

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-86/BBS

Mine code : 30ORI08114

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri TK Roy, (DGM & Mines Manager), Sri J. Chattopadh
Official with
Designation
- (iv) Date of Inspection : 15/02/2018
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BOLANI IRON & MN 1586.36**
- (b) **Registration NO.** : **IBM/5662/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KEONJHAR
Village :
Taluka :
Post office : Bolani
Pin Code : 758037
FAX No. : 033-22823990
E-mail : mommines@gmail.com
Phone : 033-22822316
- (f) Police Station : Bolani
- (g) First opening date : 14/11/1962
- (h) Weekly day of rest : SUN
2. Address for : Bolani Mn and Iron Mine,
correspondance At: Bolani, Keonjhar
Odisha-758037
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : STEEL AUTHORITY OF INDIA LIMITED
 PURNAPANI LIMESTONE MINE
 SUNDERGARH DISTRICT -770
 ORISSA SUNDARGARH ORISSA
 Phone:0661-728121
 FAX :

Owner : SHRI KALYAN MAITY
 ISPAT BHAWAN, LODHI ROAD
 M/S SAIL LTD, NEW DELHI
 SUNDARGARH ORISSA
 Phone:
 FAX :

Agent : Sri D Dey Sarkar
 Bolani Mn and Iron Mine
 Steel authority of India,
 Bolani, Keonjhar, Odisha
 KEONJHAR ORISSA
 Phone: 06767-260172
 FAX : 06767-260172

Mining Engineer

Name : Sri Ravi Ranjan, Full Time
 Qualification : B. Tech Mining
 Appointment/ : 01/05/2016
 Termination date

Geologist

Name : Sri joydev Chattopadhyay, Full Time
 Qualification : M.Sc. Tech (Applied Geology)
 Appointment/ : 01/06/2016
 Termination date

Manager

Name : Sri Tarun Kanti Roy
 Qualification : BE Mining
 Appointment/ : 01/05/2016
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under MCR 1960 06/08/2010

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No valid proposal for reporting year i.e. 2016-17. The Mining Plan approved on 06/08/2010 was valid for the period from 2010-11 to 2014-15.	NIL.	No proposal has been made since plan period has already been lapsed.
1b	Exploration over lease area for geological axis 1 or 2	No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal of exploration to bring Geological axis in 1 or 2. No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.

1e	Balance reserve as on 01/04/20	As per approved Mining Plan vide letter number MP/OTF-MECH/08-ORI/BHU/2010-11 dated 06/08/2010, the resource of Mn and Iron Ore was 0.286 and 0.567 million tonnes respectively.	As no depletion, hence the resource position as on 01/04/2017 will be 0.286 and 0.567 million tonnes for Mn and Iron Ore respectively.	No depletion since the approval of last document.
1f	General remarks of inspecting officers on geology, exploration etc	A total of 45 Bh have been proposed during last plan period i.e. from 2010-11 to 2014-15.	A total of --- BH have been drilled during the year from 2010-11 to 2014-15. Entire lease area yet to explore.	NIL.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.
2c	Stripping ratio or ore to OB ratio	No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.
2d	Quantity of topsoil generation in m3	No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.

2e	Quantity of overburden generation in m3	No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No valid proposal for reporting year i.e. 2016-17.	No work of development has been carried out during reporting year.	No proposal has been made since plan period has already been lapsed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3b	Quantity of ROM mineral production proposed	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3c	Recovery of sailable/usable mineral from ROM production	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3d	Quantity of mineral reject generation	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3e	Grade of mineral rejects generation and threshold value declared.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3f	Quantity of sub grade mineral generation.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3g	Grade of sub grade mineral generation	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.

3h	Manual / Mechanised method adopted for segregating from ROM	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3j	Provision of drilling and blasting in mineral benches	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3k	Provision of mining machineries in mineral benches	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3m	Total area covered under excavation/pits	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3n	Ore to OB ratio for the pit/mine during the year.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3o	Total area put in use under different heads at the end of year	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
3p	Production of ROM mineral during the last five year period as applicable	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.

3q	General remarks of inspecting officers on method of mining etc.	No valid proposal for reporting year i.e. 2016-17.	No specific comment to offer as no excavation during reporting year 2016-17.	NIL.
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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)	No valid proposal for reporting year i.e. 2016-17.	NIL.	No proposal has been made since plan period has already been lapsed.
4b	Location of topsoil, OB and mineral reject dumps	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
4c	Number of dumps within lease area and outside of lease area	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
4e	Number of active and alive dumps.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
4f	Number of dead dumps.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
4g	Number of dumps established.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
4h	Whether Retaining wall or garland drain all along dumps are there.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
4i	Length of Retaining wall or garland drain all along dumps	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.

4j	Number of settling ponds	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
4k	Specific comments of inspecting officer on waste dump management	No valid proposal for reporting year i.e. 2016-17.	No waste generation during reporting year as no valid proposal for year 2016-17.	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.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
5b	Area under backfilling of mined out area	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
5d	Total area fully reclaimed and rehabilitated	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No valid proposal for reporting year i.e. 2016-17.	No specific comment as no proposal of backfilling and reclamation.	As plan period has already been lapsed.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6b	Area available for rehabilitation (ha) .	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6c	afforestation done (ha).	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6d	No. of saplings planted during the year	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6e	Cumulative no .of plants	No specific information.	NIL.	As plan period has already been lapsed.
6f	Any other method of rehabilitation	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6g	Cost incurred on watch and care during the year	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6p	Compliance of environmental monitoring (core zone and buffer zone)	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No valid proposal for reporting year i.e. 2016-17.	No specific comments as no valid PMCP proposal for 2016-17.	As plan period has already been lapsed.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
7c	Different grade of mineral sorted out at mines.	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
7d	Any beneficiation process at mines .	No valid proposal for reporting year i.e. 2016-17.	NIL.	As plan period has already been lapsed.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No valid proposal for reporting year i.e. 2016-17.	No specific comments on mineral conservation as no valid proposal for reporting year.	As plan period has already been lapsed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No valid proposal for reporting year i.e. 2016-17.	NIL.	
8b	Concurrent use or storage of topsoil	No valid proposal for reporting year i.e. 2016-17.	NIL.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No valid proposal for reporting year i.e. 2016-17.	NIL.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No valid proposal for reporting year i.e. 2016-17.	NIL.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No valid proposal for reporting year i.e. 2016-17.	NIL.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No valid proposal for reporting year i.e. 2016-17.	NIL.	
8g	Survival rate	No valid proposal for reporting year i.e. 2016-17.	NIL.	
8h	Water sprinkling on roads to control airborne dust	No valid proposal for reporting year i.e. 2016-17.	NIL.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No valid proposal for reporting year i.e. 2016-17.	Mine is not in operation since around 1978. The aesthetic beauty of the mine is good.	NIL.

Compliance of Rule 45:

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

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mining Engineer and Geologist has been furnished.	Found to be in order.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	An area around 667.28 Ha is put under different land use like pits, dumps, road, reclaimed, infrastructure etc.	The land use status furnished in the annual return 2016-17 is found to be in higher side due to not having recent survey.	NIL.
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 as no production.	NIL.	NIL.
9h	Scrutiny of Annual return on fixed assets	Fixed assest value mentioned is NIL.	Value of fixed assets is mentioned in account of Bolani Iron Ore Mine of M/s SAIL.	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 couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(DILIP JAIN)

Indian Bureau of Mines