

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/IRON/KJR/MCDR-17/BBS

**Mine code :** 30ORI08019

- (i) Name of the Inspecting : **SRM** ) **SHRI SUDIP RANJAN MAZUMDAR**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri.Manoj Das, Lessee's representative  
Official with  
Designation
- (iv) Date of Inspection : 31/03/2018
- (v) Prev.inspection date : 09/12/2011

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GURUBEDA**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : GURUBEDA
- Taluka : BARBIL
- Post office : BANSPANI
- Pin Code : 758034
- FAX No. :
- E-mail : susil@scpadhee.com
- Phone : 06767-272275(R), 272394(O)
- (f) Police Station : Bansapani
- (g) First opening date : 08/10/1972
- (h) Weekly day of rest : TUE
2. Address for : AT/PO.JODA, BARBIL, ORISSA  
correspondance 758034
3. (a) Lease Number : ORI0098
- (b) Lease area : 49.78
- (c) Period of lease : 5
- (d) Date of Expiry : 04/07/2002
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : SRI. S.C. PADHEE  
 AT/PO: JODA DIST: KEONJHAR  
 KEONJHAR ORISSA  
 Phone:06767-72275  
 FAX :

Owner : S.C.PADHEE  
 .S.C.PADHEE, MINE OWNER  
 AT/PO.JODA, BARBIL ORISSA.  
 KEONJHAR ORISSA  
 Phone: 06767-72275(R),  
 FAX :

Agent : S.K.PADHEE  
 C/O.S.C PADHEE, MINE OWNER,  
 AT/PO.JODA BARBIL KEONJHAR  
 ORISSA  
 Phone: 06767-72275(R), 72394(0)  
 FAX :

## Mining Engineer

Name : D.D.MOHANTA,Full Time  
 Qualification : DIPLOMA MINING  
 Appointment/ : 03/06/2002  
 Termination date

## Mining Engineer

Name : S K GUIN,Full Time  
 Qualification : B TECH MINING IST CLASS  
 Appointment/ : 01/04/2004  
 Termination date

## Geologist

Name : B.MAHAPATRA,Part Time  
 Qualification : MSC GEOLOGY  
 Appointment/ : 01/12/1998  
 Termination date

## Manager

Name : C. MAHANTA  
 Qualification : DIPLOMA IN MINING  
 Appointment/ : 24/05/2000  
 Termination date

## Manager

Name : C.MAHANTA  
 Qualification : DIPLOMA IN MINING ENGINEER.  
 Appointment/ : 24/05/2000  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	10/05/2005
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	31/08/2007
	:	Mining Scheme rule 12 MCDR1988	20/05/2009
	:	Mining Scheme rule 12 MCDR1988	22/10/2013

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2013-14: 8 Boreholes 2014-15: 6 Boreholes 2015-16: 6 Boreholes	2013-14: Nil 2014-15: Nil 2015-16: Nil	Mining activity has been suspended by DDM, Joda since 6th September 2009. The mine is in non-working condition.
1b	Exploration over lease area for geological axis 1 or 2	Not Proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
1e	Balance reserve as on 01/04/20	Geological reserve as per scheme of mining approved on 22.10.13 is 6673933 MT.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition. The Geological reserve remains the same.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
1f	General remarks of inspecting officers on geology, exploration etc	Not Proposed	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition. Therefore, there is a backlog in exploration for previous years.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of development in 2016-17 was confined to main quarry	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
2c	Stripping ratio or ore to OB ratio	1:0.09 m3/Mt	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
2e	Quantity of overburden generation in m3	In 2016-17, teh generation of waste proposed was 115416 m3	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not Proposed	The development have not been carried out as per proposal since the mine is non-working as the mining activity has been suspended by DDM, Joda since September 2009.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

---

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

3b	Quantity of ROM mineral production proposed	Proposal for 2016-17 was 399105MT	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3c	Recovery of sailable/usable mineral from ROM production	Proposal for 2016-17 was 319284MT	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3d	Quantity of mineral reject generation	Proposal for 2016-17 was 79821MT (non-saleable/subgrade ore)	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3e	Grade of mineral rejects generation and threshold value declared.	45 to 58%	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3f	Quantity of sub grade mineral generation.	Proposal for 2016-17 was 79821MT (non-saleable/subgrade ore)	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3g	Grade of sub grade mineral generation	45 to 58%	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual and Mechanical	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting to be carried on hard strata	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3k	Provision of mining machineries in mineral benches	Yes	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3n	Ore to OB ratio for the pit/mine during the year.	Stripping ratio for the year 2016-17 was 1:0.09 m <sup>3</sup> /Mt	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 512154 MT 2014-15: 398738 MT 2015-16: 399840 MT	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

3q	General remarks of inspecting officers on method of mining etc.	Not Proposed	The exploitation work as proposed for 2016-17 have not been carried out as the mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
----	---	--------------	--	---

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	2016-17: No dumping of top soil. waste to be dumped over existing dump and mineral reject to be dumped at ear marked site	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4b	Location of topsoil, OB and mineral reject dumps	Top Soil -Nil, waste to be dumpe dover existing dump	No dumping of waste and mineral reject as the mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4c	Number of dumps within lease area and outside of lease area	Three dumps within the lease area	Three dumps within the lease area	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Inside UPL and hence proposed for rehandling	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

4e	Number of active and alive dumps.	1	1	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4f	Number of dead dumps.	2	2	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4g	Number of dumps established.	3	3	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4j	Number of settling ponds	Not Proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
4k	Specific comments of inspecting officer on waste dump management	Not Proposed	Waste dumping has not been done as per proposal for 2016-17 as the mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

---



## 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.	Exhausted area of 2015-16	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
5b	Area under backfilling of mined out area	1.75 Ha	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	1.9285 Ha	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not Proposed	Backfilling has not been done as per proposal as the mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

## Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6d	No. of saplings planted during the year	2016-17: 3646 nos over safety zone and backfilled area	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

6e	Cumulative no .of plants	Not Specified	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
6f	Any other method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Not Proposed	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	152320 m3	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	182784 m3	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.9285Ha.	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Nil	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	3646nos	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Specified	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring has been proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not Proposed	The proposal on PMCP has not been carried out as the mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

---

Mineral Conservation:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

7a	ROM Mineral dispatch or grade-wise sorting within lease area	It is planned by the lessee to install a 150 TPH mobile crushing plant and corresponding mobile screening plant for necessary crushing and screening to make trhe ore saleable. Then it is planned to sale directly iron ore to various user industries.	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	It is planned by the lessee to install a 150 TPH mobile crushing plant and corresponding mobile screening plant for necessary crushing and screening to make trhe ore saleable. Then it is planned to sale directly iron ore to various user industries.	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
7c	Different grade of mineral sorted out at mines.	Not Specified	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

7d	Any beneficiation process at mines .	Not Proposed	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not Proposed	The proposal has not been executed as the mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Nil	Nil
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of overburden and mineral rejects proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in the exhausted area of 2015-16 is proposed	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Afforestation on the backfilled area : 1.9285 Ha	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not Specified	Nil	Nil
8g	Survival rate	Not Proposed	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling will be done over the dust prone areas such as haul road, working faces, loading and unloading points etc.	Nil	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not Proposed	Maintained naturally	Nil

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual return and monthly returns for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual return for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual return for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

9d	Scrutiny of Annual return on afforestation	Annual return for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual return for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual return for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual return for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
9h	Scrutiny of Annual return on fixed assets	Annual return for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.
9k	Scrutiny of Annual return on mining machineries	Annual return for 2016-17 has not been submitted	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.	Mining activity has been suspended by DDM, Joda since September 2009. The mine is in non-working condition.

---

**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 SUDIP RANJAN MAZUMDAR**)

Indian Bureau of Mines