MCDR INSPECTION REPORT

General

File No- CHG/BLR/BXT/07MPR42004

S.N. Particulars Name of the Mine Date of Inspection: Name of Inspection: Name of Inspecting Officer Accompanying Mine Official with Designation: Shri Raj Kumar Sinha (Mines Ma Non-Forest and forest land Shri Raj Kumar Sinha (Mines Ma Non-Forest and forest land Shri Raj Kumar Sinha (Mines Ma Non-Forest and forest land Shri Raj Kumar Sinha (Mines Ma Non-Forest and forest land Shri Raj Kumar Sinha (Mines Ma Non-Forest and Forest and forest land Shri Raj Kumar Sinha (Mines Ma Non-Forest and Forest Accompanying Mine Office Samri	
Date of Inspection: Name of Inspecting Officer Accompanying Mine Official with Designation: Total Lease Area (Ha) with breakup of nonforest and forest land Mine code IBM Registration Number under rule 45 of MCDR,2017 Name of the Lease, Address, Phone, email and fax number Village Vill	o Ind. Ltd.
Name of Inspecting Officer Accompanying Mine Official with Designation: Total Lease Area (Ha) with breakup of nonforest and forest land Mine code IBM Registration Number under rule 45 of MCDR,2017 Name of the Lease, Address, Phone, email and fax number Village Village Village Village Village Taluka/Mandal District Balrampur-Ramanujganj Pincode Vistate Chhattisgarh Nearest Railway Station Nearest Railway Station Ambikapur 14 Date of Grant of Mining Lease Name of Mining Ceparboa (San First Renewal, if applicable and its period & expiry Rudra N. Mishra (Senior Mining Ceparbatic Kabi (Geologist), Shri Raj Kumar Sinha (Mines Ma Rudra N. Mishra (Senior Mining Ceparbatic Kabi (Geologist), Shri Raj Kumar Sinha (Mines Ma Lease area –377.116 ha Non-Forest – 124.109 Hact Forest – 124.109 Hact 18M/935/2011 IBM/935/2011 Hindalco Industries Ltd. Renukoot Dist: Sonbhadra, U.P Ph.No.(05446)52077-79 Fax No (05446)521017 Email: bijeh.jha@adityabirla.com Kudag Kusmi Balrampur-Ramanujganj 49 Pincode 497224 10 State Chhattisgarh 11 Post Office Samri 12 Nearest Police Station Ambikapur 14 Date of Grant of Mining Lease 23/10/1996 15 Date of First Renewal, if applicable and its period & expiry As per MMDR Amendment Act, 2(8 A, Validity of the lease period: 2-40 23/12/2046 (Fifty years)	3 1110. 200.
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to 23/12/2046 (Fifty years)	
	+/ 1 <i>L</i> / 1770
10 2 me of Second Renewal, if applicable and 110t Applicable	
its period & expiry	
19 Date of submission of renewal application if Lease period has been extended up	to
Mining Operations are continuing under 23/12/2046	
deemed extension	
20 Name of the Nominated Owner with Shri K N Bhandari	
Address, phone, email, fax number and date Aditya Birla Centers K Ahira M	larg, Worli,
of appointment Mumbai (MS) PIN – 400030	
Email: knbhandari1942@gmail.co	<u>m</u>
Date of appointment: 10/11/2011 Fax No. – 02266525801	
Phone No 02266525000	

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri V.K.S Chauhan Hindalco Colony, Post -Kusmi, District- Balrampur, Pin-497224 Mob- 9921341888 Date of Appointment – 15.03.2021 Email-chauhan.vijaykumar@adityabirla.com
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Raj Kumar Sinha BE in Mining Hindalco Colony, Post -Kusmi, District- Balrampur, Pin-497224 Mob- 09522128528 Date of Appointment –11.02.2021 Email- raj.k.sinha@adityabirla.com
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Raj Kumar Sinha BE in Mining Hindalco Colony, Post -Kusmi, District- Balrampur, Pin-497224 Mob- 09522128528 Date of Appointment –11.02.2021 Email- raj.k.sinha@adityabirla.com
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Ku. Parbati Kabi Education qualification -M. Sc in Applied Geology from Indian Institute of Engineering Science and Technology (IIEST), Shibpur Hindalco Colony, Post -Kusmi, District- Balrampur, Pin-497224 Email- parbati.kabi@adityabirla.com
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. SRG/BX/MPLN-383/NGP Nagpur Dated 29/11/1994, Period: 1997-98 to 2001-02
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	1st Scheme of Mining approved vide letter no. SRG/BXT/MPLN-383/NGP Nagpur Dated 10/02/2003, Period 2002-03 to 2006-07. Modified Scheme of Mining approved vide letter no. SRG/BXT/MPLN-383/NGP Nagpur Dated 20/10/2005, Period 2004-05 to 2006-2007. 2nd Scheme of Mining approved vide letter no. SRG/BXT/MPLN-383/NGP Nagpur Dated 17/08/2007, Period 2007-08 to 2011-2012. 3rd Scheme of Mining approved vide letter no. SRG/BX/MPLN-383/NGP Nagpur Dated 30/01/2013, Period 2012-13 to 2016-17. Modification of Mining Plan for the period 2017-18 to 2021-22 was approved on Dated 31/08/2016 vide letter no SRG/BX/MPLN-383/NGP/2016/25-RPR, Raipur

27	Mineral(s) granted in lease and approved for	Bauxite
	Mining	
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or	Category: A, Mechanised
	Manual)	
30	Captive/Non-Captive	Captive mine
31	Enviornment Clearance	60000 tonnes (Dated: 27/07/2007)
32	Status of Financial Assurance as per rule 27	Financial Assurance in the form of bank
	of MCDR, 2017	Guarantee for Rs. 547850/- (Rupees Five
		Lakh Seven Thousand Eight Hundred Fifty
		Only) has submitted at Regional Controller of
		Mines, Raipur.

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. – **Exploration**

S.N.	Item	Proposals (2020-	Actual Work	Remarks
		21)	(2020-21)	
1a	Backlog of previous year	Proposal not given	33	
		in approved		
		document		
1b	Exploration over lease area for	G1 Detailed	G1 Detailed	
	Geological axis 1 or 2.	exploration: Nil	exploration: 141.05	
			На	
		G2 General	G2 General	
		Exploration: Nil	Exploration:	
			160.986 Ha	
1c	Exploration Agency &			
	Expenditure in Lakh Rupees	Nil	South West	
	during the year		Pinnacle Ltd	
1d	Balance area to be explored to	Proposal not given	Nil	
	bring Geological axis in 1 or 2.	in approved		
		document		
1e	Balance reserves as on 01.04.2021	Under 111: - 439480		
		Under 122: - 123418		
		Under 221: - 154246		
1.0		Under 222: - 322417		1 .
1f	General remarks of Inspecting	1	panying Bauxite are ex	
	officer on geology, exploration	*	os and slopes. Laterite	
	etc.	associated Bauxite are believed to be products of insitu		
		chemical weathering of underlying basalts (Deccan		
		traps) The Bauxite bearing laterite capping is found on		
		the top of the basaltic plateau (Deccan traps). The Bauxite characteristics of this area is massive,		
		·		
		sometimes pisolitic hard and compact, denser than the laterite vesicular and pitted, displays shades of light		
		grey to pink colour.	i pilieu, uispiays siiade	s or fight
		• •	a part of Iamiranat rac	rion in
		Kudag blocks forms	a part of Jamirapat reg	SIOH III

Balrampur dist. Of chhattisgarh. The area was investigated by the G.S. Lin in the year 1977-78. The arranges of compositions of laterite SiO2: 6-12% and AL2O3: 20-30% Bauxite ranges of SiO2: 1-5% &
Al2O3: 31-58%.

Development

S.N	Item	Proposals (2020-21)	Actual Work	Remarks
•			(2020-21)	
2a	Location of Development	1) E/W 804806-806030	Same as Proposal	
	w.r.t. lease area	N/S 260069-260089		
		2) E/W 804806-804960		
		N/S 259860-259892		
2b	Separate benches in topsoil	Soil – 1	Soil – 1	
	overburden and mineral	Bauxite - 1	Bauxite - 1	
	(Rule 15)			
2c	Stripping ratio or ore to OB	1: 3.5	1: 0.97	
	ratio			
2d	Quantity of topsoil	Soft OB: 53031.29 Cu.m	Soft OB: 2267 cu.m	Including
	generation in m ³			top soil and
2e	Quantity of overburden	Hard OB=7426.15 Cu.m	Hard OB = 5288.68	Hard OB
	generation in m ³		Cu.m	
2f	General remarks of	Development is in order.		
	Inspecting officer on			
	development of pit w.r.t			
	type of deposit etc.			

Exploitation

S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
3a	Number of pits proposed for production	2	2	
3b	Quantity of Bauxite mineral production proposed (2020-21)	35476.00 Tonne	17830 Tonne	
3c	Recovery of Salable/usable mineral from ROM production	49.00%	50.87%	
3d	Quantity of mineral reject generation	16054 Cu.m	7488 Cu.m	
3e	Grade of mineral reject generation and threshold value declared	Below threshold value	Below threshold value	
3f	Quantity of sub-grade mineral generation	3547 Tonne	0 Tonne	
3g	Grade of sub-grade mineral generation	Proposal not given in approved document	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	Characterization studies on Low grade Bauxite Ore to enhance Alumina Content	

				by IMMT,	
				Bhubaneswar	
3j	Provision of drilling & blasting in mineral benches	Yes		Yes	
3k	Provision of mining machineries in mineral benches	Yes		Yes	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes		Yes	
3m	Total area covered under excavation /pits	3.24 Ha		0.83 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 3.5		1: 0.97	
30	Total area put in use under different heads at the end of year	80.90 Ha		78.52 Ha	Till the FY2020-21
3p	Production of ROM/ Bauxite mineral	2016-17	117579.59	115469.627	
	during last five-years period, as	2017-18	119897.0	88591.310	
	Applicable (Tonns)	2018-19	121177.00	108070.00	
		2019-20	55761.00	47832.00	
		2020-21	35476.00	17380.00	
3q	General remarks of inspecting			en cast with the help	o of Semi
	officer on method of mining etc	mechanized method. The Soil first removed by			
		excavator having 0.9cubic meter capacity. The morrum			
		beneath the soil is if hard and laterite is drilled and			
		blasted separately and removed by shovel dumper			
		combination. There is no need for drilling in overburden as it is soft and easily lift out by excavator without			
		blasting.	i and easily n	it out by excavator v	vitiiOut
	C.P. I.W. A. M.	orasung.			

Solid Waste Management-Dumping

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Simultaneously reclamation of mined out area is practiced	Simultaneously reclamation of mined out area is practiced	
4b	Location of topsoil, OB & mineral reject dumps	Proposal not given in approved document	Proposal not given in approved document	
4c	Number of Dumps within lease area and outside lease area	Proposal not given in approved document	Proposal not given in approved document	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Proposal not given in approved document	Proposal not given in approved document	

4e	Number of Active & Alive dumps	Proposal not given in approved document	Proposal not given in approved document	
4f	Number of deed dumps	Proposal not given in approved document	Proposal not given in approved document	
4g	Number of dumps established	Proposal not given in approved document	Proposal not given in approved document	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal not given in approved plan	Proposal not given in approved document	
4i	Length of Retaining wall or garland drain all along dump	Proposal not given in approved document	Proposal not given in approved document	
4j	Number of settling ponds	Proposal not given in approved document	Proposal not given in approved document	
4k	Specific commends of inspecting officer on waste dump management	Waste is being back filled in mined out Area. Concurrent backfilling system has been adopted and only top soil is dumped short period not kept more than six months to preserve its fertility		

Solid Waste Management-Backfilling

S.N.	Item	Proposals (2020-21)	Actual Work Remarks (2020-21)	
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Reclaimed and plantation done	Reclaimed and plantation done	
5b	Area under backfilling of mined out area	1.47 Ha	0.22 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes	Simultaneously carried out	
5d	Total area fully reclaimed & rehabilitated	Proposal not given in approved document	68.077 Hect	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Its a shallow depth mining. Full extraction of mineral and simultaneously backfilling carried out.		

Progressive Mine Closer Plan

S.N	Item	Proposals (2020- 21)	Actual Work (2020-21)	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2). Details should be given in the format as given in Annexure-20	Yes	Yes	
6b	Management of worked/mined out benches Area available for rehabilitation (Ha) Afforestation done (ha) No. of saplings planted during the year Cumulative no. of plants Any other specific method of rehabilitation Cost incurred on watch & care during the year	Proposal not given in approved document	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	i) Void available for Backfilling (L X B X D) pit wise/stope wise: - 3.24 Ha ii) Void filled by waste/tailings: 1.47 Ha iii) Afforestation on the backfilled area-2.54 Ha iv) Rehabilitation by making water reservoir - Nil v) Any other specific means-Nil	i) Void available for Backfilling (L X B X D) pit wise/ stope wise: - 0.831 Ha ii) Void filled by waste/tailings: 0.22 Ha iii) Afforestation on the backfilled area-2.40 Ha iv) Rehabilitation by making water reservoir - Nil v) Any other specific means-Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Nil	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proper Monitoring	Done in core-zone & buffer zone	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP proposal are im	plemented	

Mineral Conservation

S.N.	Item	Proposals (2020-21)	Actual Work Remarks (2020-21)	
7a	ROM mineral dispatch or grade wise sorting within lease area	Yes	Yes (2020-21)	
7b	Method of grade-wise mineral sorting i.e., manual or mechanical	Manual Sorting	Manual Sorting	
7c	Different grade of mineral sort out at mine	Yes	Yes	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer	Due to manual sorting of Bauxite its help to improve		
	on Mineral conservation &	the grade. Screening will be good for the small size		
	beneficiation issues	of ore.		

Environment

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks	
8a	Separate removal and	Spread on backfilled	Spread on backfilled		
	utilization of topsoil (Rule32)	area for plantation	area for plantation		
8b	Concurrent use or storage of	Top soil used for	Top soil used for		
	topsoil	restoration of Mined	Restoration of Mined		
		out Area	out Area		
8c	Separate dumps for	Proposal not given in	Proposal not given in		
	overburden waste rock, rejects	approved document	approved document		
0.1	and fines (Rule 33)	D 1 ' 1	D 1 ' 1		
8d	Use of overburden, waste	Reclaim by	Reclaim by		
	rock, rejects and fines dump	overburden, waste	overburden, waste		
	for restoring the land to its	rock, rejects and fines	rock, rejects and fines		
8e	original use Phased restoration,	Reclaim by	Reclaim by		
86	reclamation and rehabilitation	overburden, waste	overburden, waste		
	of lands affected by mining	rock, rejects and fines	rock, rejects and fines		
	operations (Pits, dumps etc)	rock, rejects and rines	Tock, rejects and fines		
8f	Baseline information on	During current	During current		
01	existence of plantation &	planning period	planning period		
	additional plantation done	(2020-2021):	(2020-2021):		
	(Rule 41)	Afforestation: 1.06 Ha	Afforestation: 2.40 Ha		
		Total plantation:2650	Total plantation: 4865		
8g	Survival rate	Not mentioned in	75%		
		approved document			
8h	Water sprinkling on roads to	yes	Proper Water		
	control airborne dust		sprinkling on Haul		
			Road		
8i	General remarks of inspecting	EMP parameters are regularly being monitored. Top Soil			
	officer on aesthetic beauty in	spread the concurrent back filled area.			
	and around mine area				

Compliance of Rule 45

S. N.	Item			Co	omments	Remarks
9a	Status of submission of	f monthly	M.R. Submitted up to-Oct-2021			
	and Annual returns		A.R. submitted up to- 2020-2021			
9b	Scrutiny of Annual r information on Mining Geologist and Manager		ngineer, Mining Engin Lilhare, BE in Parbati Kabi		Shri Raj Kumar Sinha ing Geologist: Yes, Ku. Kumar Sinha	
9c	Scrutiny of Annual return use pattern for area under reclaimed area, dumps et	r pits,	Open Cast Mining: 73.911ha Area Under current working pit: 6.614ha Reclaimed area: 68.927ha Waste disposal: 1.587 ha Occupied by plant, building residential, welfare building and roads:3.00ha Other purpose:0.00 ha Work done under progressive mine closure plan during the year: 1.869ha			
9d	Scrutiny of Annual rafforestation	eturn on				
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)		0.00 tone, Al ₂ O ₃ :27.04% Sio ₂ :15.42%, Fe2O3- 36.06%, LOI-15.10%			
9f	Scrutiny of Annual return on Bauxite stock and/or grade ore		Opening Stock: 00.00 tonne Bauxite Production: 17830.00 tonne Closing Stock: 0.00tonne			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs		Ex- Mine Price i) 40% to below 45% Al2O3: Rs 1238.87 ii) 45% to below 50% Al2O3: Rs 1222.40 Cost of Production: Rs 1227.85			
9i	Scrutiny of Annual 1 Fixed assets	return on Given				
9k		eturn on	Equipment	Nos	Capacity	
C		Shovel (Hy	ydraulic)	1	0.900CUM	
	Scrutiny of Annual return on mining Machineries Air compre		essor	1	392.00CUM/MN	
Blast Host Dumper		Drill	1	100.00MM		
			3	25.00Tonne		
	Water Tank Wheel Loa		ker	1	12000.00L	
			der	1	1.480CUM	

10.0 Details of Violations observed during current inspection

No Serious violation pointed out.

Compliance position of earlier violation pointed out: -. Earlier Violation complied.

Star rating also evaluated.

Last Inspection Date: 6/11/2020,

Name of the Inspection Officer: Rudra N. Mishra (Senior Mining Geologist)

Date: 22/11/2021 Name: Rudra N Mishra

Designation: Senior Mining Geologist