

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-42/BBS

Mine code : 300RI08039

- (i) Name of the Inspecting : **DEY**) **NARENDRA MOHAN DEY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : **SHRI K K MANDAL, MINES MANAGER, SHRI B N SAMAL , MANA**
Official with
Designation
- (iv) Date of Inspection : 07/06/2015
- (v) Prev.inspection date : 13/02/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MURGABEDA**
- (b) **Registration NO.** : **IBM /5243 /2011**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : MURGABEDA
- Taluka : BARBIL
- Post office : DEOJHAR
- Pin Code :
- FAX No. : 06767- 272304 / 91-661-240
- E-mail : miom.drp@gmail.com
- Phone : 06767-73448 / 91-661-240
- (f) Police Station : BARBIL
- (g) First opening date : 03/08/1976
- (h) Weekly day of rest : SUN
2. Address for : VILL-MURGABEDA
correspondance PO-DEOJHAR
DIST-KEONJHAR
3. (a) Lease Number : ORI0058
- (b) Lease area : 15.38
- (c) Period of lease : 30
- (d) Date of Expiry : 02/07/2006
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : Sri D.R.Patnaik
Sri D.R.Patnaik P.O.
Boneikala KEONJHAR ORISSA
Phone:06767-73448
FAX :

Owner : Sri D.R.Patnaik
Sri D.R.Patnaik
P.O.Boneikala KEONJHAR
ORISSA
Phone: 06767-73448
FAX :

Agent : Sri A.N.Mohanty
Sri A.N.Mohanty C/O Sri
D.R.Patnaik P.O.Boneikala
KEONJHAR ORISSA
Phone: 06767-73448
FAX :

Mining Engineer

Name : P.K.NAIK, Full Time
Qualification : BE MINING
Appointment/ : 01/06/2001
Termination date

Mining Engineer

Name : TAPAN KUMAR, Full Time
Qualification : DIGREE MINING
Appointment/ : 16/08/2004
Termination date

Mining Engineer

Name : A.K.. SAHOO, Full Time
Qualification : AMIE(MINING)
Appointment/ :
Termination date

Geologist

Name : S.K . SARANGI, Part Time
Qualification : M.SC IN GEOLOGY
Appointment/ : 01/11/1992
Termination date

Manager

Name : B.C.BEHERA
Qualification : Ist class mines manager certificate
Appointment/ : 01/06/1999
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	19/02/2004
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	15/02/2008
	:	Modif.of approved Mining Plan	23/10/2008

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	SCHEME OF MINING APPROVED ON 07.04.2011 FOR THE PERIOD 2011-12 TO 2015-16. 2011-12 : NIL 2012-13: 6 2013-14: 8 2014-15: NIL 2015-16: NIL	NIL	THE MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 DUE TO WANT OF FOREST CLEARANCE. SUBSEQUENTLY THE STATE GOVT. HAS BEEN PLEASED TO DECLARE THE MINING LEASE AS LAPSED WITH EFFECT FROM 18.04.2012 AND REJECT THE RML APPLICATION VIDE LETTER DATED 07.01.2015 WITH REFERENCE TO THEIR RML APPLICATION DATED 24.05.2005.
1b	Exploration over lease area for geological axis 1 or 2	DURING 2011-12 TO 2015-16 THERE WAS PROPOSAL TO DRILL 14 BH	DURING 2011-12 TO 2015-16 : NIL HOWEVER DURING PREVIOUS FIVE YEARS PERIOD 2006-07 TO 2010-11 LESSEE HAS DRILLED 14 NO BH CORE AND 8 BH DTH	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 , SUBSEQUENTLY LEASE HAS BEEN LAPSED WIT EFFECT FROM 18.04.2012 AND RML APPLICATION HAS BEEN REJECTED ON 07.01.2015.
1c	Exploration Agencies and Expenditure in lakh rupees during the year			

1e	Balance reserve as on 01/04/20	RESERVES AS PER SCHEME OF MINING APPROVED ON 07.04.2011 FOR THE PERIOD 2011-12 TO 2015- 16 IS AS FOLLOWS: IRON ORE + 58 % FE : 111 : 5090921 TONNE + 122 : 1112428 TONNE = 6203349 TONNE 211: 1601540 TONNE + 222 : 287358 TONNE = 1888898 TONNE IRON ORE + 45% TO -58% FE: 111 : 24772926 TONNE + 1137665 TONNE = 3610641 TONNE 211 : 612355 TONNE + 222: 125342 TONNE =737697 TONNE	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 SUBSEQUENTLY LEASE HAS BEEN LAPSED WITH EFFECT FROM 18.04.2012 AND RML APPLICATION HAS BEEN REJECTED DATED 07.01.2015 BY GOVT. OF ODISHA.
1f	General remarks of inspecting officers on geology, exploration etc	DURING LAST FIVE YEARS PERIOD 2011-12 TO 2015- 16 NO EXPLORATION HAS BEEN DONE. DURING PREVIOUS FIVE YEARS PERIOD 2006-07 TOP 2010-11 BH DRILLED 14 NOS CORE AND 8 NOS DTH.	NO MINING OPERATION SINCE 18.04.2010.DUE TO WANT OF FOREST CLEARANCE.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	00 NORTH TO 650 NORTH AND 42 WEST TO 268 EAST IN A SINGLE PIT	LOCATION SAME AS PROPOSED BUT DURING 2014-15 NO WORK	MINING OPERATION STOPPED SINCE 18.04.2010 DUE TO WANT OF FOREST CLEARANCE ETC
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SEPARATE BENCHES IN OB AND MINERALS	EXISTING PIT NO.1 HAVING LENGTH 650 M BREADTH 166 M NUMBER OF BENCHES 13	NO MINING OPERATION SINCE 18.04.2010
2c	Stripping ratio or ore to OB ratio		DURING 2014-15 NO WORK	
2d	Quantity of topsoil generation in m3		DURING 2014-15 NO WORK	

2e	Quantity of overburden generation in m3	DURING 2014-15 NO WORK	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 DUE TO WANT OF FOREST CLEARANCE . SUBSEQUENTLY LEASE HAS BEEN LAPSED WITH EFFECT FROM 18.04.2012 AND RML APPLICATION HAS BEEN REJECTED BY GOVT. OF ODISHA ON 07.01.2015.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE PIT AS PROPOSED BUT NO WORK DURING 2014-15.	
3b	Quantity of ROM mineral production proposed	2011-12 : 320896 CUM 2012-13: 441523 CUM 2013-14 : 576038 CUM 2014-15 : 789085 CUM 2015-16: 319858 CUM	NO PRODUCTION DURING 2014-15	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 DUE TO WANT OF FOREST CLEARANCE.
3m	Total area covered under excavation/pits		TOTAL AREA ALREADY COVERED UNDER EXCAVATION / PITS 10.405 HA	NO MINING OPERATION SINCE 18.04.2010
3o	Total area put in use under different heads at the end of year		ALREADY COVERED UNDER OPENCAST WORKING 10.405 HA, OCCUPIED BY ROAD & BUILDING : 0.7 HA, USED FOR OTHER PURPOSES : 2.97 HA	

3q	General remarks of inspecting officers on method of mining etc.	FULLY MECHANISED METHOD BY USING HEAVY EARTH MOVING MACHINERY , DEEP HOLE DRILLING AND BLASTING AND LOADING OF ORE BY HIGH CAPACITY SHOVELS AND EXCAVATORS.	NO WORK DURING 2014-15.	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 DUE TO WANT OF FOREST CLEARANCE . SUBSEQUENTLY LEASE HAS BEEN LAPSED WITH EFFECT FROM 18.04.02012 AND RML APPLICATION HAS BEEN REJECTED BY GOVT. OF ODISHA DATED 07.01.2015.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	ONE DUMP	EXISTING DUMP -1	
4b	Location of topsoil, OB and mineral reject dumps	DUMP -1 ON THE SOUTH EASTERNNSIDE OF THE LEASE	LOCATED AS PROPOSED	
4c	Number of dumps within lease area and outside of lease area	ONE	WITH IN LEASE AREA ALREADY ONE DUMP OUTSIDE LEASE AREA NO DUMP	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OUTSIDE ULTIMATE PITLIMIT	OUTSIDE ULTIMATE PIT LIMIT	
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	RETAINING WALL AND GARLAND DRAIN ALREADY CONSTRUCTED ALL ALONG THE DUMP.	

4k	Specific comments of inspecting officer on waste dump management	ALREADY ONE EXISTING DUMP SPREAD OVER AN AREA 0.733 HA AT SOUTH EASTERN SIDE OF THE LEASE. HEIGHT OF THE DUMP APPROX 10 M. LENGTH 238.73 M , BREADTH 30.70 M. QUANTITY ALREADY DUMPED APPROX 73300 CUM. RETAINING WALL AND GARLAND DRAIN HAVE ALREADY CONSTRUCTED.	MINING OPERATION IS STOPPED SINCE 18.04.201 DUE TO WANT OF FOREST CLEARANCE. SUBSEQUENTLY LEASE HAS BEEN LAPSED WITH EFFECT FROM 18.04.2012 AND RML APPLICATION HAS BEEN REJECTED BY STATE GOVT. DATED 07.01.2015.
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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	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NO PROPOSAL	NIL	MINE IS NOT IN OPERATION SINCE 18.04.201 DUE TO WANT OF FOREST CLEARANCE.

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	ANNUAL REPORT ON PMCP UNDER RULE 23E (2) HAS BEEN SUBMITTED.	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 FOR WANT OF FOREST CLEARANCE.
6c	afforestation done (ha).		ALREADY CUMULATIVE 6700 NO AFFORESTED INSIDE MINING LEASE OVER AN AREA 2.5 HA. AND 13000 NO OF TRESS OUTSIDE MINING LEASE AREA OVER AN AREA 6.7 HA.	

6d	No. of saplings planted during the year	NIL	
6e	Cumulative no .of plants	CUMULATIVE NO OF PLANTS 6700 OVER AN AREA 2.5 HA INSIDE LEASE AND 13000 OVER AN AREA 6.7 HA OUT SIDE MINING LEASE.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	TOTAL CUMULATIVE 6700 NO OF TREES HAVE ALREADY BEEN PLANTED INSIDE MINING LEASE OVER AN AREA 2.5 HA RETAINING WALL, GARLAND DRAIN AND SETTLING TANKS HAVE ALREADY BEEN CONSTRUCTED.	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 DUE TO WANT OF FOREST CLEARANCE.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	AVERAGE SALEABLE GRADE OF THE MINE IS + 64 % FE	NIL	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.201 DUE TO WANT OF FOREST CLEARANCE.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	NIL	

7c	Different grade of mineral sorted out at mines.	THE AVERAGE SALEABLE GRADE OF THE MINE IS + 64 % FE. THE SPECIFICATION OF IRON ORE FOR VARIOUS INDUSTRIES ARE (1) 63.47% FE, 3.27% SiO₂, Al₂O₃ 2.65% (2) 63.36% FE, 2.94% SiO₂, Al₂O₃ 2.31% (3) 65.27%, 2.41% SiO₂, Al₂O₃ 1.80%	NIL
7d	Any beneficiation process at mines .	THE ROM ORE PROPOSED TO BE SCREENED, CRUSHED, SIZED AND BLENDED ETC BEFORE FINISHED PRODUCT READY FOR DESPATCH. FOR THIS 2 MOBILE SCREENING AND CRUSHING UNIT OF CAPACITY 200 TPH IS AT SITE. IN ADDITION TO THIS ANOTHER 2 NOS 25 TPH SCREEN PLANT IS PROPOSED. THE RECOVERY OF THE SALEABLE ORE i.e +58% FE IS ROUGHLY 85% OF THE TOTAL ROM AND 10% IS +45 TO -58% FE.	NIL

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 DUE TO WANT OF FOREST CLEARANCE. SUBSEQUENTLY LEASE HAS BEEN LAPSED WITH EFFECT FROM 18.04.2012 AND RML APPLICATION HAS BEEN REJECTED BY STATE GOVT DATED 07.01.2015.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NO TOP SOIL NO PROPOSAL	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		THE M. L AREA IS AN UNDULATING TOPOGRAPHY WITH A PROMINENT HILLOCK IN THE WESTERN SIDE. THERE IS NO SOIL INSIDE LEASE AREA. TOTAL M L AREA IS FULL OF IRON ORE MINERALISED . AGRICULTURAL LAND DOES NO EXIST IN THE LEASE. FOREST VEGETATION IS BELOW 0.1 DENSITY. HOWEVER 6700 NO OF TREES HAVE BEEN PLANTED INSIDE THE LEASE OVER AN AREA 2.5 HA SURVIVAL RATE IS 66%. AND 13000 NO OF TREES HAVE BEEN PLANTED OUT SIDE MINING LEASE OVER AN AREA 6.7 HA SURVIVAL RATE 49%.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			AESTHETIC BEAUTY IN AND AROUND THE MINE AREA HAS BEEN ENHANCED BY PLANTATION 19700 NO OF TREES .

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITTED.	MONTHLY RETURNS AND ANNUAL RETURN HAVE BEEN SUBMITTED.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		I HAVE INSPECTED THE MINE ON 07.06.2015. ANNUAL RETURN FOR THE YEAR 2014-15 WAS SCRUTINISED. SHRI K K MANDAL , MINING ENGINEER CUM MINES MANGER HAVE BEEN APPOINTED.	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.201 DUE TO WANT OF FOREST CLEARANCE.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		COVERED UNDER OPENCAST WORKING : 10.405 HA, OCCUPIED BY ROAD & BUILDING ETC : 0.7 HA, USED FOR OTHER PURPOSES : 2.97 HA.	
9d	Scrutiny of Annual return on afforestation		NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		ROM STOCK : NIL GRADEA ORE STOCK AS FOLLOWS: LUMP: 62% TO BELOW 65% : 31364.450 MT FINES: BELOW 55% FE: 582109 MT, 62% TO BELOW 65% FE : 41322.080 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		NO PRODUCTION DURING 2014-15 COST OF PRODUCTION NIL	MINING OPERATION HAS BEEN STOPPED SINCE 18.04.2010 DUE TO WANT OF FOREST CLEARANCE. SUBSEQUENTLY LEASE HAS BEEN LAPSED WITH EFFECT FROM 18.04.2012 AND RML APPLICATION HAS BEEN REJECTED BY STATE GOVT DATED 07.01.2015.
9h	Scrutiny of Annual return on fixed assets		Rs.11924355.00 /-	
9k	Scrutiny of Annual return on mining machineries		CRUSHER	

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