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Review and updation of Mining Plan REPORT

Ranchi regional office

Mine file No : BIH/GLA/BX/236/RRO

Mine code : 07BHR32022

- (i) Name of the Inspecting : K001 ) B.L. KISKU  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri R. Singh, Representative of Lessee & Shri P.K.Se  
Official with  
Designation
- (iv) Date of Inspection : 05/09/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : HARUP (45.6)
- (b) Registration NO. : IBM/4093/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : JHARKHAND  
District : GUMLA  
Village : HARUP  
Taluka : BISHUNPUR  
Post office : BISHUNPUR  
Pin Code :  
FAX No. : N.A.  
E-mail : N.A  
Phone : 06526-24042, +91-930480493:
- (f) Police Station : BISHUNPUR
- (g) First opening date : 12/04/1990
- (h) Weekly day of rest : TUE
2. Address for : VILL-HARUP  
correspondance BISHNUPUR  
DIST-GUMLA
3. (a) Lease Number : BHR0227
- (b) Lease area : 45.65
- (c) Period of lease : 50
- (d) Date of Expiry : 25/03/2040
4. Mineral worked : BAUXITE Main

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## 5. Name and Address of the

Lessee : C.K.T.POPAT  
(LATE) C.K.T.POPAT PALMER  
GANJ LOHARDAGA, -835 302  
LOHARDAGA JHARKHAND  
Phone: 24042  
FAX :

Owner : C.K.T.POPPAT  
NEW ROAD PALMERGANJ  
LOHARDAGA, JHARKHAND  
LOHARDAGA JHARKHAND  
Phone: 06526-24042  
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 05/10/1989  
Plan/Scheme of Mining : Renewal under rule 24 MCR1960 04/09/2012

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	As per approved Mining Plan dated 04.09.2012 valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period), there was proposal for 07 nos. of DTH/BHs to be given during the plan period 2013-14. No further valid proposal is available.	No Bore hole was given during the period 2013-14 as the mine is not working w.e.f July, 2012 for want of EC. Hence, backlog of 07 nos. of boreholes previous years existed.	No subsequent approved document is available for the period 2015-16 onwards. On the date of inspection the mine was closed.
1b	Exploration over lease area for geological axis 1 or 2	As per approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period), there was proposal for 07 nos. of DTH/BHs to be given during the plan period 2013-14 upto an av. depth of 18m, covering approximately 8.0 Ha area, under G1 Level exploration.	No BHs were given during the period 2013-14 as the mine was not in operation w.e.f July, 2012 for want of EC. However, previously, 06 nos. of boreholes were given by the lessee in the lease area during 2010-11 on a 100m grid interval with total meterage of about 73.95 m, having maximum and minimum depth were 13m and 12m respectively. The exploration was spread over about 3.0 ha lease area thus covering an influence area of about 6.0 ha.	In addition to 06 nos. of BHs, 2 nos. of trenches were also given in the area. The dimension of trenches were as given below:- i. Trench no. 1: 1m X 0.3m X 2.5m; ii. Trench no. 2: 1m X 0.33m X 2.3m.

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1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal was there in the last approved Mining Plan dated 04.09.2012.	No information is available regarding Exploration Agency and Expenditure incurred for the boreholes given in the area.	Mine was not in operation at the time of inspection.
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15, there was proposal for 07 nos. of DTH/BHs to be given during the plan period 2013-14 upto an av depth of 18m, covering approximately 8.0 ha area, under G1 Level exploration. The exploration was proposed over about 8.0 ha lease area thus covering an influence area of about 6.0 ha. Hence total proposed area to be explored was about 14.0 Ha under G1 and G2 level of exploration.	Previously, 06 nos. of boreholes were given by the lessee in the lease area during 2010-11 on a 100m. The exploration was spread over about 3.0 ha lease area thus covering an influence area of about 6.0 ha. Thus, about 9.0 hecets area already explored under G1 and G2 level of exploration.	In actual practice, out of 45.65 hecets. area of lease area, 22.258 hecets. comes under GM land (Jungle-Jhari), thus, 23.392 hecets. area requires to be explored of which 9.0 hecets. area has already been explored under G1 and G2 level of exploration. Hence, 14.392 hecets. (~ 14.0 Ha) area requires exploration which falls on the Southern part of the lease. The Northern part of lease is mostly comprises of Jungle-Jhari area.

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1e	Balance reserve as on 01/04/20	As per approved Mining Plan dated 04.09.2012 valid for the plan period 2010-11 to 2014-15, the Reserve/Resource position as on 01.04.2011 was as given below :- i. Proved (111) : 235776 MT; ii. Probable (122) : 82554 MT; iii. Feasibility Mineral Resource (211) : 132300 MT; and iv. Pre-feasibility Mineral Resource (222) : 43926 MT.	After depleting the production of 9670 MT, during 2011-12 (5881 MT) & 2012-13 (3789 MT), the Reserve/Resource position as on 01.04.2017 is given below:- i. Proved (111) = 226106 MT (Al <sub>2</sub> O <sub>3</sub> -47.11% & SiO <sub>2</sub> -2.12%); ii. Probable (122) = 82554 MT (Al <sub>2</sub> O <sub>3</sub> -47.11% & SiO <sub>2</sub> -2.12%); iii. Feasibility Mineral Resource (211) = 132300 MT (Al <sub>2</sub> O <sub>3</sub> -47.11% & SiO <sub>2</sub> -2.12%); ; and iv. Pre-feasibility Mineral Resource (222) = 43926 MT (Al <sub>2</sub> O <sub>3</sub> ->401% & SiO <sub>2</sub> -<3%); .	The mine is not in operation since 2013-14. The last production reported was during June, 2012 (During 2012-13).
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1f	General remarks of inspecting officers on geology, exploration etc	N.A.	N.A.	The Bauxite deposits are mostly associated with high level Laterite, occur as thin, irregular and discontinuous lenses or tabular bodies within the the Laterite capping. Lessee had carried out exploration in the area in the form of 06 nos. of BHs under G1 level during the year 2010-11 thus about 9.0 ha. area has been explored leaving 7.5m safety barrier. Due to non-working status of the Mine July, 2012, for want of EC & CTO, the lessee could not undertake the proposed exploration work of 07 BHs.
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Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	No valid approved proposal was available. As per last approved Mining Plan dated 04.09.2012 valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period) it was proposed to develop Quarry no. 1B located on the southern part of the lease area. It was proposed to work under 'A'-Fully Mechanised category.	During 2010-11 to 2012-13(Upto June, 2012), quarry no. 1B was developed. From July, 2012 the mine became non-operational for want of EC/CTO. However, previously 6 nos. of quarries have been developed within the lease area. The dimension of quarries are given below:- i. Quarry no. 1(On the extreme Western end of Central part of lease): 188m X 126m X 7m; ii. Quarry no. 1A(On the South of Quarry no. 1 also on the Western part of lease): 152m X 95m X 2m;	Dimension of quarries (Contd from above):- iii. Quarry no. 1B(On the East of Quarry no. 1A, almost on the Central part of lease): 254m X 80m X 5m; iv. Quarry no. 2(On the Southern part of Eastern flank of lease): 49m X 22m X 2m; v. Quarry no. 3:(On the North of Quarry no. 2, at the Eastern flank of lease): 23m X 26m X 1.2m; vi. Quarry no. 4:(On the extreme Northern part of Eastern flank of lease): 56m X 33m X 2.5m.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to develop 01 bench each in Soil, Laterite & Bauxite horizon during the plan period 2010-11 to 2014-15. The bench height in Soil was proposed to be formed as per available thickness, in Laterite, the bench height was proposed to be kept at 3m (Max) and in Bauxite, the bench height was proposed to be kept at 6m (Max). No further valid approved proposal is available.	During 2015-16 no work was carried out. However, previously the quarry wise bench developed are given below: i. Q1: 01 bench each in Soil & OB(Morrum & Laterite) with av. height of 1m and 01 bench in Bauxite of 5m; ii. Q1A: 01 bench in Soil of 1m, 01 bench in OB (Morrum & Laterite) of 0.8m and 01 bench in Bauxite of 0.2m; iii. Q1B: 01 bench in Soil of 1m, 01 bench in OB (Morrum & Laterite) of 2m and 01 bench in Bauxite of 2m;	(Contd.. from above) - iv. Quarry no. 2: 01 bench in Soil of 0.8m, 01 bench in OB (Morrum & Laterite) of 1m and 01 bench in Bauxite of 0.2m; v. Quarry no. 3: 01 bench in Soil of 0.8m and 01 bench in OB (Morrum & Laterite) of 0.4m; vi. Q4: 01 bench in Soil of 1m, 01 bench in OB (Morrum & Laterite) of 1m and 01 bench in Bauxite of 0

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2c	Stripping ratio or ore to OB ratio	The overall stripping ratio during the period 2010-11 to 2014-15, was proposed to be 1:0.22 while during 2014-15 it was also proposed to be 1:0.22. No further valid approved proposal was available.	During the year 2012-13 the Stripping ratio was reported to be around 1:1.5. During 2013-14 and onwards the stripping ratio could not be calculated as there was no mining operation during the period.	Nil
2d	Quantity of topsoil generation in m3	The proposed total 5 years Top Soil generation as given in the approved Mining Plan for the period 2010-11 to 2014-15 was given as 64322 MT (42881 cu.m). The year wise proposed generation of Top Soil as per approved Mining Plan is given below:- i. 2010-11: Nil (Lapse period); ii. 2011-12: 15156 MT; iii. 2012-13: 15867 MT; iv. 2013-14: 15867 MT; v. 2014-15: 17432 MT.	Top Soil generation figure was not available.	Mine was not working since July, 2012.



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2e	Quantity of overburden generation in m3	<p>The proposed total 5 years OB/Waste generation as given in the approved Mining Plan for the period 2010-11 to 2014-15 was given as 257600 MT (128800 Cu.m). The year wise proposed generation of OB/Waste generation as per approved Mining Plan is given below:-</p> <p>i. 2010-11: 18685 MT  ii. 2011-12: 54415 MT;  iii. 2012-13: 58222 MT;  iv. 2013-14: 60843 MT;  v. 2014-15: 65434 MT.</p>	<p>Year wise OB/Waste generation is given below:-</p> <p>i. 2010-11: N.A;  ii. 2011-12: 40000 MT;  iii. 2012-13: N.A;  iv. 2013-14: Nil;  v. 2014-15: Nil.  vi. 2015-16: Nil; and  vii. 2016-17: Nil.</p>	<p>The mine was not in operation from July, 2012. Further, no subsequent approved document was available.</p>
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	N.A.	N.A.	<p>On the date of inspection the mine was not in operation. The mine was in operation during the period 2010-11 to 2012-13 and had worked as per approved proposal within quarry no. 1B. The production level was much lower than the proposed one. The operation has been temporarily discontinued w.e.f. July, 2012 for want of EC/CTO.</p>

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a Number of pit proposed for production	No valid approved proposal was available. As per last approved Mining Plan, only one Quarry/Pit (Q1B), located on the Southern part of lease area was proposed for development and production during the approved plan period 2010-11 to 2014-15 (2010-11 was lapse period).	Production during 2010-11 to 2012-13 (upto June, 2012) was achieved from quarry no. 1B as per proposal. Quarry no. 1 was also worked partly during the period under review.	The mine is non-operational from July, 2012 for want of EC/CTO.
3b Quantity of ROM mineral production proposed	No valid approved proposal was available. During the period 2010-11 to 2014-15, the approved year wise production was as given below: 2010-11: 6870 MT (Actual); 2011-12: 65434 MT; 2012-13: 70596 MT; 2013-14: 74961 MT; 2014-15: 80007 MT.	Actual production during the plan period 2010-11 to 2014-15 and 2015-16 to 2016-17 is given below:- i. 2010-11: 6870 MT; ii. 2011-12: 5881 MT; iii. 2012-13: 3789 MT; iv. 2013-14: Nil; v. 2014-15: Nil; vi. 2015-16: Nil; and vii. 2016-17: Nil.	Mine is closed since July, 2012.

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3c	Recovery of saleable/usable mineral from ROM production	As per last approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period), the recovery of saleable Bauxite ore was proposed to be 80% of total ROM.	During 2013-14 to 2015-16 and 2016-17, the recovery was Nil as there was no production during the period. However, during 2012-13, the recovery was reported to be around 75%.	Mine is closed since July, 2012.
3d	Quantity of mineral reject generation	There was no proposal for Mineral Reject generation.	Mine is not working, hence no reject generation.	Mine is closed since July, 2012.
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.	Mine is not working, hence no reject generation is reported.	Mine is closed since July, 2012.
3f	Quantity of sub grade mineral generation.	There was no proposal for Sub-grade mineral generation.	No sub-grade Bauxite production has been reported from the mine as the mine is not in operation. However, previously whatever sub-grade materials were generated from the mine were blended with high material before dispatch, maintaining the requisite grade. Thus mineral wastage was avoided and ascertaining mineral conservation aspect.	Mine is closed since July, 2012.
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 2010-11 to 2012-13 (upto June, 2012). The mine was not in operation for want of EC/CTO.	Mine is closed since July, 2012.

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|----|---|---|--|-----|
| 3h | Manual /<br>Mechanised<br>method adopted<br>for segregating<br>from ROM   | Manual method<br>was proposed<br>for<br>segregating<br>from ROM.<br>Total ROM was<br>proposed to be<br>sorted out by<br>hand picking<br>at mine site.<br>Only the large<br>lumps of<br>Bauxite of the<br>lateritic<br>contact zone<br>was proposed<br>to be broken<br>into small<br>pieces up to<br>10 cm in size<br>to prevent<br>Iron and<br>Silica<br>contamination<br>of lateritic<br>zone. | The Bauxite ore after<br>blasting was segregated<br>manually from ROM. The<br>large lumps of Bauxite<br>were broken into small<br>pieces (10 cm size).   | Nil |
| 3i | Any analysis or<br>beneficiation<br>study proposed<br>and carried out<br>for sub grade<br>mineral and<br>rejects. | There was no<br>proposal in<br>the last<br>approved<br>Mining Plan,<br>valid for the<br>plan period<br>2010-11 to<br>2014-15,<br>regarding<br>analysis or<br>beneficiation<br>study for sub-<br>grade mineral<br>and reject.  | As there was no sub-<br>grade and mineral reject<br>generation reported from<br>the mine hence no such<br>analysis or<br>beneficiation study of<br>sub-grade mineral and<br>reject have been carried<br>out at the mine. | Nil |

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3j	Provision of drilling and blasting in mineral benches	There was proposal for drilling and blasting in the last approved Mining Plan valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period).	As per proposal holes were done in hard formation by JH drill having diameter of 34-38mm. The holes were made upto 3.3m in Laterite formation with burden and spacing were maintained at 2m & 2.5m respectively. While in Bauxite formation the holes were made upto 6.6m with burden and spacing maintained at 3m & 3.5m respectively. Each hole was charged with Power gel with different quantity for Laterite & Bauxite horizon. Shot firing was also done with Safety Fuse(SF) and Ordinary Detonator (OD).	Nil
3k	Provision of mining machineries in mineral benches	There was proposal to use Poclain-Dumper combination along with Tippers after blasting.	During 2013-14 to 2015-16 no machinery was in use as the mine was not in operation. Previously one hydraulic excavator with 0.9 cu.m bucket capacity and 02 nos. of 10 MT Tippers were in use in the mine.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed in the approved Mining Plan, dated 04.09.2012, valid for the period 2010-11 to 2014-15 that in OB, bench dimension shall be of 3m X 6m (h X w) whereas in Ore it shall be 6m X 6m (h X w). The method of mining was proposed to be under 'A'-FM category.	In actual practice, the height of the benches have been maintained at 1.5m - 6m and width has been maintained at 4-6m both in Ore and OB which was suitable for method of mining proposed in the approved Mining Plan.	Nil

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3m	Total area covered under excavation/pits	There was proposal to excavate 3.13 ha area during the plan period 2010-11 to 2014-15 and upto the plan period 2014-15, a cumulative of about 7.86 ha area was proposed to be excavated.	During 2013-14 to 2016-17, no area has been covered under excavation as the mine was not in operation. However, during 2010-11 to 2012-13 (upto June, 2012) only 0.83 ha area had been covered under excavation. Upto 2016-17, a cumulative of about 6.18 ha had been covered under excavation.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	Presently, no valid approved proposal was available. As per last approved Mining Plan, the overall stripping ratio during the period 2010-11 to 2014-15, was proposed to be 1:0.22.	During the year 2012-13 (upto June, 2012) the Stripping ratio was reported to be around 1:1.5. During the site visit, no mining operation was done.	Nil

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3o	Total area put in use under different heads at the end of year	As per last approved Mining Plan, valid for the plan period 2010-11 to 2014-15, the total area put to use after completion of 5 years working i.e at the end of 2014-15, was proposed to be :- i. Quarry-7.86 hectcs (including reclaimed area of 1.18 ha); ii. Road- 2.86 ha; iii. OB dump- 0.043 ha; iv. Laterite dump- 0.26 ha; v. Soil dump- 0.80 ha; vi. Parapet wall- 0.054 ha; vii. Garland drain- 0.057 ha; and viii. Green belt- 0.96 ha. No further valid approved proposal was available.	Upto 2016-17 the total area put to use was as under:- i. Quarry- 6.18 ha (including Reclaimed area of 1.0 Ha); ii. Dump-0.19 ha; and iii. Road- 2.77 ha; iv. Green belt: 0.2 ha. Total area put to use: 9.34 ha (excluding backfilled area); and Total unused area: 36.31 ha out of total lease area of 45.65 ha.	Nil
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3p	Production of ROM mineral during the last five year period as applicable	No valid approved proposal was available. As proposed in the last approved Mining Plan, the production target of Bauxite during 2010-11 to 2014-15 was as under:- i. 2010-11: 6870 MT (Actual); ii. 2011-12: 65434 MT; iii. 2012-13: 70595 MT; iv. 2013-14: 74961 MT; & v. 2014-15: 80007 MT.	The achieved production during the period 2010-11 to 2016-17 was as given below:- i. 2010-11: 6870 MT; ii. 2011-12: 5881 MT; iii. 2012-13: 3789 MT; iv. 2013-14: Nil; v. 2014-15: Nil; vi. 2015-16: Nil, and vii. 2016-17: Nil.	The mine became non-operative from July, 2012 for want of EC/CTO.
3q	General remarks of inspecting officers on method of mining etc.	N.A.	N.A.	The mine is closed since July, 2012 for want of EC/CTO.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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- 4a      Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)      No valid approved proposal was available. As per last approved Mining Plan, during the plan period 2010-11 to 2014-15, one (01) top soil dump and one (01) OB/Waste dump were proposed to be created within the lease area. The proposed dimension of dumps are given below:-  
i. OB/Waste dump: 85m X 50m X 4m; and  
ii. Top soil dump: 200m X 40m X 7m.  
No further valid approved proposal was available.
- As per proposal two (02) dumps could not be created within the lease area. Three (03) old dumps existed within the lease area. The dimension of dumps were as given below:-  
1. Waste Dump no. 1: 30m X 20m x 2m;  
2. Waste dump no. 2: 35m X 15m X 3m; and  
3. Top soil dump: 50m X 15m X 2m.  
Total area covered under dump was 0.19 Ha.
- The mine became non-operative from July, 2012 for want of EC/CTO, hence the proposed development work could not be carried out including the creation of dumps.
- 4b      Location of topsoil, OB and mineral reject dumps      Out of two dumps, the top soil dump was proposed to be created on the eastern part of the lease area between quarry no. 3 & 4 and the OB/Waste was proposed on the SW corner of the lease area.
- As per proposal the Top soil and OB/Waste dumps could not be created. Three (03) existing old waste dumps are located on the central and western part of the lease area.
- Mine is closed since July, 2012.

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- 4c Number of dumps within lease area and outside of lease area As per last approved Mining Plan dated 04.09.2012, there was proposal for creation of one Top soil and one OB/Waste dumps within the lease area. There was no proposal for creation of dumps outside lease area. Three (03) existing old waste dumps were present within the lease area and located on the central and western part of the lease area covering 0.19 Ha. There was no dump outside lease area. Mine is closed since July, 2012.
- 4d Location of dumps w.r.t. ultimate pit limit (Rule 16) As per last approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15, there was proposal for creation of one Top soil dump and one OB/Waste dump on the Eastern and SW part of lease area respectively, outside Ultimate Pit Limit (UPL). The proposed dumps could not be created as the mine became non-operative from July, 2012 for want of EC/CTO. All the three existing old dumps were located outside UPL. Mine is closed since July, 2012.

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4e	Number of active and alive dumps.	There was proposal for creation of two active dump (1 Top soil + 1 OB/Waste) in the last approved Mining Plan valid for the period 2010-11 to 2014-15 and other three (03) existing old dumps (2 OB/Waste + 1 Top soil) will remain active for dumping. No further valid approved proposal is available.	In actual practice there were three (03) active old dumps (2 OB/Waste + 1 Top soil ) present within the lease area. The dumping was active up to 2012-13 (upto June, 2012). From July, 2012 onwards the mine is not in operation due to EC & CTO. Presently all the three dumps have become stabilized in due course of time with the growth of natural vegetation.	Mine is closed since July, 2012.
4f	Number of dead dumps.	As per last approved Mining Plan dated 04.09.2012, there was no proposal of dead dumps within the lease area.	There was no dead dumps within the lease area. Three (03) old dumps existed within the lease area which were active upto 2012-13 (June, 2012) now have become dead dumps.	Nil
4g	Number of dumps established.	There was no proposal for establishment of dump during the plan period 2010-11 to 2014-15 as per approved Mining Plan dated 04.09.2012. No further valid approved proposal was available.	All the three dumps (2 OB/Waste + 1 Top soil) have become stabilized naturally by growth of vegetation over it.	Nil

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4h	Whether Retaining wall or garland drain all along dumps are there.	As per last approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period), Retaining wall and Garland drain were proposed around both the dumps (OB/Waste & Top soil).	The retaining wall and garland drain around the proposed dumps were not created, as the proposed top soil dump and OB/Waste dump were not created.	The mine is closed since July, 2012 for want of EC/CTO.
4i	Length of Retaining wall or garland drain all along dumps	As per last approved Mining Plan, it was proposed to construct retaining wall and garland drain of about 125m around OB/Waste dump and about 250m around Top soil dump.	No retaining wall and garland drain have been constructed since the proposed dumps were not created.	Nil
4j	Number of settling ponds	There was no proposal for creation of settling pond, in the last approved Mining Plan valid for the plan period 2010-11 to 2014-15.	No such settling pond was created within the lease area.	Mine is closed since July, 2012.
4k	Specific comments of inspecting officer on waste dump management	N.A.	N.A.	Mine is closed since July, 2012.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	It was proposed in the last approved Mining Plan (2010-11 to 2014-15) that simultaneous backfilling will be carried out after part extraction of mineral from mined out area. It was proposed that 1.18 Ha area will be backfilled during the plan period 2010-11 to 2014-15 (2010-11 was lapse period). No further valid approved proposal is available.	During 2010-11 to 2012-13 (upto June, 2012), backfilling on North of quarry no. 1B, East of quarry no. 1, West of quarry no. 1 and South of quarry no. 1 were carried out. Total area backfilled so far is 1.0 ha. The mine is not in operation since 2013-14.	Nil
5b	Area under backfilling of mined out area	In the last approved Mining Plan valid for the plan period 2010-11 to 2014-15 a total of about 1.18 ha area was proposed to be backfilled. No further valid proposal is available.	In actual practice about 1.0 ha area was covered under backfilling in quarry no. 1B during 2010-11 to 2012-13 (upto June, 2012).	Nil

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	As per last approved Mining Plan dated 04.09.2012, there was proposal for concurrent backfilling and simultaneous spreading of top soil over backfilled area. No further valid approved proposal was available.	Simultaneous spreading of top soil over backfilled area was not carried out. Only backfilling of 1.0 Ha area was carried out in quarry no. 1 and 1B.	Nil
5d	Total area fully reclaimed and rehabilitated	As per last approved Mining Plan dated 04.09.2012 valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period), about 1.18 ha area was proposed to be reclaimed. No further valid approved proposal is available.	In actual practice about 1.0 ha area has been reclaimed in quarry no. 1 and 1B during 2010-11 to 2012-13 (upto June, 2012).	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	N.A.	Nil

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Progressive Mine Clousre Plan:

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Sl.No.	Item	Propasals	Actual work	Remarks
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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 04.09.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period).	The Annual Report on PMCP under Rule- 23E(2) has been submitted by the lessee for the period 2010-11 to 2012-13. During 2013-14 to 2014-15, the mine was not in operation.	Mine is closed since July, 2012.
6b	Area available for rehabilitation (ha) .	No valid approved proposal was available. Only backfilling/reclamation proposal was available for 1.18 Ha area during the plan period 2010-11 to 2014-15.	No rehabilitation figure is available as rehabilitation has not been carried out.	Nil

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6c	afforestation done (ha).	<p>During the period 2010-11 to 2014-15 a total of 1536 no. of plantation covering 0.96 Ha was proposed as per approved Mining Plan. The year wise proposed plantation is given below:-</p> <p>i. 2010-11: Lapse period;</p> <p>ii. 2011-12: 368 nos. (0.23 Ha);</p> <p>iii. 2012-13: 352 nos. (0.22 Ha);</p> <p>iv. 2013-14: 496 nos. (0.31 Ha); and</p> <p>v. 2014-15: 320 nos. (0.20 Ha).</p> <p>No further valid approved proposal was available.</p>	<p>During 2011-11 to 2012-13 a total of about 600 nos. of plantation were done covering about 0.2 Ha within M.L area. The year wise plan tation done is given below :-</p> <p>i. 2010-11: 300 nos.;</p> <p>ii. 2011-12: 300 nos.;</p> <p>iii. 2012-13: N.A;</p> <p>iv. 2013-14: Nil;</p> <p>v. 2014-15: Nil;</p> <p>vi. 2015-16: Nil and</p> <p>vii. 2016-17: Nil.</p>	Nil
6d	No. of saplings planted during the year	<p>No valid approved proposal was available for the year 2015-16 and 2016-17. However, during 2014-15, about 320 nos. of plantation over an area of 0.2 ha area were proposed in the last approved Mining Plan valid for the plan period 2010-11 to 2014-15(2010-11 was lapse period).</p>	<p>No plantaion figure is available for the period 2012-13 onwards.</p>	Nil



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6e	Cumulative no .of plants	There was no proposal for cumulative plantation. However, during the last approved plan period, 2010-11 to 2014-15, about 1536 nos. of plantation were proposed to be done covering an area of 0.96 ha.	On cumulative basis about 600 nos. of plantation were done by the lessee upto 2016-17 covering 0.2 ha area.	The mine is not in operation since July, 2012 for want of EC/CTO.
6f	Any other method of rehabilitation	No further proposal was available.	Only plantation has been reported as as no other method was proposed.	Nil
6g	Cost incurred on watch and care during the year	No proposal was available in the approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period). No further valid approved proposal is available.	Cost incurred towards watch and care of plants was reported to be Rs. 10000/- during 2012-13.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	As per last approved Mining Plan about 1.18 ha area was proposed to be backfilled during the approved plan period 2010-11 to 2014-15. Further, a void area of about 150m X 90m dimension were proposed to be backfilled during the last approved plan period.	About 1.0 ha area was reclaimed in quarry no. 1B during 2010-11 to 2012-13 (upto June, 2012). The approximate dimension of backfilled area was 150m X 60m.	Nil

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	There was proposal for 1.18 ha of backfilling in the last approved Mining Plan during the plan period 2010-11 to 2014-15 (2010-11 was lapse period) by using about 257599 MT of OB/Waste material. No further valid approved proposal is available.	Only 1.0 ha area has been backfilled/reclaimed during 2010-11 to 2012-13 but quantum of material used for backfilling was not available.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	There was no such proposal of afforestation over backfilled area in the last approved Mining Plan dated 04.09.2012.	During 2010-11 to 2012-13 (upto June, 2012) a total of 600 nos. of plantation have been done covering about 0.2 ha along the lease boundary.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	There was no such proposal in the last approved Mining Plan.	Not applicable.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	There was no other proposal in the last approved Mining Plan dated 04.09.2012.	Not applicable.	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	There was no such proposal in the last approved Mining Plan as no Waste land existed within the lease area.	Not applicable.	Nil

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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	There was no such proposal.	Not applicable.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal was available.	Not applicable.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	The water and Air monitoring within the lease area was proposed in the last approved Mining Plan valid for the plan period 2010-11 to 2014-15. No further valid approved proposal is available from 2015-16 onwards.	Regular monitoring of water and air was carried out up to 2012-13. After the temporary discontinuance of the mine no monitoring was carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A.	N.A.	Mine was closed since July, 2012.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of mineral dispatch was available in the last approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15. No further valid approved proposal is available.	Bauxite of this mine is pre-dominantly Metal Grade. The year wise dispatch figure is given below:- i. 2010-11: 6839.285 MT (40-45% Al <sub>2</sub> O <sub>3</sub> ); ii. 2011-12: 6019.46 MT (40-45% Al <sub>2</sub> O <sub>3</sub> ); iii. 2012-13: 3746.995 MT (40-45% Al <sub>2</sub> O <sub>3</sub> ); iv. 2013-14: Nil; v. 2014-15: Nil; vi. 2015-16: Nil and vii. 2016-17: Nil. The mine is not in operation since July, 2012 for want of EC/CTO	Mine was closed since July, 2012.
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.	Mine was closed since July, 2012.
7c	Different grade of mineral sorted out at mines.	No specific proposal was there in the last approved Mining Plan dated 04.09.2012.	Generally two types of ore stack were made within the mine site. One was of 40% Al <sub>2</sub> O <sub>3</sub> and above grade material and the other of below 40% Al <sub>2</sub> O <sub>3</sub> grade material. The low grade ore was blended with high grade mineral in appropriate calibrated proportion before dispatch.	Nil
7d	Any beneficiation process at mines .	No proposal of mineral beneficiation was made in the last approved Mining Plan.	No mineral beneficiation was done, only manual sorting, screening and sizing were done at the mine site.	Nil

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	N.A.	The mine is not in operation from July, 2012 for want of EC/CTO.
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	In the last approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15 (2010-11 was lapse period), the top soil removal proposal was as under:- i. 2010-11: Lapse period; ii. 2011-12: 15156 MT; iii. 2012-13: 15867 MT; iv. 2013-14: 15867 MT & v. 2014-15: 17432 MT. No further valid approved from 2015-16 onwards is available.	The top soil removed during 2010-11 to 2012-13(quantity not reported) has not been utilized over backfilled area in Quarry no. 1B at the central part of the lease.	On the date of inspection the mine was not in operation. The mine became non-opeartive from July, 2012 for want of EC/CTO.
8b	Concurrent use or storage of topsoil	As per last approved Mining Plan, there was proposal for storage of top soil over an area of 1.19 ha.	No fresh top soil dump was created. The top soil was dumped over existing OB/Waste dump.	Nil

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	As per last approved Mining Plan dated 04.09.2012, there was proposal for separate dumping of Waste and Top soil on the SW part and Eastern part of the lease area respectively.	In actual practice there were three (03) existing old dumps. No fresh dump had been created.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There was proposal for 1.18 ha of backfilling in the approved Mining Plan valid for the plan period 2010-11 to 2014-15, by using 257599 MT of OB/Waste material. No further valid approved proposal is available.	Simultaneous backfilling of about 1.0 Ha area was done in some part of quarry no. 1 and 1B. The total material used for backfilling is not available.	Nil
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 valid for the plan period 2010-11 to 2014-15. No further valid approved proposal is available.	As per available record, about 1.0 Ha area has been backfilled/reclaimed.	Nil

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No existing plantation has been reported in the last approved Mining Plan. It was proposed that 1536 nos. of plantation shall be done over an area of 0.96 Ha within the lease area.	The lease area consists of 22.258 ha of Jungle Jhari area. Within 500m of lease area Forest exists with 0.33 tree density. As per available record year wise plantation done is given below:- i. 2010-11: 300 nos.; ii. 2011-12: 300 nos.; iii. 2012-13: N.A; iv. 2013-14: Nil; v. 2014-15: Nil; vi. 2015-16: Nil and vii. 2016-17: Nil.	The mine became non-operative from July, 2012 for want of EC/CTO.
8g	Survival rate	There was no proposal for survival rate.	During 2010-11 to 2011-12, the survival rate of plantation done was about 45% as reported by the lessee.	Nil
8h	Water sprinkling on roads to control airborne dust	No specific proposal was there in the last approved Mining Plan dated 04.09.2012, valid for the plan period 2010-11 to 2014-15.	As per available previous record, maximum 2 truck loads were to ply as a result quantity of airborne dust was negligible.	Mine is not working from July, 2012 for want of EC/CTO.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	N.A.	N.A.	Mine is not working from July, 2012 for want of EC/CTO.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Mine is not working from July, 2012 for want of EC/CTO. Hence, submission of Monthly & Annual return for 2021-22 is not arise.	Monthly & Annual return for 2021-22 does not arise. However, lessee was submitted Nil Monthly returns during the year 2016-17 and also during 2017-18. Party has also submitted the Nil Annual Return for the year 2016-17 within stipulated time.	Nil.

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Since the mine is category "A", a full time Mining Engineer and a full time Geologist were appointed as per Rule-55(1)(c) with due intimation of the same in Form-H under Rule-46 of MCDR, 2017.	At the time of inspection, the mine was closed from July, 2012 for want of EC/CTO, hence Mining Engineer and Geologist were not mentioned in the Annual return for the period 2016-17.	Nil
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 2016-17 was as under:- i. Area exploited:3.73 ha; ii. Reclaimed: 1.0 ha; iii. Dump area: 0.43 ha; iv. Road: 2.77 ha.	As per available record, the total area put to use upto 2016-17 was as given below :- i. Quarry- 6.18 ha (including Reclaimed area of 1.0 ha); ii. Dump-0.19 ha; and iii. Road- 2.77 Ha; iv. Green belt: 0.2 ha. Total area put to use: 9.34 ha (excluding backfilled area); and Total unused area: 36.31 ha out of total lease area of 45.65 ha.	Nil
9d	Scrutiny of Annual return on afforestation	In Part-V, item no. 4.4 of the Annual Return for the year 2016-17, the plantation done was given as Nil.	The information furnished has been found to be correct as during the period under review no plantation has been done as during the period the mine was not in operation.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	In Part-V, Sec 4 of the Annual Return (2016-17), the information on Mineral Reject generation was Nil.	No Mineral Reject generation from the mine was reported during the period under review.	Nil



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9f	Scrutiny of Annual return on ROM stock and/or graded ore	In Part VI, item no. 1 & 2(A), of the Annual Return (2016-17), the ROM stock (opening balance) and Closing stock were shown as below:- Opening stock = 40-45% Al2O3: 102.395 MT; Closing Stock = 40-45% Al2O3: 102.395 MT.	The figure given for Opening stock and Production were in conformable with the figure furnished through Monthly Returns. Since, the mine was not in operation, the production was Nil from July, 2012.	Nil
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 as Nil in Part-VI and VII of the Annual Return for the year 2016-17.	The figure furnished were correct as there was no dispatch from the mine due to non-operational status of the mine from July, 2012.	Nil
9h	Scrutiny of Annual return on fixed assets	The value of Fixed Assets was given as Nil in Part-IIA of the A.R. 2016-17, under Capital structure.	The value of Fixed Assets of the lessee for the year 2016-17 was shown as Nil in Part-IIA of the A.R, under Capital structure.	Nil
9k	Scrutiny of Annual return on mining machineries	In Part-V, Sec 5/6/8/9 of the Annual Return 2016-17, no unit was shown in the list of mining machinery.	The information furnished was correct as the mine became non-operative from July, 2012.	Nil

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(B.L. KISKU)

Indian Bureau of Mines

**Signed by Babulal Kisku****Date: 19-03-2024 16:56:42****Reason: Approved**