	MCDR REPORT					
Sl.	PARTICULARS	DETAILS				
N						
1	File No.					
2	Name & Designation of the	Shri D. Dash, Regional Mining Geologist,				
	inspecting officer	Indian Bureau of Mines, Raipur				
3	Date of Inspection	18.10.2023				
4	Date of Last Inspection &	21.12.2022,				
	Officer	Shri Deepak Chinchkhede, Assistant Controller of				
	officer	Mines, Indian Bureau of Mines, Raipur				
5	Accompanying mine	Mr. Vipin Sharma (Mines Manager)				
	personnel	Ms. Doyel Mukherjee (Geologist)				
6	Name of the Mine	Kudag Bauxite Mine				
7	Total Lease Area (Ha) with	377.116 Ha				
/		Under Non-forest-253.007 Ha				
	breakup of Non-forest and					
	forest land	Under forest-124.109 Ha				
8	Mine code	07MPR42004				
9	IBM Registration Number	IBM/935/2011				
	under rule 45 of MCDR, 1988					
10	Name of the lessee, Address,	M/S HINDALCO INDUSTRIES LIMITED				
	phone, email and fax number	Ahura Center ,1st Floor,B-Wing,Mahakali Caves				
	priorie, ciriair and rair rairie	Road, Andheri (East), Mumbai 400093, India, Ph No-				
		02266525000, Fax No- 02266525801, Email-				
		Prateek.kumar@adityabirla.com				
	Village	Kudag				
	Taluka/Mandal	Balrampur				
	District	Chhattisgarh				
	Pincode	497222				
	State	Chhattisgarh				
	Post office	Samripat				
11	Nearest police station	Samri				
12	Nearest Railway station	Ambikapur				
13	Date of Grant of Mining Lease	23/10/1996				
14	Date of Execution	24.12.1996				
15	Date of opening of Mine	02.07.1997				
16	Weekly day of rest	Sunday				
17	Date of first Renewal, if	Lease period Extended up to 23/12/2046				
	applicable and its period &	Date- 16/07/2016				
	expiry					
18	Name of the Nominated	Shri K.N Bhandari, 5, New Power House Road,				
	Owner with Address, phone,	Sector-7, Jodhpur – 342 004, Phone No No -				
	email, fax number and date of	(0291)2620061, Mail ID -				
	appointment	knbhandari1942@gmail.com, Date				
	appointment	of Appointment –10.11.2011				
19	Name of the Mine Agent with	Shri V.K.S Chauhan, Hindalco Colony, Post -				
1.7	I TAUTHE OF THE TATHE WASHING WILL	Jim v.ix.J Chaunan, Timuated Colony, Post -				

	Address, phone, email, fax	fax Kusmi, District-Balrampur, Pin-497224, Mob-				
	number and date of	9921341888, Date of Appointment – 15.03.2021				
	appointment	Email-chauhan.vijaykumar@adityabirla.com				
20	Name of the Mines Manager	Shri Vipin Sharma, BE in Mining, Hindalco				
	with Address, phone, email,	Colony, Post -Kusmi, District-Balrampur, Pin-				
	fax number and date of	497224, Mob- 6262029369, Date of Appointment				
	appointment in mines	–02.05.2022, Total Experience: 10 Years				
		Email- Vipin.m.sharma@adityabirla.com				
21	Name of the Mining Engineer	Shri Ashutosh Behera, B.Tech Mining				
	& Geologist Qualification and	Hindalco Colony, Post -Kusmi, District-Balrampur,				
	total experience with Address,	Pin-497224, Mob- 9522234442, Date of				
	phone, email, fax number and	Appointment –01.04.2022, Total Experience: 10				
	date of appointment in mine	Years, Email- <u>Ashutosh.behera@adityabirla.com</u>				
		Ms. Doyel Mukherjee				
		Qualification: M.Sc in Applied Geology from NIT				
		Rourkela				
22	1.71 d. C. l. d. 1.85	Total Experience 5 years.				
22	Whether Geologist and Mining	Yes				
	Engineer appointed in mines					
	satisfy the rule 42 & carrying					
	out their duties as per rule 43					
22	& 44.	Mining Plan visa annuavad vida letter no PC/PV/				
23	Date of Approval of Mining Plan/Modified Mining Plan	Mining Plan was approved vide letter no. RG/BX/ MPLN/383/NGP dated 29.11.1994 for the period				
	with five-year period and	from 1997-98 to 20001-02				
	specific condition in approval					
	letter, if any.					
24	Date of Approval of Scheme	1 st Scheme of Mining was approved letter no. SRG/				
	of Mining/Modified Scheme of	BXT/MPLN-383/NGP Nagpur dated 10.02.2003				
	Mining with five-year period	for the period from 2002-03 to 2006-07.				
	and specific condition in	Modified Scheme of Mining was approved letter				
	approval letter, if any.	no. SRG/BXT/MPLN-383/NGP Nagpur dated				
	approvarienci, ir arry.	17.08.2005 for the period from 2004-05 to 2006-07.				
		2 nd Scheme of Mining was approved letter no. SRG/				
		BXT/MPLN-383/NGP Nagpur dated 17.08.2007 for the period from 2007-08 to 2011-12.				
		3 rd Scheme of Mining was approved letter no. SRG/				
		BXT/MPLN-383/NGP Nagpur dated 30.01.2013				
		for the period from 2012-13 to 2016-17.				
		4 th Scheme of Mining was approved letter no. SRG/				
		BXT/MPLN-383/NGP/2016/25-Raipur dated				
		31.08.2016 for the period from 2017-18 to 2021-22.				
		5 th Scheme of Mining was approved vide letter no. Balrampur/Baux/Khayo-1295/2021-Raipur dated				
		26.11.2021 for the period from,2022-23 to 2026-27.				
		25.12.251 for the period from,2522 25 to 2020 27.				
25	Mineral(s) granted in lease and	Bauxite				

	proved for mining	
26	Method of Mining (Opencast,	Open cast
	Underground)	
27	Category (Fully Mechanized,	Semi-mechanised
	Others or Manual)	
28	Captive/Non-Captive	Captive
29	EC for ROM Prod:	60000 tonne
	Date of Issue:	DOI: 27.07.2007
30	FA amount Rs	Rs-1,03,35,000/- Valid up to 31st March 2028
	Valid up to:	

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

1.0 EXPLORATION

S	ITEM	PROPOSALS	ACTUAL WORK	REMARKS		
N		(2022-23)	(2022-23)			
1a	Backlog of previous year	Boreholes: 140	Boreholes: 143	.As per		
		Meterage: 1680	Meterage: 1562	proposal.		
41	P 1 1	C1	C1	Balance area		
1b	Exploration over lease	G1	G1	of 61.5 ha		
	area for Geological axis 1			area is to		
1.0	or 2.	Nil	M/s II:ndalas	covered		
1c	Exploration Agency &	INII	M/s Hindalco Industries Ltd	under G1		
	Expenditure in lakh		mustries Ltu	scale of		
1d	Rupees during the year Balance area to be	Not specific	Nil	exploration		
1u		Not specific	INII	during the		
	1			period from		
1e	Geological axis in 1 or 2 Balance reserves as 01.04.	(111):	989560 Tonnes	2022-23 to		
16	2023	(111).	Josson Tollies	2023-24.		
	2025	(122):	1368169 Tonnes			
		(222):	697394 Tonnes			
		(331):	116905 Tonnes			
		(===).				
1f	General remarks of		ea has been covered und			
	inspecting officer on	_	166.23 ha of G2 scale	-		
	geology, exploration etc.		overed G1 scale of expl			
			of Mining Plan, propos			
		area (existing G2 scale of exploration) is proposed for				
		_	G1 scale of explorati			
		during 2024-25 to 2026-27 and 61.5 ha area of G2 scale				
		of exploration is proposed for exploration by drilling				
		during the year 20	022-23 to 2023-24. Du	ıring the year		
		2022-23, exploration	on in form of 140 borel	noles has been		

proposed, against which 143 boreholes have been	drilled.
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2.0 DEVELOPMENT

S	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
N		(2022-23)	(2022-23)	
2a	Location of development w.r.t. lease area	1. E804915- 805079, N2599169- 2599478 2. E805062-80534, N2599667-2600043	1. E804920- 805060, N2599164- 2599364 2. E805080-805199, N2599723-2599889	Development of quarries are within the proposed quarry area.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes	As per the plan
2c	Stripping ratio or ore to OB ratio	1:3.68	1:3.80	Indicates higher development.
2d	Quantity of topsoil generation in Tonnes	726951.64	28253.35	Bulk density of Top soil- 1.22
2e	Quantity of overburden generation in MT	540587.52	103750.02	Bulk density of OB- 1.92
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The quarry developr approved Mining Pla	nent is within the pro	pposed area as per

3.0 EXPLOITATION

S.	ITEM	PROPOSAL	ACTUAL WORK	REMARK
N.		(2022-23)	(2022-23)	
3a	Number of pits proposed for production	2	2	As per proposal.
3b	Quantity of mineral production proposed	59831 Tonne	43800 Tonne	Production is on lower side due to lack of land acquisition.
3c	Recovery of saleable/usable mineral from production	49.00%	49 %	Recovery study done.
3d	Quantity of mineral reject generation	26386.44 Cu.m	19802.08 Cu.m	Intercalated waste generated which are below threshold limit.

3e	Grade of mineral reject generation and threshold value declared	Below threshold value Threshold Value: AL2O3- 30%	Below the Average Al2O3 Threshold 30%		22.67%		
3f	Quantity of sub- grade mineral generation	NIL		NIL			
3g	Grade of subgrade mineral generation	NA		NA			
3h	Manual / Mechanised method adopted for segregating from ROM	Manual]	Manual			
3i	Any analysis or beneficiation study proposed & carried out for subgrade mineral and reject	Nil		Nil			
3j	Provision of drilling & blasting in mineral benches	Yes		Yes			
3k	Provision of	Yes	Type	Capaci	No.	Found	in
	mining machineries in		of	ty of	of	Onerations	during
	T HIBCHILLER III		machi	each	unit	operations the visit.	
	mineral benches		nery	each unit	unit s	the visit.	8
			nery SHOV				8
			nery SHOV EL				8
			nery SHOV	unit 0.9			8
			nery SHOV EL (HYD RAULI C)	unit			
			nery SHOV EL (HYD RAULI C) AIR	0.9 CUM	S		
			nery SHOV EL (HYD RAULI C)	unit 0.9	S		
			nery SHOV EL (HYD RAULI C) AIR COMP RESSO R	0.9 CUM 392	S		
			nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS	0.9 CUM 392 CUM/	2		
			nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS T	0.9 CUM 392 CUM/ MIN	2		
			nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS	0.9 CUM 392 CUM/ MIN 100 MM	2		
			nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS T HOLE DRILL	0.9 CUM 392 CUM/ MIN 100 MM 25	2		
			nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS T HOLE DRILL	0.9 CUM 392 CUM/ MIN 100 MM 25 TONN	2 1		
			nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS T HOLE DRILL	0.9 CUM 392 CUM/ MIN 100 MM 25	2		
			Nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS T HOLE DRILL DUMP ER WHEE L	0.9 CUM 392 CUM/ MIN 100 MM 25 TONN ES	2 1		
			nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS T HOLE DRILL DUMP ER WHEE L LOAD	0.9 CUM 392 CUM/ MIN 100 MM 25 TONN ES	1 1 4		
			Nery SHOV EL (HYD RAULI C) AIR COMP RESSO R BLAS T HOLE DRILL DUMP ER WHEE L	0.9 CUM 392 CUM/ MIN 100 MM 25 TONN ES	2 1		

			TI A NIIZ		1	
			TANK ER	S		
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	ER	Yes		
3m	Total area covered under excavation/pits	97.812 Ha		78.	.476 Ha	Dur to lack land area acquisition.
3n	Ore to OB ratio for the pit/mine during the year	1:3.68			1:3.80	Indicates higher development.
30	Total area put in use under different heads at the end of year	Not specific	current 2.544Ha 2. Ro 71.307Ha 3. O plant, roads: 3 H 4. O Ha 5. W 3 Ha	ccupied building Ha ther purp aste Di ork done uring the	area: by and cose: 0 sposal: e under e year:	.As per Annual return for the year 2022-23 submitted.
3p	Production of mineral during last Three -year period, as applicable (tones)	2018-19: 121177 2019-20: 55761 2020-21: 35476 2021-22: 58759 2022-23: 59831	01.00/ 11		108070 47832 17380 56100 43800	The production during last five years is on lower side than proposed due lack of land area acquisition.
3q	General remarks of inspecting officer on method of mining etc.	0	gainst qua			were proposed in has been developed

4.0 SOLID WASTE MANAGEMENT-DUMPING

S N	ITEM	PROPOSALS (2022-23)	ACTUAL WORK	REMARKS
4a	Separate dumping of topsoil, OB & mineral reject (Rule	Nil	(2022-23) Nil	Simultaneous backfilling
	32, 33)			done.
Ъ	Location of topsoil, OB & mineral reject dumps	Nil	Nil	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer	_	in the lease area sinc s are carried out simu	0

5.0 SOLID WASTE MANAGEMENT-BACKFILLING

S N	ITEM	PROPOSAL S (2022-23)	ACTUAL WORK (2022-23)	REMARKS
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Mined out- 5.48 Ha Reclaimed- 3.63 Ha	Mined out- 2.544 Ha Reclaimed- 1.9 Ha	Less area mined out due to lack of land area acquisition.
5b	Area under backfilling of	3.63 Ha	1.9 Ha	Less area

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	mined out area			backfilled due to less area being mined out.
5c	Concurrent use of topsoil for	Yes	Yes	Concurrent use
	restoration or rehabilitation of mined out area (Rule 32)	3.63 На	1.9 Ha	of top soil. During 2022-23 total 28253.35 MT quantity is being used.
5d	Total area fully reclaimed & rehabilitated	87.707 Ha	71.307 Ha	
5e	General remarks of inspecting	Simultaneous b	ackfilling of mined	quarry are carried
	officer on backfilling, reclamation etc		s mined out against n due to lack of land	
	reciamation etc	in approved pia	ii due to lack of land	a area acquisition.

6.0 PROGRESSIVE MINE CLOSURE PLAN

S	ITEM	PROPOSAL	ACTUAL	REMA
N		S	WORK	RKS
		(2022-23)	(2022-23)	
6a	Whether Annual report on PMCP	Yes	Yes	Annual
	submitted on time and correctly - Rule			return
	23E (2). Details should be given in the			submitte
	format as given in Annexure-20.			d on
				dated
				29.06.20
				23.
6b	Management of worked/mined out	3.63	1.9	
	benches			
	i) Area available for rehabilitation (ha)			
	ii) Afforestation done (ha)	1	1.519	
	iii) No. of saplings planted during the	2500	6020	
	year			

	iv) Cumulative no. of plants	NA	142875	
	v) Any other specific method of rehabilitation	Nil	Kudag Botanical garden developed on 1.4 Ha of reclaimed land	
	vi) Cost incurred on watch & care during the year	Nil	Rs. 12.22 Lac	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i). Void available for Backfilling:- 3.63 Ha ii) Void filled by waste/tailings : NA iii)Afforestati on on the backfilled area- 1 Ha iv)Rehabilitat ion by making water reservoir - Nil v)Any other specific means-Nil	i.Void available for Backfilling: 1.9 Ha ii) Void filled by waste/tailings: NA iii) Afforestation on the backfilled area- 1.519 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 rehabilitated (ha) iii) Method of rehabilitation	NIL	NIL	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Complied	Complied	Complie d

6f	General remarks of inspecting officer on	Progressive	Mine	Closure	plan	are
	PMCP compliance & progressive	implemented as proposed.				

7.0 MINERAL CONSERVATION

S	ITEM	PROPOSAL	ACTUAL	REMARKS		
N		S	WORK			
		(2022-23)	(2022-23)			
7a	ROM Mineral dispatch or grade- wise sorting within lease area	Proposed	Done as proposed.			
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual			
7c	Different grade of mineral sorted out at mines	Yes	Yes			
7d	Any beneficiation process at mines	Nil	Nil			
7e	General remarks of inspecting	Manual sorting and screening of run of mine ore				
	officer on Mineral conservation & beneficiation issues	are carried out as proposed in approved Plan.				

8.0 ENVIRONMENT

S	ITEM	PROPOSALS	ACTUAL	REMARKS
N		(2022-23)	WORK (2022-	
			23)	
8a	Separate removal and utilization of	726951.64 MT	28253.35 MT	Top soi are
	topsoil (Rule 32)			spread over
8b	Concurrent use or storage of	726951.64 MT	28253.35 MT	backfilled
	topsoil			area.
8c	Separate dumps for overburden,	Nil	Nil	
	waste rock, rejects and fines (Rule			
	33)			
8d	Use of overburden, waste rock,	Simultaneousl	Simultaneously	
	rejects and fines dumps for	y backfilling	backfilling of	
	restoring the land to its original	of the mined	the mined out	
	use	out area by the	area by the use	

		use of	of overburden,				
		overburden,	rejects and fine				
		rejects and	dumps for				
		fine dumps for	restoring the				
		restoring the	land to its	Restoration			
		land to its	original use.	of the land			
		original use.		is			
0-	Dharad wastawatian washanatian	2 (2 11-	1 0 11-	proportionat			
8e	Phased restoration, reclamation	3.63 Ha	1.9 Ha	e to mined			
	and rehabilitation of lands affected			out land			
	by mining operations (Pits, dumps			available			
8f	etc) Baseline information on existence			and quantity			
01	of plantation & additional			of top soil			
	plantation done (Rule 41)			generated.			
	plantation done (Kule 41)	Afforestation:	Afforestation:				
		1 Ha	1.519 Ha	146 plants			
			m . 1 1	planted			
		Total plantation:	Total plantation: 6020	outside lease			
		2500	0020	area			
8g	Survival rate						
		85%	87.1 %				
8h	Water sprinkling on roads to	Yes	Yes	Dedicated			
	control airborne dust			tanker for			
				water			
				sprinkling.			
8i	General remarks of inspecting		*	imultaneously			
	officer on aesthetic beauty in and						
	around mines are	the year 2022-23 is on lower side than proposed					
	COMDITANCE OF DUI E 45	due to lack of land area acquisition.					

9.0 COMPLIANCE OF RULE 45

S.	Item	Details Given in A.R.	Observation	Remarks
N.			of I/Officer	
9	Status of submission of	Monthly Returns	Submitted on	
a	monthly and Annual returns	submitted up to – Sep 2023, Annual Return submitted up to -2022-23 submitted	time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	on 29.06.2023. Mining Engineer: Shri Ashutosh Behera Geologist: Ms. Doyel Mukherjee Manager: Shri Vipin	Officers were present during the mine inspection.	

		Sharma		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As per annual return 1. Area under current working pit: 2.544Ha 2. Reclaimed area: 71.307Ha 3. Occupied by plant, building and roads: 3 Ha 4. Other purpose: 0 Ha 5. Waste Disposal: 3 Ha 6. Work done under PMCP during the year: 3.419 Ha	Appears to be correct.	
9d	Scrutiny of Annual return on afforestation	As per annual return Number of Saplings: 6020 Survival rate: 87.1%	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock: 0 Tonne Bauxite Production: 43800 Tonnes Closing Stock: 0 Tonne	No stock observed during the visit.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	As per annual return Ex- Mine Price: Rs 1435.78/ MT. Cost of Production: Rs. 1435.78	Appears to be correct.	
9i	Scrutiny of Annual return on fixed assets	As per annual return the fixed asset is Rs 72654312/-	Appears to be correct.	
9k	Scrutiny of Annual	Type of Capacit No. machin y of of	Found	

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return	on	mining	ery	each	unit	operation		
machineri	ies			unit	S	during	the	
			SHOVE			visit.		
			L			VISIL.		
			(HYDR					
			AULIC	0.9				
)	CUM	2			
			AIR					
			COMP	392				
			RESSO	CUM/				
			R	MIN	1			
			BLAST					
			HOLE	100				
			DRILL	MM	1			
				25				
			DUMP	TONN				
			ER	ES	4			
			WHEE					
			L					
			LOAD	1.480				
			ER	CUM	1			
			WATE	_				
			R	12000				
			TANK	LITRE				
			ER	S	1			

10- Details of violations observed during current inspection and compliance position of earlier violation-

During the previous inspection on 21.12.2022, no violation was pointed.

During the current inspection, no serious violation is pointed out.

Date:

(D.Dash)

Regional Mining Geologist