

## MCDR INSPECTION REPORT 2020-21

### General:

Sl .No.	Particulars	Details
	File No.	CHG/SRG/BX-2/NGP
1	Name of the Mine	MAINPAT BAUXITE MINE
2	Date of Inspection:	14/03/2022
3	Name of Inspecting Officer	Shri Rudra Narayan Mishra, Senior Mining Geologist & Shri Prasant Kumar Sahu, Assistant Mining Engineer
4	Name of official accompanying inspection	Shri Suraj Gupta, Mining Engineer
5	Last date of Inspection & Officer	21/11/2019 & Shri S. Kartikeya, Jr. Mining Geologist
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: 376.924 Ha. Non-Forest: Private Land: 262.245 Ha. Total Lease Area: 639.169 Ha.
7	Mine code	07MPR42002
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/602/2011
9	Name of the Lessee, Address, Phone, email and fax number	Registered Office: M/s Bharat Aluminium Company Limited Aluminium Sadan, Core-6, 3rd Floor, Scope Office Complex, 7, Lodhi Road, New Delhi – 110003, Phone: +91 (0) 11 - 49166200 +91 (0) 11 – 24360091, Fax: +91 (0) 11 – 24320177  Local Correspondence Address: M/s Bharat Aluminium Company Limited, Engineering Building, BALCO Nagar, Korba, Chhattisgarh – 495684 Phone/Fax: 07759-255043, 07759-255043 Email: manasranjan.sahu@vedanta.co.in
10	Village	KESRA, KUDARIDIH, SAPNADAR
11	Taluka/Mandal	MAINPAT, DIST- SARGUJA
12	District	Surguja
13	Pin code	497111
14	State	Chattishgarh
15	Post Office	Kamleshwarpur
16	Nearest Police Station	Kamleshwarpur
17	Nearest Railway Station	Ambikapur
18	Date of Grant of Mining Lease	09/07/1992 to 08/07/2012 (20 years)
19	Date of Execution	09/07/1992
20	Weekly day of rest	Sunday
21	Date of opening of Mine	29/03/1993
22	Date of First Renewal, if applicable and its period & expiry	First Renewal agreement date 30/07/2015 and period of ML 09/07/1992 to 08/07/2042 (50 years as per the MMDR amendment Act 2015)
23	Date of Second Renewal, if applicable and its period &	Not applicable

	expiry	
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Abhijit Pati, CEO & Director M/s Bharat Aluminium Company Limited Balco Nagar, Korba Chhattisgarh-495684 Phone: +91 (0) 7759 - 242139 Fax: +91 (0) 7759 - 242139 Email: abhijit.pati@vedanta.co.in Date of Appointment: 17/11/2020
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. G Venkat Reddy, Balco Nagar, Korba-495684,Chattisgarh. <a href="mailto:venkat.reddy@vedanta.co.in">venkat.reddy@vedanta.co.in</a> Appointment Date:-25/11/2021
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Jivitesh Kumar Anokhe, Mainpat Bauxite Mines, Kamaleshwarpur , Surguja district, Chhattisgarh <a href="mailto:jivitesh.anokhe@vedanta.co.in">jivitesh.anokhe@vedanta.co.in</a> Appointment Date-03/02/2021
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Suraj Kumar Gupta, B-Tech Mining, Mainpat Bauxite Mines, Kamleshwarpur-497111. Experience-8 years. Date of Appointment: 01.04.2021
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	No, Geologist not appointed. Violation of Rule 55 of MCDR, 2017 is pointed out.
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Mining Plan vide letter no. 314(3)87/MCCM(C) Nagpur Dated 15/07/1988, Period: 1993-94 to 1997-98  Mining Plan vide letter no. 314(3)/2012-MCCM(CZ)/MP-07 Nagpur Dated 16/10/2012, Period: 2012-13 to 2016-17  Modified Mining Plan approved vide letter no. SRG/BXT/MPLN-46/2016/RPR Raipur Dated 26/09/2016, Period: 2016-17 to 2020-21 Modified Mining Plan approved vide letter no. SRG/BXT/MPLN/1169/2018/RPR Raipur Dated 22/11/2018 Period: 2018-19 to 2020-21
31	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 vide letter no. SRG/BX/MPLN-14/NGP Nagpur Dated 08/04/1999, Period: 1998-99 to 2002-03  2nd Scheme of Mining vide letter no. SRG/BX/MPLN-14/NGP Nagpur Dated 26/03/2004, Period: 2003-04 to 2007-08  Modified Scheme of Mining vide letter no. SRG/BX/MPLN-14/NGP Nagpur Dated 04/04/2004 Period: 2005-06 to 2007-08  Modified Scheme of Mining vide letter no.

		SRG/BX/MPLN-14/NGP Nagpur Dated 30/11/2006 Period: 2006-07 to 2007-08  3rd Scheme of Mining vide letter no. 314(3)/2008- MCCM(CZ)/S-4 Nagpur Dated 13/10/2008 Period: 2008-09 to 2012-13 (valid up to 8th July 2012)
32	Mineral(s) granted in lease and approved for Mining	Bauxite
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanised (A)
35	Captive/Non-Captive	Captive
36	Present EC Status	Bauxite 0.75 Million Tonne Per Annum
37	Status of Financial Assurance	Rs. 5,66,85000/- valid till 31.03.2026

### Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

#### 1.0 Exploration:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
1a	Backlog of previous year proposals	No exploration proposed	Not applicable	The entire lease area is explored under G1 category except about 9.30 ha which is un-explored due to village habitation.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Not applicable	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not envisaged in the approved document	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No proposal	Not applicable	The balance area of 9.30 ha which is un-explored due to village habitation.
1e	Balance reserves as on 01.04.2021(in Million Tonnes)	Under 111-48.82 Million Tonne Under 211- 21.84 Million Tonne		In Annual Return, reserves / resources are incorrectly reported. Violation of Rule 45(5) (C) of MCDR, 2017 is pointed out.
1f	General remarks of Inspecting officer on geology, exploration etc.	The entire lease area (629.869 ha) is explored under G1 category except about 9.30 ha which is un-explored due to village habitation. As per approved Modification of Mining Plan no exploration as proposed to cover the balance area. Violation of Rule 45(5) (C) of MCDR, 2017 is pointed out for wrongly furnished reserves / resources in AR.		

#### 2.0 Development:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
2a	Location of Development w.r.t. lease area	KDE-1,KDE-2,KDE-3,KDW-1,KDW-2, KDW-3,KSE-1, KSW-2, KSW-3 and	Nil	Mining operation is temporarily discontinued since 11.10.2019 for

		SPD 10 pits proposed in three different blocks in the lease.		uneconomic operations.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in OB and Mineral proposed	Nil	Nil production
2c	Stripping ratio or ore to OB ratio	1:1.17	Nil	No development work carried out
2d	Quantity of topsoil generation in m <sup>3</sup>	255440 m <sup>3</sup>	Nil	No development work carried out
2e	Quantity of overburden generation in m <sup>3</sup>	2985651 m <sup>3</sup>	Nil	No development work carried out during the year
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	No development work carried out during the year and mining operation is temporarily discontinued since 11.10.2019 for uneconomic operations.		

### **3.0 Exploitation:**

S. N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
3a	Number of pits proposed for production	10 pits proposed (KDE-1,KDE-2,KDE-3,KDW-1,KDW-2, KDW-3,KSE-1, KSW-2, KSW-3 and SPD )	Not done	No work done due to mining operation is temporarily discontinued since 11.10.2019.
3b	Quantity of ROM mineral production proposed in tonne	2343810	Nil	Nil production
3c	Recovery of Salable/usable mineral from ROM production tonne	(65% of ROM) 1523478	Nil	-do-
3d	Quantity of mineral reject generation tonne	(25% of ROM) 585952	Nil	-do-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document	Not applicable	
3f	Quantity of sub-grade mineral generation	(10% of ROM) 234380	Nil	Nil production
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document	Not applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanised	Not done	Mining operation is temporarily discontinued since 11.10.2019.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed	No beneficiation study carried out	
3j	Provision of drilling & blasting in mineral benches	Dia: 100 mm Spacing: 3.0 m Burden: 2.5 m Depth: 3.0 m	Not done	Mining operation is temporarily discontinued since 11.10.2019.
3k	Provision of mining machineries in mineral benches	1. DTH Drills 06 nos. with 100 mm dia	Nil as per AR	-do-

		<p>2. Hydraulic Excavators 04 nos. with 3.0 CuM</p> <p>3. Hydraulic Excavators 09 nos. with 2.0 CuM</p> <p>4. Hydraulic Rock breaker 04 nos.</p> <p>5. Loaders 07 nos. with 2.5 CuM</p> <p>7. Dumpers 25 nos. with 35 metric tonne</p> <p>8. Diesel Tanker 01 no. with 2000 liters</p> <p>9. Water Tanker 02 nos. with 20000 liters</p> <p>10. Service Van 01 no.</p> <p>11. Explosive Van 01 no. with 3.0 Tonnes</p> <p>12. DG Set 01 no. with 50 KVA capacity</p> <p>13. Water Pump 01 no. with 5.0 HP</p> <p>14. Diesel Gen Set 01 no. with 100 KVA</p> <p>15. Portable Crushing and Screening Unit 03 nos. with 400 TPH</p> <p>16. Portable light mask 10 nos.</p>		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Mining operation is temporarily discontinued since 11.10.2019.	
3m	Total area covered under excavation /pits	152.79 ha up to end of plan period	29.430 ha during the year	Wrongly reported in AR, Violation of Rule 45(5) (C) of MCDR, 2017 is pointed out
3n	Ore to OB ratio for the pit/mine during the year	1: 1.17	Nil	Mining operation is temporarily discontinued since

				11.10.2019.
3o	Total area put in use under different heads at the end of year	Pit- 152.79 ha Topsoil-1 ha Mineral storage-1.55 Infra-0.5 ha Roads-1.45 ha Others-4.0 ha up to end of plan period	Pit- 29.430 ha Reclaimed and rehabilitated-376.563 Infra-1.450 ha Others-2.150 ha PMCP area-15.30 ha	Wrongly reported in AR, Violation of Rule 45(5) (C) of MCDR, 2017 is pointed out
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2016-17: 2249543	2016-17: 69243	Nil production reported since last two year (2020-21 & 2021-22) as mining operation is temporarily discontinued since 11.10.2019.
		2017-18: 2249925	2017-18: 538215	
		2018-19: 220149	2018-19: 0.00	
		2019-20: 1312015	2019-20:55641	
		2020-21: 1523478	2020-21: 0.00	
3q	General remarks of inspecting officer on method of mining etc	Mining operation is temporarily discontinued since 11.10.2019 for uneconomic operations.		

#### 4.0 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)	Yes	Not done	No topsoil and OB generated during the year as the mining operation is temporarily discontinued since 11.10.2019.
4b	Location of topsoil, OB & mineral reject dumps	10 different locations for concurrent backfilling (KDE-1, KDE-2, KDE-3, KDW-1, KDW-2, KDW-3, KSE-1, KSW-2, KSW-3 and SPD )	Not done	Area not prepared for backfilling.
4c	Number of dumps within lease area and outside lease area	No dumping has been proposed in the approved document	Not applicable	Concurrent backfilling proposed but the mining operation is temporarily discontinued since 11.10.2019.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable	
4e	Number of Active & Alive dumps	No proposal	Not	

			applicable	
4f	Number of dead dumps	No proposal	Not applicable	
4g	Number of dumps established	No proposal	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Not applicable	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Not applicable	
4j	Number of settling ponds	No proposal	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Concurrent backfilling proposed to use the generated solid waste but the mining operation is temporarily discontinued since 11.10.2019.		

#### **5.0 Solid Waste Management-Backfilling:**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Full extraction of minerals from mined out area	Nil	No new area developed for backfilling due to nil production reported since 11.10.2019
5b	Area under backfilling of mined out area	67.57 ha	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	255440 cum	Nil	-do-
5d	Total area fully reclaimed & rehabilitated	67.57 ha	Nil	-do-
5e	General remarks of inspecting officer on backfilling, reclamation etc	No new area developed for backfilling due to nil production reported since 11.10.2019.		

#### **6.0 Progressive Mine Closer Plan:**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2). Details should be given in the format as given in Annexure-20	PMCP report to be submitted	PMCP report submitted	
6b	Management of worked/mined out benches	Not specified	Not applicable	
	Area available for rehabilitation (Ha)	50 ha	Nil	
	Afforestation done (ha)	50 ha	Nil	Mining operation is temporarily discontinued since 11.10.2019.
	No. of saplings planted during the year	Not specified	20000 as per AR	

	Cumulative no. of plants	Not specified	Not applicable	
	Any other specific method of rehabilitation	Water Reservoir	Nil	
	Cost incurred on watch & care during the year	Not specified	Nil	No such specific information submitted.
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	Not specified	Not applicable	No new area developed for backfilling due to nil production reported since 11.10.2019.
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	Not specified	Not applicable	No new area developed for backfilling due to nil production reported since 11.10.2019.
6e	Compliance of Environment monitoring (core zone & buffer zone)	Regular monitoring of Ambient Air, Water and Noise Vibration has been proposed	Nil	No development and production carried out during the year 2020-21
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual report on PMCP submitted. No new area developed for backfilling due to nil production reported since 11.10.2019.		

### **7.0 Mineral Conservation:**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	1523478	NIL	Mining operation is temporarily discontinued since 11.10.2019.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Nil	
7c	Different grade of mineral sort out at mine	Nil	Nil	
7d	Any beneficiation process at mines	Dry Beneficiation through crushing and screening	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No productions carried out during the year due to temporarily discontinued since 11.10.2019.		



## 8.0 Environment:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	255440 cum	Nil	Nil production reported since last two years as mining operation discontinued
8b	Concurrent use or storage of topsoil	255440 cum	Nil	-do-
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not specified	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	2985651cum	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not specified	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not specified	20000 Nos as per AR	
8g	Survival rate	Not specified	85 % as per AR	
8h	Water sprinkling on roads to control airborne dust	Proposed for water sprinkling through water tanker on the roads	Not done	Nil production reported since last two years as mining operation discontinued
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	No productions carried out during the year due to temporarily discontinued since 11.10.2019.		

## 9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR submitted up to February 2022 AR submitted up to FY 2020-2021 dated 29.06.2021		
S N	Item	Details Given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Suraj Kumar Gupta Geologist: Not appointed Manager: Shri Jivitesh Kumar Anokhe	During inspection the Geologist was not present	Violation of Rule 55 of MCDR, 2017 is pointed out
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 29.430 ha Reclaimed and rehabilitated- 376.563 Infra-1.450 ha Others-2.150 ha PMCP area-	Wrongly furnished in AR	Violation of Rule 45(5) (C) of MCDR, 2017 is pointed out

		15.30 ha		
9d	Scrutiny of Annual return on afforestation	Within lease area-20000	As per AR reported	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	40.64 % and 64747 tonne	Incorrect information furnished in AR	Violation of Rule 45(5) (C) of MCDR, 2017 is pointed out
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening- 21156.210 T Production- 0.00 T Closing- 21156.210 T	Stock is reportedly stacked on quarry bottom.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale Value: Rs. 0.00 Ex. Mine Price: Rs. 0.00 Per Metric Tonne Cost of Production: Rs. 0.00 Per Metric Tonne	Nil production since 11.10.2017	
9i	Scrutiny of Annual return on Fixed assets	Rs. 98026000	Report as per Annual Return	
9k	Scrutiny of Annual return on mining Machineries	Nil	Not applicable	

10- (a) Details of violations observed during current inspection:-Rule 45(5)(C) and 55 of MCDR, 2017.

(b) Compliance position of earlier violation pointed out: - The violations pointed earlier have been complied.

Date: 06.04.2022

Signature:  
Name: Rudra Narayan Mihsra  
Designation: Senior Mining Geologist

Signature:  
Name: Prasant Kumar Sahu  
Designation: Assistant Mining Engineer