

**MCDR INSPECTION REPORT****1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Shri Ajay Tiwari, AGM (Mines)
3	Date of inspection	21/11/2019
4	Name of the Mine	Mainpat Bauxite Mine
5	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.
6	Mine Code	07MPR42002
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/602/2011
8	Name of the lessee, Address, phone, email and fax number	<b>Registered Office:</b> 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  <b>Local Correspondence Address:</b> M/s Bharat Aluminium Company Limited Engineering Building BALCO Nagar, Korba, Chhattisgarh – 495684 Phone/Fax: 07759-255043, 07759-255043 Email: rajesh.mishra@vedanta.co.in
9	Village	Kesra, Kudaridih and Sapnadar
10	Taluka / Mandal / District	Tehsil Mainpat, District: Sarguja
11	State	Chhattisgarh
12	Post office & PIN	Kamleshwarpur, Pin Code: 497 111
13	Nearest police station	Kamleshwarpur
14	Nearest Railway station	Ambikapur
15	Date of Grant of Mining Lease	09/07/1992 to 08/07/2012 (20 years)
16	Date of Execution	09/07/1992
17	Date of opening of Mine	29/03/1993
18	Date of first Renewal, if applicable and its period & expiry	As per section 8A of MMDR Amendment Act, 2015, Mining Lease period has been extended up to 50 years. i.e. 09/07/2012 to 08/07/2042 Supplementary lease agreement for extended period has been made on 30/07/2015
19	Date of second Renewal, if applicable and its period & expiry	Not applicable.
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.

**File No. CHG/SRG/BX-2/RPR**

21	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: 19/08/2019
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Rajesh Mishra, Head Bauxite Mine M/s Bharat Aluminium Company Limited Mines and Geology Department, Engineering Building, Balco Nagar, Korba, Distt. Korba (Chhattisgarh) – 495 684 Phone/Fax: +91 (0) 7759 - 255043, +91 (0) 7759 - 255043 Email: rajesh.mishra@vedanta.co.in Date of Appointment: 25/04/2018
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Ajay Tiwari, AGM (Mines) M/s Bharat Aluminium Company Limited Mainpat Bauxite Mine, Post: Kamleshwarpur, Tehsil: Sitapur District: Sarguja (Chhattisgarh) - 497 111 Phone: +91 (0) 9755091160 Fax: +91 (0) 7759 - 242139 Email: rajiv.kumar@vedanta.co.in Date of Appointment: 09/01/2017
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sunil Senapati Qualification: B.Tech. (Mining) Experience: +11 years M/s Bharat Aluminium Company Limited Mainpat Bauxite Mine, Post: Kamleshwarpur, Tehsil: Sitapur District: Sarguja (Chhattisgarh) - 497 111 Phone: +91 (0) 9755091113 Fax: +91 (0) 7759 - 242139 Email: sunil.senapati@vedanta.co.in Date of Appointment: 14/01/2015
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Appointed Shri Subhankar Patra Qualification: M.Sc. Tech. (Applied Geology) Experience: +1 year M/s Bharat Aluminium Company Limited Mainpat Bauxite Mine, Post: Kamleshwarpur, Tehsil: Sitapur District: Sarguja (Chhattisgarh) - 497 111 Phone: +91 (0) 9755000987 Fax: +91 (0) 7759 - 242139 Email: subhankar.patra@vedanta.co.in Date of Appointment: 25/01/2019
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<b>Mining Plan</b> vide letter no. 314(3)87/MCCM(C) Nagpur Dated 15/07/1988 Period: 1993-94 to 1997-98 <b>Mining Plan</b> vide letter no. 314(3)/2012- MCCM(CZ)/MP-07 Nagpur Dated 16/10/2012 Period: 2012-13 to 2016-17 (Start from 9th July 2012)

		<p><b>Modified Mining Plan</b> approved vide letter no. SRG/BXT/MPLN-46/2016/RPR Raipur Dated 26/09/2016 Period: 2016-17 to 2020-21</p> <p><b>Modified Mining Plan</b> approved vide letter no. SRG/BXT/MPLN/1169/2018/RPR Raipur Dated 22/11/2018 Period: 2018-19 to 2020-21</p>
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<p><b>1st Scheme of Mining</b> vide letter no. SRG/BX/MPLN-14/NGP Nagpur Dated 08/04/1999 Period: 1998-99 to 2002-03</p> <p><b>2nd Scheme of Mining</b> vide letter no. SRG/BX/MPLN-14/NGP Nagpur Dated 26/03/2004 Period: 2003-04 to 2007-08</p> <p><b>Modified Scheme of Mining</b> vide letter no. SRG/BX/MPLN-14/NGP Nagpur Dated 04/04/2004 Period: 2005-06 to 2007-08</p> <p><b>Modified Scheme of Mining</b> vide letter no. SRG/BX/MPLN-14/NGP Nagpur Dated 30/11/2006 Period: 2006-07 to 2007-08</p> <p><b>3rd Scheme of Mining</b> 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)</p>
28	Mineral(s) granted in lease and proved for mining	Bauxite
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Category 'A' Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Bauxite 0.75 Million Tonnes Per Annum obtained from the Ministry of Environment and Forests, Government of India vide letter no. J-11015/81/2007-IA New Delhi dated 17/09/2008 Valid up to 08/07/2042
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 4,79,25,000/- vide B.G. No. 0544BGR0146819 Dated 13/11/2018 Validity 13/11/2018 to 31/03/2021

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

**1.0 Exploration**

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration has been proposed during plan period.	As per the last approved document the entire except 9.30 ha. Populated area was explored by drilling of 50m. X 50m.	NIL

1b	Exploration over lease area for Geological axis 1 or 2.	-do-	-do-	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not given in the approved document.	No exploration has been done during F.Y. 2018-19	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration has been proposed during plan period.	As per the last approved document the entire except 9.30 ha. populated area was explored by drilling of 50m. X 50m.	-
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (111): 4.917 Million Tonnes Under (211): 2.184 Million Tonnes	Under (111): 4.917 Million Tonnes Under (211): 2.184 Million Tonnes	In the approved document estimation has been done as on 01/09/2018
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

## 2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	F.Y. 2018-19: In between local co-ordinates <b><u>Kudaridih (East) Block:</u></b> N775 to N925 and E1275 to E1328 <b><u>Kudaridih (West) Block:</u></b> 1. N2865 to N2878 and E360 to E405 2. N2810 to N2880 and E420 to E470 3. N2445 to N2735 and E300 to E720 4. N2422 to N2480 and E765 to E855 5. N2128 to N2314 and E230 to E388 6. N1755 to N2085 and E670	F.Y. 2018-19: In between local co-ordinates <b><u>Kudaridih (East) Block:</u></b> N650 to N1185 and E1265 to E1515 <b><u>Sapnadar Block(A)</u></b> Development and production of mineral has been observed along lease boundary pillar no. 03 to 05 at 7.5 m barrier zone without proposal and most of places 7.5m barrier zone has been mined out.	Less production has been observed during F.Y. 2018-19 due to less consumption of Low Grade Bauxite Ore/inferior quality in the captive plant. Deviation has been pointed out from the proposed area for development.

		to E720 7. N1990 to N2075 and E980 to E1090 8. N1078 to N1450 and E495 to E660 <b>Kesra Block:</b> 1. N520 to N725 and W2375 to W2575 2. N510 to N560 and W2675 to W2775 3. N1565 to N1680 and W2425 to W2530		
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil/OB: 01 no. Mineral/Ore: 01 no.	Topsoil/OB: 01 no. Mineral/Ore: 01 no.	-
2c	Stripping ratio or ore to OB ratio	1:1.13	1:1.16	-
2d	Quantity of topsoil generation in m3	23020.00 CuM	No topsoil has been generated as the entire production has been done in the existing quarry.	-
2e	Quantity of overburden generation in m3	228764.00 CuM	22750.00 CuM	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NIL		

### **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	12 nos.	01 no.	-
3b	Quantity of ROM mineral production proposed	338691.00 Metric Tonnes.	19650.00 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	75%	NIL	Saleable ore/mineral has not been segregated during F.Y. 2018-19
3d	Quantity of mineral reject generation	84673.00 Metric Tonnes (25% of ROM)	-do-	-do-
3e	Grade of mineral reject generation and threshold value declared	Grade has not been mentioned in the approved	Not applicable.	-

		document.		
3f	Quantity of sub-grade mineral generation	33869.00 Metric Tonnes (10% of ROM)	NIL	Saleable ore/mineral has not been segregated during F.Y. 2018-19
3g	Grade of sub-grade mineral generation	Grade has not been mentioned in the approved document.	Not applicable.	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Crushing and Screening has been proposed in the approved document for segregating of ROM	Being done as per proposal.	Mine 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 has been proposed in the mine during MMP period.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Dia: 100 mm Spacing: 3.0 m Burden: 2.5 m Depth: 3.0 m	Dia: 100 mm Spacing: 3.0 m Burden: 2.5 m Depth: 3.0 m	Mine is temporarily discontinued since 11/10/2019
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> <li>1. DTH Drills 06 nos. with 100 mm dia capacity</li> <li>2. Hydraulic Excavators 04 nos. with 3.0 CuM bucket capacity</li> <li>3. Hydraulic Excavators 09 nos. with 2.0 CuM bucket capacity</li> <li>4. Hydraulic Rock breaker 04 nos.</li> <li>5. Loaders 07 nos. with 2.5 CuM bucket</li> </ol>	<ol style="list-style-type: none"> <li>1. Hydraulic Excavator 02 nos. with 0.90 CuM bucket capacity</li> <li>2. Dumpers 02 nos. with 25.0 Metric Tonnes capacity</li> <li>3. Air Compressor 01 no. with 91.0 CUM/MN capacity</li> <li>4. Explosive Van 01 no. with 2.410 Metric Tonnes capacity</li> <li>5. Water Tanker 01 no. with 10000 liters capacity</li> </ol>	-

		<p>capacity</p> <p>6. Dozer 03 nos.</p> <p>7. Dumpers 25 nos. with 35 metric tonne capacity</p> <p>8. Diesel Tanker 01 no. with 2000 liters capacity</p> <p>9. Water Tanker 02 nos. with 20000 liters capacity</p> <p>10. Service Van 01 no.</p> <p>11. Explosive Van 01 no. with 3.0 Tonnes capacity</p> <p>12. DG Set 01 no. with 50 KVA capacity</p> <p>13. Water Pump 01 no. with 5.0 HP capacity</p> <p>14. Diesel Gen Set 01 no. with 100 KVA capacity</p> <p>15. Portable Crushing and Screening Unit 03 nos. with 400 TPH capacity</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	OB/Topsoil: 0.50 m to 3.50 m Mineral: 3.0 to 6.0 m	OB/Topsoil: 0.50 m to 3.50 m Mineral: 3.0 to 6.0 m	
3m	Total area covered under excavation/pits	152.79 Ha. up to end of MMP period.	390.330 Ha. up to end of F.Y. 2018-19	Deviation has been pointed out for excess utilization of the area.

3n	Ore to OB ratio for the pit/mine during the year	1:1.13	1:1.16	-
3o	Total area put in use under different heads at the end of year	<b>Pit-</b> 152.79 Ha. <b>Waste/reject-</b> NIL <b>Others-</b> 8.50 Ha.	<b>Pit-</b> 26.44 Ha. <b>Waste/reject-</b> 776.57 Ha. <b>Others-</b> 8.50 Ha.	Deviation has been pointed out for excess utilization of the area.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	<b>Yr- 2014-15:</b> 1156591.00 Metric Tonnes <b>Yr- 2015-16:</b> 1155508.00 Metric Tonnes <b>Yr- 2016-17:</b> 2999391.00 Metric Tonnes <b>Yr- 2017-18:</b> 2999902.00 Metric Tonnes <b>Yr- 2018-19:</b> 338691.00 Metric Tonnes	<b>Yr- 2014-15:</b> NIL Metric Tonnes <b>Yr- 2015-16:</b> 700.00 Metric Tonnes <b>Yr- 2016-17:</b> 106527.46 Metric Tonnes <b>Yr- 2017-18:</b> 840258.56 Metric Tonnes <b>Yr- 2018-19:</b> 19500.00 Metric Tonnes	-
3q	General remarks of inspecting officer on method of mining etc.	NIL		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	<b>Topsoil:</b> Separate and temporary stacking of topsoil near the backfilling area has been given in the approved document. <b>OB/waste:</b> OB and waste will be utilised for concurrent backfilling. <b>Mineral/Ore:</b> Mineral/Ore will be stacked separately within quarry.	Being done as per proposal.	-
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	<b>Topsoil:</b> Separate stacking near the mined out area has been proposed for spreading over the backfilled area. <b>OB/Waste:</b>	Being done as per proposal.  Mineral reject is below the threshold value of Bauxite, hence it has been	-



		Proposal has been given in the approved document for concurrent backfilling in the mined out area from the OB and waste. <b>Mineral Reject:</b> Mineral Reject will be utilised for backfilling in the mined out area.	utilised for reclamation. <b>Screen Reject:</b> in between Local Coordinates of <b>Sapnadar Block</b> (Within existing working quarry): N9455 to N9875 and E1875 to E2250 Approx 50927.00 Metric Tonnes of Screen Reject with Al <sub>2</sub> O <sub>3</sub> : 42.15% SiO <sub>2</sub> : 8.82%	
4c	Number of dumps within lease area and outside lease area	No dumping has been proposed in the approved document during MMP period.	Not applicable.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	-do-	-do-	-
4e	Number of active & alive dumps	-do-	-do-	-
4f	Number of dead dumps	-do-	-do-	-
4g	Number of dumps stabilised	Reclamation and rehabilitation has been proposed in the approved documents.	Concurrent backfilling is being done in the mined out area.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has not been given in the approved document for construction of retaining wall and garland drain.	Not applicable.	-
4i	Length of Retaining wall or garland drain all along dump	Not mentioned in the approved document.	Not applicable.	-
4j	Number of settling ponds	No proposal has been given in the approved document for construction of settling ponds.	Not applicable.	-
4k	Specific comments of inspecting officer	NIL		

**5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before	Concurrent backfilling in the mined out area has	Being done as per proposal.	-

	starting backfilling	been proposed in the approved document in the mined out area.		
5b	Area under backfilling of mined out area	6.0 Ha. area will be backfilled during F.Y. 2018-19.	No backfilling has been done during F.Y. 2018-19.	Less production has been done during F.Y. 2018-19
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposal has been given in the approved document for concurrent use of topsoil for ground restoration.	Being done as per proposal.	-
5d	Total area fully reclaimed & rehabilitated	20.00 Ha. area has been proposed for rehabilitation during F.Y. 2018-19	Infilling plantation has been done at already rehabilitated area to increase survival rate.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

**6.0 Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Submitted before due date	Cross verified during inspection.	-
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Concurrent backfilling has been proposed in the mined out area.	Not applicable.	-

6c	Compliance on reclamation and rehabilitation by backfilling			Less production has been done during F.Y. 2018-19
	i) Voids available for backfilling (L X B X D)	6.0 Ha.	Not done	
	ii) Void filled by waste/tailings	6.0 Ha.	Not done	
	iii) Afforestation on the backfilled area	20.0 Ha.	Not done	
	iv) Rehabilitation by making water reservoir	NIL	NIL	
v) Any other specific means	By plantation of 30000 nos. of saplings	NIL, Infilling plantation of 50000 nos. of saplings		
6d	Compliance of Rehabilitation of waste land within lease			Infilling plantation has been done at earlier rehabilitated area.
	i) Afforestation	20.0 Ha.	Not done	
	ii) Area rehabilitated (ha)	20.0 Ha.	Not done	
iii) Method of rehabilitation	By plantation	NIL		
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Regular monitoring of Ambient Air, Water and Noise Vibration has been proposed in the approved document.	Being done as per proposal.	All the parameters are within the prescribed limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

**7.0 Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sizing and sorting through mechanised crushing and screening has been proposed in the approved document before its dispatch from the mine.	Mechanised Crushing and Screening for grade wise sorting is being done in the mine before its dispatch.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised sizing and sorting has been proposed in the approved document.	Being done as per proposal.	-
7c	Different grade of mineral sorted out at mines	Grade wise sorting has been proposed in the approved document. 40% to below 45% Al <sub>2</sub> O <sub>3</sub>	Being done as per proposal.	-

7d	Any beneficiation process at mines	No beneficiation process has been proposed in the mine during plan period.	Not applicable.	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

**8.0 Environment**

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Proposal has been given in the approved document for separate removal and concurrent use of generated topsoil.	Being done as per proposal.	-
8b	Concurrent use or storage of topsoil	-do-	-do-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposal has been given in the approved document for concurrent backfilling through waste rock and generated topsoil for reclamation purpose.	Being done as per proposal.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-do-	-do-	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal has been given in the approved document for reclamation and rehabilitation of the mined out land.	Being done as per proposal.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	During F.Y. 2018-19, 30000 nos. of saplings will be planted over the backfilled area.	During F.Y. 2018-19: Infilling plantation of 50000 nos. of tress/saplings have been done at earlier rehabilitated area.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 70%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling through water tanker on the haul roads.	Being done as per the proposal.	-

8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL
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**9.0 Compliance of Rule 45**

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – December 2019 A.R. submitted upto- F.Y. 2018-19	NIL

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	<b>Mining Engineer:</b> Shri Sunil Senapati <b>Geologist:</b> Shri Pravaas Ranjan Chinara <b>Manager:</b> Shri Ajay Tiwari	<b>Mining Engineer:</b> Shri Sunil Senapati <b>Geologist:</b> Shri Subhankar Patra <b>Manager:</b> Shri Ajay Tiwari	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<b>Pit-</b> 26.44 Ha. <b>Waste/reject-</b> NIL <b>Others-</b> 776.57 Ha. Up to end of F.Y. 2018s-19	As per last approved document: <b>Pit-</b> 152.79 Ha. <b>Waste/reject-</b> NIL <b>Others-</b> 8.50 Ha. Up to end of F.Y. 2020-21	Deviation has been pointed out for excess utilization of the area.
9d	Scrutiny of Annual return on Afforestation	50000 nos. of infilling plantation at the existing rehabilitated area with survival rate 72%	Approx 50000 nos. of infilling plantation at the existing rehabilitated area with approx survival rate 70%	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject Quantity: NIL Grade: 25% Al <sub>2</sub> O <sub>3</sub> 15% SiO <sub>2</sub>	Mineral Reject Quantity: NIL Grade: 25% Al <sub>2</sub> O <sub>3</sub> 15% SiO <sub>2</sub>	As per the threshold value of Bauxite this grade is belongs to Aluminous Laterite.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock as on 31/03/2019: <b>ROM:</b> 19650.00 Metric Tonnes <b>Graded Ore:</b> 40% to below 45% Al <sub>2</sub> O <sub>3</sub> : 21284.450 Metric Tonnes	Closing Stock as on 31/03/2019: <b>ROM:</b> 19650.00 Metric Tonnes <b>Graded Ore:</b> 40% to below 45% Al <sub>2</sub> O <sub>3</sub> : 21284.450 Metric Tonnes	50,927.00 Metric Tonnes of screened ore with 42.15% Al <sub>2</sub> O <sub>3</sub> and 8.82% SiO <sub>2</sub> has not been included in graded ore.

9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL Ex-Mine Price: NIL Cost of Production: NIL	Sale Value: NIL Ex-Mine Price: NIL Cost of Production: During F.Y. 2018-19; 19500.00 Metric Tonnes of ROM has been produced hence, Cost of Production may not be considered as NIL/Zero	Deviation has been pointed out.
9i	Scrutiny of Annual return on fixed assets	Value: NIL	Value of Fixed assets are already been depreciated during earlier years.	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Cross verified from the approved proposal and field log books.	NIL

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

No outstanding violations have been found. No serious violations have been found during last inspection.

Date of Last Inspection, Name and Designation of the Inspecting Officer:

Shri Rajesh Kumar Das, Sr. Asstt. Controller of Mines, Date of Inspection: 15/10/2018

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
<b>Rule 11(1)</b>	The following deviations have been found in the mine from the approved Modified Mining Plan vide letter no. SRG/BXT/MPLN-1169/2018/RPR Raipur dated 22/11/2018 for the period of F.Y. 2018-19 to 2020-21: <b>F.Y. 2018-19:</b> <b>Development:</b> In the approved Modified Mining Plan, there was a proposal given for the production and development during the year 2018-19 from the Kudaridih (East) Block in-between Local coordinates N775 to N925 and E1275 to E1328. Whereas, production and development has been done in-between Local coordinates N650 to N1185 and E1265 to E1515. <b>Sapnadar Block (A):</b> In addition to the proposed area, development and production of mineral has been done along lease boundary pillar no. 03 to 05 at 7.5 m barrier zone without proposal and in most of places 7.5m barrier zone has been mined out
<b>Rule 14 (1) &amp; (2)</b>	Laterite with 25% Al <sub>2</sub> O <sub>3</sub> reported as Mineral Reject under Part V of Annual returns for F.Y. 2018-19, should be stacked separately as it has been notified as Bauxite under Category of Aluminous Laterite vide Gazette Notification for Threshold value of Mineral through Notification No. C-284/3/CMG/2017, Nagpur dated 25/04/2018 of Ministry of Mines (Indian Bureau of Mines).
<b>Rule 26 (1)</b>	During inspection, it has been found that several quarries within lease area are kept abandoned where the mineral has been mined out earlier and later on, no Protective Measures have been taken around these quarries. Hence, suitable Protective Measures should be taken around all non-working quarries.

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<b>Rule 27 (1)</b>	<b>Financial Year 2018-19:</b> It has been found that as per approved Modified Mining Plan, 159.74 Ha. lease area has been considered for calculation of Financial Assurance up to the end of the Plan Period whereas, 803.01 Ha. area has been utilized till the end of F.Y. 2018-19. Financial Assurance in the form of Bank Guarantee for the excess used area has to be submitted to the authorized officer.
<b>Rule 45(7)</b>	<b>Monthly Returns; April 2019 to December 2019:</b> <b>Part II (Production, Dispatches And Stock):</b> <b>2. Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore (Bauxite):</b> 50,927.00 Metric Tonnes of screened ore with 42.15% Al <sub>2</sub> O <sub>3</sub> and 8.82% SiO <sub>2</sub> has not been reported and reflected in this table. <b>Annual Return F.Y. 2018-19:</b> <b>Part V; General Geology &amp; Mining (Sec 1/2 for Bauxite):</b> 4.2 (c): Total quantity of Overburden/Waste removed during the year (tonnes) has not been mentioned. <b>Part VI; (Production, Dispatches And Stock):</b> <b>2. Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore (Bauxite):</b> 50,927.00 Metric Tonnes of screened ore with 42.15% Al <sub>2</sub> O <sub>3</sub> and 8.82% SiO <sub>2</sub> has not been reported and reflected in this table. <b>Part VII; Cost Of Production:</b> Production cost of 19500.00 Metric Tonnes of produced ROM during F.Y. 2018-19 should be computed and reported under Cost of Production.

(Name of the Inspecting Officer and Designation and Date)

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Indian Bureau of Mines, Raipur  
Date of Inspection: 21/11/2019