

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

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : BIH/PAL/GRP/561/RRO

Mine code : 28BHR18006

- (i) Name of the Inspecting : **S001**) **B K SINGH**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Uttam Murarka ,Lessee Representative
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 /SEHRA (MLA47.06**
- (b) **Registration NO.** : **IBM/5639/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : JHARKHAND
- District : PALAMAU
- Village : PURNADIH
- Taluka : DALTONGANJ
- Post office : SATBARWA
- Pin Code : 822101
- FAX No. : 06562-230950
- E-mail : N.A.
- Phone : 06562-230950
- (f) Police Station : SATBARWA
- (g) First opening date : 01/03/1967
- (h) Weekly day of rest : WED
2. Address for : VILL-PURNADIH,
correspondance PO/PS-SATBARWA
DISTT-PALAMAU (JHK)
3. (a) Lease Number : BHR0084
- (b) Lease area : 47.06
- (c) Period of lease : 10
- (d) Date of Expiry : 02/09/1990
4. Mineral worked : GRAPHITE Main

5. Name and Address of the

Lessee : SINGHANIA COMMERCIAL CO.
JAIL ROAD PO-DALTON GANG
PALAMAU PALAMAU JHARKHAND
Phone:033-2206612
FAX :

Owner : SINGHANIA COMMERCIAL COMPANY
CIRCUIT HOUSE ROAD, AT/PO-
DALTONGANJ, DISTT-PALAMAU
(JHK) PALAMAU JHARKHAND
Phone:
FAX :

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	10/07/1997
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	31/05/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No valid approved document.	Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.	
1b	Exploration over lease area for geological axis 1 or 2	No valid approved document.	No exploration. Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No valid approved document.	No exploration carried.	
1e	Balance reserve as on 01/04/20	Reserve as on 01.04.2013 (111) - 178846 MT (122)-236127 MT	Reserve as on 01.04.2013 (111) - 178846 MT (122)-236127 MT Production during 2013-14, 2014-15 were NIL	No valid approved document. Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.	No valid approved document.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No valid approved document.	OB -1.5X1.5 and Ore-1.5X1.5	

2c	Stripping ratio or ore to OB ratio	No valid approved document.	Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.
2d	Quantity of topsoil generation in m3	No valid approved document.	Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.
2e	Quantity of overburden generation in m3	No valid approved document.	Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No valid approved document.	Q-1: 120 x 80 x15 m Q-2 : 22 X 22 X8.5 m	
3b	Quantity of ROM mineral production proposed	No valid approved document.	Mine was not working since 201.2-13 for want of EC.Mine was suspended on 02/09/2015	
3c	Recovery of sailable/usable mineral from ROM production	No valid approved document.	About 70%. Mine was not working since 201.2-13 for want of EC.Mine was suspended on 02/09/2015	
3d	Quantity of mineral reject generation	No valid approved document.	Mine was not working since 201.2-13 for want of EC.Mine was suspended on 02/09/2015	
3e	Grade of mineral rejects generation and threshold value declared.	No valid approved document.	Mine was not working since 201.2-13 for want of EC.Mine was suspended on 02/09/2015.	
3f	Quantity of sub grade mineral generation.	No valid approved document.	Mine was not working since 201.2-13 for want of EC.Mine was suspended on 02/09/2015	
3g	Grade of sub grade mineral generation	No valid approved document.	Mine was not working since 201.2-13 for want of EC.Mine was suspended on 02/09/2015	

3h	Manual / Mechanised method adopted for segregating from ROM	No valid approved document.	Mannual method adopted.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No valid approved document.	NA
3j	Provision of drilling and blasting in mineral benches	No valid approved document.	Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015
3k	Provision of mining machineries in mineral benches	No valid approved document.	Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No valid approved document.	Statutory OB and Ore bench height and width is suitable for mannual method of mining.
3m	Total area covered under excavation/pits	No valid approved document.	22.344 hect with 21 pits.
3n	Ore to OB ratio for the pit/mine during the year.	No valid approved document.	NA
3o	Total area put in use under different heads at the end of year	No valid approved document.	Area covered under pits -22.34 hect area under dumps -1.41 hect Backfilling and plantation-0.83 hect
3p	Production of ROM mineral during the last five year period as applicable	Production during 2012-13 to 2014-15. 2012-13 : 17651 Tonnes 2013-14 :21272Tonnes 2014-15 :28015 Tonnes	Actual production of last five years 2009-10 : 4861 Tonnes 2010-11 :9327 2011-12 : 9096 T 2012-13 : 5338 T 2013-14 : NIL 2014-15 : NIL
3q	General remarks of inspecting officers on method of mining etc.	NA	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.	Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015 One old dump stablised in northern part and two current dump are there in western part of the lease area.	
4b	Location of topsoil, OB and mineral reject dumps	NA	No top soil dump,and no reject generation.	
4c	Number of dumps within lease area and outside of lease area	NA	Three dumps are there within Lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	No valid approved document.	
4e	Number of active and alive dumps.	NA	Two active alive dumps were there.	
4f	Number of dead dumps.	NA	One old dump is there and stablised.	
4g	Number of dumps established.	NA	One old dump has been stablised.	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	No retaing wall or garland drain along the dump has been constructed.	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	No such proposal was there.	No settling pond.	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	

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 document.	Mine is not fully exhausted ,backfilling is only 0.83hect.
5b	Area under backfilling of mined out area	No valid approved document.	0.83 hect
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No valid approved document.	No rehabilitation,only 0.83 hectare backfilled area where plantation has been carried.
5d	Total area fully reclaimed and rehabilitated	No valid approved document.	0.83hect backfilled and afforested.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA

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.	NO.	
6b	Area available for rehabilitation (ha) .	No valid approved document.	0.83 hect area has been backfilled and afforested.	
6c	afforestation done (ha).	No valid approved document.	0.83 hect area has been backfilled and afforested.	
6d	No. of saplings planted during the year	No valid approved document.	150 sapplings.	
6e	Cumulative no .of plants	No valid approved document.	200 sapplings.	
6f	Any other method of rehabilitation	No valid approved document.	none	

6g	Cost incurred on watch and care during the year	NA	Not Available
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No valid approved document.	Not Available
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No valid approved document.	Not Available
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No valid approved document.	Not Available
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No valid approved document.	Not Available
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No valid approved document.	Not Available
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No valid approved document.	Not Available
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No valid approved document.	Not Available

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No valid approved document.	Not Available
6p	Compliance of environmental monitoring (core zone and buffer zone)	No valid approved document.	Not Available
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No valid approved document.	No such provision.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No valid approved document.	NO gradewise sorting.	
7c	Different grade of mineral sorted out at mines.	No valid approved document.	NA	
7d	Any beneficiation process at mines .	No valid approved document.	The beneficiation process at the plant comprises of two stages i)Washing and sorting ii)froth floatation & Gravity separation.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No valid approved document.	Soil is gritty in nature which is treated as waste.	
8b	Concurrent use or storage of topsoil	No valid approved document.	NO soil ,no use.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No valid approved document.	Two current and one old dump are there.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No valid approved document.	Mine is not yet matured for restoration.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No valid approved document.	Mine is not yet matured for restoration.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No valid approved document.	150 plantation done during the current year and cummulative plantation is 200.	
8g	Survival rate	No valid approved document.	55-60%	
8h	Water sprinkling on roads to control airborne dust	No valid approved document.	No sprinkler was there to control airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No valid approved document.	NA	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR and AR havebeen submitted regularly.	MR and AR havebeen submitted regularly. Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Left blank	No Mining Engineer or Geologist have been employed as mine is not working.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working-land 12.2hect Reclamation- 7.1hect Area used for waste disposal- 1.12hect	Do not match with field.
9d	Scrutiny of Annual return on afforestation	200trees planted.	Do not match with field .
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NA
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	NA
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NA Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.	NA Mine was not working since 2012-13 for want of EC.Mine was suspended on 02/09/2015.
9h	Scrutiny of Annual return on fixed assets	NA	NA
9k	Scrutiny of Annual return on mining machineries	NA	Manually

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