

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-3/BBS

Mine code : 30ORI08002

- (i) Name of the Inspecting : **S010**) **SHRI G.C. SETHI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Pradipta Mohapatra, Qualified Person
Official with
Designation
- (iv) Date of Inspection : 09/01/2018
- (v) Prev.inspection date : 08/08/2010

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BAITARANI**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : INGANIJHARAN
- Taluka : BARBIL
- Post office : DADUAN
- Pin Code : 758034
- FAX No. : 06767-275315
- E-mail :
- Phone : 06767-275314
- (f) Police Station : Joda
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : BAITARANI IRON MINE, M/S SAROJINI PRADHAN
correspondance P.O.DADUAN, DIST:KEONJHAR
ORISSA-758035
3. (a) Lease Number : ORI0099
- (b) Lease area : 65.4
- (c) Period of lease : 28
- (d) Date of Expiry : 27/07/2008
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : SAROJINI PRADHAN
MINE OWNER AT P.O.TELENGA
BAZAR CUTTACK ORISSA
Phone:0674-618414
FAX :0671-618414

Owner : SAROJINI PRADHAN
AT P.O.TELENGA BAZAR
CUTTACK ORISSA
Phone: 0671-618414
FAX : 0671-618414

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	28/04/2006
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	06/02/2008
		Modif.of approved Mining Plan	02/09/2011
		Mining Scheme rule 12 MCDR1988	13/06/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No such specific proposal in the scheme of mining approved on 13.06.2014. an extent of 145.1973 ha remains un explored.	Not available.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	The lessee was the exploration agency for this mine.	The lessee was the exploration agency for this mine & no exploration was done during the year 2016-17 as the mine was not under operation since 08.11.2009. The expenditure on account of exploration is considered as Nil.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such specific proposal.	The entire lease area of 65.397ha has to be expored atleast upto G2 level.	Nil

1e	Balance reserve as on 01/04/20	As per the scheme of mining, approved on 13.06.2014, the reserves/resources of iron ore is as given below: The reserves under 121): 3901400 tonnes, under (122): 3787250 tonnes and remaining resources 3025050 tonnes respectively.	As the mine is not under operation from 08.11.2009, no reserves/resources have been depleted as on the date of inspection.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No comments.	The horse shoe shaped iron ore deposit of Joda-koira sector forms a northerly plunging synclinorium . The hill ranges broadly delineate the folded limbs of the synclinorium. Superimpositions of several phases of deformation in the area have resulted in a complex fold system. The mine is not under operation due to lack of clearances.	The mine is not under operation due to lack of forest clearance since 08.11.2009.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Magazine pit & Nala Pit.	The mine is not under operation since 08.11.2009 and no mining operation during 2016-17.	Nil

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no topsoil generation proposal & separate benches for the purpose has not been made. However, separate benches in overburden/waste zone has been envisaged.	The mine was not under operation during the year 2016-17 & no bench advancement has been done in overburden/waste as well as in ore zone.	Nil
2c	Stripping ratio or ore to OB ratio	1:3.19 t/cum as envisaged in the scheme of mining approved in the last occasion.	The mine was not under operation since 08.11.2009 and the Ore:OB ratio could not be counted.	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Only 114420 cum. of waste material was proposed to be generated during 2016-17.	Nil	The mine is not under operation since 08.11.2009.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments.	The mine is not under operation since 08.11.2009 & till date.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Magazine pit & Nala Pit were proposed for production during 2016-17.	The mine was not under operation during 2016-17 & no quarry advancement was done.	Nil

3b	Quantity of ROM mineral production proposed	The proposed production was for 400120 tonnes during the year 2017-18.	No production was reported during the year 2016-17 as the mine is not under operation since 08.11.2009.	Nil
3c	Recovery of sailable/usable mineral from ROM production	The recovery of iron ore is about 60% as indicated in the last approved scheme of mining.	The mine is not under operation since 08.11.2009, thereby recovery percentage of iron ore dose not arise during 2016-17.	Nil
3d	Quantity of mineral reject generation	Only 17148 tonnes of mineral reject was proposed to be generated during 2016-17.	Nil	The mine was not under operation during 2016-17.
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Not applicable.	The mine was not under operation.
3f	Quantity of sub grade mineral generation.	Only 154332 tonnes of sub-grade was proposed to be generated during 2016-17.	Nil	Nil
3g	Grade of sub grade mineral generation	No such specific proposal.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method by instalation of curshing & screening units.	No segregation of ore is practised at present as the mine is not under operation since long time.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil

3j	Provision of drilling and blasting in mineral benches	Provisions for drilling & blasting is envisaged.	The drilling & blasting is not in practice as the mine was not under operation.	Nil
3k	Provision of mining machineries in mineral benches	Provisions for deployment of mining machineries are envisaged.	No mining machineries were deployed in the benches as the mine was not under operation.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Separate benches in overburden & in ore zone are proposed in the scheme of mining approved on 13.06.2014.	The mine was not under operation and no bench advancement was reported during 2016-17.	Nil
3m	Total area covered under excavation/pits	No such specific proposal in the approved scheme of mining.	The mine was not under operation during the year 2016-17 & no additional area has been degraded during 2016-17.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:3.19t/cum as envisaged in the approved scheme of mining.	As the mine was not under operation during 2016-17 & no production & waste handling was reported during the year 2016-17. Therefore, the Ore:OB ratio could not be computed.	Nil
3o	Total area put in use under different heads at the end of year	No such specific proposal for the year 2016-17.	As per the annual return submitted by the party for the year 2016-17, the land use in different counts is given below:- (i) Mining: 12.425ha (ii) Waste disposal : 1.456ha (iii) Plant & buildings etc.: 1.102ha & (iv) Any other unspecified purposes:0.062ha.	Nil

3p	Production of ROM mineral during the last five year period as applicable	The proposed production for the period from 2013-14 to 2017-18 is as given below:- 2013-14: 384020 tonnes, 2014-15:400120 tonnes , 2015-16:400120 tonnes, 2016-17:400120 tonnes & 2017-18: 400120 tonnes as per the scheme of mining approved dated 13.06.2014	The actual production reported for the period from 2013-14 to 2017-18 is as given below:- 2013-14: Nil, 2014-15: Nil, 2015-16: Nil, 2016-17: Nil & 2017-18 as on the date of inspection:Nil	The mine is not under operation since 08101.2009 to till date.
3q	General remarks of inspecting officers on method of mining etc.	No comment to offer.	The mine was not under operation since the year 2009.	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Provisions for separate dumping waste, sub-grade ore & mineral rejects has been envisaged. There is no proposal for generation of top soil in the approved scheme of mining.	The mine was not under operation during 2016-17 and no dumping/stacking was practised.	Nil

4b	Location of topsoil, OB and mineral reject dumps	The proposed OB dump is in dump D2 during 2016-17 as envisaged in the scheme of mining approved on 13.06.2014. No provision for topsoil staking during the aforesaid period.	The mine is not under operation since 08.11.2009 to till date.	Nil
4c	Number of dumps within lease area and outside of lease area	Dump-1(A), Dump-1(B), Dump-1(D) & Dump-2 as envisaged in the approved scheme of mining.	Dump-1(A), Dump-1(B), Dump-1(D) & Dump-2	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Near Magazine pit & Nala pit.	Near Magazine pit & Nala pit.	Nil
4e	Number of active and alive dumps.	Dump-1(A), Dump-1(B), Dump-1(D) & Dump-2	None as the mine is not under operation since 08.11.2009.	Nil
4f	Number of dead dumps.	No such specific proposal.	Dump-1(A), Dump-1(B), Dump-1(D) & Dump-2 as the mine is not under operation since 08.11.2009.	Nil
4g	Number of dumps established.	Dump-1(A), Dump-1(B), Dump-1(D) & Dump-2	Dump-1(A), Dump-1(B), Dump-1(D) & Dump-2	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal.	No retaining wall & garland drains were constructed during the year 2016-17 as the mine is not under operation.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil

4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	No comments.	The mine was not under operation since 2009 & till date.	Nil

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.	Nil	Nil	Nil
5b	Area under backfilling of mined out area	No such proposal during 2016-17	Nil	The mine was not under operation during 2016-17.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No such proposal.	The mine is not under operation since 08.11.2009.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No comments.	The mine was not under operation since the year 2009.	Nil

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 submitted.	The mine was not under operation since the year 2009.	Nil

6b	Area available for rehabilitation (ha) .	Nil	Nil	The mine was not operating condition since 2009.
6c	afforestation done (ha).	0.300ha during 2016-17.	Nil	Nil
6d	No. of saplings planted during the year	500 saplings during 2016-17.	Nil	Nil
6e	Cumulative no .of plants	No such proposal.	Not available.	Nil
6f	Any other method of rehabilitation	Nil	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comments.	The mine is not in operating condition since the year 2009.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to produce 400120 tonnes of iron ore during the year 2016-17.	The mine was not under operation since the year 2009 & no production and dispatch during the year 2016-17.	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical means as per the approved scheme of mining dated 13.06.2014.	The same practice was followed while the mine was under operation as reported during the inspection and presently no such activities are undertaken due to non operational status of the mine.	Nil
7c	Different grade of mineral sorted out at mines.	No such specific proposal in the approved scheme of mining.	No mineral sorted out during the year 2016-17 as the mine was not in operation.	Nil
7d	Any beneficiation process at mines .	Mechanical crushing & screening has been proposed.	Not practised as the mine is not under operation since 08.11.2009.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comment.	The mine is not under operation since 2009.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal.	No topsoil was generated during the year 2016-17.	Nil
8b	Concurrent use or storage of topsoil	Nil	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Provisions for separate dumping of overburden/waste rock has been made in the approved scheme of mining.	No overburden, waste, rejects & fines was generated during the year 2016-17, since the mine was not in operation during 2016-17.	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal.	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)	Only 500 nos. of saplings were proposed during 2016-17.	Nil	Nil
8g	Survival rate	No such proposal for 2016-17	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on the haul road was proposed.	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments.	The mine is not under operation since the year 2009, thereby no work has been done to improve the aesthetic beauty in and around the lease area.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	The party has not submitted all the monthly & annual returns for the year 2016-17.	As the mine is not under operation since the year 2009, no production and waste handling was reported for the year 2016-17.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	No mining engineer, geologist & mine manager has been employed in the mine as the mine is not in operation since 2009	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The status of existing land use has not been furnished, since the mine is not under operation from 08.11.2009	Nil	Nil
9d	Scrutiny of Annual return on afforestation	No plantation was done during 2016-17 as the mine was not under operation.	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral rejects was generated from the mine as the mine was not under operation.	No mineral reject was generated during the year 2016-17.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	During the year 2016-17, no production of iron ore was reported.	During the year 2016-17, no production of iron ore was reported.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	Nil

9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Nil
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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 G.C. SETHI)

Indian Bureau of Mines