

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/IRON/KJR/MCDR-23/BBS

**Mine code :** 30ORI08024

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Manish Kuma, Asst. Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 19/09/2017
- (v) Prev.inspection date : 25/09/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JALAHURI**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : ORISSA  
District : KEONJHAR  
Village : JALAHURI  
Taluka : BARBIL  
Post office : KHANDBANDH  
Pin Code : 758034  
FAX No. :  
E-mail : eml@cal3.vsnl.net.in  
Phone :
- (f) Police Station :
- (g) First opening date : 16/05/1953
- (h) Weekly day of rest : SUN
2. Address for : JALAHURI IRON & MN MINE  
correspondance VILL-JALAHURI, PO-KHANDBANDHA  
DIST-KEONJHAR, PIN-758034
3. (a) Lease Number : ORI0054  
(b) Lease area : 182.11  
(c) Period of lease : 20  
(d) Date of Expiry : 15/05/2013
4. Mineral worked : MANGANESE ORE Associated  
IRON ORE Main

## 5. Name and Address of the

Lessee : M/S MALA ROY & OTHERS  
 MRS MALA ROY 192 C,N.S.C  
 BOSE ROAD CALCUUTTA-20  
 KOLKATA WEST BENGAL  
 Phone:033-2204541  
 FAX :

Owner : MALA ROY  
 MALA ROY 192 C, N.S.C BOSE  
 ROAD CALCUUTTA-20 KOLKATA  
 WEST BENGAL  
 Phone: 033-2204541  
 FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	03/08/2006
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06/06/2008
		Modif.approved Mining Scheme	13/11/2009
		Mining Scheme rule 12 MCDR1988	04/05/2012
		Renewal under rule 24 MCR1960	12/08/2013

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2013-14: 20 BH 2014-15: 20 BH 2015-16: 14 BH 2016-17: 14 BH	2013-14: NIL 2014-15: NIL 2015-16: NIL 2016-17: NIL	Mine is suspended by DDM Joda vide letter dt 10.05.2013.
1b	Exploration over lease area for geological axis 1 or 2	Total 82 BH from 2013-14 to 2017-18	NIL	Mine is suspended by DDM Joda vide letter dt 10.05.2013.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	No work as mine is under suspension since 10.05.2013.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	A total 82 Bh have been proposed to explore entire area.	NIL.	As the mine was under suspension.
1e	Balance reserve as on 01/04/20	-	Balance reserve as on 01.04.2017 is 33.92 million tonnes. (As per AR 2016-17)	
1f	General remarks of inspecting officers on geology, exploration etc	-	As the mine was under suspension hence, no work of exploration could be carried out in lease area.	Mine is suspended by DDM Joda vide letter dt 10.05.2013.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Proposal for the year 2016-17: Between Grid (1) 2430374Nto 2430194N - 335265E to 335300E and (2) 2430654N to 2430804N - 336050E to 336235E.	No work as the mine was under suspension.	Mine is suspended by DDM Joda vide letter dt 10.05.2013.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	FY 2016-17: Benches have been proposed in Ore and waste separately.	No work as the mine was under suspension.	Mine is suspended by DDM Joda vide letter dt 10.05.2013.
2c	Stripping ratio or ore to OB ratio	FY 2016-17: 1:0.033 (t/CuM)	NIL	As the mine was under suspension.
2d	Quantity of topsoil generation in m3	No Proposal.	Not applicable.	
2e	Quantity of overburden generation in m3	FY 2016-17: 6000 CuM	NIL	As the mine was under suspension.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	For FY 2016-17:	As the mine was under suspension hence, no work could be carried out.	Mine is suspended by DDM Joda vide letter dt 10.05.2013.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	FY 2016-17: 2 Pit	NIL	As the mine was under suspension.
3b	Quantity of ROM mineral production proposed	FY 2016-17:633077 tonnes.	NIL.	As the mine was under suspension.

3c	Recovery of sailable/usable mineral from ROM production	FY 2016-17: 604100 tonnes.	NIL	As the mine was under suspension.
3d	Quantity of mineral reject generation	FY 2016-17: 17625 tonnes	NIL	As the mine was under suspension.
3e	Grade of mineral rejects generation and threshold value declared.	Between 45 to 58 Fe %. Threshold value declared was 45% Fe.	NIL	As the mine was under suspension.
3f	Quantity of sub grade mineral generation.	FY 2016-17: 17625 tonnes	NIL	As the mine was under suspension.
3g	Grade of sub grade mineral generation	Between 45 to 58 Fe %.	NIL	As the mine was under suspension.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	NIL.	As the mine was under suspension.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal.	Not Applicable.	
3j	Provision of drilling and blasting in mineral benches	Drilling and Blasting Proposed with hole dia 100 mm, Burden 3.0 m, Spacing 3.5 m and Bench Height 6.0 m.	No Drilling and Blasting.	As the mine was under suspension.
3k	Provision of mining machineries in mineral benches	Excavator: 0.9, 1.4 and 1.8 CuM. Loader: 1.7, 3.5 CuM, Tripper: 10 tonnes. Dumper: 18.70 and 16.50 tonnes.	No work.	As the mine was under suspension.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	No work could be carried out.	As the mine was under suspension.
3m	Total area covered under excavation/pits	39.610 Ha.	32.651 Ha.	As the mine was under suspension.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.033	NIL	As the mine was under suspension.
3o	Total area put in use under different heads at the end of year	111.095 Ha	95.456 Ha.	As the mine was under suspension.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 897955 MT 2014-15: 701330 MT 2015-16: 703600 MT 2016-17: 713515 MT 2017-18: 633077 MT	2013-14: 67551 MT 2014-15: NIL 2015-16: NIL 2016-17: NIL 2017-18: NIL	As the mine was under suspension.
3q	General remarks of inspecting officers on method of mining etc.	For FY 2016-17:	As the mine was under suspension hence, no work could be carried out.	Mine is suspended by DDM Joda vide letter dt 10.05.2013.

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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)	FY 2016-17: Yes.	No work.	As the mine was under suspension.

4b	Location of topsoil, OB and mineral reject dumps	Waste Dumping: NIL Near boundary Pillar 36 Mineral reject: South of BP 36 and north of BP 12.		As the mine was under suspension.
4c	Number of dumps within lease area and outside of lease area	-	Total 15 dumps within lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within Ultimate pit limit.	No Work.	As the mine was under suspension.
4e	Number of active and alive dumps.	Two dumps were proposed during the plan period.	No active dump as on the date of the inspection as mine was under suspension.	
4f	Number of dead dumps.	No Specific proposal.	No work.	As the mine was under suspension.
4g	Number of dumps established.	No specific proposal.	No Work.	As the mine was under suspension.
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal of retaining and garland drain has been given.	No work.	As the mine was under suspension.
4j	Number of settling ponds	No specific Proposal.	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management	For FY 2016-17:	No waste has been generated during the FY 2016-17 as the mine was under suspension.	

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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.	Not Applicable.	

5b	Area under backfilling of mined out area	No Proposal.	Not applicable.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal.	Not applicable.
5d	Total area fully reclaimed and rehabilitated	No Proposal.	Not applicable.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	For FY 2016-17:	No proposal of backfilling.

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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).	As per rule PMCP report to be submitted.	For the year 2016-17, PMCP report has been submitted.	
6b	Area available for rehabilitation (ha) .	No Proposal.	Not applicable.	
6c	afforestation done (ha).	FY 2016-17: Over waste dump 7 by 750 number of plants.	NIL	As the mine was under suspension.
6d	No. of saplings planted during the year	Proposed 750 no.	NIL	As the mine was under suspension.
6e	Cumulative no .of plants	Cumulatively proposed 4670 no.	NIL	As the mine was under suspension.
6f	Any other method of rehabilitation	No proposal	Not applicable.	

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6g	Cost incurred on watch and care during the year	Proposed: 2 lacs	NIL	As the mine was under suspension.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal.	Not Applicable.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal.	Not Applicable.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No Proposal.	Not Applicable.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal.	Not Applicable.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Specific Proposal.	Not Applicable.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal.	Not Applicable.	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal.	Not Applicable.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal.	Not Applicable.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed for AAQ, Water Quality and Noise Level.	No Work.	As the mine was under suspension.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	For FY 2016-17:	No work of FMCP could be carried out as the mine was under suspension.	

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	FY 2016-17 Mineral Production: 670575 tonnes	NIL and no sorting.	As the mine was under suspension.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	No grade wise sorting.	As the mine was under suspension.
7c	Different grade of mineral sorted out at mines.	Manly from 45 to 58% Fe and 58% Fe and above .	No sorting at mine during FY 2016-17.	As the mine was under suspension.
7d	Any beneficiation process at mines	No Beneficiation Process.	NIL	As the mine was under suspension.

7e General remarks - No Comment as the mine  
of inspecting officer on is under suspension.  
Mineral conservation and  
beneficiation  
issues

### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	FY 2016-17: No Proposal.	Not applicable.	As the mine was under suspension.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for separate dumping.	No work.	As the mine was under suspension.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal.	Not Applicable.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal.	Not Applicable.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal.	Not applicable.	As the mine was under suspension.

8g	Survival rate	No Proposal.	Not Applicable.	
8h	Water sprinkling on roads to control airborne dust	Proposed for water sprinkling on road.	No work has been done.	As the mine was under suspension.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	No comment to offer as mine is under suspension.	

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	-	Submitted.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	under O/c working: 32.65 Ha, Used for waste disposa: 14.01 Ha, Occupied by plant,building s,residential, welfare buildings & roads: 18.05	under O/c working: 32.65 Ha, Used for waste disposa: 14.01 Ha, Occupied by plant,buildings,resident ial,welfare buildings & roads: 18.05	As the mine was under suspension.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	As the mine was under suspension.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NIL	No sale during 2016-17.	As the mine was under suspension.

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**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 :**

**(DILIP JAIN)**

Indian Bureau of Mines