

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

**MCDR INSPECTION REPORT**

**Ranchi regional office**

**Mine file No :** BIH/PAL/GRP/562/RRO

**Mine code :** 28BHR18020

- (i) Name of the Inspecting : **B001** ) **SAGAR BODRA**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri J.N.Prasad, Mine Manager.  
Official with  
Designation
- (iv) Date of Inspection : 09/03/2016
- (v) Prev.inspection date : 17/08/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PURNADIH**
- (b) **Registration NO.** : **IBM/4160/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **JHARKHAND**
- District : **PALAMAU**
- Village : **PURNADIH**
- Taluka : **SATBARWA**
- Post office : **KHAMDIH**
- Pin Code :
- FAX No. : **06562-2222727**
- E-mail : **charanmukesh@yahoo.com**
- Phone : **08987760561/9334700516**
- (f) **Police Station** : **LESLIGANJ**
- (g) **First opening date** : **01/07/1995**
- (h) **Weekly day of rest** : **WED**
2. **Address for** : **AT- PURNADIH**  
**correspondance** **DISTT.- PALAMAU**  
**STATE- JHARKHAND**
3. (a) **Lease Number** : **BHR0504**
- (b) **Lease area** : **81.75**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **05/12/2014**
4. **Mineral worked** : **GRAPHITE** **Main**

## 5. Name and Address of the

Lessee : MOHAN MINERALS  
INDUSTRIAL ESTATE  
SUDNA, DALTONGANJ DIST-  
PALAMAU PALAMAU JHARKHAND  
Phone: 08987760561/9334700516  
FAX : 06562-2222727

Owner : MUKESH CHARAN  
C/O-MOHAN MINERALS, STEEL  
HOUSE, ITKI ROAD, OPP. CITY  
HOSPITAL, HEHAL, RANCHI  
RANCHI JHARKHAND  
Phone: 09334700516/093  
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	06/06/1994
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04/11/2013

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	As per last approved document, valid for the plan period 2012-13 to 2014-15 lapse period 2010-11 to 2011-12). proposed for 15 nos. of boreholes (2013-14: 8 BHs & 2014-15: 7 BHs) were to be given. There was no valid approved proposal available for the plan period 2015-16 onwards.	No boreholes were given during the period 2013-14 & 2014-15 as the mine became non-operative for want of EC. Therefore, backlog of 15 boreholes still exist.	The mine is not in operation from 01.07.2013 for want of EC. The lessee has submitted the TD notice.
1b	Exploration over lease area for geological axis 1 or 2	No valid proposal for the year 2015-16 as there is no valid approved document available .	The proposed exploration was not carried out as the mine was not in operation for want of EC from 01.07.2013. Previously no exploration was carried out by the lessee in the lease area.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal in the last approved document.	No information is available in this context.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire lease area was proposed to be explored by 15 nos. of boreholes during 2013-14 & 2014-15 under G1 and G2 level.	Entire lease area excluding 13 nos. of quarries was to be explored by 15 nos. oh BHs. No exploration has been carried out so far by the lessee other than 13 nos. of quarries opened in the lease area.	Nil

1e	Balance reserve as on 01/04/20	As per approved document, the Reserve/Resource position as on 01.04.2012 was as given below:- Proved(111): 367453.00 MT; Probable(122) : 424246.00 MT; and Remaining Resource(211+222): 49453.00 MT.	After depleting the production of 5010 MT reported from the mine during the period 2012-13 to 2015-16 (Production reported during 2012-13 only) the Reserve/Resource position as on 01.04.2016 is as given below:- Proved(111): 362443.00 MT; Probable(122): 424246.00 MT; and Remaining Resource(211+222): 49453.00 MT.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable.	The Graphite deposit in the lease area occur along the foliation as disseminated minute crystals in Schists and Calc-Silicates and as vein deposit along the Pegmatoid veins. Several graphite veins were occurring in the lease area having thickness varying from 3.7m to 12.5m. The general trend of the graphite body is E-W with 70 degree inclination towards North. The av. grade of Graphite is about 11.317 F.C. No exploration has been carried out so far in the lease area in the form of boreholes.	Nil

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Development :

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Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Proposed to develop quarry no. 2 (on the SW part of lease) during the plan period 2012-13 to 2014-15 (2010-11 to 2011-12 was lapse period). There was no valid proposal available for the period 2015-16 onwards. During	Quarry no. 2 was developed upto June, 2013 as per proposal of 2010-11 to 2014-15. Besides quarry no. 2, quarry no. 6 and 7 were also worked upto June, 2013.	The mine is not in operation from 01.07.2013.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches were proposed to be developed in Soil, OB/Waste and Graphite. The height of Soil and OB bench were proposed to be of 3m followed by Graphite bench of 6m. The width of benches were proposed to be 6m.	Separate benches were formed in Soil, OB and Graphite. In Soil and OB, the bench dimension was 1.5-3m X 1.5m (height X width) and in Graphite the bench dimension was 3m X 3m.	Nil
2c	Stripping ratio or ore to OB ratio	As per approved document, the Stripping ratio or Ore to OB ratio during the year 2012-13 to 2014-15 (2010-11 to 2011-12 was lapse period). was proposed to be 1:1.5.	During the year 2013-14 to 2015-16, the mine was not in operation hence the Ore to OB ratio could not be calculated.	The mine is not in operation from 01.07.2013 for want of EC.

2d	Quantity of topsoil generation in m3	<p>No proposal for Top Soil generation during the period 2015-16 in absence of approved document.. However, as per approved Scheme of Mining the proposed year wise top soil generation during the period 2010-11 to 2014-15 was as given below:-  2010-11: N.A (Lapse period);  2011-12: N.A (Lapse period);</p>	Top Soil generation figure is not available	Nil
		<p>2012-13: 8130 MT;  2013-14: 13454 MT;  2014-15: Nil.</p>		
2e	Quantity of overburden generation in m3	<p>No valid proposal of OB generation for the period 2015-16 onwards is available. The year wise proposed OB generation is as given below:-  2010-11: N.A (Lapse period);  2011-12: N.A (Lapse period);</p>	<p>Year wise OB generation during last five years is as given below:-  2010-11: N.A;  2011-12: N.A;  2012-13: 6000 MT;  2013-14: Nil;  2014-15: Nil;  2015-16: Nil.</p>	<p>The mine is not in operation from 01.07.2013 for want of EC. Further, 2010-11 to 2011-12 was lapse period.</p>
		<p>2012-13: 77298 MT;  2013-14: 101022 MT;  2014-15: 57301 MT.</p>		

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable.	The mine was in operation during the year 2010-11 to 2012-13 (upto June, 2013) and had worked within quarry no. 2. The production level was much lower than the proposed one. Altogether thirteen (13 nos.) quarries have been opened in the lease area earlier. Proposal was given to develop Quarry no. 2 only and the same was adhered to until Temporary discontinuance of the mine w.e.f 01.07.2013 for want of EC. Mainly flaky variety of Graphite occurred in the lease area.	Nil
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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No valid proposal available for the yaer 2015-16 .	The mine is not in operation from 01.07.2013 for want of EC. Earlier 13 nos. of quarries were opened in the lease area. During the year 2010-11 to 2012-13(upto June, 2013), Quarry no. 2 was developed for production.	Nil

3b	Quantity of ROM mineral production proposed	No valid proposal is available for the year 2015-16 onwards. The year wise proposed production as per last approved document was as given below: 2010-11: N.A (Lapse period); 2011-12: N.A (Lapse period); 2012-13: 48125 MT; 2013-14: 50801 MT; 2014-15: 56019 MT.	Actual year wise production for the previous plan period is as given below:- 2010-11: 4145 MT; 2011-12: 4356.5 MT; 2012-13: 2010 MT + 3000 MT(Dump working); 2013-14: Nil; 2014-15: Nil; and 2015-16: Nil.	Nil
3c	Recovery of sailable/usable mineral from ROM production	As per approved document, Proposal for the recovery of Graphite from ROM was around 60%,	The recovery during 2015-16 is not available.	The mine was not in operation during 2015-16. After 2012-13 the mine became non-operative for want of EC.
3d	Quantity of mineral reject generation	No proposal.	No Mineral Reject generation has been reported from the mine.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	No Mineral Reject generation had been reported from the mine earlier hence grade of mineral reject is irrelevant. The threshold value of flaky Graphite is: Fixed Carbon F.C: 2%(Min).	The mine is not in operation from 01.07.2013.
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable as the mine was not in operation during the year 2015-16.	Nil
3g	Grade of sub grade mineral generation	No valid proposal available. .	Not applicable as the mine was not in operation during the year 2015-16.	Nil



3h	Manual / Mechanised method adopted for segregating from ROM	No valid approved proposal available. Manual method was proposed in last approved document for segregating from ROM. Total ROM was proposed to be sorted out by hand picking at mine site.	Not applicable as the mine is not in operation from 01.07.2013. Earlier the Graphite ore was segregated manually from ROM.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No valid approved proposal available.	As previously 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 had been carried out at the mine.	Nil
3j	Provision of drilling and blasting in mineral benches	No valid approved proposal available for the year 2015- 16 onwards.	No information available as the mine was not in operation during 2015- 16. Previously during 2010-11 to 2013-14 (upto 30.06.2013), no drilling and blasting were reported to be carried out.	Nil
3k	Provision of mining machineries in mineral benches	No valid approved proposal available.	During 2015-16, no machinery was in use as the mine was not in operation from 01.07.2013 for want of EC.	Nil

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In the last approved Scheme of Mining, the bench height and width in OB was proposed to be kept within 3m X 6m while that in Mineral the bench height and width was proposed to be kept within 6m X 6m . The height and width of benches were proposed suitably based on OTFM category of mine using machinery.	The bench dimension in Soil and OB was 1.5-3m X 1.5m (height X width) and in Graphite the bench dimension was 3m X 3m. Height and Width of benches in OB and Mineral was found to be suitable for the method of mining proposed.	Nil
3m	Total area covered under excavation/pits	No valid approved proposal available.	Upto 2012-13, a total of about 2.32 Ha area had been covered under excavation as reported. The mine is not in operation from 01.07.2013. Hence upto 2015-16 also, the same area of 2.32 Ha had been covered under excavation as no excavation has been carried out after 2012-13.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	As per approved document, the Stripping ratio or Ore to OB ratio during the year 2012-13 to 2014-15 was proposed to be 1:1.5. During 2010-11 to 2011-12 was lapse period. No further proposal is available.	During the year 2013-14 to 2015-16, the mine was not in operation hence the Ore to OB ratio could not be calculated.	The mine is not in operation from 01.07.2013 for want of EC.

3o	Total area put in use under different heads at the end of year	No valid approved proposal available. As per approved document, the total area put to use after completion of 5 years working, was proposed to be :- Quarry: 3.46 Ha ; Road: 0.49 Ha; Infrastructure : 0.02; Soil Dump- 0.61 Ha; OB Dump: 2.44; Parapet wall & Garland drain: 0.115 Ha; Tailing Pond: 0.01 Ha; Green belt: 0.46 Ha. Total area put to be under use- 7.605 Ha; Balance land proposed to be unused- 74.145 Ha out of total lease area of 81.75 Ha.	Upto 2015-16 t he total area put to use was as under:- Quarry: 2.32 Ha; Road- 0.75 Ha; Infrastructure- Nil; OB Dump- 1.56 Ha; Parapet wall- Nil; Green belt: Nil; Tailing pond: Nil. Total area put to use- 4.63 Ha; Balance land unused- 77.12 Ha out of total lease area of 81.75 Ha.	Nil
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3p	Production of ROM mineral during the last five year period as applicable	There was no valid proposal for the year 2015-16 onwards. The proposed production during 2010-11 to 2014-15 was as given below:- 2010-11: N.A (Lapse period); 2011-12: N.A (Lapse period); 2012-13: 48125 MT; 2013-14: 50801 MT; 2014-15: 56019 MT.	Actual production during the period 2010-11 to 2015-16 is given below:- 2010-11: 4145 MT; 2011-12: 4356.5 MT; 2012-13: 2010 MT +3000 MT(Dump Working); 2013-14: Nil; 2014-15: Nil; 2015-16: Nil.	Nil
3q	General remarks of inspecting officers on method of mining etc.	Not applicable.	Other Than Fully Mechanised(OTFM) method of mining was adopted in the mine by deploying machinerie like- i. Excavator (0.9 cu.m)- 2 nos.; ii. Poclain- 1no.; iii. Dumper (10 MT)- 3 nos.; iv. DG set (20 KWH)- 1 no. etc. The bench height was also maintained within stipulated dimension.	Nil

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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)	There is no valid approved proposal for the year 2015-16 onwards. In the last approved document, there was proposal for creation of 3 nos. each of temporary Waste and Soil dump within the lease area.	There existed three old OB/Waste dumps within the lease area. One old Waste dump was located on the Southern lease boundary, the other two were located on the South of Quarry no. 1 and West of Quarry no. 7 within the lease area. There was another very old Waste dump, located outside lease area which was created at the initial stage of commencement of mining operation. The proposed dumps were not created as the mine became non-operative from 01.07.2013.	Nil
4b	Location of topsoil, OB and mineral reject dumps	There is no valid approved proposal available for the year 2015-16 onwards. In the last approved document. The Top soil and OB/Waste were proposed to be dumped temporarily within the lease area near quarry no. 1, 2 and 7.	The proposed dumps were not created as the mine became non-operative from 01.07.2013 for want of EC. However, three (03) nos. of old waste dumps existed within the lease area near quarry no. 1, 2 and 7. There was another very old Waste dump, located outside lease area which was created at the initial stage of commencement of mining operation. There was no Mineral Reject dump within the lease area as no Mineral Reject generation was reported.	Nil
4c	Number of dumps within lease area and outside of lease area	No valid approved proposal available for the year 2015-16 onwards.	Three (03) nos. of old waste dumps existed within the lease area near quarry no. 1, 2 & 7. There was one very old waste dump existed outside lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No valid proposal available.	The present existing three old waste dumps were located within the UPL.	Nil

4e	Number of active and alive dumps.	There was proposal for creation of 3 nos. of active Waste dump and Soil dump within the lease area during the plan period of last approved document.	There existed three old OB/Waste dumps within the lease area. One old Waste dump was located on the Southern lease boundary, the other two were located on the South of Quarry no. 1 and West of Quarry no. 7 within the lease area. There was another very old Waste dump, located outside lease area which was created at the initial stage of commencement of mining operation. The proposed active dumps were not created as the mine became non-operative from 01.07.2013.	Nil
4f	Number of dead dumps.	No proposal.	There existed three old OB/Waste dumps within the lease area which have become dead as natural vegetation has grown over it due to non-working status of the mine from 01.07.2013 for want of EC.	Nil
4g	Number of dumps established.	No valid approved proposal available.	No dump has been established manually but three existing old dumps were established through natural vegetation over it.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and Garland drain were not proposed around the temporary OB/Waste in the last approved document	Retaining wall and Garland drain have not been constructed along the existing dumps as there was no such proposal.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal available.	Retaining wall and Garland drain have not been constructed along the existing dumps.	Nil
4j	Number of settling ponds	No proposal is available.	No such settling pond has been created within the lease.	Nil

4k	Specific comments of inspecting officer on waste dump management	Not applicable.	Lessee had created 03 no. of old OB/Waste dumps within the lease area and one OB/Waste dump outside lease area. All the existing old dumps were established naturally by vegetation grown over it. There was no problem in dump management as the dumps were of moderate height (3-3.5m).	Nil
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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 is available.	Backfilling was not started as it was not proposed earlier.	Nil
5b	Area under backfilling of mined out area	No valid approved proposal available.	The area under backfilling was nil as it was not proposed.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	The concurrent backfilling/reclamation work not initiated in the mine as the same was not proposed in the earlier approved Scheme of Mining (2010-11 to 20104-15). No further valid approved proposal available.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil, as the area was not matured for backfilling and reclamation.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable.	There was no proposal for backfilling and Reclamation within the lease area as such no area has been Backfilled/Reclaimed. Hence no remark on the item can be offered. Moreover, the area is not matured for backfilling and reclamation.	Nil

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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 proposal.	The Annual Report on PMCP under Rule- 23E(2) has not been submitted by the party for the period 2010-11 to 2014-15. The same was pointed out to the party through violation letter.	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	Area not matured for reclamation/rehabilitati on. Further, there was no proposal for rehabilitataion.	Nil
6c	afforestation done (ha).	No valid approved proposal available for the period 2015-16 onwards. The year wise plantation proposal as per last approved document is given below:- 2012-13: 210 nos.; 2013-14: 270 nos.; 2014-15: 210 nos.	During the period 2010-11 to 2014-15, only 100 nos. of plantation were done within the lease area. The year wise plantation done is given below:- 2010-11: N.A; 2011-12: N.A; 2012-13: 100 nos.; 2013-14: Nil; 2014-15: Nil; and 2015-16: Nil.	The mine is not in operation from 01.07.2013.
6d	No. of saplings planted during the year	No valid approved proposal available for the period 2015-16 onwards.	The year wise plantation done is given below:- 2010-11: N.A; 2011-12: N.A; 2012-13: 100 nos.; 2013-14: Nil; 2014-15: Nil; and 2015-16: Nil. The mine became non-operative from 01.07.2013 for want of EC.	Nil
6e	Cumulative no .of plants	Proposal for cumulative no. of plantation is not available.	The cumulative no. of plantation figure is not available. As per available record, only 10 nos. of plantation were done During 2012-13.	Nil
6f	Any other method of rehabilitation	No proposal available.	No information available.	Nil



6g	Cost incurred on watch and care during the year	No proposal.	No information available as the mine is not in operation from 01.07.2013 for want of EC.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	No proposal available for the year 2015-16 onwards.	Reclamation/Rehabilitation on figure is not available as the same has not been carried out in the mine since the mine has not become matured for the same also there was no such proposal.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No valid approved proposal available for the year 2015-16 onwards.	No backfilling was done in the lease area. Since the area has not become matured for backfilling hence it was not proposed in the last approved Scheme of Mining(2010-11 to 2014-15)	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	Not applicable.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	No water reservoir has been created as there was no such proposal.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Not applicable.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal.	Not applicable.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal available.	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 valid proposal.	No information about Environmental Monitoring during the period 2010-11 to 2014-15 is available. Mine is not in operation from 01.07.2013.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable.	Efforts were made by the lessee to adhere with the proposal made in the last approved Scheme of Mining along with PMCP valid for the plan period 2010-11 to 2014-15 (2010-11 to 2011-12 was lapse period), in context to excavation schedule, production target etc. Backfilling has not been done as the area still not matured for the same. As per available record, only 100 nos. of plantation were done during the year 2012-13. The mine became non-operative from 01.07.2013 for want of EC.	Nil

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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 proposal .	The Graphite of this mine is of flaky variety. The year wise dispatch figure during last five years is given below:- 2010-11: 2225 MT (<12% FC); 2011-12: 3868.2 MT (<12% FC); 2012-13: 4874.5 MT (<12% FC); 2013-14: Nil; 2014-15: Nil; 2015-16: Nil.	The mine is not in operation from 01.07.2013.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No valid approved proposal is available.	Entire ROM production, after seggregating it from OB/Waste, was sent to the processing plant of the lessee located outside the lease area. There was no provision of grade wise sorting of mined out Graphite bearing material at the mine site.	Nil
7c	Different grade of mineral sorted out at mines.	No valid approved proposal is available.	There was no grade wise sorting of mined out graphite bearing material at the mine site. After segregating it from ROM and OB/Waste material manually, entire mined out graphite bearing material was sent to the lessee's processing plant located outside the lease area.	Nil
7d	Any beneficiation process at mines .	No proposal.	No mineral beneficiation was done at the mine site. Lessee has its own processing plant located outside the lease area.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable.	The mineral conservation aspect was skillfully maintained by the lessee by deploying suitable nos. of persons for sorting of graphite bearing material from total ROM. The year wise labour employment is given below:- 2010-11: N.A; 2011-12:163 nos.; 2012-13: 16 nos.; 2013-14: Nil; 2014-15: Nil; 2015-16: Nil.	The mine is not in operation from 01.07.2013 for want of EC.

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Environment:

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Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No valid approved proposal is available for the year 2015-16 onwards. The year wise top soil removal proposal as per last approved document was as under:- 2010-11: Actual (Lapse period); 2011-12: Actual (Lapse period); 2012-13: 8130 MT; 2013-14: 13454 MT; 2014-15: Nil.	The top soil removal figure is not available.	Nil
8b	Concurrent use or storage of topsoil	As per last approved document, there was no proposal for concurrent spreading of top soil. The soil was proposed to be dumped separately on the earmarked location.	The soil could not be dumped separately as per proposal as the mine became non-operative from 01.07.2013 for want of EC.	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No valid approved proposal for the year 2015-16 onwards.	There existed three old OB/Waste dumps within the lease area. One old Waste dump was located on the Southern lease boundary, the other two were located on the South of Quarry no. 1 and West of Quarry no. 7 within the lease area. There was another very old Waste dump, located outside lease area which was created at the initial stage of commencement of mining operation. The proposed dumps were not created as the mine became non-operative from 01.07.2013.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable as there was no such proposal in the last approved document.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No valid approved proposal available.	Not applicable.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No existing plantation has been reported in the last approved Scheme of Mining. It was proposed that 480 nos. of plantation shall be done along the 7.5m safety barrier area during 2012-13 to 2014-15 (2010-11 to 2011-12 lapse period).	No forest area exists within the lease and within 500m of lease area. As per available record, during the period 2010-11 to 2014-15, only 100 nos. of plantation were done within the lease area. The year wise plantation done is given below:- 2010-11: N.A; 2011-12: N.A; 2012-13: 100 nos.; 2013-14: Nil; 2014-15: Nil; and 2015-16: Nil.	Nil

8g	Survival rate	Proposal of 50% survival rate was in the last approved document.	The survival rate was reported to be around 30% during 2012-13.	Nil
8h	Water sprinkling on roads to control airborne dust	No valid approved proposal is available.	No information about Water sprinkling is available.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable.	Aesthetic beauty in and around the mining area has not been disturbed much due to low magnitude of mining. Whatever voids had been created, shall be levelled through backfilling in near future. The mine is not in operation from 01.07.2013 for want of EC.	Nil

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Compliance of Rule 45:

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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 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 production	Party has submitted the Monthly returns regularly within stipulated time for the year 2015-16. The Annual Return for the year 2015-16 has also been submitted within time frame.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The mine is 'A-OTFM' category mine, a full time Mining Engineer and Geologist were to be appointed as per Rule-42(1)(c)(i) with due intimation of the same in Form-I under Rule-46 of MCDR, 1988.	Name of full time Mining Engineer and Geologist were not submitted in the Annual return for the year 2015-16 as the mine was not in operation during the ensuing period.	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 2015-16 was as under:- Area under excavtion: 2.32 Ha; Reclaimed: 0.00; Dump are: 1.56 Ha; Road & Infrastructure : 0.75 Ha.	Upto 2015-16 t he total area put to use was as under:- Quarry: 2.32 Ha; Road- 0.75 Ha; Infrastructure- Nil; OB Dump- 1.56 Ha; Parapet wall- Nil; Green belt: Nil; Tailing pond: Nil. Total area put to use- 4.63 Ha; Balance land unused- 77.12 Ha out of total lease area of 81.75 Ha.	Nil
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 within M.L area was given as Nil and outside M.L area was also given as Nil.	During 2015-16, no plantation was done within or outside mining lease area. During the year 2012-13 only 100 nos. of plantation were done within the ML area with 30% survival rate. The mine is not in operation from 01.07.2013.	Nil
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 from the mine was reported during the period under review. Further, the mine is not in operation since 01.07.2013 for want of EC.	Nil
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- <40% FC Grade: 8.06 MT; Closing Stock- <40% FC Grade: 8.06 MT.	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 Sale value, ex-mine price and production cost were shown as Nil in Part-VI and VII respectively of the Annual Return for the year 2015-16.	The mine is not in operation from 01.07.2013, in Part-VI, item no. 2 of the Annual Returns 2015-16, the Ex-Mine price was shown as Nil. In Part-VI, item no. 5, the Sale value was shown as Nil as it is a captive mine. In Part- VII, the cost of production during 2015-16 was shown as Nil.	Nil
9h	Scrutiny of Annual return on fixed assets	The value of Fixed Assets of the lessee was as Nil in Part-IIA of the A.R for the year 2015-16.	The value of Fixed Assets of the lessee for the year 2015-16 was not shown 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 2015-16, the list of machineries were mentioned as Nil.	As the mine is not in operation from 01.07.2013, no machinery was in use during the period 2015-16.	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
Rule 13(1)	26/03/2016				
Rule 46	26/03/2016	07/04/2016			

**Date :**

(SAGAR BODRA)

Indian Bureau of Mines