

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-10/BBS

Mine code : 30ORI08007

- (i) Name of the Inspecting : **SRM**) **SHRI SUDIP RANJAN MAZUMDAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : **SHRI MONAJ MOHANTY, REPRESENTATIVE OF LESSEE**
Official with
Designation
- (iv) Date of Inspection : 31/03/2018
- (v) Prev.inspection date : 18/07/2014

PART-I : GENERAL INFORMATION

1. (a) Mine Name : **BANSPANI**
- (b) Registration NO. : **IBM / 6767 /2011**
- (c) Category : ~~Manual~~ **A-OTFM**
- (d) Type of Working : Opencast
- (e) Postal address :
State : **ORISSA**
District : **KEONJHAR**
Village : **BANSPANI**
Taluka : **BARBIL**
Post office : **Soda**
Pin Code : **758034**
FAX No. : **0663 - 2401041**
E-mail : **SUSIL@scpadhec.com**
Phone : **06767-272394, 272275, 943707.**
- (f) Police Station :
- (g) First opening date : 20/12/1953
- (h) Weekly day of rest : TUE
2. Address for : AT/PO BANSPANI
correspondance : DIST: KEONJHAR
ORISSA.
3. (a) Lease Number : ORI0097
- (b) Lease area : 37.87
- (c) Period of lease : 21
- (d) Date of Expiry : 28/11/1993
4. Mineral worked : **MANGANESE ORE** Associated
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 : SRI. S.C. PADHEE
 AT/PO: JODA DIST: KEONJHAR
 KEONJHAR ORISSA
 Phone: 06767-72275
 FAX :

Mining Engineer

Name : S K GUIN, Full Time
 Qualification : B TECH MINING IST CLASS
 Appointment/ : 01/03/2004
 Termination date

Geologist

Name : B. MOHAPATRA, Full Time
 Qualification : M.Sc IN GEOLOGY
 Appointment/ : 01/12/1998
 Termination date

Geologist

Name : B.PANDA, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 19/10/2003
 Termination date

Manager

Name : S. DWIVEDI
 Qualification : DIPLOMA IN MINING ENGINEERING.
 Appointment/ : 01/11/2000
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04/05/2005
		Mining Scheme rule 12 MCDR1988	05/03/2008
		Modif.approved Mining Scheme	01/03/2011
		Mining Scheme rule 12 MCDR1988	09/04/2012
		Renewal under rule 24 MCR1960	15/05/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2013-14: 10 No sof boreholes	2013-14: Nil	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
1b	Exploration over lease area for geological axis 1 or 2	Not Specified	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Specified	Nil	Nil
1e	Balance reserve as on 01/04/20	Geological reserve as per the 3rd renewal mining plan approved on 15.05.13 for Iron Ore is 3869613 MT and Manganese Ore is 138641MT	The mine is not operation since 06.11.2009 for want of forest clearance. Annual return for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
1f	General remarks of inspecting officers on geology, exploration etc	Not Proposed	There was no exploration proposal for 2016-17 but there is backlog in exploration as per proposal of 2013-14. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	For Manganes Ore: The proposed development during the year 2016-17 will be carried out from the northern side of the existing quarry. The quarry development will be move from west to east. For Iron Ore: The proposed development during the year will be carried out from the western side of the iron ore quarry and move towards east.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Proposed	Nil	Nil
2c	Stripping ratio or ore to OB ratio	2016-17: For Manganese ore- 1:8:9 MT/m3; For Iron Ore- 1: 0.08 Mt/m3	Nil	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	Nil

2e	Quantity of overburden generation in m3	2016-17: For Mn ore - 80305m3 and in Iron ore-22100 m3	Nil, The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not Proposed	The development has not been carried out as per proposal as the mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In 2016-17 proposed development for Mn ore has been planned from the northern side of the existing quarry. For iron ore development is planned from western side of the iron ore quarry.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3b	Quantity of ROM mineral production proposed	In 2016-17, Iron Ore production: 288000MT, Mn Ore Production: 179750 MT	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3c	Recovery of saleable/usable mineral from ROM production	2016-17: Saleable Ore from Mn Ore: 3326 MT and in Iron Ore 173664 MT	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

3d	Quantity of mineral reject generation	In 2016-17, Mineral reject from Mn ore : 5662 MT, Mineral reject from Iron Ore: 85536 MT	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3e	Grade of mineral rejects generation and threshold value declared.	Grade of Mineral reject in Mn Ore is >10% Mn and < 20% Mn and in case of iron ore > 45% and < 58% Fe	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3f	Quantity of sub grade mineral generation.	In 2016-17, Subgrade from Mn ore : 5662 MT, Subgrade from Iron Ore: 85536 MT	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3g	Grade of sub grade mineral generation	Grade of subgrade in Mn Ore is >10% Mn and < 20% Mn and in case of iron ore > 45% and < 58% Fe	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sorting and sizing of run of mines ore.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting for loosening of the rock mass for ease the excavation has been proposed. Blasting is not required for float ore and shall be required for insitu ore.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

3k	Provision of mining machineries in mineral benches	Yes.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3m	Total area covered under excavation/pits	Area under excavation/pits at the end of scheme period is 11.709 Ha	Annual return for 2016-17 has not been submitted. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3n	Ore to OB ratio for the pit/mine during the year.	2016-17: For Manganese ore- 1:8:9 MT/m ³ ; For Iron Ore- 1: 0.08 Mt/m ³	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
3o	Total area put in use under different heads at the end of year	Total area at the end of year at the end of scheme period is 37.398 Ha.	Annual return for 2016-17 has not been submitted. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

3p	Production of ROM mineral during the last five year period as applicable	Mn Ore 2013-14 : 8970 MT 2014-15: 8937 MT 2015-16: 8778 MT 2016-17: 8988 MT	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
		Iron Ore: 2013-14: 101520 MT 2014-15: 259200 MT 2015-16: 257715 MT 2016-17: 259200 MT		
3q	General remarks of inspecting officers on method of mining etc.	Not Proposed	The exploitation has not been done as per proposal as the mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No separate dumping of top soil. OB and Mineral rejects to dumped over proposed dumped site and mineral reject stack	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

4b	Location of topsoil, OB and mineral reject dumps	No separate dumping of top soil. OB to be dumped over the proposed site for dumping which is situated at the northern side of the proposed iron ore quarry.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Specified	Nil	Nil
4e	Number of active and alive dumps.	Not Specified.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
4f	Number of dead dumps.	Not Specified	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
4g	Number of dumps established.	Not Specified	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed for 2016-17	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

4i	Length of Retaining wall or garland drain all along dumps	Not Proposed for 2016-17	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
4j	Number of settling ponds	Not Proposed for 2016-17	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
4k	Specific comments of inspecting officer on waste dump management	Not Proposed	The waste dump management as per proposal have not been carried out as the mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not Proposed	Nil	Nil
5b	Area under backfilling of mined out area	Not Proposed	Nil	Nil
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	1.937 Ha	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not Proposed	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
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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).	Not Specified	Annual return on PMCP has not been submitted for the year 2016-17. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
6b	Area available for rehabilitation (ha) .	Not Specified	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	Not Proposed	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
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 (L x B x D	Not proposed	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposed	Nil	Nil
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	3080 nos of plantation.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.937 Ha	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring stations in core zone for air-3 nos, Water- 4 nos and Noise-2 nos.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not Proposed	The proposal could not be complied as the mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not Specified	Nil	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting and sizing of run of mines ore.	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
7c	Different grade of mineral sorted out at mines.	Not Specified	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

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 mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

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)	Waste from Manganese ore is proposed to be dumped over existing dump (main dump) situated at the southern part of the lease area. Waste from iron ore will be dumped over the proposed site which is situated at the northern side of the proposed iron ore quarry. Generated subgrade will be stored in the existing subgrade stacks	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not Proposed	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
8g	Survival rate	Not proposed	Nil. The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
8h	Water sprinkling on roads to control airborne dust	Not Proposed	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not Proposed	The proposal could not be implemented as the mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual return and monthly returns for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual return for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
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.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
9d	Scrutiny of Annual return on afforestation	Annual return for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual return for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual return for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual return for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

9h	Scrutiny of Annual return on fixed assets	Annual return for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.
9k	Scrutiny of Annual return on mining machineries	Annual return for 2016-17 has not been submitted.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.	The mine is not operation since 06.11.2009 for want of forest clearance. The mine is in non-working.

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) *Sudip Ranjan Mazumdar* 18/9/18

Indian Bureau of Mines