INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : BIH/PAL/GRP/559/RRO Mine code : 28BHR18010

(i) Name of the Inspecting : B001) SAGAR BODRA

Officer and ID No.

(ii) Designation : Assistant Mining Geologis

(iii) Accompaning mine : MD. KHALID, GEOLOGIST

Official with Designation

(iv) Date of Inspection : 11/10/2017
(v) Prev.inspection date : 06/03/2017

PART-I : GENERAL INFORMATION

L. (a) Mine Name : MURMA (MLA 5023)

(b) Registration NO. : IBM/153/2011

(c) Category : A Other than Fully Mech.

(d) Type of Working : Opencast

(e) Postal address

State : JHARKHAND
District : PALAMAU
Village : MURMA
Taluka : TUMBAGADA
Post office : TUMBAGADA

Pin Code

FAX No. : 0651- 2212971

E-mail : cgirnc@yahoo.com, cgirnc@gi

Phone : 0651-2214478, 2213295

(f) Police Station : DALTONGANJ
(g) First opening date : 07/04/1990

(h) Weekly day of rest : WED

2. Address for : VILL-MURMA, PO-TUMBAGARHA,

correspondance TAHSIL- SATBARWA, P.S- DALTONGANJ

P.O. - SATBARWA, DIST.: PALAMAU- 822101(JHK)

3. (a) Lease Number : BHR0086 (b) Lease area : 4.93 (c) Period of lease : 15

(d) Date of Expiry : 04/03/2005

4. Mineral worked : GRAPHITE Main

5. Name and Address of the

Lessee : K.K.PODAR

PODDAR HOUSE BARIATU ROAD, P.S. BARIATU RANCHI RANCHI

JHARKHAND

Phone:0651-2313248

FAX :

Owner : K.K.PODDAR

PODDAR HOUSE BARIATU ROAD, P.S. BARIATU RANCHI RANCHI

JHARKHAND

Phone: 0651-2313248

FAX :

Agent : DEVENDRA KUMAR

C/O-B,S.M.D.C PO/DIST-KODERMA BIHAR KODARMA

JHARKHAND Phone: FAX:

Mining Engineer

Name : TAPAN KUMAR SOREN, Full Time

Qualification : B.TECH. (MINING), B.P.Univ., ROURKELA, C

Appointment/ : 15/09/2014

Termination date

Geologist

Name : MR. VIRENDRA KUMAR, Full Time

Qualification : M.Sc.Geology Appointment/ : 21/02/2014

Termination date

Manager

Name : P.N. MISHRA

Qualification : Dip. in Mining, F.C.C.

Appointment/ : 10/07/2009

Termination date

Renewal under rule 24 MCR1960 15/05/2006
MP modif under MCR 1960 21/12/2015

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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 Modification in approved Mining Plan, dated 21/12/2015, valid for the plan period 2015-16 to 2019-20, there was no proposal for putting boreholes to be given during the year 2016-17.	Not applicable.	Thee mine was found closed during the inspection.
1b	Exploration over lease area for geological axis 1 or 2	During the plan period 2015-16, there was proposal of exploration through 05 nos. of boreholes for Geological axis 1. There was no such proposal during the plan period 2016-17.	The exploration was carried out by giving 05 nos. of boreholes during 2015-16 for Geological axis 1. No such exploration has been carried out during the year 2016-17.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal was there in the last approved Modification in approved Mining Plan dated 21.12.2015, valid for the plan period 2015-16 to 2019-20.	The Proservices Pvt. Ltd. was entrusted with the job of exploration. The amount of expenditure incurred towards exploration during the year 2015-16 amounts to approximately Rs. 4.23 Lakh.	Nil

1d Balance area to be explored to bring Geological axis in 1 or 2

As per approved modification in approved mining plan, infilling boreholes were proposed hence balance area to be explored was not proposed.

The five nos. of Nil infilling boreholes were given by the lessee thus covering the entire balance unexplored area. The remaining area within the lease has already been covered under current excavation.

le Balance reserve as on 01/04/20

As per approved Modification in Mining Plan, dated 21.12.2015 valid for the plan period 2015-16 to 2019-20, the Reserve/Resou rce position as on 01.04.2015 was as given below:-Proved(111): 395483.00 MT; Probable(122) : 79811.00 MT; and Remaining Resource (211+ 222): 145253.00 MT.

As per annual return for Nil the year 2016-17, nil production reported Hence, the Reserve/Resource position as on 01.04.2017 remain the same as given below:-Proved(111): 370518.00 MT; Probable(122): 79811.00 MT; and Remaining Resource(211+222): 145253.00 MT.

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 Scihsts and Calc-Silicates and as vein deposit along the Pegmatoid veins. Two graphite veins are prominent in the lease area having width of 30-40m. The general trend of the rock is N 70 E to S 70 W with 50 degree inclination towards SE. Exploration has been carried out in the form of 05 nos. of boreholes during 2015-16.

Development :

l.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	no. 1 to	During the year 2015-16 the proposed development in quarry no. 1 (depthwise) was not carried out. The same was pointed out to the party through violation letter vide this office letter no. BIH/PAL/GRP/559/RRO, dated 02.11.2016. The development was made in quarry no. 2 and 3(Merged).	The mine is not in operation from March, 2016 by the order of DC, Palamau vide letter no. 1372/M, dated 12.03.2016 for want of EC.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	for OB and	The mine is not in operation from March, 2016 by the order of DC, Palamau vide letter no. 1372/M, dated 12.03.2016 for want of EC.	Nil
2c	Stripping ratio or ore to OB ratio	As per approved modification in Mining Plan, dated 21.12.2015, valid for the plan period 2015-16 to 2019-20, the overall Stripping ratio or Ore to OB ratio during the plan period was 1:0.75 and that during 2016-17 was proposed to be 1:0.43.	The mine was not under operation from March,2016 for want of EC. Hence the stripping ration could not be verified.	Nil

2d Quantity of The topsoil generation Nil The proposed topsoil Top Soil figure was not reported generation in m3 generation during the year. The during the mine was not under period 2015-16 operation from to 2019-20 as March, 2016 for want of per approved EC. modification in Mining Plan was 3710 cu.m. The proposed year wise top soil generation during the period 2015-16 to 2019-20 was as given below:-2015-16: Nil; 2016-17: Nil; 2017-18: Nil; 2018-19: 3710 cu.m; 2019-20: Nil. 2e Quantity of The proposed The generation of OB / Nil overburden total 5 years waste was not reported generation in m3 OB/Waste during the year. The generation as mine was not under given in the operation from approved March, 2016 for want of modification in Mining Plan for the period 2015-16 to 2019-20 was given as 85128 cu.m. The year wise proposed OB/Waste generation is as given below:-2015-16: 4264 2016-17: 14781 cu.m; 2017-18: 2072 cu.m; 2018-19: 52422 cu.m; 2019-20: 11589

cu.m.

2f General remarks Not of inspecting apploaficers on development of pit w.r.t. type of deposit etc

applicable.

The mine was in operation during the year 2016-17 and had worked within quarry no. 2 & 3 (merged). The mine is presently not in operation from March, 2016, by the order of DC, Palamau vide letter no. 1372/M, dated 12.03.2016 for want of EC. Mainly flaky variety of Graphite occurs in

Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Quarry no. 1,	-	Nil

the lease area.

3b	Quantity of ROM mineral production proposed	During the year 2016-17, the proposed production was 40268 MT and during the period 2015-16 to 2019-20, the approved year wise proposal of production was as given below:-2015-16: 36907 MT; 2016-17: 40268 MT; 2017-18: 41761 MT; 2018-19: 42155 MT; 2019-20: 50283 MT.	Actual year wise production for the last five years is as given below:- 2012-13: 24908 MT; 2013-14: 28058 MT; 2014-15: 29245 MT; 2015-16: 24965 MT. and 2016-17: Nil	Nil
3c	Recovery of sailable/usable mineral from ROM production	As per approved Modification in Mining Plan, proposal for the recovery of Graphite from ROM is around 90%.	12.03.2016. During 2015-16 the recovery of	Nil
3d	Quantity of mineral reject generation	There was no proposal for Mineral reject generation in the approved Modification in Mining Plan.	The mine is not in operation from March, 2016 for want of EC. No mineral reject generation has been reported from the mine during the year 2016-17.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	as there was no proposal of Mineral reject generation. Further, the threshold	No Mineral Reject generation had been reported from the mine hence grade of mineral reject is irrelevant. The threshold value of flaky Graphite is: Fixed Carbon F.C: 2%(Min).	Nil

Quantity of sub The mine is not in Nil There was no grade mineral proposal for operation from March, generation. Sub-grade 2016 for want of EC. No mineral sub-grade Graphite generation as production has been per approved reported from the mine document. during the year 2016-17 However, whatever subgrade materials were generated from the mine earlier were blended with high grade material before dispatch, maintaining the requisite grade. Thus mineral wastage was avoided and ascertaining mineral conservation aspect. Grade of sub Not applicable as there Nil 3q There was no grade mineral proposal for was no sub-grade generation Sub-grade generation reported from mineral the mine during the year generation 2016-17. The mine was during the not in operation during year 2016-17 , the year 2016-17. hence grade of the same is not applicable. 3h Manual / Manual method The Graphite ore was Nil Mechanised segregated manually from was proposed method adopted for ROM. After loosening the for segregating segregating ore body by CRACKAMITE, from ROM from ROM. Rock Breaker was used Total ROM was for breaking the Ore proposed to be body. sorted out by hand picking at mine site.

Nil

Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.

There was no proposal in the last approved Modification in approved Mining Plan, valid for the plan period 2015-16 to 2019-20, regarding analysis or beneficiation study for subgrade mineral and reject as such there was no proposal for sub-grade and Reject generation from the mine.

As there was no subgrade and mineral reject generation reported from the mine hence no such analysis or beneficiation study of sub-grade mineral and reject have been carried out at the mine.

Provision of 3 ј drilling and blasting in mineral benches

In the last approved Modification in Mining Plan, valid for the plan to 2019-20, there was no proposal for blasting in with JH drill proportion. was proposed for use of CRACKAMITE, a non-explosive material.

No blasting were carried out in the mine. Instead of that, CRACKAMITE, a non-explosive material was used for breaking of rock. For the use of period 2015-16 CRACKAMITE, holes were drilled by Jackhammer upto required depth and thereafter the holes were filled with mineral bench. Crackamite mixed with Only drilling water in appropriate

3k Provision of minina machineries in mineral benches There was proposal to use Hydraulic Excavator, Jack Hammer drill, Compressor, Tipper, DG set, Water pump, Water sprinkler, Water tanker etc.

The mine is not in operation from March, 2016 by the order of DC, Palamau vide letter no. 1372/M, dated 12.03.2016. No machineries were deployed in the mine during the year 2016-17. Nil

Nil

Nil

Nil

Nil

31 Whether height of benches in overburden and mineral suitable in Mining for method of mining proposed in MP/SOM

In the last approved Modification Plan, the bench height and width in kept within and width of benches were proposed on OTFM category of mine using

The mine is not in operation from March, 2016 by the order of DC, Palamau vide letter no. 1372/M, dated 12.03.2016. The height of the benches were OB and Ore was maintained at 6m in OB proposed to be and mineral and width at 3-3.5m both in Mineral 6m. The height and OB. Height and width of benches in OB and mineral was found to be suitable for the method suitably based of mining proposed.

Total area 3m covered under excavation/pits There was proposal to excavate 2.4 the plan to 2019-20.

machinery.

Upto 2016-17, a toal of about 2.17 Ha area had been covered under Ha area during excavation as reported. The mine is not in period 2015-16 operation from March, 2016 by the order of DC, Palamau vide letter no. 1372/M, dated 12.03.2016.

3n Ore to OB ratio for the pit/mine approved during the year. modification

As per in Mining Plan, dated 21.12.2015, valid for the plan period 2015-16 to 2019-20, the overall Ore to OB ratio during the plan period was 1:0.75 and that during 2016-17 was proposed to be 1:0.43.

The mine is not in operation from March, 2016 by the order of DC, Palamau vide letter no. 1372/M, dated 12.03.2016. Hence the ore to OB ratio for the year 2016-17 could not be verified.

Nil

in use under operation from March, approved different heads Modification 2016 for want of EC. The at the end of in Mining Plan existing land use year valid for the pattern as on 2015-16 is plan period as under:-2015-16 to i. Quarry: 1.86 Ha; 2019-20, the ii. Road- 0.15 Ha; total area put iii. Infrastructure-0.015; to use after completion of iv. OB Dump- 0.40 Ha; 5 years working i.e at the end of 2019-20, was proposed to be Quarry(Includi ng backfilled area of 0.71 Ha)-2.4 Ha ;Road- 0.15 Ha; Infrastructure - 0.015; Green belt-0.92; OB Dump- 0.40 Ha; Parapet wall-0.04 Ha. Total area put to be under use- 3.925 Ha; Balance land proposed to be unused- 1.005 Ha out of total lease area of 4.93 Ha. Production of 3р During the Actual production during Nil ROM mineral year 2016-17, the last five years is during the last the proposed given below:five year period production was 2012-13: 24908 MT; as applicable 40268 MT. 2013-14: 28058 MT; 2014-15: 29245 MT; 2015-16: 24965 MT. and 2016-17: NIl

The mine is not in

30

Total area put

As per

3q General remarks of inspecting officers on method of mining etc.

applicable.

Other Than Fully Mrchanised(OTFM) method of mining was adopted in the mine by deploying machinerie likei. JH drill- 1 no. for drilling; ii. Compressor (8.49 CUM/MIN) - 1 no.iii. Excavator (0.6-1.4 cu.m)- 3 nos.; iv. Dumper (10 MT) - 04nos; v. DG set (20 KWH)-1 no.; vi. Pumps (1320 L/MIN) - 1 no. etc. The bench height was also maintained within stipulated dimension.

Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	approved document, no proposal of dumping of top soil, OB/Waste & mineral rejects was made during the year 2016-17. The entire OB/waste		Nil

4b	Location of topsoil, OB and mineral reject dumps	soil, OB/Waste & mineral rejects was made during the year 2016-	One OB/Waste dump located on the eastern part of the lease area. There was no separate top soil dump. Soil having lm thickness is gritty in nature and does not support growth of vegetation. 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 fresh dump was proposed within the lease area during the plan period 2015-16 to 2019-20.	One OB/Waste dump located on the eastern part of the lease area. The mining operation was discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	generated during mining are proposed for simultaneous	The existing OB/Waste dump located on the eastern part of the lease area is outside the ultimate pit limt. The mining operation was discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for	Nil
4e	Number of active and alive dumps.	During the year 2016-17, the entire	One OB/Waste dump located on the eastern part of the lease area. The mining operation was discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil

4f	Number of dead dumps.	No proposal for dead dump within the lease area.	One OB/Waste dump located on the eastern part of the lease area. The mining operation was discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
4g	Number of dumps established.	the plan	The OB/Waste dump located on the Eastern side of lease established by giving parapet wall along the toe of the dump and growing vegetation over it. The working in the mine has been discontinued since 12.03.2016 for want of EC.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	and garland drain were not	Retaining wall has been constructed along the dump located on the eastern side of the lease.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal available in the approved document.	The length of retaining wall along the toe of the eastern side dump is about 120m.	Nil
4j	Number of settling ponds	No such proposal is available.	No settling pond has been created within the lease.	Nil
4k	Specific comments of inspecting officer on waste dump management	Not applicable.	The OB/Waste dump located on the Eastern side of lease established by giving parapet wall along the toe of the dump and growing vegetation over it. The dump is of moderate height. There was no problem in dump management. The working in the mine has been discontinued since 12.03.2016 for want of EC.	Nil

Solid Waste Management - Backfilling:

Sl.No. Item Propasals Actual work Remarks	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	was proposed for concurrent	Backfilling was not started as per proposal made in the approved document. The mining operation was discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
5b	Area under backfilling of mined out area	from 2015-16	The area under backfilling was nil. The mining operation was discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal available in the approved document.	Tposoil having 1m thickness is gritty in nature and does not support growth of vegetation and therefore proposed to be used for backfilling alongwith excavated OB. As on date the concurrent backfilling/reclamation work not initiated in the mine. The mining operation was discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
5d	Total area fully reclaimed and rehabilitated	No such proposal available in the approved document.	As on date the reclamation / reclamation work not initiated in the mine. The mining operation was discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil

5e General remarks Not As per approved NIl of inspecting applicable. document, proposal for officers on backfilling in the north backfilling and western exhausted part of the quarry was to be reclamation etc. initiated from 2016-17. But no area has been backfilled/reclaimed as on date. The mining operation is discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC. Hence no remark on the item can be offered.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	approved	The Annual Report on PMCP under Rule- 23E(2) has been submitted by the party for the period 2016-17.	Nil
6b	Area available for rehabilitation (ha) .	No such proposal was in the approved document.	Area not matured for reclamation/rehabilitati on. As per approved document, proposal for backfilling in the north western exhausted part of the quarry was to be initiated from 2016-17. But no area has been backfilled/reclaimed as on date.	Nil

6c	afforestation done (ha).	During the plan period 2015-16 to 2019-20, about 2300 nos. of plantation were proposed covering 0.92 Ha area asper approved Modification in Mining Plan. Further, during the year 2015-16, 500 nos. of plantation were proposed covering 0.2 Ha area.	During the period 2011- 12 to 2015-16, 350 nos. of plantation were done within the lease area. The year wise plantation done is given below:- 2011-12: N.A; 2012-13: 50 nos.; 2013-14: 50 nos.; 2014-15: 150 nos.; 2015-16: 100 nos.and 2016-17: Nil	Nil
6d	No. of saplings planted during the year	During the year 2016-17, 500 nos. of plantation were proposed covering 0.2 Ha area.	During the year 2017-16, 500 nos. of trees were proposed to be plantated against which no plantation were done. The mining operation is discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
6e	Cumulative no .of plants	2300 no. of plantation were proposed as per approved Modification	The cumulative no. of plantation figure is not available. During the period 2011-12 to 2016-17, about 350 nos. of plantation were done by the lessee within the lease area and 7000 nos. of plantation were done by the lessee outside lease area under Social Afforestation. During the year 2016-17, no plantation were done by the lessee. The mining operation is discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
6f	Any other method of rehabilitation	No proposal available.	Only plantation has been reported as no other method was proposed.	Nil

6g	Cost incurred on watch and care during the year	No proposal available in the last approved document.	Information regardung cost incurred on watch and care during the year is not available. The mining operation is discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	to 2019-20, about 0.71 Ha area was proposed to be backfilled but the dimension of area	Information on backfilling during the year has not been reported. The mining operation is discontinued from March 2016 by the order of DC, Palamau vide letter no. 1372/M,dated 12/03/2016 for want of EC.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	During the period 2015-16 to 2019-20, about 85128 cu.m of OB/Waste material was proposed to be used for backfilling of mined out voids.	No backfilling has been done in the excavated area during the year 2016-17. The mining operation in the mine has been discontinued from March 2016 for want of EC.	Nil
бј	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area		There is no backfilled area thus afforestation on backfilled area is not applicable.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal available.	No water reservoir has been created as there was no such proposal.	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	There was no proposal.	Not applicable.	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal available as there is no Govt. Waste land within the lease area.	Not applicable.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal available.	Not applicable.	Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal available.	Not applicable.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	No specific proposal is available.	No information about Environmental Monitoring during the period 2011-12 to 2016-17 is available.	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 approved Modification in Mining Plan along with PMCP valid for the plan period 2015-16 to 2019-20, in context to excavation schedule, production target, plantation etc. Backfilling has not been done as the area still not matured for the same.	Nil

Mineral Conservation:

Sl.No. Item Propasals Actual work Remarks	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 is available.	The Graphite of this mine is of flaky variety. The year wise dispatch figure is given below:- 2011-12: 27746.361 MT; 2012-13: 24967.921 MT; 2013-14: 28027.9641; 2014-15: 29298.034; 2015-16: 24948.4. 2016-17: Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	approved Modification in Mining Plan, valid for the plan period 2015-16	Entire ROM production, after seggregating it from OB/Waste, was sent to the processing plant of the lessee located at Belchampa, Garhwa district of Jharkhand State. 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 proposal was there in the approved Modification in Mining Plan.	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 is sent to the lessee's processing plant located at Belchampa, Garhwa district of Jharkhand State.	Nil

7d	Any beneficiation process at mines .	mineral	No mineral beneficiation was done at the mine site. Lessee has its own processing plant at Belchampa, Garhwa district of Jharkhand State.	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:- 2011-12: 25 nos.; 2012-13: 22 nos.; 2013-14: 36; 2014-15: 68; 2015-16: 79. 2016-17: Nil 2016-17: Nil	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	approved Modifiaction in Mining	The mining operation is discontinued from March 2016 for want of EC.The top soil removal figure is not available.	Nil

8b Concurrent use or storage of topsoil

As per approved document, there was no proposal for concurrent spreading of top soil as the soil occuring in the area is of gritty in nature and does not support vegetation. Further, during the period 2015-16 to 2017-18 and during 2019-20, there is no proposal of Top soil generation. The soil has been proposed to be generated during the year 2018-19 and that shall be dumped along with OB/Waste material.

The mining operation is discontinued from March 2016 for want of EC. Hence, the generation of top soil during the year 2016-17 has been not reported.

Nil

8c Separate dumps for overburden, waste rock, rejects and fines (Rule 33)

During the plan period 2015-16 to was no proposal for separate dump year 2016-17. for OB, Waste, Rejects and fines were proposed.

The mining operation is discontinued from March 2016 for want of EC. 2019-20, there There is no generation of OB, Waste, Rejects and fines during the

Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is proposal for 0.13 ha of backfilling in the last approved document valid for the plan period 2015-16 to 2019-20 by using 14781 cu.m of OB/Waste material.	The mining operation is discontinued from March 2016 for want of EC. There is no generation of OB, Waste, Rejects and fines during the year 2016-17.	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 Modification in Mining Plan.	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 Modification in Mining Plan. It was proposed that 2300 nos. of plantation shall be done over an area of 0.92 Ha along the 7.5m safety barrier area and on the SW part of the lease area during 2015-16 to 2019-20.	The mining operation is discontinued from March 2016 for want of EC. Plantation has not been reported during the year 2016-17.	Nil
8g	Survival rate	No specific proposal was made in the last approve document.	The mining operation is discontinued from March 2016 for want of EC. Plantation has not been reported during the year 2016-17.	Nil

8h	Water sprinkling on roads to control airborne dust	proposal has	Not applicable. The mining operation is discontinued from March 2016 for want of EC. Plantation has not been reported during the year 2016-17.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable.	The mine is not in operation from March, 2016 by the order of DC, Palamau vide letter no. 1372/M, dated 12.03.2016 for want of EC. The aesthetic beauty in and around the mine has not been disturbed due to mining activitues.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a Status of submission of Monthly and Annual returns

The information furnished in for the year 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 &

The Party has submitted the information Monthly returns furnished in regularly within Annual Return stipulated time for the year 2016-17 and also 2015-16 covers Annual Return for the Part-I of year 2016-17 within the General time frame.

Nil

9b Scrutiny of
Annual return
for information
on Mining
Engineer,
Geologist and
Manager

Since 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) of MCDR, 1988.

Stock and finally Part-VII consists of Cost of productio

Since the mine Name of the Mining is 'A-OTFM' Engineer and Geologist category mine, were submitted in the a full time Annual return for the Mining year 2016-17.

Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	in the Annual Return for the year 2016-17 was as under:- Area under current working: 3.820 Ha; Dump are:	The mine is not in operation from March, 2016 for want of EC. Upto 2015-16 t he total area put to use was as under:- Quarry: 2.17 Ha; Road- 0.15 Ha; Infrastructure- 0.015; OB Dump- 0.40 Ha; Parapet wall- 0.04 Ha. Total area put to use- 2.775 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 within M.L area was given as Nil.	The mine is not in operation from March, 2016 for want of EC.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	4 of the Annual Return 2016-17, the information on	No Mineral Reject generation from the mine was reported during the year. The mine is not in operation since 12.03.2016 for want of EC.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore		The figure given for opening stock and closing stock were in conformable with the figure furnished through Monthly Return.	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	price and production cost were shown in Part- VI and VII respectively of the Annual	12.03.2016 for want of EC. In Part-VI, item no. 2 of the Annual Returns 2016-17, the Ex-Mine price was shown as Rs. 465/ In Part-VI, item	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 2016-17.	The mine is not in operation since 12.03.2016 for want of EC.	Nil
9k	Scrutiny of Annual return on mining machineries		List of machineries given in the annual return for the year 2016-17 are: Excavator-3 nos., Compressor (8.49 CUM/MN)- 2 nos., Dumper (10MT)- 4 nos., DG set (20 KWH)- 1 no., Pumps (Elec)(1320 L/MIN)- 4 nos. These machineries were in use during the year 2015-16. Presently the mine is not in operation since 12.03.2016 for want of EC.	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 or	Rule NO. Issued on Compliance o	'n
MCDR17 Rule 27(2)	16/11/2017	MCDR17 Rule 27(216/11/2017	
Rule 27(2)	16/11/2017	Rule 27(2) 16/11/2017	

Date : (SAGAR BODRA)

Indian Bureau of Mines