

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

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : BIH/GLA/BX/217/RRO

Mine code : 07BHR32004

- (i) Name of the Inspecting : **B001**) **SAGAR BODRA**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : **SRI R.SINGH, REPRESENTATIVE OF LESSEE.**
Official with
Designation
- (iv) Date of Inspection : 16/03/2018
- (v) Prev.inspection date : 05/09/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHIRODIH (16.5)**
- (b) **Registration NO.** : **IBM/4139/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : JHARKHAND
District : GUMLA
Village : CHIRODIH
Taluka : BISHUNPUR
Post office : JOBHIPAT
Pin Code :
FAX No. : NIL
E-mail : NIL
Phone : N.A.
- (f) Police Station : BISHUNPUR
- (g) First opening date : 01/02/1974
- (h) Weekly day of rest : THU
2. Address for : VILL-CHIRODIH
correspondance : PO-JOBHIPAT
DIST-GUMLA
3. (a) Lease Number : BHR0255
- (b) Lease area : 16.59
- (c) Period of lease : 15
- (d) Date of Expiry : 19/11/1988
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : VIVEK GARG
LAKE AVENUE, KANKE ROAD
RANCHI RANCHI JHARKHAND
Phone:0651-208947
FAX :

Owner : VIVEK GARG
LAKE AVENUE, KANKE ROAD
RANCHI RANCHI JHARKHAND
Phone: 0651-208947
FAX :

Agent : PREAM PRAKASH JHA
LAKE AVENUE, KANKE ROAD
RANCHI RANCHI JHARKHAND
Phone:
FAX :

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	11/07/1997
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	04/04/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No valid approved document is available.	No exploration was carried out during the year 2012-13 as the mine was not in operation from 2012-13 to till date. Backlog of 05 boreholes still existsted.	The T.D notice received w.e.f 01.02.2012.
1b	Exploration over lease area for geological axis 1 or 2	No valid approved proposal available.	Previously 11 nos. of DTH were given at a grid interval of 100m X 100m with total metrage of 116.1m having maximum and minimum depth of hole at 11.5m and 9.5m respectively. During 2012-13, no exploration was carried out as per proposal, since the mine became non-operative from 01.02.2012 (TD notice received) due to non-availability of CTO. During 2017-18, no exploration was carried out by the lessee.	Since 10.09.2014, the working was discontinued by the order of State Govt. for renewal of lease and T.D notice received. On the date of inspection the mine was not in operation.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No valid approved proposal is available.	No information available.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No valid approved proposal is available.	The proposed exploration was not carried out and the reason for the same has been mentioned at item no. 1(b).	Nil

1e	Balance reserve as on 01/04/20	No valid approved proposal is available. However, as per approved Mining Plan dated 04.04.2012, valid for the plan period 2008-09 to 2012-13 the Reserve/Resource as on 01.04.2011 was as given below:- Proved Reserve(111): 1088628 MT; Probable Reserve(122): 91630 MT; Resource(211+221): 600631 MT.	The Reserve/Resource position as on 01.04.2018 was as given below:- Proved Reserve(111): 1064017 MT (Al2O3- 45.85% & SiO2- 2.83%); Probable Reserve(122): 91630 MT (Al2O3- 45.85% & SiO2- 2.83%); Resource(211+222): 600631 MT (+40% Al2O3 & < 3% SiO2).	There was no production from the mine during 2015-16 to 2017-18.
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable.	Bauxite deposit of the area is mostly associated with laterite, occurs as irregular and discontinuous lenses or tabular bodies within the laterite capping. 11 nos. of DTH were given in the lease area. The maximum thickness of Bauxite horizon encountered in the DTH was 7.2 m followed by lithomargic clay. The proposed exploration of 05 coring boreholes during 2012-13 could not be carried out by the lessee as the mine was not in operation during 2012-13 to 2013-14.	Since 10.09.2014, the working was discontinued and T.D notice received. On the date of inspection the mine was not in operation.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	No valid approved proposal is available.	The lessee had previously developed five (05) quarraries within the lease area viz. Quarry no. 1, 2, 3, 3B and 4. Quarry no. 1, 2 & 3 have been merged together to form a single quarry (Quarry no. 1). As per proposal, the development work was taken up in Quarry no. 1 and Quarry no. 4. The mine became non-operative w.e.f 01.02.2012 (TD notice received) due to CTO. The mine was not in operation during 2012-13. The mine re-opened during April, 2014 and worked upto August, 2014.	Since 10.09.2014, the working was discontinued by the order of State Govt. for renewal of lease and T.D notice received. On the date of inspection the mine was not in operation.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No valid approved proposal is available.	Separate benches in Top soil/Overburden and Bauxite were developed within stipulated dimension.The Top soil and OB bench was of 1.5m-2m thickness and Bauxite bench was of 2-3m thickness. The quarry wise dimension of benches were as given below:- Quarry no. 1: OB (Top soil bench)- 01 no. having 1.5-2m height; Bauxite- 01 no. having 2-2.5m height; Quarry no. 3B: OB (Top soil bench)- 01 no. having 3m height; Bauxite- 01 no. having 2m height; and	Quarry no. 4: OB (Top soil bench)- 01 no. having 1m height; Bauxite- 01 no. having 3m height.
2c	Stripping ratio or ore to OB ratio	No valid approved proposal is available.	The mine became non-operative from 10.09.2014 by the order of State Govt. for renewal of lease.	Nil
2d	Quantity of topsoil generation in m3	No valid approved proposal is available.	The mine was non-operative from 10.09.2014 by the order of State Govt. for renewal of lease.	Nil

2e	Quantity of overburden generation in m3	No valid approved proposal is available.	The quantity of OB generation during last nine years is given below:- i. 2008-09: N.A; ii. 2009-10: N.A; iii. 2010-11: N.A; iv. 2011-12: 3000 MT; v. 2012-13: Nil; vi. 2013-14: Nil; vii. 2014-15: 32000 MT; viii. 2015-16: Nil; ix. 2016-17: Nil. x. 2017-18: Nil	The working was discontinued by the order of State Govt. for renewal of lease since 10.09.2014 and T.D notice received.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No valid approved proposal is available.	The lessee had previously developed five (05) quarraries within the lease area viz. Quarry no. 1, 2, 3, 3B and 4. All the quarries were developed on the Eastern part of the lease. As per proposal the development work during 2011-12 and 2012-13 were taken up in quarry no. 1, on the Northeren part of lease and in quarry no. 4, at the Central part of the lease. Quarry no. 1, 2 & 3 have been merged together to form a single quarry (Quarry no. 1).	Nil

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.	During 2008-09 to 2011-12, all the five quarries including quarry no. 1 and 4 were worked for production. During 2012-13, no production was reported from the mine as the mine was not in operation during the period. The lessee had previously developed five (05) quarries within the lease area viz. Quarry no. 1, 2, 3, 3B and 4. Quarry no. 1, 2 & 3 have been merged together to form a single quarry (Quarry no. 1).	The dimension of quarries were as given below:- Q1: 258m X 110m X 4.5m; Q3B: 18m X 18m X 5m; and Q4: 115m X 50m X 4m.
3b	Quantity of ROM mineral production proposed	No valid approved proposal is available.	The quantity of ROM mineral production during last seven years is given below:- i. 2010-11: 2671 MT; ii. 2011-12: 1630 MT; iii. 2012-13: Nil; iv. 2013-14: Nil; v. 2014-15: 22981 MT; vi. 2015-16: Nil; vii. 2016-17: Nil. viii. 2017-18: nil	The working was discontinued by the order of State Govt. for renewal of lease and T.D notice received. On the date of inspection the mine was not in operation.
3c	Recovery of sailable/usable mineral from ROM production	No valid approved proposal is available.	Not applicable as the mine was not in operation since 10.09.2014 till the date of inspection of the mine.	Nil
3d	Quantity of mineral reject generation	No proposal available for mineral rejects generation.	No mineral reject generation was reported from the mine.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as there was no proposal of Mineral reject generation. Further, the threshold value for Bauxite has been fixed at 30% Al ₂ O ₃ & <5% SiO ₂ .	No Mineral Reject generation had been reported from the mine 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 , thus the threshold value varies from 30-40% of Al ₂ O ₃ & < 5% SiO ₂ .	Nil

3f	Quantity of sub grade mineral generation.	No valid approved proposal is available.	No sub-grade Bauxite production has been reported so far from the mine. However, whatever sub-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.	Nil
3g	Grade of sub grade mineral generation	There was no valid proposal for Sub-grade mineral generation.	Not applicable as there was no sub-grade generation reported from the mine.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	There was no valid proposal for want of approved document.	The Bauxite ore after blasting was segregated manually from ROM. The large lumps of Bauxite were broken into small pieces(10 cm size). The mining operation is discontinued w.e.f 01.02.2012 (TD notice received) for want of CTO and later w.e.f 10.09.2014 by the order of State Govt. for lease renewal.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	There was no valid proposal for want of approved document.	No analysis or beneficiation study was carried out for sub-grade mineral and reject material as no sub-grade mineral and reject material was reported to be generated from the mine.	Nil

3j	Provision of drilling and blasting in mineral benches	No valid approved proposal is available.	Drilling with DTH (88-10 mm dia) and blasting were done in the mine during the period 2008-09 to 2011-12. The mine became non-operative from 01.02.2012 (TD notice received) for want of CTO. For OB and Bauxite, the Burden and Spacing were kept at 1m X 1.5m. For OB removal, the depth of hole was kept at 2.2m and for Bauxite it was kept at 3.3m with 10% of SG drilling in both the cases.	Nil
3k	Provision of mining machineries in mineral benches	There was no valid approved proposal available.	The machineries proposed were in use during the year 2008-09 TO 2011-12. During the year 2014-15 to 2017-18, the mine was not in operation hence no machinery was seen as on the date of inspection at the mine site.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No valid approved proposal available.	During 2010-11 and 2011-12, the mine was in operation under 'A'-OTFM category. In actual practice the height of bench in Top soil and OB was kept between 1.5-2m in all the five quarries and in Bauxite, the height was kept at 1.5-3m. The width of the benches was maintained at 3m in all the quarries. The height and width of benches are in conformity with the method of mining adopted under 'A'-OTFM category.	Nil
3m	Total area covered under excavation/pits	No valid approved proposal available.	Upto 2017-18, a cumulative of about 3.74 Ha area was covered under excavation.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	No valid approved proposal is available.	Not applicable as the mine became non-operative from 10.09.2014 by the order of State Govt. for renewal of lease.	

3o	Total area put in use under different heads at the end of year	No valid approved proposal is available.	Upto 2016-17 the total area put to use was as under:- i. Quarry- 3.74 Ha (Including 0.46 Ha of backfilling area); ii. Infrastructure & Road- 0.34 Ha; iii. O.B Dump: 0.97 Ha; Total area put to use: 5.05 Ha; and Total unused area: 11.54 Ha out of total lease area of 16.59 Ha.	Nil
3p	Production of ROM mineral during the last five year period as applicable	No valid approved proposal available.	The quantity of ROM mineral production during last nine years is given below:- i. 2008-09: 12444 MT; ii. 2009-10: 7226 MT; iii. 2010-11: 2672 MT; iv. 2011-12: 1630 MT; v. 2012-13: Nil; vi. 2013-14: Nil; vii. 2014-15: 22981 MT; viii. 2015-16: Nil; and ix. 2016-17: Nil. x. 2017-18: Nil	The working was discontinued by the order of State Govt. for renewal of lease and T.D notice received. On the date of inspection the mine was not in operation.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable.	The mine was not in operation from 10.09.2014 by the order issued by the State Govt. due to renewal of lease. As on date of inspection there was no valid approved document available. no fresh violation was pointed out to the party.	Nil

Solid Waste Management - Dumping:

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 available.	The mine was not in operation since 10.09.2014 to till date of inspection of the mine. Seven(07) nos. of old dumps existed within the lease area. The dimension of dumps were as given below:- OB/Waste dumps:- i. Dump no.1: 92m X 72m X 10m; ii. Dump no.2: 104m X 24m X 4m; iii. Dump no.3: 18m X 12m X 1.5m; iv. Dump no.4: 40m X 16m X 1.2m; v. Dump no.5: 46m X 22m X 2m; vi. Dump no.6: 42m X 24m X 1m; vii. Dump no.7: 30m X 28m X 3.5m.	Nil
4b	Location of topsoil, OB and mineral reject dumps	There was no valid approved proposal available.	Seven (07) nos. of old OB/Waste dumps existed within the lease area. All the dumps were located from North to South along the central margin of lease area near the quarries. Dump no. 1, 4, 5, 6 & 7 were located at the Central part of lease area while dump no. 2 & 3 were located on the Northern part of lease area. Previously there were nine (09) dumps, out of which material of two dumps were utilized for part backfilling of Quarry no. 1, located on the Northern part of the lease.	Nil
4c	Number of dumps within lease area and outside of lease area	No valid approved proposal available.	The mine was not in operation since 10.09.2014 to till date of inspection of the mine. Only, seven (07) nos. old OB/Waste dumps existed within the lease area. There was no dump outside lease area.	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No valid approved proposal available.	The existing dumps (07 nos.) were located outside the Ultimate Pit Limit (UPL).	Nil
4e	Number of active and alive dumps.	No valid approved proposal available.	All the seven (07) dumps present within the lease area were active. There was no dead dump present within the lease area.	Nil
4f	Number of dead dumps.	No valid approved proposal available.	There was no dead dump present within the lease area. All the dumps were active.	Nil
4g	Number of dumps established.	There was no proposal.	No dump was established as all the seven (07) dumps were active.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No valid approved proposal available.	Retaining wall was constructed only along the toe of Dump no. 1	Nil
4i	Length of Retaining wall or garland drain all along dumps	No valid approved proposal available.	The length of retaining wall along Dump no. 1 was around 30m.	Nil
4j	Number of settling ponds	No valid approved proposal.	No settling pond was created within the lease area.	Nil
4k	Specific comments of inspecting officer on waste dump management	No valid approved proposal available.	Seven (07) nos. of old OB/Waste dump existed within the lease area. All the seven dumps have become stabilized by natural phenomena in course of time. There was no problem in dump management as height of the dumps were maintained within manageable limit of 1-4m except Dump no. 1, which is of about 10m height and where retaining wall has been constructed for stabilization.	Nil

Solid Waste Management - Backfilling:

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.	No valid approved proposal available.	Backfilling was done in quarry no. 1 over an area of 0.46 Ha, on the Northern part of lease.	Nil
5b	Area under backfilling of mined out area	No valid approved proposal available.	Upto 2017-18, 0.46 Ha area was backfilled on the Northern part of lease in quarry no. 1.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No valid approved proposal available.	The top soil so generated was dumped over old existing OB/Waste dumps located within the lease. The top soil was not utilized over backfilled area.	Nil
5d	Total area fully reclaimed and rehabilitated	No valid approved proposal available.	Upto 2017-18, about 0.46 Ha area was backfilled in quarry no. 1. The top soil was not spread over the backfilled area and also the backfilled area was not rehabilitated.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No valid approved proposal available.	Upto 2017-18, about 0.46 Ha area was backfilled in quarry no. 1 on the Northern part of lease area. The top soil was not spread over the backfilled area and also the backfilled area was not rehabilitated.	Nil

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 valid proposal.	The Annual Report on PMCP under Rule- 23E(2) was submitted by the party for the period 2008-09 to 2012-13. The same for the period 2013-14 onward was not submitted as no proposal on PMCP was available.	Nil
6b	Area available for rehabilitation (ha) .	No valid approved proposal available.	No rehabilitation was done.	Nil

6c	afforestation done (ha).	No valid approved proposal available.	During 2014-15, about 100 nos. of plantation were done within the lease area covering 0.22 Ha with 30% survival rate. No further data on plantation after 2014-15 was available.	Since 10.09.2014, the working was discontinued by the order of State Govt. for renewal of lease and T.D notice received. On the date of inspection the mine was not in operation.
6d	No. of saplings planted during the year	No valid proposal available..	During the 2014-15, 100 nos. of plantation were done by the lessee. No further information on plantation was available since the mine became non-operative from 10.09.2014.	Nil
6e	Cumulative no .of plants	No valid approved proposal available.	No cumulative data on plantation was available.	Nil
6f	Any other method of rehabilitation	No valid proposal available.	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	No valid proposal available.	No information available.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No valid proposal available.	Backfilling was done in two blocks over an area of 0.46 Ha in Quarry no. 1 on the Northern part of lease area. The dimension of backfilled area was 95m X 36m and 54m X 50m in two blocks.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No valid approved proposal available.	Only backfilling was done in two blocks in quarry no. 1 on the Northern part of lease. The amount of material used for backfilling was not available.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No valid proposal available.	No afforestation was done on backfilled area.	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	There was no valid proposal.	No water reservoir was constructed.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No valid proposal.	Only backfilling was carried out.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	There is no recorded Waste land within the lease area.	Not applicable.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	There was no such proposal as no waste land exists in the lease area.	Not applicable.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal available.	Not applicable.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	No specific proposal was available.	During the period 2008-09 to 2012-13, no environmental monitoring was carried out. The mine became non-operative from 01.02.2012 (TD notice received) due to non-availability of CTO. The mine re-opened during April, 2014 and production was there during April, 2014 to August, 2014. Since 10.09.2014, again the working was discontinued by the order of State Govt. for renewal of lease and T.D notice received. On the date of inspection the mine was not in operation.	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No valid approved proposal available.	Not much effort could be made by the lessee to adhere with the proposal made in the last approved Mining Plan along with PMCP valid for the plan period 2008-09 to 2012-13, in context to excavation schedule, production target, backfilling etc. Upto 2016-17, a cumulative of about 3.74 Ha area was covered under excavation and 0.97 Ha area was covered under dump. The retaining wall was constructed for about 30m along the toe of the dump located along the Western edge of lease boundary.	No green belt and garland drain were created.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No valid approved available.	Bauxite of this mine is pre-dominantly metal grade having (+) 45% Al ₂ O ₃ content. The dispatch figure for last nine year is given below:- i.. 2008-09: 12128.595 MT; ii. 2009-10: 7472.24 MT; iii. 2010-11: 3062.355 MT(Al ₂ O ₃ : 45-50%); iv. 2011-12: Nil; v. 2012-13: Nil; vi. 2013-14: Nil; vii. 2014-15: 24476.84 MT(Al ₂ O ₃ : 45-50%); viii. 2015-16: Nil; and ix. 2016-17: Nil. x. 2017-18: Nil	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No valid approved proposal available.	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 were systematically followed to ensure that ore is not being mixed with waste material.	Nil
7c	Different grade of mineral sorted out at mines.	No valid proposal.	Generally two types of ore stack were made within the mine site. One of <40% Al2O3 and the other of >40% Al2O3 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.	Since 10.09.2014, again the working was discontinued by the order of State Govt. for renewal of lease and T.D notice received.
7d	Any beneficiation process at mines .	No valid proposal available.	No mineral beneficiation was done, only manual sorting, screening and sizing were done at the mine site.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No valid proposal.	No beneficiation was carried out at the mine site. For Mineral Conservation aspect, lessee had deployed suitable nos. of workers for grade wise sorting, blending etc to avoid mixing of ore with deleterious material. The year wise employment figure is given below:- i. 2008-09: 20 nos.; ii. 2009-10: 14 nos.; iii. 2010-11: 20 nos.; iv. 2011-12: 15 nos.; v. 2012-13: Nil; vi. 2013-14: Nil; vii. 2014-15: 25. viii. 2015-16: Nil; ix. 2016-17: Nil. x. 2017-18: Nil	Since 10.09.2014, the working was discontinued by the order of State Govt. for renewal of lease and T.D notice received.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No valid approved proposal was available.	The top soil removal figure was not available. The top soil so generated was dumped haphazardly in the lease area, near the quarries.	Nil
8b	Concurrent use or storage of topsoil	No valid approved proposal available.	The top soil was stored near the quarries in the lease area.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No valid proposal.	The proposed Top soil and OB dumps could not be created as the mine became non-operative from 01.02.2012. Seven (07) nos. of old dumps existed within the lease area. The dimension of dumps has been given in para 4(a) of the report.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No valid proposal.	The OB material was dumped over old existing dumps located near the quarries.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No valid approved proposal is available.	Not applicable.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No valid approved proposal is available.	The figure for plantation is not available for the plan period 2008-09 to 2012-13. During 2014-15, about 100 nos. of plantation were done within the lease area covering 0.22 Ha with 30% survival rate.	Nil
8g	Survival rate	No valid proposal.	During the plan period of 2014-15, the survival rate was around 30%. No further information about plantation was available.	Nil

8h	Water sprinkling on roads to control airborne dust	No valid approved proposal available.	Since 10.09.2014, the working was discontinued by the order of State Govt. for renewal of lease and T.D notice received.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No valid proposal available.	The area was covered with sparse vegetation. The excavation within the lease area covered only 3.74 Ha, the dump area covered about 0.97 Ha and Infrastructure and Road covered about 0.34 Ha. Thus total about 5.05 Ha land was degraded which comes to around 30% of total lease area. On the Western side of lease area, thick vegetation was observed. The general aesthetic beauty of the lease area was not disturbed as such.	Nil

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 2016-17 covers 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 productio	Party had submitted the Annual Return for the year 2016-17 within stipulated time. The Monthly returns for the year 2016-17 were also regularly submitted by the party. The Annual return for the year 2017-18 yet to be submitted.	Nil
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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In Part-I of the Annual Return for the year 2016-17, information regarding Full time Mining Engineer and Full time Geologist are to be submitted under item no. 8 & 9 since it is a 'A'-OTFM category mine. The name of Mining engineer and Geologist were not given under item no. 8 & 9 of the Annual Return for the year 2016-17.	No violation was pointed out regarding appointment of Mining Engineer and Geologist. Since, during previous inspection Violation of Rule-42 was pointed out to the party followed by Show Cause notice. The reply submitted by the party in this context was duly considered.	The working was discontinued by the order of State Govt. for renewal of lease and T.D notice received.
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 2017-18 was as under:- i. Area under excavation: 2.03 Ha; ii. Reclaimed: Nil; iii. Dump area: 0.41 Ha; iv. Road and infrastructure : 0.34 Ha.	Upto 2017-18 the total area put to use was as under:- i. Quarry- 3.74 Ha (Including 0.46 Ha of backfilling area); ii. Infrastructure & Road- 0.34 Ha; iii. O.B Dump: 0.97 Ha; Total area put to use: 5.05 Ha; and Total unused area: 11.54 Ha out of total lease area of 16.59 Ha.	Nil
9d	Scrutiny of Annual return on afforestation	The Annual return for the year 2014-17-18 yet to be submitted by the lessee. However, In Part-V, item no. 4.4 of the Annual Return for the year 2016-17, the plantation made was given as 100 within lease area.	Plantation figure for the year 2017-18 not reported by the lessee. However, during 2016-17, no plantation was done by within the lease area as the mine was not in operation since 10.09.2014. The last plantation done (about 100 nos) were during the year 2014-15. Since then, no plantation has been done within the lease area.	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The Annual return for the year 20147-18 yet to be submitted by the lessee. Hwever, In Part-V, Sec 4 of the Annual Return 2016-17, the information on Mineral Reject generation was Nil.	No Mineral Reject generation was reported from the mine.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The Annual return for the year 20147-18 yet to be submitted by the lessee. However, 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- Refractory Grade: 133.771 MT. Closing Stock- Refractory Grade: 133.771 MT.	Not reported by the lessee. The figure given for Opening stock and Closing stock were in conformable with the figure furnished through Monthly Returns.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Annual return for the year 20147-18 yet to be submitted by the lessee. However, the sale value, ex-mine price and production cost were shown Part-VI and VII of the Annual Return for the year 2016-17.	In Part-VI, item no. 2 of the Annual Return 2016-17, the Ex-Mine price was shown as Nil, in Part-VI, item no. 4, the Sale value was shown as Nil and cost of production during 2016-17 was shown as Nil in Part-VII of the Annual Return.	The mine was not in operation during 2017-18.

9h	Scrutiny of Annual return on fixed assets	The Annual return for the year 20147-18 yet to be submitted by the lessee. However, the value of Fixed Assets of the lessee was given in Part-IIA of the A.R for the year 2016-17 as Nil.	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	The Annual return for the year 20147-18 yet to be submitted by the lessee. Hwever, In Part-V, Sec 5/6/8/9 of the Annual Return 2016-17, the machinery used was given as Nil.	During 2017-18, no machinery was in use since the mine was not in operation.	Nil

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
MCDR17	Rule 11(4)	17/05/2018			

Date :

(SAGAR BODRA)

Indian Bureau of Mines