

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR -15 (3)/ BB

Mine code : 30ORI13060

- (i) Name of the Inspecting : SRM) SHRI SUDIP RANJAN MAZUMDAR
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri A.K.Mishra, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 04/10/2019
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : TODA RF(25.981 HA)
- (b) Registration NO. : IBM/1120/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : ORISSA
District : SUNDARGARH
Village : *Kalta*
Taluka : *Koira*
Post office : *Kalta*
Pin Code : *770052*
FAX No. : 01124367015
E-mail : kimkalta@rediffmail.com
Phone : 06625234036
- (f) Police Station : Koira
- (g) First opening date : 16/01/1965
- (h) Weekly day of rest : SUN
2. Address for : M/S STEEL SUTHORITY OF INDIA
correspondance : Kalta Iron Ore Mine, M/s SAIL-RMD
Sundargarh, Odisha-770052
3. (a) Lease Number : ORI0159
- (b) Lease area : 25.981 *Ha*
- (c) Period of lease : 50
- (d) Date of Expiry : 16/01/2025
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : SAIL
 Kalta Iron Mines Post-
 Kalta, Sundargarh Odisha
 SUNDARGARH ORISSA
 Phone:06625-234036
 FAX :06625-234023

Owner : Shri Vivek Gupta
 M/s Sail, Ispat Bhawan Lodi
 Road New Delhi SUNDARGARH
 ORISSA
 Phone:
 FAX :

Agent : Shri Anand Kumar
 Kalta Iron Ore Mine, RMD-
 SAIL Post-Kalta Sundargarh
 SUNDARGARH ORISSA
 Phone: 947770234
 FAX : 06625234023

Mining Engineer

Name : A K Mishra, Full Time
 Qualification : B Tech in Mining Engg
 Appointment/ : 12/01/2019
 Termination date

Geologist

Name : PETER DANG, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 02/05/2016
 Termination date

Manager

Name : A K Mishra
 Qualification : B Tech in Mining Engg
 Appointment/ : 12/01/2019
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 30/08/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In 2017-18, 10 nos of boreholes were proposed to be drilled.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
1b	Exploration over lease area for geological axis 1 or 2	In 2018-19, 10 nos of boreholes have been proposed.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	Nil as no exploration have been carried out in 2018-19 as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Balance unexplored lease area is 5.2 Ha	Nil as no exploration have been carried out in 2018-19 as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
1e	Balance reserve as on 01/04/20	Reserve and resource as on 01.04.2019 are as follows: 1. Reserve under 122 category: 1729392 tonnes, (2) Resources under 222 category: 457521 tonnes	Reserve and resource as on 01.04.2019 are as follows: 1. Reserve under 122 category: 1729392 tonnes, (2) Resources under 222 category: 457521 tonnes	Reserve and resource as on 01.04.2019 are as follows: 1. Reserve under 122 category: 1729392 tonnes, (2) Resources under 222 category: 457521 tonnes

1f	General remarks of inspecting officers on geology, exploration etc	In 2018-19, 10 nos of boreholes have been proposed.	No exploration has been carried out in 2018-19 as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	No exploration has been carried out in 2018-19 as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In 2018-19, develeopment was proposed in Block -B	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Proposed	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
2c	Stripping ratio or ore to OB ratio	In 2018-19, stripping ratio was 1:0.02 (MT/m3)	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
2d	Quantity of topsoil generation in m3	In 2018-19, there was no proposal for top soil generation	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
2e	Quantity of overburden generation in m3	In 2018-19, 909 cum of overburden generation was proposed.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In 2018-19, development was proposed in Block-B	No development work has been carried out in 2018-19 as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	No development work has been carried out in 2018-19 as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In 2018-19, one number of pit was proposed for production.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3b	Quantity of ROM mineral production proposed	In 2018-19, 48996 tonnes of ROM was proposed.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3c	Recovery of sailable/usable mineral from ROM production	In 2018-19, recovery of saleable mineral from ROM proposed was 100%	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3d	Quantity of mineral reject generation	In 2018-19, mineral reject generation proposal was Nil	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

3e	Grade of mineral rejects generation and threshold value declared.	Threshold value of iron declared as 45% Fe. In 2018-19, there was no proposal for mineral rejects generation.	Nil	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3f	Quantity of sub grade mineral generation.	In 2018-19, subgrade mineral generation proposal was Nil	Nil	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3g	Grade of sub grade mineral generation	In 2018-19, there was no proposal for subgrade mineral generation.	Nil	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3h	Manual / Mechanised method adopted for segregating from ROM	Semi mechanised	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

3j	Provision of drilling and blasting in mineral benches	Drilling and blasting will be required for loosening of the rock mass for ease in excavation. Controlled blasting along with Shock tube initiation system/NONEL system of blasting will be adopted for getting optimum blast result and minimization of flying rocks.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3k	Provision of mining machineries in mineral benches	Yes	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of the individual benches shall be made and maintained at 6m.	Not maintained as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3m	Total area covered under excavation/pits	Area under mining at the end of plan period will be 6.91 Ha.	Area under mining is 6.91 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	In 2018-19, stripping ratio was 1:0.02 (MT/m ³)	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

3o	Total area put in use under different heads at the end of year	Total area under different heads at the end of plan period will be 9.628 Ha	Total area under different heads at the end of 2018-19 is 7.01 Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	ROM Production Proposal 1. 2016-17: 43437 MT 2. 2017-18: 49701 MT 3. 2018-19: 48996 MT	ROM Production Actual 1. 2016-17: Nil 2. 2017-18: Nil 3. 2018-19: Nil	No production carried out as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
3q	General remarks of inspecting officers on method of mining etc.	One pit was proposed for production with 48996 tonnes of ROM. No mineral reject proposed for production etc.	The proposal of exploitation in 2018-19 could not be carried out as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	The proposal of exploitation in 2018-19 could not be carried out as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There was no proposal for top soil and mineral reject generation. The OB dumping site is selected to the north western side of the existing quarry on BHD zone area	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

4b	Location of topsoil, OB and mineral reject dumps	There was no proposal for top soil and mineral reject generation. The OB dumping site is selected to the north western side of the existing quarry on BHJ zone area	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
4c	Number of dumps within lease area and outside of lease area	One OB dump has been proposed in the selected to the north western side of the existing quarry on BHJ zone area	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed OB dump outside the UPL	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
4e	Number of active and alive dumps.	One OB dump has been proposed in the selected to the north western side of the existing quarry on BHJ zone area	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
4f	Number of dead dumps.	Not Proposed	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall or garland drain not proposed	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
4j	Number of settling ponds	Not Proposed	Nil	Mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
4k	Specific comments of inspecting officer on waste dump management	There was no proposal for top soil and mineral reject generation. The OB dumping site is selected to the north western side of the existing quarry on BHJ zone area	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

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.	Not Proposed as the mineral has not been exhausted and mine is not matured for backfilling.	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
5b	Area under backfilling of mined out area	Not Proposed as the mineral has not been exhausted and mine is not matured for backfilling.	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There was no proposal for top soil generation.	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There was no proposal for backfilling as the mineral has not been exhausted and mine is not matured for backfilling.	Nil. The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on EMCF submitted on time and correctly. Rule 23 E(2).	As per rule 26 (2) of MCDR 2017, The holder of mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plan, and if there is any deviation, reasons thereof	Annual report on EMCF for 2018-19 has been submitted.	Annual report on EMCF for 2018-19 has been submitted.
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	Nil
6c	afforestation done (ha).	Not Proposed	Nil	Nil
6d	No. of saplings planted during the year	177 nos. saplings	300 nos of saplings	Nil
6e	Cumulative no .of plants	Not Proposed	550 no sof saplings	Nil
6f	Any other method of rehabilitation	Not Proposed	Nil	Nil

6g	Cost incurred on watch and care during the year	Not Proposed	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
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	Nil	Nil
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	Nil	Nil
6q	General remarks of inspecting officers on FMCF compliance and progressive closure operations etc.	As per rule 26 (2) of MCDR 2017, The holder of mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plan, and if there is any deviation, reasons thereof .	Annual report on FMCF has been submitted. The mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Annual report on FMCF has been submitted. The mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
7c	Different grade of mineral sorted out at mines.	+58% Fe	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.
7d	Any beneficiation process at mines	Not Proposed	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No Beneficiation proposed in mines	Nil. Also the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	Nil. Also the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.

8b	Concurrent use or storage of topsoil	Not Proposed	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB proposed	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation along safety zone : 177 nos. sapling	Number of saplings planted during the year was 300 nos.	Data as furnished in annual return for 2018-19
8g	Survival rate	Not Specified	Survival rate as furnished in annual return for 2018-19 was 85%.	Survival rate as furnished in annual return for 2018-19 was 85%.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling has been proposed	Nil as the mining operation are temporarily discontinued since 1988 due to want of statutory clearances.	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not specified	Natural aesthetic beauty in and around mines is maintained.	Natural aesthetic beauty in and around mines is maintained.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 (5) (b), a monthly return which shall be submitted before the tenth day of every month in respect of the preceding month... As per rule 45 (5) (c), an annual return which shall be submitted before the 1st day of July each year for the preceding financial year....	Annual return for 2018-19 has been submitted. Monthly returns for 2018-19 have not been submitted.	Violation has been issued for non-submission of monthly returns.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining engineer, Manager and Geologist has been furnished in Annual return.	Mining engineer, Manager and Geologist has been appointed.	Mining engineer, Manager and Geologist has been appointed.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area (surface area) utilisation as at the end of year (hectares): 1.Covered under current (O/C) Workings: 6.91 Ha 2. Occupied by plant, buildings, residential, welfare buildings & roads : 0.10 Ha	Lease area (surface area) utilisation as at the end of year (hectares): 1.Covered under current (O/C) Workings: 6.91 Ha 2. Occupied by plant, buildings, residential, welfare buildings & roads : 0.10 Ha	Nil
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year within lease area is 300 nos	Number of trees planted during the year within lease area is 300 nos	Data as furnished in annual return for 2018-19
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.

9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs) is Nil (in respect of the mine, mine, beneficiation plant, mine work-shop, power and water installation)	Value of Fixed Assets (in Rs) is Nil (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	The mining operation is temporarily discontinued since 1988 due to want of statutory clearances.

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
45(s)(b)	11/11/19		

Date :

Samajdar
(SHRI SUDIP KANJAN MAZUMDAR) 11/11/19

Indian Bureau of Mines