

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

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

Mine code : 30ORI10008

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri K.R. Ray (Qualified Person), Shri Balaram Giri (
Official with
Designation
- (iv) Date of Inspection : 30/10/2017
- (v) Prev.inspection date : 02/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SULAIPAT**
- (b) **Registration NO.** :
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : MAYURBHANJ
- Village : SULAIPAT
- Taluka : BAMANGHATY
- Post office : SULAIPAT
- Pin Code : 757043
- FAX No. : 06794-222434
- E-mail :
- Phone : 06794-222628
- (f) Police Station :
- (g) First opening date : 10/10/1984
- (h) Weekly day of rest : SAT
2. Address for : SULAIPAT IRON MINE, M/S B.C.DAGARA
correspondance P.O.SULAIPAT, DIST:MAYURBHANJ
ORISSA-757043
3. (a) Lease Number : ORI0111
- (b) Lease area : 618
- (c) Period of lease : 30
- (d) Date of Expiry : 24/10/2005
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : B.C.DAGARA
 B.C.DAGARA, MINE OWNER
 RAIRANGPUR, ORISSA
 MAYURBHANJ ORISSA
 Phone: 06794-22068
 FAX : 06794-22628

Owner : B.C.DAGARA
 MINE OWNER
 RAIRANGPUR, ORISSA
 SUNDARGARH ORISSA
 Phone:
 FAX :

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	19/02/2004
Plan/Scheme of Mining		Modif.of approved Mining Plan	14/09/2007
		Mining Scheme rule 12 MCDR1988	20/11/2009
		Modif.approved Mining Scheme	27/12/2011
		Mining Scheme rule 12 MCDR1988	14/06/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Year 2016-17: 14 BH	NIL	Mining Operation are under suspension since 26/10/2015.
1b	Exploration over lease area for geological axis 1 or 2	2016-17: 14 BH	2016-17: NIL As per approved document approx 84.0 Ha is explored under G1 level and approx 231.00 ha area explored under G2 level of exploration.	Mining Operation are under suspension since 26/10/2015.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal has been made in approved document.	FY 2016-17: NIL	Mining Operation are under suspension since 26/10/2015.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Approx. 303 Ha of area to be explored.	NIL	Mining Operation are under suspension since 26/10/2015.
1e	Balance reserve as on 01/04/20	In the SOM approved on 14/06/2013, the Reserve and Resource estimated as on 01/01/2013 for Iron Ore was 40.808 MT and 0.665 MT respectively.	As per annual return 2016-17: Reserve: 13.834 mT Resource: 26.366 mT	
1f	General remarks of inspecting officers on geology, exploration etc	---	The lease area is yet to explore in scientific manner.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Quarry 1: SW side of lease Quarry 2: Near Lease Boundary pillar 16. Quarry 3: Near Broken Boundary pillar 41. Quarry 4: Near Lease Boundary Pillar 8A.	No development for FY 2016-17, as the mining operations is under suspension.	Mining Operation are under suspension since 26/10/2015.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes.	FY 2016-17: No work could be undertaken due to suspension of mining operation.	Mining Operation are under suspension since 26/10/2015.
2c	Stripping ratio or ore to OB ratio	FY 2016-17- 1:1.15	NIL	Mining Operation are under suspension since 26/10/2015.
2d	Quantity of topsoil generation in m3	NIL.	NIL.	Mining Operation are under suspension since 26/10/2015.
2e	Quantity of overburden generation in m3	FY 2016-17: Total OB: 440200 m3 Total Waste: 722700 m3	NIL.	Mining Operation are under suspension since 26/10/2015.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	During FY 2016-17 no developmental work could be undertaken as the Mining Operation are under suspension since 27/10/2015 by DFO Rairangpur.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	FY 2016-17: 04 Pits	None of the pit could be operated due to suspension of mining operation.	Mining Operation are under suspension since 26/10/2015.
3b	Quantity of ROM mineral production proposed	3195500 MT	NIL	Mining Operation are under suspension since 26/10/2015.

3c	Recovery of sailable/usable mineral from ROM production	17,65,400 MT	NIL.	Mining Operation are under suspension since 26/10/2015.
3d	Quantity of mineral reject generation	4,41,350 MT	NIL.	Mining Operation are under suspension since 26/10/2015.
3e	Grade of mineral rejects generation and threshold value declared.	Between 45-55% Fe	NIL.	Mining Operation are under suspension since 26/10/2015.
3f	Quantity of sub grade mineral generation.	4,41,350 MT	NIL.	Mining Operation are under suspension since 26/10/2015.
3g	Grade of sub grade mineral generation	Between 45-55% Fe	NIL.	Mining Operation are under suspension since 26/10/2015.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	NIL.	Mining Operation are under suspension since 26/10/2015.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	NIL.	Mining Operation are under suspension since 26/10/2015.
3j	Provision of drilling and blasting in mineral benches	Diameter of the hole : 115 mm Depth of the Hole : 9.9 m Burden : 2.6 m Spacing : 3.25 m Sub-grade drilling : 0.9 m	Drilling and blasting for FY 2016-17 could not be undertaken due to suspension of mining operation.	Mining Operation are under suspension since 26/10/2015.

3k	Provision of mining machineries in mineral benches	Excavators of 2.1 and 2.5 Cu.M along with dumpers of 20, 25 and 30 tonnes.	NIL.	Mining Operation are under suspension since 26/10/2015.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitably proposed.	NIL.	Mining Operation are under suspension since 26/10/2015.
3m	Total area covered under excavation/pits	Total area proposed till the end of the SOM is 67.10 Ha.	Around 56.00 Ha	Mining Operation are under suspension since 26/10/2015.
3n	Ore to OB ratio for the pit/mine during the year.	For Mine 2016-17- 1: 1.15	NIL.	Mining Operation are under suspension since 26/10/2015.
3o	Total area put in use under different heads at the end of year	Around 206.498 ha area proposed to put under different heads at the end of 2017-18.	No work during FY 2016-17.	Mining Operation are under suspension since 26/10/2015.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 4235000 MT 2014-15: 3804500 MT 2015-16: 4650100 MT 2016-17: 3195500 MT	2013-14: 15193 MT 2014-15: 593430 MT 2015-16: 88148 MT 2016-17: NIL	Mining Operation are under suspension since 26/10/2015.
3q	General remarks of inspecting officers on method of mining etc.	--	No mineral was excavated during FY 2016-17 as the Mining Operation are under suspension since 27/10/2015 by DFO Rairangpur.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes.	NIL.	Mining Operation are under suspension since 26/10/2015.
4b	Location of topsoil, OB and mineral reject dumps	Proposed Dump 1: 800N, 200E Proposed Dump 2: 800W,200N Proposed Dump 3: 1000E,00NS	No dumping has been observed for the year 2016-17.	Mining Operation are under suspension since 26/10/2015.
4c	Number of dumps within lease area and outside of lease area	Total 07 dumps within lease area.	All dumps observed within lease area.	Mining Operation are under suspension since 26/10/2015.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per approved document Within UPL.	Within UPL.	
4e	Number of active and alive dumps.	All waste dumps are active.	No dump has been declared as matured.	No work for the FY 2016-17, as the mine is under suspension.
4f	Number of dead dumps.	No proposal.	NIL.	
4g	Number of dumps established.	No proposal.	NIL.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed.	Found to be along waste dumps.	Maintenance work could not be taken up due to suspension of mining operation.
4i	Length of Retaining wall or garland drain all along dumps	No proposal for the FY 2016-17.	NIL.	Mining Operation are under suspension since 26/10/2015.
4j	Number of settling ponds	No proposal for the FY 2016-17.	NIL.	Mining Operation are under suspension since 26/10/2015.
4k	Specific comments of inspecting officer on waste dump management	--	No mineral was excavated during FY 2016-17 due to suspension of mining operation, hence, no waste generation.	

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.	Murumdihi and Thakuranisal Quarry proposed for backfilling.	NIL.	Mining Operation are under suspension since 26/10/2015.
5b	Area under backfilling of mined out area	Murumdihi and Thakuranisal Quarry proposed for backfilling.	NIL.	Mining Operation are under suspension since 26/10/2015.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	NIL.	Mining Operation are under suspension since 26/10/2015.
5d	Total area fully reclaimed and rehabilitated	No specific proposal.	NIL.	Mining Operation are under suspension since 26/10/2015.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL.	Backfilling was proposed in quarry 3 and 4 after exhaustion of mineral in phased manner, however, no work has been carried out in this quarry so Backfilling could not be undertaken.	

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 by the 1st July.	Report not submitted.	Violation issued toLessee.
6b	Area available for rehabilitation (ha) .	Murumdihi and Thakuranisal Quarry proposed for backfilling after exhaustion of mineral.	NIL.	Mining Operation are under suspension since 26/10/2015.

6c	afforestation done (ha).	4.0 Ha	NIL.	Mining Operation are under suspension since 26/10/2015.
6d	No. of saplings planted during the year	6400 No.	NIL.	Mining Operation are under suspension since 26/10/2015.
6f	Any other method of rehabilitation	Backfilling.	NIL.	Mining Operation are under suspension since 26/10/2015.
6g	Cost incurred on watch and care during the year	8.40 Lacs.	NIL.	Mining Operation are under suspension since 26/10/2015.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Murumdihi and Thakuranisal Quarry proposed for backfilling.	NIL.	Mining Operation are under suspension since 26/10/2015.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal.	NIL.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	NIL.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal.	NIL.	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal.	NIL.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal.	NIL.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal.	NIL.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal.	NIL.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed to monitor.	NIL.	Mining Operation are under suspension since 26/10/2015.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	Due to suspension of mining operation, most of the PMCP work proposed could not be undertaken.	Mining Operation are under suspension since 26/10/2015.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting proposed in lease area.	NIL.	Mining Operation are under suspension since 26/10/2015.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	NIL.	Mining Operation are under suspension since 26/10/2015.
7c	Different grade of mineral sorted out at mines.	proposed for >58% Fe and 45 to <58% Fe.	NIL for FY 2016-17.	Mining Operation are under suspension since 26/10/2015.
7d	Any beneficiation process at mines .	No proposal.	NIL.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	--	No specific comment as Mining Operation are under suspension since 27/10/2015.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil removal.	NIL.	Mining Operation are under suspension since 26/10/2015.
8b	Concurrent use or storage of topsoil	No proposal.	NIL.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for separate dumping.	NIL.	Mining Operation are under suspension since 26/10/2015.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste proposed for backfilling.	NIL.	Mining Operation are under suspension since 26/10/2015.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling was proposed to reclaim and rehabilitate.	NIL.	Mining Operation are under suspension since 26/10/2015.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	6400 number of sapling is proposed during FY 2016-17.	NIL.	Mining Operation are under suspension since 26/10/2015.
8g	Survival rate	No specific proposal.	NIL as no plantation during FY 2016-17.	Mining Operation are under suspension since 26/10/2015.
8h	Water sprinkling on roads to control airborne dust	To control the airborne dust water sprinkling is proposed on the road.	NIL.	Mining Operation are under suspension since 26/10/2015.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	Proposed work for the FY 2016-17 could be undertaken due to suspension of Mining Operation.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual return to be submitted as per Rule 45 of MCDR, 2017.	Being submitted regularly.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No mining Engineer and Geologist is appointed.	Mining Engineer and Geologist were not appointed due to suspension of Mining Operation.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under o/c working: 55.60 Ha For waste dumping: 9.30 Ha	Under o/c working: 55.60 Ha For waste dumping: 9.30 Ha	Mining Operation are under suspension since 26/10/2015.
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year: NIL	NIL.	Mining Operation are under suspension since 26/10/2015.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Quantity of mineral rejects generated: NIL.	Quantity of mineral rejects generated observed to NIL.	Mining Operation are under suspension since 26/10/2015.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value, Ex. Mine price and production cost was Zero.	Sale value, Ex. Mine price and production cost was observed to Zero as Mining operations are under suspension.	

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	
MCDR17	Rule 26(2)	06/11/2017	26/12/2017				

Date :

(DILIP JAIN)

Indian Bureau of Mines