

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/GRPH/NUP/MCDR-4/BBS

Mine code : 28ORI24005

- (i) Name of the Inspecting : **DEY**) **NARENDRA MOHAN DEY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : **SHRI RAJ NATH TIWARI, MINES MANAGER AND SHRI JAGADIS**
Official with
Designation
- (iv) Date of Inspection : 27/06/2015
- (v) Prev.inspection date : 16/01/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GANDABAHALI (31.869 HA)**
- (b) **Registration NO.** : **IBM / 4399 /2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : NAWAPARA
- Village : GANDABAHALI
- Taluka : KHARIAR
- Post office : GANDABAHALI
- Pin Code :
- FAX No. : 0663-2533374
- E-mail : Pratyush_agi@hotmail.com
- Phone : 0663-2403251
- (f) Police Station : SINAPALI
- (g) First opening date : 16/07/2005
- (h) Weekly day of rest : TUE
2. Address for : GANDABAHALI, SINAPALI, NUAPADA
correspondance ODISHA, 766118
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : GRAPHITE Main

5. Name and Address of the

Lessee : P.C.AGARWAL
FARM ROAD SAMBALPUR ORISSA
SAMBALPUR ORISSA
Phone:
FAX :

Owner : P.C.AGARWAL
FARM ROAD SAMBALPUR
ORISSA
Phone: 403651,400828
FAX : 0663-533374

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2011-12 TO 2015-16: 28 BH AND 5 TRENCHES IN THE SCHEME PERIOD AS PER SCHEME OF MINING APPROVED ON 25.04.2011 FOR THE PERIOD 2011-12 TO 2015-16.	NIL HOWEVER LESSEE HAD PUT 16 DTH HOLES, 6 TRENCHES AND 2 TRIAL PITS DURING 1998 TO 2000.	EXPLORATION COULD NOT BE CONDUCTED IN THE LEASE AREA DUE TO WANT OF ENVIRONMENTAL CLEARANCE. MINE IS NOT WORKING SINCE 16.12.2009 FOR WANT OF E.C.
1b	Exploration over lease area for geological axis 1 or 2	28 BH AND 5 TRENCHES DURING THE SCHEME PERIOD 2011-12 TO 2015-16 APPROVED ON 25.04.2011.	A TOTAL 16 DTH / NON-CORE VERTICAL DRILL HOLES HAVE BEEN PUT IN THE LEASE AREA BY THE HELP OF 100 MM DIA DRILL UPTO 35 M DEPTH FROM SURFACE LEVEL LEASE AREA EXPLORED AS PER UNFC NORMS AS ON 07.10.2015 IS AS FOLLOWS: UNDER G1 LEVEL : NIL UNDER G2 LEVEL 4.50 HA, NO OF BH DRILLED 13, METERAGE DRILLED 351.5 M, GRID INTERVAL UPTO 100 M. UNDER G3 LEVEL : G3 LEVEL AREA LIES 3 M BELOW G2 LEVEL EXPLORED & FOUND NON-MINERALISED : NO OF BH DRILLED 3, METERAGE DRILLED 56 M, GRID INTERVAL UPTO 100 M, UN-E	MINE IS NOT WORKING SINCE 16.12.2006 DUE TO WANT OF E C.

1c	Exploration Agencies and Expenditure in lakh rupees during the year		DRILLING HAS BEEN CARRIED OUT BY LESSEEE. TOTAL EXPENDITURE INCURRED IN VARIOUS PROPECTING OPERATIONS ESTIMATED TO BE 407.5 METERAGE DRILLING X Rs.450 / METER (UNIT COST) = Rs.183375 /-
1d	Balance area to be explored to bring Geological axis in 1 or 2	22.615 HA	NO WORK SINCE 16.12.2009 DUE TO WANT OF E C.
1e	Balance reserve as on 01/04/20		MINERAL RESERVES AS PER UNFC AS PER SCHEME OF MINING APPROVED ON 28.03.2016 IS AS FOLLOWS: 111 : NIL 122: 233309 TONNE (MINEABLE) 332: 13411 TONNE (BLOCKABLE) 333: 26733 TONNE (MINEABLE) 333 : 1451 TONNE (BLOCKABLE) TOTAL : 274904 TONNE

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	MAIN QUARRY	NO WORK SINCE 16.12.2009.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SEPARATE BENCHES	NO WORK SINCE 16.12.2009.	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	M L WAS EXECUTED ON 15.02.2005, MINE WAS FIRST OPENED ON 16.07.2005. ONE MAIN QUARRY HAVING LENGTH 99 M X WIDTH 55 M DEPTH 22 M , HEIGHT OF THEBENCH 3 M TO 6 M, WIDTH 5 M TO 15 M. ORE AND WASTE WERE PRODUCED FROM ALL THE BENCHES AS THE ORE WAS EXPOSED AT THE COMMENCEMENT OF MINING OPERATION. MINING OPERATION HAS BEEN STOPPED SINCE 16.12.2009 FOR WANT OF E C.		
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	NO WORK	
3b	Quantity of ROM mineral production proposed	2014-15: 10998 TONNE	NO WORK	
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED	NO WORK	GRAPHITE ORE OF THIS MINE IS LOW GRADE TYPE , CONTAINS 8.3 % F.C ON AN AVERAGE , GRAPHITE ORE CONTAINING MORE THAN 5% F C IS BENEFICIATED DIRECTLY AS BENEFICIABLE ROM ORE.
3m	Total area covered under excavation/pits	0.621 HA	NO WORK CUMULATIVE 0.621 HA	

3o	Total area put in use under different heads at the end of year	PUT IN USE UNDER PITS : 0.621 HA, ROAD & BUILDING : 0.035 HA	NO WORK SINCE 16.12.2009.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 10804 TONNE 2014-15: 10998 TONNE	NO WORK SINCE 16.12.2009.
3q	General remarks of inspecting officers on method of mining etc.	OTHER THAN FULLY MECHANISED METHOD OF VMINING WITH THE DEPLOYMENT OFR MACHINES AND MANPOWER. OB IS MPDERATELY SOFT AND WEATHERED. AT PLACES, HARD ROCK IS ENCOUNTERED. THESE HARD ROCKS ARE DRILLED BY THE DTH DRILL AND BLASTED FOR EASE IN RXCAVATION AND ASSUMED TO BE 25% OF THE TOTAL EXCAVATION OF OB.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4c	Number of dumps within lease area and outside of lease area	THREE	NO WORK ALREADY EXISTING THREE DUMPS WITH IN LEASE AREA.	

4k	Specific comments of inspecting officer on waste dump management	THREE SMALL DUMPS WITHAN AVERAGE HEIGHT 3 M TO 2 M . NO OF TERRACE 1. DUMP 1: 170 M LENGTH X 59 M BREADTH DUMP 2: 60 M LENGTHX 48 M BREADTH DUMP 3: 43 M LENGTH X 30 M BREADTH THERE IS PROPOPSAL TO CONTRUCT RETAINING WALL AND GARLAND DRAIN OF LENGTH 520 M X 1.5 M X 1.5 M
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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 PROPOSAL	NIL NO WORK	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NO PROPOSAL	NIL	NO MINING OPERATION SINCE 16.12.2009 DUE TO WANT OF E C.

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).	YES	NO WORK	NO MINING OPERATION SINCE 16.12.2009 DUE TO WANT OF E C.

6d	No. of saplings planted during the year	88 NO OF SAPLINGS	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	M L WAS EXECUTED ON 15.02.2005. FIRST OPENING ON 16.07.2005. MINING OPERATION STOPPED SINCE 16.12.2009. SMALL SCALE MINING OPERATION IN THIS PERIOD. RETAINING WALL AND GARLAND DRAIN HAVE BEEN CONSTRUCTED OVER LENGTH 115 M X 1.5 M X 1.5 M. NO OF TREES PLANTED 500 NOS OVER 0.450 HA CUMULATIVE.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2013-14: 10804 TONNE 2014-15: 10998 TONNE 2015-16: 11194 TONNE	NIL	NO MINING OPERATION SINCE 16.12.2009. DUE TO WANT OF EC.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL MORE THAN 55% F.C FOR CRUCIBLE INDUSTRIES 55 TO -80% F C FOR FOUNDRY INDUSTRIES MORETHAN 80% FC FOR PENCIL INDUSTRY MORE THAN 75% FC FOR PAINT & LUBRICANTS INDUSTRIES MORETHAN 70% FC FOR DRY CALLS & BATTERIES INDUSTRIES.	NIL	NO MINING OPERATION SINCE 16.12.2009

7d	Any beneficiation process at mines .	GRAPHITE ORE OF THIS MINE IS LOW GRADE TYPE AND CONTAINS 8.3% F.C. ON AN AVERAGE. THESE ORE BENEFICIATED FOR SEMI- ENRICHMENT OF GRAPHITE IN LESSEE'S BENEFICIATION PLANT. AFTER SEMI- ENRICHMENT , GRAPHITE SENT TO THE LESSEE'S PARTNERSHIP CENTRALLY LOCATED BENEFICIATION PLANT AT BELPARA 80 KM FROM THE MINE FOR FINAL ENRICHMENT OF GRAPHITE.	NIL	NO MINING OPERATION SINCE 16.12.2009.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			GRAPHITE ORE CONTAINING MORE THAN 5% F.C BENEFICIATED DIRECTLY AS BENEFICIABLE ROM ORE. THRESHOLD VALUE OF GRAPHITE ORE IS 3% F.C. ORE CONTAINING +3% TO -5% IS CONSIDERED AS SUB-GRADE ORE. THESE ORES ORES ARE STACKED INITIALLY AND SUBSEQUENTLY BENEFICIATED IN THE ADJOINING LEASE AREA OF LESSEE FOR SEMI- ENRICHMENT .

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES	NIL	NO MINING OPERATION SINCE 16.12.2009 DUE TO WANT OF EC.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	SEPARATE DUMPS FOR OB , TOP SOIL, SUB-GRADE	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	THE M L AREA IS TOTALLY NON-FOREST LAND. ONLY SHRUBS AND BUSHES ARE PRESENT.	NIL ADDITIONALLY 500 NO.OF TREES HAVE BEEN PLANTED OVER AN AREA 0.450 HA CUMULATIVE.	
8h	Water sprinkling on roads to control airborne dust		WATER IS SPRINKLED ON ROADS TO CONTROL AIRBONE DUST.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			THE ML AREA IS TOTALLY NON-FOREST LAND.ONLY SHRUBS AND BUSHES ARE PRESENT. AESTHETIC BEAUTY IN AND AROUND THE MINE HAS BEEN ENHANCED BY AFFORESTING 500 NO OF TRREES OVER 0.450 HA.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITTED.	I HAVE INSPECTED THE MINE ON 27.06.2015. ANNUAL RETURN FOR THE YEAR 2014-15 HAS BEEN RECEIVED.	NO MINING OPERATION SINCE SINCE 16.12.2009 DUE TO WANT OF E.C.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		SHRI RAJ NATH TIWARI, MINES MANAGER AND SHRI JAGADISH, SURVEYOR WERE POSTED.	NO MINING OPERATION SINCE 16.12.2009.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	LAND USE PATTERN UNDER PITS: 0.621 HA, OCCUPIED BY ROAD & BUILDING : 0.035 HA	MINE IS NOT IN OPERATION SINCE 16.12.2009 DUE TO WANT OF E C.
9d	Scrutiny of Annual return on afforestation	88 NO OF TREES PLANTED DURING 2014-15.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM STOCK : 2172.057 TONNE GRADED ORE STOCK : NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	2014-15 : NO WORK, NO PRODUCTION PRODUCTION COST : NIL	MINE IS NOT IN OPERATION SINCE 16.12.009 DUE TO WANT OF E.C.
9h	Scrutiny of Annual return on fixed assets	FIXED ASSETS MENTIONED AS ZERO.	
9k	Scrutiny of Annual return on mining machineries	NO MINING MACHINARY.	MINE IS NOT IN OPERATION SINCE 16.12.2009 DUE TO WANT OF E.C.

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

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

Date :
(NARENDRA MOHAN DEY)

Indian Bureau of Mines