

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/MB/MCDR-6/BBS

Mine code : 30ORI10013

- (i) Name of the Inspecting : **SRM**) **SHRI SUDIP RANJAN MAZUMDAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri S K Dagra, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 30/10/2017
- (v) Prev.inspection date : 07/08/2008

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GHUSURIA**
- (b) **Registration NO.** : **IBM/6670/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : MAYURBHANJ
- Village : NETRAJHARAN
- Taluka : RAIRANGPUR
- Post office : PURNAPANI
- Pin Code : 757043
- FAX No. : 06794-222772
- E-mail : skdagara@gmail.com
- Phone : 9437178313
- (f) Police Station : Badampahad
- (g) First opening date : 09/03/2003
- (h) Weekly day of rest : SUN
2. Address for : VILL-BHAGABANDHI
correspondance PO-PURUNAPANI
DIST-MAYURBHANJ
3. (a) Lease Number : ORI0115
- (b) Lease area : 92.89
- (c) Period of lease : 20
- (d) Date of Expiry : 20/08/2004
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : D.C.DAGARA
 D.C.DAGARA MINES OWNER
 P.O.RAIRANGPUR MAYURBHANJ
 ORISSA
 Phone:
 FAX :

Owner : D.C.DAGARA
 AT/PO.BAHALDA ROAD
 MAYURBHANJ ORISSA
 Phone: 06794-22772
 FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	06/04/2009
Plan/Scheme of Mining		FMCP under 23C(1)	06/04/2009
		Mining Scheme rule 12 MCDR1988	27/02/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no proposal for exploration in the year 2016-17	Not Applicable	The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal outlined in the approved scheme of mining was not carried fully for mining & allied activities. Hence, the proposal for the year 2014-15 for 19 boreholes and 2015-16 for 16 boreholes has not been complied till date.
1b	Exploration over lease area for geological axis 1 or 2	Not Specified	The lease area explored under G1 & G2 level of exploration is 11.005 ha.	The lease area explored under G1 & G2 level of exploration is 11.005 ha.

1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Not Applicable	The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal outlined in the approved scheme of mining was not carried fully for mining & allied activities.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not mentioned	Balance area to be explored under G1 & G2 is 43.58 Ha.	Balance area to be explored under G1 & G2 is 43.58 Ha.

1e	Balance reserve as on 01/04/20	Iron Ore: Reserve as on 01.04.2016 : 0.36million tonnes and remaining resources : 2.0 million tonnes Quartzite:Res erve as on 01.04.2016 : 0.11 million tonnes and remaining resources : 0.05 million tonnes Soapstone:Res erve as on 01.04.2016 : 0.10 million tonnes and remaining resources : 0.02 million tonnes	Iron Ore: Reserve as on 01.04.2017 : 0.36million tonnes and remaining resources : 2.0 million tonnes Quartzite:Reserve as on 01.04.2017 : 0.11 million tonnes and remaining resources : 0.05 million tonnes Soapstone:Reserve as on 01.04.2017 : 0.10 million tonnes and remaining resources : 0.02 million tonnes	Iron Ore: Reserve as on 01.04.2017 : 0.36million tonnes and remaining resources : 2.0 million tonnes Quartzite:Reserve as on 01.04.2017 : 0.11 million tonnes and remaining resources : 0.05 million tonnes Soapstone:Reserve as on 01.04.2017 : 0.10 million tonnes and remaining resources : 0.02 million tonnes
1f	General remarks of inspecting officers on geology, exploration etc	No Comments	The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal for exploration outlined in the approved scheme of mining was not carried out.	The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal for exploration outlined in the approved scheme of mining was not carried out.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of development northern side of the Lease area grid 680 E to 780E.	There has been no development in the year 2016-17	The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal outlined in the approved scheme of mining was not carried fully for mining & allied activities.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Proposed	Not Applicable	There are no benches in topsoil and overburden.
2c	Stripping ratio or ore to OB ratio	Stripping Ratio for Iron Ore :1:0.06 Stripping Ratio for Quartzite :1:0.06 Stripping Ratio for Soapstone :1:0.71	Stripping ratio is Nil as the mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal outlined in the approved scheme of mining was not carried fully for mining & allied activities.	The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal outlined in the approved scheme of mining was not carried fully for mining & allied activities.
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil

2e	Quantity of overburden generation in m3	Proposal for OB generation was 65400m3	Nil	The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal outlined in the approved scheme of mining was not carried fully for mining & allied activities.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No Comments	The development activity as per proposal for the year 2016-17 has not been carried out. The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal outlined in the approved scheme of mining was not carried fully for mining & allied activities.	The development activity as per proposal for the year 2016-17 has not been carried out. The mining activities during the last scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. The mining was operative for the period 2008-09 and part of 2009-10 (up to 25.11.09). Hence, the proposal outlined in the approved scheme of mining was not carried fully for mining & allied activities.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Number of pits proposed for production was 4.	Nil	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3b	Quantity of ROM mineral production proposed	The proposed ROM production in 2016-17 for Iron ore was 106940 MT, Quartzite: 45762 MT and Soapstone: 6691 MT	Nil	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3c	Recovery of sailable/usable mineral from ROM production	Proposal in 2016-17: Recovery of usable mineral from ROM- Iron-80%; Soapstone-30%; Qtz-60%	The Recovery of usable mineral from ROM was Nil. There was no production as the mine remain suspended due to want of forest clearance.	The Recovery of usable mineral from ROM was Nil. There was no production as the mine remain suspended due to want of forest clearance.
3d	Quantity of mineral reject generation	Proposal for the year 2016-17: Mineral Reject generation from Iron Ore: 44408MT, Quartzite: 3767 MT amd Soapstone: 1100MT	The quantity of mineral reject generation was Nil. There was no production as the mine remain suspended due to want of forest clearance.	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3e	Grade of mineral rejects generation and threshold value declared.	Proposal for Iron Ore between Fe 45% to 58%. Threshold value of iron ore declared at 45% Fe.	The quantity of mineral reject generation was Nil. There was no production as the mine remain suspended due to want of forest clearance.	The mining operation was suspended since 25.11.2009 due to want of forest clearance.

3f	Quantity of sub grade mineral generation.	Proposal for the year 2016 -17: Subgrade generation from Iron Ore: 44408MT, Quartzite: 3767 MT and Soapstone: 1100MT	The quantity of mineral subgrade was Nil. There was no production as the mine remain suspended due to want of forest clearance.	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3g	Grade of sub grade mineral generation	Proposal for Iron Ore between Fe 45% to 58%., Quartzite: SiO2 60%-95% and Soapstone: MgO 20%-30%.	The quantity of subgrade generation was Nil. There was no production as the mine remain suspended due to want of forest clearance.	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Nil	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not Applicable	Not Applicable
3j	Provision of drilling and blasting in mineral benches	The iron ore, Quartzite and soapstone will be excavated through drilling and blasting . Drilling of blastholes will be achieved by jack hammer drills. Burden-1.2 mtrs, Specing- 1.5 mtrs, Depth of hole- 3mtrs	Nil.	The mining operation was suspended since 25.11.2009 due to want of forest clearance.

3k	Provision of mining machineries in mineral benches	Proposed Jackhammer drill - 5, Excavator-2, Compressure-2.	Nil	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Nil	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3m	Total area covered under excavation/pits	Area under mining at the end of scheme of mining period 5.835 ha	Area under mining at the end of year is 5.835 ha	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3n	Ore to OB ratio for the pit/mine during the year.	Stripping Ratio for Iron Ore :1:0.06 Stripping Ratio for Quartzite :1:0.06 Stripping Ratio for Soapstone :1:0.71	Nil	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3o	Total area put in use under different heads at the end of year	Area under mining at the end of scheme of mining period 5.835 ha	Nil	The mining operation was suspended since 25.11.2009 due to want of forest clearance.
3p	Production of ROM mineral during the last five year period as applicable	Production of Iron Ore ROM: 2014-15: 26994 MT 2015-16: 83745 MT 2016-17: 106940 MT	Actual Production of Iron Ore ROM: 2014-15: Nil 2015-16: Nil 2016-17: Nil	The mining operation was suspended since 25.11.2009 due to want of forest clearance.

3q	General remarks of inspecting officers on method of mining etc.	No Comments	The mining activities during the current scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. Hence, the proposal outlined in the approved scheme of mining was not carried out for mining & allied activities.	The mining activities during the current scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. Hence, the proposal outlined in the approved scheme of mining was not carried out for mining & allied activities.
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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)	There is no proposal for top soil generation. It has been proposed that the waste and subgrade generated wil be dumped separated.	The OB and Mineral reject/subgrade generation was nil as the mining operation remain suspended from 25.11.2009 due to want of forest clearance.	The OB and Mineral reject/subgrade generation was nil as the mining operation remain suspended from 25.11.2009 due to want of forest clearance.

4b	Location of topsoil, OB and mineral reject dumps	There is no proposal for top soil generation. The waste generated from iron ore quarry will be dumped at the location 150-260N and 30W to 130 W. The waste generated from quartzite will be dumped at the location 517-605N and 685W to 885E. The waste generated from soapstone will be dumped at the location 690-750N and 560W to 665E.	There was no dumping of OB as the mine remain suspended from 25.11.2009 due to want of forest clearance.	There was no dumping of OB as the mine remain suspended from 25.11.2009 due to want of forest clearance.
4c	Number of dumps within lease area and outside of lease area	Number of dumps within the lease area is four.	Number of dumps within the lease area is four.	Number of dumps within the lease area is four.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside the UPL	Location of dumps Outside the UPL	Location of dumps Outside the UPL
4e	Number of active and alive dumps.	Number of active and alive dumps 4	Number of active and alive dumps 4	Number of active and alive dumps 4
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.	Proposal of construction of retaining wall in 2016-17: 350 x 3 x 2(m)	Not done	The mining activities during the current scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. Hence, the proposal outlined in the approved scheme of mining was not carried out for mining & allied activities.
4j	Number of settling ponds	Only maintenance of settling ponds during the year 2016-17 has been proposed.	Not maintained as mining operation has been suspended from 25.11.2009 due to want of forest clearance.	Not maintained as mining operation has been suspended from 25.11.2009 due to want of forest clearance.
4k	Specific comments of inspecting officer on waste dump management	No Comments	The mining activities during the current scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. Hence, the proposal outlined in the approved scheme of mining w.r.t waste dump management has not been carried out.	The mining activities during the current scheme period stopped owing to suspension of mines since 25.11.2009 due to want of forest clearance. Hence, the proposal outlined in the approved scheme of mining w.r.t waste dump management has not been carried out.

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.	Not Proposed	Not Applicable	Not Applicable
5b	Area under backfilling of mined out area	Not Proposed	Not Applicable	Not Applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Not Applicable	Not Applicable
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Not Applicable	Not Applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Comments	There is no possibility of abandonment of quarries or part thereof during the ensuing scheme period. The mine is under suspension from 25.11.2009 due to want of forest clearance.	There is no possibility of abandonment of quarries or part thereof during the ensuing scheme period. The mine is under suspension from 25.11.2009 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).	Not Specified	Annual return on PMCP has not been submitted timely for the year 2016-17.	This has been intimated to lessee by violation letter issued dated 06.11.2017
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	Nil	Nil	Nil

6d	No. of saplings planted during the year	Not Proposed	Not applicable	Not applicable
6e	Cumulative no .of plants	Not Proposed	Nil	Nil
6f	Any other method of rehabilitation	Not Proposed	Not Applicable	Not Applicable
6g	Cost incurred on watch and care during the year	Not proposed	Not Applicable	Not Applicable
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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	Not Applicable	Not Applicable

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Not Applicable	Not Applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring of ambient air quality, noise quality & water quality	Regular monitoring of ambient air quality, noise quality & water quality	Regular monitoring of ambient air quality, noise quality & water quality
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No Comments	Proposal on PMCP has not been complied as the mine is under suspension from 25.11.2009 due to want of forest clearance.	Proposal on PMCP has not been complied as the mine is under suspension from 25.11.2009 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	Not Specified	Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Nil	Nil

7c	Different grade of mineral sorted out at mines.	Not Specified	Nil	Nil
7d	Any beneficiation process at mines .	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No Comments	The mine is under suspension from 25.11.2009 due to want of forest clearance.	The mine is under suspension from 25.11.2009 due to want of forest clearance.

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	The mine is under suspension from 25.11.2009 due to want of forest clearance.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by Water Tanker.	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No Comments	Aesthetic beauty in and around mines is maintained	Aesthetic beauty in and around mines is maintained

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual return for the year 2016-17 has been submitted.	Annual return for the year 2016-17 has been submitted.	Annual return for the year 2016-17 has been submitted.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The mine is under suspension from 25.11.2009 due to want of forest clearance. No appointment of Geologist & Mining Engineer	The mine is under suspension from 25.11.2009 due to want of forest clearance. No appointment of Geologist & Mining Engineer	The mine is under suspension from 25.11.2009 due to want of forest clearance. No appointment of Geologist & Mining Engineer
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under (O/C) workings : 5.835 Ha Area used for waste disposal: 2.718 Ha etc.	Area covered under (O/C) workings : 5.835 Ha Area used for waste disposal: 2.718Ha etc.	The mine is under suspension from 25.11.2009 due to want of forest clearance.
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
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
MCDR17	Rule 45(5)(k)	06/11/2017		20/12/2017	
MCDR17	Rule 26(2)	06/11/2017		20/12/2017	

Date :

(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines