged.	Environmental monitoring stations not verified asarea is naxal affected and mining operations were stopped since last two years.	-

6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

Mine was not under operation since 20/4/2018 for want of statutory clearences. At the time of inspection mine remain closed as a result PMCP proposals could not be verified.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch and no proposal for grade wise sorting	It was reported that gradewise sorting not done	-
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No such proposal for gradewise sorting	Gradewise sorting not practiced	
7c	Different grade of mineral sorted out at mines.	No such proposal	NA	-
7d	Any beneficiation process at mines	None	NA	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	-

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	spreading of	Top soil spreading over backfilled area	_
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent use	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposal for external dumping	Concurrent backfilling done	_
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent backfilling of generated OB waste	Concurrent backfillining as proposed	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Concurrent backfilling of generated OB waste in mined out area for phased reclamation and rehabilitation	Concurrent backfilling as per proposal	_
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 5280 saplings		-
8g	Survival rate	NA	NA	-
8h	Water sprinkling on roads to control airborne dust	Yes	Mine was not under operation at the time of inspection	_
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	-	Annual Returns submitted in online mode	-

9b MIning Engineer Incharge Scrutiny of MIning Annual return Engineer Sh Yogendra Kumar for information Incharge Sh Lilharewas present at on Mining Yogendra Kumar the time of inspection Lilhare Engineer, Geologist and Manager 9c Scrutiny of Area under Details furnished in AR Annual return on Pit: 0.893 ha seems to be correct land use pattern Waste disposal for area under 0.4 ha pits, reclaimed Infrastructure area, dumps etc. :1.77ha 9d Scrutiny of Details furnished in AR 320 saplings Annual return on seems to be correct afforestation 9e Scrutiny of Generation of There is no reject Annual return on mineral generation reject: NIL mineral reject generation (Grade and quantity) 9f Scrutiny of Graded ore Figures on stocks, Annual return on stocks are production and dispatch ROM stock and/or reported furnished in AR are in graded ore confirmity. 9g Scrutiny of Ex mine price It is captive mine Annual return on is reported at therefore sale value is sale value, Ex. Rs. reported as NIL and Mine price and 1098/tonnes exmine price is mining production cost and sale valu cost. as NIL 9h Scrutiny of Closing Annual return on balence of fixed assets fixed assets are reorted as Rs. 59.8 crore 9k Scrutiny of Showel 1 MIne was closed and no Annual return on Compressor 1 machenes were at mine site at the time of mining Blast hole machineries drill 1 inspection. wheel loder 1 Tanker 1

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 :

(OM PRAKASH GOPAL)

Indian Bureau of Mines