

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : BIH/GLA/BX/238/RRO

Mine code : 07BHR32021

- (i) Name of the Inspecting : **C001**) **N.K.CHATERJI**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : S/SRI B.C.KUILA AND B.N.MISHRA, REPRESENTATIVE OF LES
Official with
Designation
- (iv) Date of Inspection : 10/02/2017
- (v) Prev.inspection date : 25/07/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KUJAAM (78.74)**
- (b) **Registration NO.** : **IBM/4211/2011**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : JHARKHAND
- District : GUMLA
- Village : KUJAM
- Taluka : BISHUNPUR
- Post office : JOBHIPAT
- Pin Code :
- FAX No. : NIL
- E-mail : NIL
- Phone : 06526-24075
- (f) **Police Station** : BISHUNPUR
- (g) **First opening date** : 01/05/1990
- (h) **Weekly day of rest** : MON
2. **Address for** : VILL-KUJAM
correspondance BISHNUPUR
DIST-GUMLA
3. (a) **Lease Number** : BHR0228
- (b) **Lease area** : 76.4
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 27/03/2010
4. **Mineral worked** : BAUXITE Main

5. Name and Address of the

Lessee : G.C.P. AGARWAL
 EAST GOLA ROAD UPPER BAZAR
 LOHARDAGA LOHARDAGA
 JHARKHAND
 Phone:06526-24075(R) ,24083(O)
 FAX :

Owner : GYAN CHAND PRASAD AGARWAL
 EASTGOLA ROAD, LOHARDAGA,
 LOHARDAGA JHARKHAND
 Phone: 06526-24075(R),
 FAX :

Agent : SRI A.K.SRIVASTAVA
 C/O GYANCHAND PRASAD
 AGARWAL, EAST GOLA ROAD,
 UPPER BAZAR, LOHARDAGA-
 835302 LOHARDAGA JHARKHAND
 Phone: 06526-224075
 FAX :

Mining Engineer

Name : DHANANJAY KUMAR SINGH,Full Time
 Qualification : AMIE (MINING)
 Appointment/ : 01/11/2014
 Termination date

Manager

Name : SRI D.K.SINGH
 Qualification : B.E(MIN)
 Appointment/ : 01/11/2014
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	21/12/1988
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	17/06/1996
		Mining Scheme rule 12 MCDR1988	11/08/2003
		Renewal under rule 24 MCR1960	21/06/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was proposal in the last approved Mining Plan dated 21.06.2012, valid for the plan period 2010-11 to 2014-15(2010-11 & 2011-12 were lapse period) that, 11 nos. of infilling boreholes will be given during each of 2012-13 and 2013-14, i.e total 22 infilling boreholes will be given during the plan period.	The proposed boreholes were not given during 2012-13 and 2013-14 as the mine became non-operative from 18.06.2012 to March 2014 for want of EC. Backlog of previous 22 boreholes still existed on the date of inspection. Violation letter was issued to the party vide this office letter no. BIH/GLA/BX/238/RRO Vol. II, dated 29.05.2017 for non-compliance of exploration proposal. On the date of inspection the mine was not in operation.	The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.
1b	Exploration over lease area for geological axis 1 or 2	As per last approved Mining Plan dated 21.06.2012 During the plan period 2012-13 and 2013-14, there was proposal of 22 BH for Geological axis 1 and 2.	The proposed boreholes were not carried out during 2012-13 and 2013-14 as the mine became non-operative from 18.06.2012 to March 2014 for want of EC. However, during September, 2011, altogether 31 nos. of DTH were given covering almost entire lease area leaving 7.5m safety barrier for G1 and G2 axis on a grid interval of 100m X 100m with total meterage of 376.58m. The maximum and minimum depth of holes were 13.1m and 12m respectively.	From March, 2016, the mine became non-operative for extension of lease.

1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal was there in the last approved Mining Plan dated 21.06.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 & 2011-12 were lapse period).	No information was available in this context.	--
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per last approved Mining Plan dated 21.06.2012, twentytwo (22) nos. of infilling boreholes were proposed for G1 and G2 level during the year 2012-13 and 2013-14 with 11 nos. of BH in each of the two years.	The proposed 22 nos. of infilling boreholes could not be given as the mine became non-operative from 18.06.2012 to March, 2014 for want of EC. Total lease area was explored previously by giving 31 nos. of DTH, hence there is no balance area to be explored.	The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.

1e	Balance reserve as on 01/04/20	As per last approved Mining Plan, dated 21.06.2012 valid for the plan period 2010-11 to 2014-15 (2010-11 & 2011-12 were lapse period), the Reserve/Resou rce position as on 01.04.2012 was as given below:- i. Proved(111): 4771476.00 MT; ii. Probable(122) : 1264262.00 MT; iii. Feasibility Mineral Resource(211) : 2065738.00 MT; and iv. Pre- Feasibility Mineral Resource(222) : 413712.00 MT.	After depleting the production figure of 94934.324 MT for the year 2012-13 to 2015- 16, the Reserve/Resource position as on 01.04.2016 was as given below:- Proved(111): 4676541.676 MT; ii. Probable(122): 1264262.00 MT; iii. Feasibility Mineral Resource(211): 2065738.00 MT; and iv. Pre-Feasibility Mineral Resource(222): 413712.00 MT.	Further, after depleting the production during 2016-17 as Nil production, the Reserve(111) position as on 01.04.2017, will remain the same as on 01.04.2016.
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1f	General remarks of inspecting officers on geology, exploration etc	No valid approved proposal was available. The Aluminium ore of the lease area was predominantly Gibbsite (Trihydrate). The topmost layer of the deposit was of Top soil with maximum thickness of about 1.8m, followed by Laterite/Morrum with maximum thickness of about 3.5m. The Aluminium Ore lies below Laterite/Morrum with maximum thickness of about 6m followed by lithomargic clay with maximum thickness of 2.0m. There was proposal of exploration through 22 BHs during the plan period 2012-13 & 2013-14.	The Bauxite deposit are mostly associated with high level Laterite, occur as thin, irregular and discontinuous lenses or tabular bodies within the Laterite capping. The lithosection encountered in the lease was as follow:- i. Top soil: 1.8m(Max); ii. Laterite/Morrum: 3.5m; iii. Aluminium Ore: 6m and iv. Lithomargic Clay: 2.0m. Lessee had carried out exploration in the area by giving 31 nos. of DTH under G1 and G2 level.	The mine became non-operative from 18.06.2012 to March 2014 for want of EC. The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.
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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	No valid approved proposal was available from 2015-16 onwards. As per last approved Mining Plan dated 21.06.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 & 2011-12 were lapse period), it was proposed to develop Quarry no. 4(on the Northern part of lease), Quarry no. 1B(on the SW part of lease area) and Quarry no. 2A(on the SE part of lease) during the plan period 2010-11 to 2014-15. During the year 2014-15, Quarry no. 4 and 2A were proposed to be developed.	All the three quarraries viz. Quarry no. 4(on the Northern part of lease), Quarry no. 1B(on the SW part of lease area) and Quarry no. 2A(on the SE part of lease) were developed partly as the mine became non-operative from 18.06.2012 to March 2014 for want of EC, the proposed development could not be achieved within time schedule. During April, 2014 to February, 2016, quarry no. 4 and 2A were worked as reported by the mine management. Altogether 11 nos. of quarries were opened in the lease area.	The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.
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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	As per last approved Mining Plan (2010-11 to 2014-15), it was proposed to develop 01 bench each in Soil(as per available thickness), Laterite/Morrum(Max. 3.2m) and Ore (6m) during the plan period 2010-11 to 2014-15(2010-11 was lapse period).	As per proposal separate benches were developed in Top soil, OB(Laterite/Morrum) and Ore. The height of benches were within the stipulated limit. The quarry wise bench dimension is given below:- i. Q1: 135m X 60m X 4.5m(Backfilled); ii. Q1A: 160m X 45m X 4.5m[OB-1 bench(1.5m) & Ore-1 bench(3m)]; iii. Q1B: 75m X 30m X 4.5m[OB-1 bench(1.5m) & Ore-1 bench(3m)]; iv. Q1C: 90m X 30m X 4.5m[OB-1 bench(1.5m) & Ore-1 bench(3m)]; v. Q2: 235m X 95m X 6m[OB-2 benches(1.5m) & Ore-1 bench(3m)];	vi. Q2A: 90m X 14m X 5m[OB-2 benches(1.5m) & Ore-1 bench(2m)]; vii. Q3: 125m X 65m X 4m(Backfilled); viii. Q3A: 150m X 30m X 3.5m(Backfilled); ix. Q3B: 50m X 25m X 5m[OB-2 benches(1.5m) & Ore-1 bench(2m)]; x. Q4: 550m X 80m X 5m[OB-2 benches(1.5m) & Ore-1 bench(2m)]; xi. Q4A: 60m X 30m X 4m[OB-1 bench(1.5m) & Ore-1 bench(2.5m)].
2c	Stripping ratio or ore to OB ratio	No valid approved proposal was available after 2014-15 onwards. As per last approved Mining Plan, the overall stripping ratio during the period 2010-11 to 2014-15, was proposed to be 1:1.5	During 2015-16 the Ore to OB ratio was 1:0.6 The production during 2015-16 was 74765.961 MT and the OB/Waste removal was 44859 cu.m (89718 MT).	The mine was not in operation during 2016-17.

2d	Quantity of topsoil generation in m3	No valid approved proposal was available from 2015-16 onwards. As per last approved Mining Plan dated 21.06.2012, the proposed Top Soil generation during the plan period 2010-11 to 2014-15 (2010-11 to 2011-12 were lapse period) was 161193 MT. The proposed year wise top soil generation during the plan period was as given below:- i. 2010-11: N.A(Lapse period); ii. 2011-12: N.A(Lapse period); iii. 2012-13: 45797 MT; iv. 2013-14: 58280 MT; and v. 2014-15: 57117 MT.	Top Soil generation figure was not available.	--
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2e	Quantity of overburden generation in m ³	No valid approved proposal was available. The proposed OB/Waste generation as given in the last approved Mining Plan for the period 2010-11 to 2014-15 was given as 835535 MT. The proposed year wise OB generation was as given below:- i. 2010-11: 75000 MT; ii. 2011-12: 35200 MT; iii. 2012-13: 197202 MT; iv. 2013-14: 295210 MT; and v. 2014-15: 341424 MT.	Year wise OB generation is as given below:- i. 2010-11: 24600 MT; ii. 2011-12: 33500 MT; iii. 2012-13: 13500 MT; iv. 2013-14: Nil; v. 2014-15: 18910 MT; vi. 2015-16: 89718 MT and vii. 2016-17: Nil.	The mine was not in operation during 2016-17.
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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No valid approved proposal was available. As per last approved Mining Plan valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), it was proposed to develop Quarry no. 4 (on the North The deposit was of massive type with predominantly Bohemitic (Trihydrate, $Al_2O_3 \cdot 3H_2O$), Gibbsitic (Monohydrate, $Al_2O_3 \cdot H_2O$) ore also occurred in the area.	The mine was in operation during the period 2010-11 to 2014-15 except during 2013-14 and had worked within quarry no. 1B, 2A & 4 partly. The mine became non-operative from 18.06.2012 to March 2014 for want of EC, the proposed development could not be achieved within time schedule. The production level was much lower than the proposed one. During 2013-14, no production was reported from the mine. During 2016-17, the mine was not in operation. The Quarry dimension has been given at para no. 2(b).	The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a Number of pit proposed for production	<p>No valid approved proposal was available. As per last approved Mining Plan dated 21.06.2012, valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), it was proposed to develop Quarry no. 1B, 2A and 4 during the plan period. During the year 2014-15, Quarry no. 4 and 2A were proposed to be developed for proposed production.</p>	<p>All the three quarraries viz. Quarry no. 1B, 2A and 4 were developed partly as the mine became non-operative from 18.06.2012 to March 2014 for want of EC, the proposed development could not be achieved within time schedule. The production was reported from Quarry no. 1B, 2A & 4.</p>	<p>The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.</p>
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3b	Quantity of ROM mineral production proposed	No valid approved proposal was available from 2015-16 onwards. As per last approved Mining Plan, during the year 2014-15, the proposed production of Bauxite was 401990 MT and during the period 2010-11 to 2014-15, the approved year wise proposal of Bauxite production was as given below: i. 2010-11: 15166 MT(Actual); ii. 2011-12: 11588 MT(Actual); iii. 2012-13: 301409 MT; iv. 2013-14: 349655 MT; v. 2014-15: 401990 MT.	Actual year wise production during the period 2010-11 to 2014-15 is as given below:- i. 2010-11: 15166 MT; ii. 2011-12: 11588 MT; iii. 2012-13: 4617.75 MT; iv. 2013-14: Nil; v. 2014-15: 15550.613 MT; vi. 2015-16: 74765.961 MT; and vii. 2016-17: Nil.	The mine was not in operation during 2016-17.
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3c	Recovery of sailable/usable mineral from ROM production	No valid approved proposal was available. However, as last approved Mining Plan dated 21.06.2012, valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), the recovery of saleable Bauxite ore was proposed to be around 80% of total ROM.	In actual practice the recovery during 2015-16 was around 45-50% due to high OB and bouldary nature of the deposit.	--
3d	Quantity of mineral reject generation	There was no proposal for Mineral Reject generation in the last approved Mining Plan.	No Mineral Reject generation has been reported from the mine during the year 2015-16.	--
3e	Grade of mineral rejects generation and threshold value declared.	As there was no proposal for Mineral Reject generation hence grade of mineral reject is irrelevant. The Threshold value of Bauxite is Al ₂ O ₃ - 30% with SiO ₂ - < 5%. As the av. grade of ore produced is >40% Al ₂ O ₃ .	No Mineral Reject generation has been reported from the mine during 2014-15, hence grade of mineral reject is irrelevant. The Threshold value of Bauxite is Al ₂ O ₃ - 30% with SiO ₂ - < 5%. As the av. grade of ore produced is >40% Al ₂ O ₃ .	--

3f	Quantity of sub grade mineral generation.	There was no proposal for Sub-grade mineral generation in the last approved Mining Plan.	No sub-grade Bauxite production was reported from the mine during the year 2015-16. However, whatever low grade materials were generated from the mine were blended with high grade material before dispatch, maintaining the requisite grade. Thus mineral wastage was avoided and ascertaining mineral conservation aspect.	--
3g	Grade of sub grade mineral generation	There was no proposal for Sub-grade mineral generation hence grade of the same is not applicable.	Not applicable as there was no sub-grade generation reported from the mine during 2015-16.	--
3h	Manual / Mechanised method adopted for segregating from ROM	As per last approved Mining Plan, manual method was proposed for segregating from ROM. Total ROM was proposed to be sorted out by hand picking at mine site. Only the large lumps of Bauxite of the lateritic contact zone was proposed to be broken into small pieces up to 10 cm in size to prevent Iron and Silica contamination of lateritic zone.	The Bauxite ore after blasting was segregated manually from ROM. The large lumps of Bauxite were broken into small pieces(10 cm size).	--

- 3i Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. There was no proposal in the last approved Mining Plan, valid for the plan period 2010-11 to 2014-15 (2010-11 to 2011-12 were lapse period), regarding analysis or beneficiation study for sub-grade mineral and reject. As there was no sub-grade and mineral reject generation reported from the mine hence no such analysis or beneficiation study of sub-grade mineral and reject have been carried out at the mine. --
- 3j Provision of drilling and blasting in mineral benches As per last approved Mining Plan dated 21.06.2012, there was proposal for drilling and blasting wherever required, in the mineral benches. In OB and Ore, the depth of holes were propopsed to be 3.3m and 6.6m respectively(including 10% of SG drilling) and Burden and Spacing were proposed to be kept at 1m X 1.5m in OB and at 3m X 3.5m in Ore. As per proposal, bore holes were done in hard formation by Wagon drill having 100 mm dia. The holes were made upto 3.3 m both in Laterite & Bauxite formation with burden and spacing were maintained at 1m & 1.5m for OB and 3m & 3.5m for Bauxite. Each hole was charged with ANFO with booster in different quantity for Laterite & Bauxite horizon. Shot firing was done with Safety Fuse(SF) and Ordinary Detonator(OD). --

3k	Provision of mining machineries in mineral benches	<p>No valid approved proposal was available. However, there was proposal for using machinery in mineral bench in the last approved Mining Plan dated 21.06.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 to 2011-12 were lapse period). It was proposed to use Wagon drill(100mm), Excavator(0.9 cu.m), JH drill, Compressor(300 cfm) and Dumper(10MT) during the plan period.</p>	<p>During 2015-16, the machinery used were as given below:-</p> <ol style="list-style-type: none"> 1. Wagon drill- 100 mm dia (01 no.); 2. JCB Excavator- 0.2 cu. (04 nos.); 3. Dumper- 20 Tes (02 nos.); 4. Truck- 10 (Av.); and 5. Compressor- 300 cfm (01 no.). 	<p>The mine was not in operation during 2016-17 for extension of lease.</p>
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31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No valid approved proposal was available after 2014-15 onwards. However as per last approved Mining Plan, bench height in OB and Ore was proposed to be kept within 3m and 6m respectively and bench width was proposed to be kept within 6m (Max), which was in conformable with the proposed method of working under 'A'-FM category of opencast mining.	In actual practice the height and width of the benches were maintained within 3m X 5m both in Ore and OB. The bench dimension as maintained was found to be suitable with the proposed method of mining under 'A'-FM category of opencast working.	--
3m	Total area covered under excavation/pits	No valid approved proposal was available for the period 2014-15 onwards. There was proposal to excavate 9.16 Ha area during the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period) and upto the plan period 2014-15, a cumulative of about 17.24 Ha area was proposed to be excavated.	Upto 2015-16, a cumulative of about 20.62 Ha area was covered under excavation as reported. During the year 2015-16, about 4.84 Ha area was covered under excavation.	During 2015-16, the mine was not in operation hence, upto 2016-17 about 20.62 Ha area was covered under excavation.

3n	Ore to OB ratio for the pit/mine during the year.	No valid approved proposal was available after 2014-15 onwards. As per last approved Mining Plan, the overall stripping ratio during the period 2010-11 to 2014-15, was proposed to be 1:1.5	During 2015-16 the Ore to OB ratio was 1:0.6 The production during 2015-16 was 74765.961 MT and the OB/Waste removal was 44859 cu.m (89718 MT).	The mine was not in operation during 2016-17.
3o	Total area put in use under different heads at the end of year	No valid approved proposal was available for the period 2015-16 onwards. However, as per last approved Mining Plan, the total area put to be used at the end of 2014-15, was proposed to be as under:- i. Quarry-17.24 Ha (Including 7.41 Ha of backfilling area); ii. Road- 1.82 Ha; iii. Green belt- 1.37 Ha; iv. Infrastructure - 0.36 Ha; v. O.B dump- 0.44 Ha; vi. Reservoir (Rehabilitated area)- 0.44 Ha. vii. Total area put to be under use- 54.73 Ha out of total lease area of 76.40 Ha.	Upto 2015-16 and 2016-17, the total area put to use was as under:- i. Quarry: 20.62 Ha (Including backfill of 3.38 Ha); ii. OB dump: 1.78 Ha; iii. Infrastructure- 0.36 Ha; iv. Road: 1.82 Ha; v. Reservoir: 0.44 Ha; vi. Green belt: 0.95 Ha; vii. Total area put to use- 25.97 Ha; viii. Balance land unused- 50.43 Ha, out of total lease area of 76.40 Ha.	The last approved Mining Plan was valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period).

3p	Production of ROM mineral during the last five year period as applicable	No valid approved proposal was available from 2015-16 onwards. As per last approved Mining Plan, during the year 2014-15, the proposed production of Bauxite was 401990 MT and during the period 2010-11 to 2014-15, the approved year wise proposal of Bauxite production was as given below: i. 2010-11: 15166 MT(Actual); ii. 2011-12: 11588 MT(Actual); iii. 2012-13: 301409 MT; iv. 2013-14: 349655 MT; v. 2014-15: 401990 MT.	Actual year wise production during the period 2010-11 to 2016-17 was as given below:- i. 2010-11: 15166 MT; ii. 2011-12: 11588 MT; iii. 2012-13: 4617.75 MT; iv. 2013-14: Nil; v. 2014-15: 15550.613 MT; vi. 2015-16: 74765.961 MT; and vii. 2016-17: Nil.	The mine was not in operation during 2016-17.
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3q	General remarks of inspecting officers on method of mining etc.	As per last approved Mining dated 21.06.2012, valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), the mine was proposed to be operated by opencast method under 'A'-FM category with bench dimension of 6m X 6m(Max) both in OB and Ore.	As per approved Mining Plan, 'A' F.M method of mining was adopted in the mine with stipulated bench dimension. Certain deviations in working was observed, which were pointed out to party through Violation letter issued vide this office letter no. BIH/GLA/BX/238/RRO, dated, 29.05.2017. The reply from the party is awaited. The mine was in operation through contractors.	The mine became non-operative from 18.06.2012 to March 2014 for want of EC. The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No valid approved proposal was available after 2014-15. As per last approved Mining Plan, during the plan period 2010-11 to 2014-15, there was no proposal for separate dumping of Top soil OB/waste within the lease area as concurrent backfilling was proposed.	There was separate dumping of Top soil and OB/Waste material within the lease area. There was no Mineral Reject dump within the lease area. There were total eight (08) nos. of dumps existed in the lease area, of which 4 nos. were of Top soil and 4 nos. were of OB/Waste material. The Top soil dump covered 0.45 Ha area and the OB/Waste dump covered 1.33 Ha area.	--

4b	Location of topsoil, OB and mineral reject dumps	No valid approved proposal was available. As per last approved Mining Plan, during the plan period 2010-11 to 2014-15 (2010-11 to 2011-12 were lapse period), there was no proposal for separate dumping of Top soil OB/waste within the lease area as concurrent backfilling was proposed.	Total eight (08) dumps existed in the lease area. Four nos. of old OB/Waste dump and four nos. of Top soil dump were located within the lease area. The dumps were scattered throughout the lease area.	The mine became non-operative from 18.06.2012 to March 2014 for want of EC. The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.
4c	Number of dumps within lease area and outside of lease area	No valid approved proposal was available. As per last approved Mining Plan, there was no proposal for dump within the lease area as concurrent backfilling was proposed.	All the eight (08) dumps of Top Soil, Laterite/Morrum(OB/Waste) existed within the lease area. The dumps were scattered throughout the lease area. The dimension of dumps were as given below:- i. TS Dump no. 1: 20m X 9m X 2m; ii. TS Dump no. 2: 45m X 50m X 4m; iii. TS Dump no. 3: 16m X 12m X 6m; iv. TS Dump no. 4: 40m X 47m X 7m; v. OB/Waste Dump no. 1: 15m X 16m X 4m; vi. OB/Waste Dump no. 2: 55m X 30m X 6m; vii. OB/Waste Dump no. 3: 100m X 60m X 11m; viii. OB/Waste Dump no.4: 90m X 60m X 1.5m.	--
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal was available.	All the four OB/Waste dumps were located outside Ultimate Pit Limit and the Top soil dumps (4 nos.) were located within UPL.	--

4e	Number of active and alive dumps.	As per last approved Mining Plan dated 21.06.2012, valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), there was no proposal of active and alive dump within the lease area.	All the eight (08) existing dumps were active upto the period of its operation, i.e upto February, 2016 and were rehandled for backfilling/reclamation of the voids in the lease area as concurrent backfilling was also under way.	The mine was not in operation during 2016-17.
4f	Number of dead dumps.	As per last approved Mining Plan, there was no proposal of dead dump.	There was no dead dump within the lease area.	--
4g	Number of dumps established.	As per last approved Mining Plan, there was no proposal of dumping within the lease area as simultaneous backfilling was proposed hence dump establishment was not applicable.	No dump was established as dumps were active and simultaneous back filling was also under process.	--
4h	Whether Retaining wall or garland drain all along dumps are there.	No valid approved proposal was available after 2014-15 onwards. As per last approved Mining Plan dated 21.06.2012, No proposal was available.	The retaining wall and garland drain were not constructed as simultaneous backfilling was also under process.	--

4i	Length of Retaining wall or garland drain all along dumps	Not applicable as no proposal of construction of Retaining wall and Garland drain were there in the last approved Mining Plan.	No retaining wall and garland drain were constructed as there was no such proposal.	--
4j	Number of settling ponds	There was no such proposal of creation of Settling Pond within the lease, in the last approved Mining Plan valid for the plan period 2010-11 to 2014-15 (2010-11 to 2011-12 were lapse period).	No settling pond was created in the lease area.	--
4k	Specific comments of inspecting officer on waste dump management	No valid approved proposal was available for the period 2014-15 onwards. As per last approved Mining Plan, valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), there was no proposal of dumping of Top soil and OB/Waste material within the lease area as simultaneous backfilling and spreading of Top soil were proposed.	Lessee had created 08 nos. of dumps (04-Top soil and 04- OB/Waste) within the lease area which were active. Height of the Dumps varied from 1.5-11m. The high dumps were terraced for its stabilization. Simultaneous backfilling was also under way. Hence no problem on waste dump management was faced as such.	The mine became non-operative from 18.06.2012 to March 2014 for want of EC. The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.

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.	No valid approved proposal was available for the period 2014-15 onwards. As per last approved Mining Plan, valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), it was proposed that, concurrent backfilling along with top soil spreading will be carried out. Thus backfilling was proposed to commence before full extraction of mineral.	During 2015-16, backfilling in quarry no. 1B, 2A and 4 was in progress. During 2016-17, the mine was not in operation.	--
5b	Area under backfilling of mined out area	No valid approved proposal was available after 2014-15 onwards. However, as per last approved Mining Plan, there was proposal for backfilling of about 7.41 Ha of void area within the lease during the valid plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period).	Upto 2015-16, about 3.38 Ha area was backfilled.	The mine was not in operation during 2016-17.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	As per approved Mining Plan there was proposal for concurrent spreading of top soil over an area of 0.21 Ha of backfilled area after mining of Mineral. There was also proposal for creation of reservoir, as rehabilitative measure, over an area of 0.44 Ha.	Simultaneous spreading of top soil over backfilled was carried out over 3.38 Ha area. About 0.44 Hc area has been covered under water reservoir and Green belt covered about 0.95 Ha area.	--
5d	Total area fully reclaimed and rehabilitated	No valid approved proposal was available. During the last approved plan period of 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), there was proposal for backfilling of about 7.41 Ha area out of 17.24 Ha of excavated area. There was proposal for creation of water reservoir over an area of 0.44 Ha during the plan period. It was proposed that there will be simultaneous spreading of top soil over an area of 0.21 Ha of backfilled area.	In actual practice about 3.38 Ha area was totally backfilled/reclaimed upto 2015-16. About 0.95 Hc area has been covered under plantation and 0.44 Ha area of water reservoir.	--

5e	General remarks of inspecting officers on backfilling and reclamation etc.	As per last approved Mining Plan dated 21.06.2012, valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), there was proposal of backfilling/reclamation of about 7.41 Ha out of 22.37 Ha of excavated area within the lease. There was proposal for creation of water reservoir over an area of 0.44 Ha during the plan period. It was proposed that there will be simultaneous spreading of top soil over an area of 0.21 Ha of backfilled area.	As per available record, about 3.38 Ha area has been covered under backfilling/reclamation upto 2015-16. About 0.95 Hc area was covered under plantation and 0.44 Ha area of water reservoir near Quarry no. 2A on the Eastern part of lease. The lessee is lagging behind the targetted production, backfilling/reclamation work in quarry no. 1B, 2A & 4 as the mine became non-operative from 18.06.2012 to March 2014 for want of EC.	The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.
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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	No such proposal was there in the last approved Mining Plan dated 21.06.2012, valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period).	The Annual Report on PMCP under Rule- 26(2) of MCDR, 2017 was submitted by the party for the period 2015-16.	The mine was not in operation during 2016-17.

6b	Area available for rehabilitation (ha) .	No valid approved proposal was available after the period 2014-15 onwards. During the plan period 2010-11 to 20104-15 about 1.37 Ha area was proposed for creation of Green belt and 0.44 Ha area was proposed for creation of Water reservoir.	Upto 2016-17 (January, 2017), about 0.95 Ha area was covered under Green belt and 0.44 Ha area was covered under water reservoir.	--
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6c	afforestation done (ha).	No valid approved proposal was available after 2014-15 onwards. As per last approved proposal, 1008 nos. of plantation were to be done along the lease boundary during the plan period 2012-13 and 2013-14 and over backfilled area of Quarry no. 1A on the SW part of the lease during 2014-15 covering a total area of about 0.63 Ha. The proposed plantation during the plan period is given below:- i. 2012-13: 288 nos.(0.18 Ha); ii. 2013-14: 384 nos.(0.24 Ha), and iii. 2014-15: 336 nos(0.21 Ha).	About 760 nos. of plantation was reported against the proposal, for which Violation letter was issued to the party vide this office letter no. BIH/GLA/BX/238/RRO. Vol. II, dated, 29.05.2017.	--
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6d	No. of saplings planted during the year	No valid approved proposal was available after 2014-15 onwards. As per last approved proposal, 336 nos. of plants were to be planted covering 0.21 Ha over backfilled area of Quarry no. 1A during the plan period 2014-15.	During 2014-15 and 2015-16, each year, about 100 nos. of plantation were done. During 2016-17, no plantation was done in the lease area.	The mine was not in operation during 2016-17.
6e	Cumulative no .of plants	There was no proposal for cumulative plantation. However, during the plan period 2010-11 to 2014-15, 1008 nos. of plantation were to be done covering 0.63 Ha area. No further proposdal was available.	On cumulative basis about 760 nos. of plantation were done by the lessee upto 2015-16 covering 0.95 Ha area. No plantation was done during 2016-17.	--
6f	Any other method of rehabilitation	No other proposal was available in the last approved Mining Plan dated 21.06.2012. No further valid approved proposal was available.	Not applicable.	--
6g	Cost incurred on watch and care during the year	No proposal available in the last approved M.P.	No information on cost incurred on watch and care was available.	--

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No valid approved proposal was available after 2014-15 onwards. As per last approved Mining Plan, about 7.41 Ha area was proposed to be backfilled during the approved plan period of 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period). The dimension of void proposed to be available for backfilling was not available.	Backfilling/Reclamation figure is available in terms of area only and not in dimension. About 3.38 Ha area was backfilled upto 2015-16 in Quarry no. 1B, 2A and 4.	The mine was not in operation during 2016-17.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	There was proposal for 7.41 Ha of backfilling in the last approved Mining Plan valid for the plan period 2010-11 to 2014-15(2010-11 to 2011-12 were lapse period) by using about 835535 MT of OB/Waste material.	Upto 2015-16 about 3.38 Ha area was backfilled. The material used for backfilling was not available.	--

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No valid approved proposal was available after 2014-15 onwards. However, there was proposal of afforestation over an area of 0.21 Ha on backfilled area during the year 2014-15.	Very little plantation was done over backfilled area in Quarry no. 1B and 2A upto 2015-16. The mine was not in operation as on date of inspection.	--
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	There was proposal for construction of water reservoir over an area of 0.44 Ha, in the last approved Mining Plan.	Water reservoir was constructed over an area of 0.44 Ha on the Eastern part of the lease and West of quarry no.2A.	--
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	As per last approved Mining Plan, there was no other proposal.	Not applicable.	--
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	As per last approved Mining Plan dated 21.06.2012, there was no recorded Waste land within the lease area.	Not applicable.	--
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	There was no such proposal as no waste land existed in the lease area.	Not applicable.	--
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	As per last approved Mining Plan, no proposal was available.	Not applicable.	--

6p	Compliance of environmental monitoring (core zone and buffer zone)	No specific proposal was available in the last approved Mining Plan valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period).	During the period 2015-16 to 2016-17, no information about environmental monitoring carried out in and around the lease area was available.	--
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	It was proposed in the last approved Mining Plan dated 21.06.2012, valid for the plan period 2012-13 to 2014-15, that, about 17.24 Ha area will be covered under excavation upto the plan period 2014-15. Further, during the plan period, Green belt will cover about 1.37 Ha area, about 1.82 Ha area was proposed to be covered under road, about 0.36 Ha area was proposed to be covered under Infrastructure, about 0.44 Ha area was proposed to be covered under Dump and about 0.44 Ha under Reservoir.	Efforts were made by the lessee to adhere with the proposal made in the last approved Mining Plan along with PMCP valid for the plan period 2010-11 to 2014-15, in context to excavation schedule, production target, reclamation/backfilling proposal, environmental monitoring proposal etc. The production and Backfilling/Reclamation proposal were not achieved by the lessee. For backlog of plantation, Violation letter was issued to party vide this office letter dated 29.05.2017.	Further during the period 2010-11 to 2015-16, excavated area covered 20.62 Ha, Green belt covered about 0.95 Ha area, about 1.82 Ha area was covered under road, about 0.36 Ha area was covered under Infrastructure, about 1.78 Ha area was covered under Dump and about 0.44 Ha area was covered under Reservoir.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	There was no proposal for mineral dispatch in the last approved Mining Plan valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period). There was no specific proposal for grade wise sorting within the lease as per last approved document.	Bauxite of this mine is pre-dominantly Bohemitic i.e Trihydrate($Al_2O_3 \cdot 3H_2O$). The year wise dispatch figure is given below:- i. 2010-11: 15185.915 MT(Grade: 40-45% Al_2O_3); ii. 2011-12: 11517.685 MT(Grade: 40-45% Al_2O_3); iii. 2012-13: 4672.75 MT(Grade: 40-45% Al_2O_3); iv. 2013-14: Nil; v. 2014-15: 6590.613 MT (Grade: 45-50% Al_2O_3); vi. 2015-16: 49443.05 MT (Grade: 45-50% Al_2O_3); and vii. 2016-17: Nil.	The mine was not in operation during 2013-14(Due to EC) and 2016-17(For extension of lease).
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting and blending to ensure the required grade was proposed in the last approved Mining Plan.	Manual grade wise sorting, manual screening(for fraction above 1" size) followed by blending with suitable grade was practiced at the mine site. Thus all possible efforts like hand sorting, hand screening, bulk sampling followed by time to time chemical analysis were systematically followed to ensure that ore is not being mixed with waste material.	--

7c	Different grade of mineral sorted out at mines.	No specific proposal was there in the last approved Mining Plan.	On the date of inspection the mine was not in operation and the mine did not operate during 2016-17. As per previous practice, generally two types of ore stack were made within the mine site. One was of 40-45% Al ₂ O ₃ grade material and the other of 45-50% Al ₂ O ₃ grade material. The low grade ore was blended with high grade material in appropriate calibrated proportion before dispatch to maintain the required grade to be dispatched to consignee.	--
7d	Any beneficiation process at mines .	No proposal of mineral beneficiation at mine site was made in the last approved Mining Plan valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period).	No mineral beneficiation was done, only manual sorting, screening and sizing etc. were done at the mine site upto the period the mine was in operation i.e upto February, 2016.	--

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No valid approved proposal after 2014-15 onwards was available. There was no specific proposal for grade wise sorting within the lease as per last approved Mining Plan dated 21.06.2012 valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period).	No mineral beneficiation was carried out at the mine site. The mineral conservation aspect was skillfully maintained by the lessee by deploying suitable nos. of persons for sorting , screening etc. The labour employment was as given below:- i. 2010-11: 23 nos.; ii. 2011-12: 17 nos.; iii. 2012-13: 85 nos.; iv. 2013-14: 03 nos.; v. 2014-15: 55 nos.; vi. 2015-16: 35 nos.; and vii. 2016-17: Nil.	--
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	<p>No valid approved document after 2014-15 was available. In the last approved Mining Plan valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period), there was proposal for separate removal of top soil, and simultaneous spreading of the same over backfilled area. The top soil removal proposal was as under:-</p> <p>i. 2010-11: N.A(Lapse period);</p> <p>ii. 2011-12: N.A(Lapse period);</p> <p>iii. 2012-13: 45797 MT;</p> <p>iv. 2013-14: 58280 MT; and</p> <p>v. 2014-15: 57117 MT.</p>	<p>The top soil removal figure was not available. The top soil so generated, was dumped near Quarry no. 2(SE part of lease), 3B(Western part of lease), 4(Northern part of lease), on the NE part of lease near Boundary pillar no. 50 & 51.</p>	--
8b	Concurrent use or storage of topsoil	<p>As per last approved Mining Plan, there was proposal for concurrent spreading of top soil over backfilled area after mining full thickness of Bauxite.</p>	<p>Four old soil dumps were present within the lease area, location of the same has been given at para no. 8(a). Concurrent top soil spreading was also done previously in Quarry no. 1B, 2A and 4. There was no working in the area during 2016-17.</p>	--

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	As per last approved Mining Plan, there was no proposal for separate dumping of Top soil OB/waste within the lease area. During the plan period 2010-11 to 2014-15, as concurrent backfilling was proposed.	There was separate dumping of Top soil and OB/Waste material within the lease area. There was no Mineral Reject/Fines dump within the lease area. There were total eight (08) nos. of dumps existed in the lease area, of which 4 nos. were of Top soil and 4 nos. were of OB/Waste material. The Top soil dump covered 0.45 Ha area and the OB/Waste dump covered 1.33 Ha area.	The mine was not in operation during 2016-17.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No valid approved propopsal after 2014-15 was available. As per last approved Mining Plan, valid for the plan period 2012-13 to 2014-15, there was proposal for 7.41 Ha of backfilling by using 835535 MT of OB/Waste material for restoration of land.	The quantity of OB/Waste material used for backfilling during 2010-11 onwards was as given below:- i. 2010-11: 24600 MT; ii. 2011-12: 33500 MT; iii. 2012-13: 13500 MT; iv. 2013-14: Nil; v. 2014-15: 18910 MT; vi. 2015-16: 89718 MT.	--
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phase wise restoration, reclamation and rehabilitation of land have not been proposed in the last approved Mining Plan.	As per available record, about 3.38 Ha area was backfilled/reclaimed upto 2015-16. Phase wise restoration, reclamation and rehabilitation of land affected by mining operations was not available.	The mine was not in operation during 2016-17.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No existing plantation was reported in the last approved Mining Plan. It was proposed that 1008 nos. of plantation shall be done over an area of 0.63 Ha along the lease boundary area and over backfilled area during 2012-13 to 2014-15.	Within 500m of lease area Forest exists with 0.3 tree density. As per available record, year wise plantation done within lease area was as given below:- i. 2010-11: N.A; ii. 2011-12: 260 nos.; iii. 2012-13: 150 nos.; iv. 2013-14: 150 nos.; v. 2014-15: 100 nos. ; vi. 2015-16: 100 nos; vii. 2016-17: Nil.	During 2016-17, the mine was not in operation.
8g	Survival rate	No specific proposal was made in the last approve Mining Plan.	During 2015-16, the survival rate of plantation done was about 30-35% as reported by the lessee.	--
8h	Water sprinkling on roads to control airborne dust	There was no specific proposal in the last approved Mining Plan valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period). No further valid approved proposal was available.	Water sprinkling was done through water sprinkler during dry season and as and when required.	--

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No such proposal was available in the last approved Mining Plan dated 21.06.2012.	The area was devoid of thick vegetation. Only sparse vegetation was found within the lease area. The area covered under excavation within the lease area was 20.62 Ha out of total lease area of 76.40 Ha thus only about 27% area was covered under excavation. Forest existed around the lease area. The general aesthetic beauty of the lease area was not disturbed as such.	The mine became non-operative from 18.06.2012 to March 2014 for want of EC. The mine re-opened on April, 2014 and continued working upto February, 2016. From March, 2016, the mine again became non-operative for extension of lease.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	The information furnished in Annual Return for the year 2015-16 covered Part-I of General information about mine and labour employment, Part-II about Employment & wages, Part-IIA about Capital Structure, Part-III consists of Consumption of materials, Part-IV about Consumption of explosives, Part-V consists of General Geology & Mining under various sections, Part-VI about Production, Dispatch & Stock and finally Part-VII consists of Cost of production.	Party had submitted the Monthly return regularly during the year 2015-16. They had also submitted the Annual Return for the year 2015-16 within stipulated time. In both type of returns, all the fields were filled up with required information.	The mine was not in operation during 2016-17.
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- 9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager
- Since the mine was under 'A'- FM category, a Whole time Mining Engineer and a whole time Geologist were to be appointed as per Rule-55(3) with due intimation of the same in Form-H under Rule-46 of MCDR, 2017. In the Annual Return of 2015-16, the name of Mining Engineer was not mentioned but the name of Geologist only was given, at item no. 8 & 9 of Part-I of the Annual Return.
- Name of full time Geologist was submitted in the Annual return for the year 2015-16. The name of full time Mining engineer was not submitted in the Annual Return. The notice of appointment of Geologist was not submitted in Form-H under Rule-46 of MCDR, 2017. The same was pointed out to the lessee through Violation letter issued vide this office letter no. BIH/GLA/BX/238/RRO Vol. II, dated 29.05.2017.
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- 9c Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.
- The land use pattern given in the Annual Return for the year 2015-16 was as under:-
- i. Area under excavation: 20.62 Ha;
 ii. Reclaimed: 1.8 Ha;
 iii. Dump area: 0.440 Ha;
 iv. Road & Infrastructure : 0.01 Ha;
 v. Others: 0.00 Ha.
- Upto 2015-16 and 2016-17, the total area put to use was as under:-
- i. Quarry: 20.62 Ha (Including backfill of 3.38 Ha);
 ii. OB dump: 1.78 Ha;
 iii. Infrastructure- 0.36 Ha;
 iv. Road: 1.82 Ha;
 v. Reservoir: 0.44 Ha;
 vi. Green belt: 0.95 Ha;
 vi. Total area put to use- 25.97 Ha;
 vii. Balance land unused- 50.43 Ha, out of total lease area of 76.40 Ha.
- The last approved Mining Plan was valid for the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 were lapse period).

9d	Scrutiny of Annual return on afforestation	In Part-V, item no. 4.4 of the Annual Return for the year 2015-16, the plantation done was given as 100.	During 2014-15, about 100 nos. of plantation was done within mining lease area with 30-35% survival rate. During the year 2014-15 the proposed plantation was 336 nos. For non-compliance of proposed plantation, Violation letter was issued to the party vide this office letter no. BIH/GLA/BX/238/RRO Vol. II, dated, 29.05.2016. During 2015-16, there was no valid approved proposal of afforestation, but 100 nos. of plantation was done within mining lease area with 30-35% survival rate.	--
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	In Part-V, Sec 4 of the Annual Return 2015-16, the information on Mineral Reject generation was Nil.	No Mineral Reject generation was reported from the mine during the period 2015-16.	The mine was not in operation during 2016-17.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	In Part VI, item no. 1 & 2(A), of the Annual Return (2015-16), the ROM stock (opening balance) and Closing stock were shown as below:- Opening stock- 45-50% (Av. 45%) Al2O3: 9010.87 MT; Closing Stock- 45-50% (Av. 45%) Al2O3: 34333.781 MT.	The figure given for Opening stock and Closing stock were in conformable with the figure furnished through Monthly Returns for the year 2015-16.	--

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The sale value, ex-mine price and production cost were shown Part-VI and VII of the Annual Return for the year 2015-16.	In Part-VI, item no. 2(A) & (B) of the Annual Returns 2015-16, the Ex-Mine price was shown as Rs. 400/- for 45-50% Al2O3 grade material. In Part-VI, item no. 4, the Sale value was shown as Rs. 400/-. The cost of production during 2015-16 was shown as Rs. 298.63/- per MT.	The mine was not in operation during 2016-17.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed Assets of the lessee was given in Part-IIA of the A.R for the year 2015-16 as Nil.	The value of Fixed Assets of the lessee for the year 2015-16 was shown as Nil in Part-IIA of the A.R, under Capital structure.	--
9k	Scrutiny of Annual return on mining machineries	In Part-V, Sec 5/6/8/9 of the Annual Return 2015-16, the following machineries used, were mentioned:- i. Wagon drill (100mm dia): 01 no.; ii. Excavator (0.9 cu.m): 01 nos.; iii. Dumper (10MT): 05 nos.	During 2015-16, the following machineries were in use in the mine:- i. Wagon drill (100mm dia): 01 no.; ii. Excavator (0.9 cu.m): 02 nos.; iii. Compressor (300 cfm): 01 no.; and iv. Hiwa (25MT): 03 nos.	The mine was not in operation during 2016-17 for extension of lease.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	29/05/2017			
MCDR17	Rule 11(4)	29/05/2017			
MCDR17	Rule 14(3)	29/05/2017			
MCDR17	Rule 23	29/05/2017			
MCDR17	Rule 28(1)	29/05/2017			
MCDR17	Rule 31(4)	29/05/2017			
MCDR17	Rule 33	29/05/2017			
MCDR17	Rule 36(3)	29/05/2017			
MCDR17	Rule 37(5)	29/05/2017			
MCDR17	Rule 55(1)(3)	29/05/2017			

Date :

(N.K.CHATERJI)

Indian Bureau of Mines