

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-74-BBS

Mine code : 30ORI08063

- (i) Name of the Inspecting : **S010**) **SHRI G.C. SETHI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Pradipta Mohapatra, Qualified Person
Official with
Designation
- (iv) Date of Inspection : 17/07/2018
- (v) Prev.inspection date : 18/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DALPAHAR**
- (b) **Registration NO.** : **IBM / 8424 / 2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KEONJHAR
Village : DALPAHAR
Taluka : N.A
Post office :
Pin Code :
FAX No. : 26259576
E-mail : avinjain@rediffmail.com
Phone : 26253002 / 41642414
- (f) Police Station : JODA
- (g) First opening date : 09/06/1986
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE : DALPAHAR, P.O: JODA, DISTT: KEONJHAR
correspondance PIN : 758 034
SHRI AVIN JAIN, SON & LEGAL HEIR OF LATE D C JAI
3. (a) Lease Number : ORI0160
(b) Lease area : 89.96
(c) Period of lease : 20
(d) Date of Expiry : 08/06/2006
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : DHARAM CHAND JAIN
JODA KEONJHAR ORISSA
KEONJHAR ORISSA
Phone:26253002 / 41642414
FAX :avinjain@rediffmail.com

Owner : SHRI DHARAM CHAND JAIN
DALPAHAR KEONJHAR ORISSA
KEONJHAR ORISSA
Phone: 26253002 / 416
FAX : 26259576

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	11/01/2008
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	11/10/2010

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 24.05.2011 FOR THE PERIOD 2011-12 TO 2015-16. PROPOSAL OF PREVIOUS YEARS WAS AS FOLLOWS: 2011-12: 4 BH, 2012-13: 4 BH. 2013-14: 4 BH	NIL	MINING OPERATION HAS BEEN CLOSED SINCE 1993 AS REPORTED BY THE REPRESENTATIVE OF THE LESSEE. SUBSEQUENTLY THE STATE GOVT DECLARED THE LEASE HAS STOOD LAPSED w e f.01.09.1997 VIDE LETTER DATED 01.05.2015.
1b	Exploration over lease area for geological axis 1 or 2	SCHEME OF MINING APPROVED ON 24.05.2011 FOR THE PERIOD 2011-12 TO 2015-16. THE PROPSAL OF EXPLORATION DURING 2011-12 TO 2015-16 WAS 20 BH (5 BH IN IRON ZONE AND 15 IN MANGANESE ZONE)	NIL HOWEVER DETAILED GEOLOGICAL SURVEY HAS ALREADY BEEN CARRIED OUT EARLIER, SURFACE EXPOSURE HAVE BEEN FOUND, EXPLORATION DONE IN PAST BY TRIAL PITS WHICH LATER ON CONVERTED INTO QUARRIES, NUMBER OF PITS WERE OPENED. THESE SCATTERED SMALL QUARRIES SHOWING PRESENCE OF IRON AND MANGANESE ORE COVERS THE EXTENSIVE PART OF THE LEASE AREA AND THUS THE MINERALASIED ZONE HAS BEEN DEMARCATED BASED ON THAT. THE PROVED RESERVE HAS BEEN ESTIMATED BASED ON THE ACTUAL THICKNESS OF THE ORE BODY AS EXPOSED IN	QUARRY FACES. MINING OPERATION HAS BEEN CLOSED SINCE 1993 AS REPORTED BY THE REPRESENTATIVE OF LESSEE. SUBSEQUENTLY THE STATE GOVT DECLARED THE LEASE HAS STOOD LAPSED w e f.01.09.1997 VIDE LETTER DATED 01.05.2015.

1c	Exploration Agencies and Expenditure in lakh rupees during the year	WHOLE LEASE AREA TO BE EXPLORED BY DRILLING 20 BH (5 IN IRON ZONE AND 15 IN MANGANESE ZONE) DURING 2011-12 TO 2015-16 AS PROPOSED IN THE S O M APPROVED ON 24.05.2011.	Nil	NO MINING OPERATION SINCE 1993.
1d	Balance area to be explored to bring Geological axis in 1 or 2	WHOLE LEASE AREA TO BE EXPLORED BY DRILLING 20 BH (5 IN IRON ZONE AND 15 IN MANGANESE ZONE) DURING 2011-12 TO 2015-16 AS PROPOSED IN THE S O M APPROVED ON 24.05.2011.	Nil	NO MINING OPERATION SINCE 1993.

1e	Balance reserve as on 01/04/20	AS PER S O M APPROVED ON 24.05.2011 THE RESERVE ESTIMATED AS PER UNFC WAS AS FOLLOWS:IRON : 111: NIL, 121: 1005000 MT, 122: 444375 MT (+ 57% FE) , 211: 201000 MT, 222: 88875 MT (+ 45 TO 57% FE) , 333 : 564750 MT MANGANESE: 111: NIL, 121: 870000 MT, 122: 1335625 MT (+20% MN) , 211: 348000 MT, 222: 534250 MT (+ 10 TO 20% MN), 333: 1288000 MT	111: NIL, 121: 1005000 MT, 122: 444375 MT (+ 57% FE) , 211: 201000 MT, 222: 88875 MT (+45 TO 57% FE) , 333 : 564750 MT MANGANESE: 111: NIL, 121: 870000 MT, 122: 1335625 MT (+20% MN) , 211: 348000 MT, 222: 534250 MT (+ 10 TO 20% MN), 333: 1288000 MT	NO MINING OPERATION SINCE 1993.
1f	General remarks of inspecting officers on geology, exploration etc	20 NOS BH PROPOSED IN THE S O M APPROVED ON 24.05.2011.	NO BH HAS BEEN DRILLED IN THE LEASE AREA. PROVED RESERVE HAS ESTIMATED BASED ON THE ACTUAL THICKNESS OF THE ORE BODY AS ALREADY EXPOSED IN QUARRY FACES.	NO BH HAS BEEN DRILLED IN THE LEASE AREA. PROVED RESERVE HAS ESTIMATED BASED ON THE ACTUAL THICKNESS OF THE ORE BODY AS ALREADY EXPOSED IN QUARRY FACES.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	THERE WERE 11 QUARRIES IN THE LEASE . BUT PROPOSAL FOR DEVELOPMENT IN 3 QUARRIES ONLY NAMED QUARRY-1, QUARRY-4 AND QUARRY-7 IN THE SCHEME PERIOD , AS PER S O M APPROVED ON 24.05.2011 FOR THE PERIOD 2011-12 TO 2015-16.	Nil	NO MINING OPERATION SINCE 1993.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	Nil
2c	Stripping ratio or ore to OB ratio	No valid mining plan for 2017-18.	Not evaluated as the mine is not under operation since the year 1993.	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments.	The mine is not under operation since the year 1993.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Nil	Nil	MINING OPERATION HAS BEEN DISCONTINUED SINCE 1993 AS REPORTED BY THE LESSEE. SUBSEQUENTLY THE STATE GOVT. DECLARED THE LEASE HAS STOOD LAPSED w e f 01.09.1997 VIDE LETTER DATED 01.05.2015.
3b	Quantity of ROM mineral production proposed	PROPOSAL WAS AS FOLLOWS : IRON ORE :2011-12: 130184 CUM, 2012-13: 131120 CUM, 2013-14: 132072 CUM, 2014-15: 135020 CUM, 2015-16 : 135062 CUM. MANGANESE: 2011-12: 111399 CUM, 2012-13: 111403 MT, 2013-14: 111439 CUM, 2014-15: 111481 CUM, 2015-16: 111561 MT		Nil

3c	Recovery of sailable/usable mineral from ROM production	PROPOSAL OF SALEABLE MINERAL FROM ROM PRODUCTION AS PER S O M APPROVED ON 24.05.2011. IRON : 2011-12: 195276 MT, 2012-13: 196684 MT, 2013-14: 198108 MT, 2014-15: 202530 MT, 2015-16: 202593 MT MANGANESE: 2011-12: 69624 MT, 2012-13: 69627 MT, 2013-14: 69627 MT, 2014-15: 69676 MT, 2015-16: 69726 MT	NIL	NO MINING OPERATION SINCE 1993
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Not applicable.	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed.	Not applicable.	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Not proposed. No valid mining plan.	Nil	Nil
3k	Provision of mining machineries in mineral benches	Nil	Nil	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposal.	Nil	Nil
3m	Total area covered under excavation/pits	Nil	The mine is not under operation since 1993.	The mine is not under operation since 1993.
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	Nil
3o	Total area put in use under different heads at the end of year	Nil	AREA ALREADY PUT IN USED UNDER MINING : 8.698 HA, USED FOR DUMP : 5.620 HA, INFRASTRUCTURE: 0.607 HA, OCCUPIED BY ROAD: 1.539 HA TOTAL: 16.464 HA	NO MINING OPERATION SINCE 1993.
3p	Production of ROM mineral during the last five year period as applicable	Nil	Nil	Nil
3q	General remarks of inspecting officers on method of mining etc.	No comments.	The mine is not under operation since the year 1993.	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	No mining operations since 1993.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Nil	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	Nil
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	The mine is not under operation since 1993.	Nil	Nil

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.	Nil	Nil	Nil
5b	Area under backfilling of mined out area	Nil	Not applicable.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	The mine is not under operation since 1993.	Nil	Nil

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Nil	Nil	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	Nil	Nil	Nil
6d	No. of saplings planted during the year	Nil	Nil	Nil
6e	Cumulative no .of plants	Nil	Nil	Nil

6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The mine is not under operation since 1993.	Nil	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	Nil
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The mine is not under operation since 1993.	Nil	Nil
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Nil
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	Nil	Nil

8g	Survival rate	Nil	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Nil	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The mine is not under operation since 1993.	Nil	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Nil	Nil	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Nil	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Nil	Nil
9d	Scrutiny of Annual return on afforestation	Nil	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Nil

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 :

(SHRI G.C. SETHI)

Indian Bureau of Mines