

**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 : **S001**) **B K SINGH**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri R N Upadhyay factory manager, Sri Mandeep yadav Su
Official with
Designation
- (iv) Date of Inspection : 17/08/2015
- (v) Prev.inspection date : 19/02/2015

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	In the last approved document 2010-15, there was proposal to drill 15 borehole which was not implemented.	15 boreholes were not drilled.	
1b	Exploration over lease area for geological axis 1 or 2	No valid approved document. Last approved document 2010-15 was valid up to 31.03.2015.	No exploration.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No valid approved document.	No exploration. Mine is not working from September, 2012 for want of E C.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No valid approved document.	Proposal of exploration as envisaged in approved document for the plan period 2010-15 was not implemented. Presently no valid approved document.	
1e	Balance reserve as on 01/04/20	No valid approved document.	Reserve as on 01.04.2012, As per approved document was (111)-367453 MT (122) -424246 MT Mine is not working from September, 2012 for want of E C.	
1f	General remarks of inspecting officers on geology, exploration etc	No valid approved document.	Mine is not working from September, 2012 for want of E C.	Subsequent document submitted for approval was rejected on 09.09.2015.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	No valid approved document.	quarry no 2 & 6 were developed earlier.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No valid approved document.	Seperate benches was there in soil OB and graphite.	
2c	Stripping ratio or ore to OB ratio	No valid approved document.	Mine is not working from September,2012 for want of E C.	
2d	Quantity of topsoil generation in m3	No valid approved document.	Not available.	
2e	Quantity of overburden generation in m3	No valid approved document.	Not available.	Mine is not working from September,2012 for want of E C.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No valid approved document.	Mine is not working from September,2012 for want of E C.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No valid approved document.	Mine is not working from September,2012 for want of E C.	
3b	Quantity of ROM mineral production proposed	No valid approved document.	Mine is not working from September,2012 for want of E C.	
3c	Recovery of sailable/usable mineral from ROM production	No valid approved document.	Mine is not working from September,2012 for want of E C.	
3d	Quantity of mineral reject generation	No valid approved document.	Mine is not working from September,2012 for want of E C.	
3e	Grade of mineral rejects generation and threshold value declared.	No valid approved document.	Mine is not working from September,2012 for want of E C.	
3f	Quantity of sub grade mineral generation.	No valid approved document.	Mine is not working from September,2012 for want of E C.	
3g	Grade of sub grade mineral generation	No valid approved document.	Mine is not working from September,2012 for want of E C.	

3h	Manual / Mechanised method adopted for segregating from ROM	No valid approved document.	Mine is not working from September,2012 for want of E C.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No valid approved document.	Mine is not working from September,2012 for want of E C.
3j	Provision of drilling and blasting in mineral benches	No valid approved document.	Mine is not working from September,2012 for want of E C.
3k	Provision of mining machineries in mineral benches	No valid approved document.	Mine is not working from September,2012 for want of E C.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No valid approved document.	Mine is not working from September,2012 for want of E C.
3m	Total area covered under excavation/pits	No valid approved document.	About 2.4 ha.
3n	Ore to OB ratio for the pit/mine during the year.	No valid approved document.	Data not available.
3o	Total area put in use under different heads at the end of year	No valid approved document.	Area already exploited - 2.4ha,Covered under current working- 0.3ha,Reclaimed - Nil,Area under waste disposal-1.56ha,Area occupied by plant and buildings-0.750ha.

3p	Production of ROM mineral during the last five year period as applicable	Proposed production during 2010-11 to 2014-15 was given below. No proposal for 2015-16 as no valid approved document. 2010-11 : NA (Lapse period) 2011-12 : NA 2012-13 : 48125 MT 2013-14 : 50801 MT 2014-15 : 56019 MT 2015-16 : no valid approved document.	
3q	General remarks of inspecting officers on method of mining etc.	No valid approved document.	NA

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No valid approved document.	Three old dumps are in the rea. One OB dump and two waste dump are there.	
4b	Location of topsoil, OB and mineral reject dumps	No valid approved document.	Mine is not working from September, 2012 for want of E C. old OB and top soil dumps are there in the area near central part of the lease area.	
4c	Number of dumps within lease area and outside of lease area	No valid approved document.	Three old dumps of OB and waste are within the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No valid approved document.	As er approved pal of 2014-15, two dumps were within the UPL .	
4e	Number of active and alive dumps.	No valid approved document.	Three old dumps are in the lease area.	

4f	Number of dead dumps.	No valid approved document.	Three old dumps existing in the area become dead as Mine is not working from September,2012 for want of E C.
4g	Number of dumps established.	No valid approved document.	No dump is stabilised but all three dumps have grown natural vegetation due to no working of mine.
4h	Whether Retaining wall or garland drain all along dumps are there.	No valid approved document.	No Retaining wall or garland drain along the dumps have been constructed.
4i	Length of Retaining wall or garland drain all along dumps	No valid approved document.	No Retaining wall or garland drain.
4j	Number of settling ponds	No valid approved document.	No settling pond seen within the lease area.
4k	Specific comments of inspecting officer on waste dump management	No valid approved document.	Mine is not working from September,2012 for want of E C.

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 document.	Mineral is not fully extracted from the quarriese so backfilling could not be started.	
5b	Area under backfilling of mined out area	No valid approved document.	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No valid approved document.	Backfilling has not yet started hence top soil can not be utilised concurrently.	
5d	Total area fully reclaimed and rehabilitated	No valid approved document.	Area reclaimed or Rehabilitated is nil.	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No valid approved document.	There is no valid approved planning document and area is not matured for reclamation and rehabilitation.
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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 valid approved document.	Mine is not working from September,2012 for want of E C.	
6b	Area available for rehabilitation (ha) .	No valid approved document.	NIL	
6c	afforestation done (ha).	No valid approved document.	NIL	
6d	No. of saplings planted during the year	No valid approved document.	NIL	
6e	Cumulative no .of plants	No valid approved document.	Nota Available as Mine is not working from September,2012 for want of E C.	
6f	Any other method of rehabilitation	No valid approved document.	NO	
6g	Cost incurred on watch and care during the year	No valid approved document.	Not available.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No valid approved document.	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No valid approved document.	NA	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No valid approved document.	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No valid approved document.	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No valid approved document.	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No valid approved document.	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No valid approved document.	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No valid approved document.	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	No valid approved document.	NA
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No valid approved document.	Mine is not working from September,2012 for want of E C.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No valid approved document.	Year wise despatch of ROM is given below: 2010-12 : 2225 MT 2011-12 : 3868 MT 2012-13 : 4874 MT 2013-14 : NIL 2014-15 : NIL	Mine is not working from September, 2012 for want of E C.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No valid approved document.	There is no provision of Grade wise sorting.	
7c	Different grade of mineral sorted out at mines.	No valid approved document.	There is no provision of gradewise sorting of graphite bearing materials at minesite.	
7d	Any beneficiation process at mines .	No valid approved document.	There is no provision of beneficiation at minesite . lessee has its own beneficiation plant outside lease area.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No valid approved document.	Mine is not working from September, 2012 for want of E C.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No valid approved document.	Soil is removed seprately but not utilised as backfillin is not yet started.	
8b	Concurrent use or storage of topsoil	No valid approved document.	Concurrently soil is not used.It is dumped seprately.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No valid approved document.	Seprate dumps have created for dumping OB and waste rock.	Mine is not working from September, 2012 for want of E C.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No valid approved document.	Backfilling not yet started.Mine is not working from September, 2012 for want of E C.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No valid approved document.	NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No valid approved document.	No plantation has been carried by the lessee in the lease area.
8g	Survival rate	No valid approved document.	NA
8h	Water sprinkling on roads to control airborne dust	No valid approved document.	NA
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No valid approved document.	Mine is not working from September,2012 for want of E C.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Lessee has submitted Monthly and Annual Return.	No information available in Monthly and Annual Return as Mine is not working from September,2012 for want of E C.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	as per Annual return Mining engineer and Geologist are not on the roll.	Mining engineer and geologist were not there.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	area under current working- 0.3ha, Area exploited-2.02 ha, Area used for waste disposal-1.56 ha.	Area under current working seems to be incorrect.
9d	Scrutiny of Annual return on afforestation	NA	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not given	NA. Mine is not working from September, 2012 for want of E C.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not Given.	NA
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	No information available.	Mine is not working from September, 2012 for want of E C.
9h	Scrutiny of Annual return on fixed assets	NA	NA
9k	Scrutiny of Annual return on mining machineries	NA	NA, Mine is not working from September, 2012 for want of E C.

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

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

Date :

(B K SINGH)

Indian Bureau of Mines