

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

MCDR INSPECTION REPORT

Kolkata regional office

Mine file No : KOL/JHK/SB(W)/Fe(N-9)

Mine code : 30BHR27024

- (i) Name of the Inspecting : **K004**) **B.P KERKETTA**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri Sanjit Kumar Adhya, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 30/10/2017
- (v) Prev.inspection date : 28/10/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NOAMUNDI**
- (b) **Registration NO.** : **IBM/4376/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : JHARKHAND
District : SINGHBHUM (WEST)
Village : NOAMUNDI
Taluka : NOAMUNDI
Post office : NOAMUNDI
Pin Code : 833217
FAX No. : 06596 233706
E-mail : noaoprn.grp@tatasteel.com
Phone : 06596 233746
- (f) Police Station : NOAMUNDI
- (g) First opening date : 01/06/1925
- (h) Weekly day of rest : SUN
2. Address for : PO:NOAMUNDI.
correspondance : DIST:WEST SINGHBHUM.
JHARKHAND.
3. (a) Lease Number : BHR0077
- (b) Lease area : 1160.36
- (c) Period of lease : 30
- (d) Date of Expiry : 31/12/2011
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : TATA STEEL LIMITED
 SINGHBHUM (EAST)
 JHARKHAND
 Phone:
 FAX :

Owner : T. V. NARENDRAN
 JAMSHEDPUR SINGHBHUM
 (WEST) JHARKHAND
 Phone: 0657-2145625
 FAX : 0657-2424098

Agent : R.P.MALI
 NOAMUNDI IRON MINE TATA
 STEEL LTD,P.O.NOAMUNDI
 DIST. SINGHBHUM
 WEST,JHARKHAND SINGHBHUM
 (WEST) JHARKHAND
 Phone: 9238003485
 FAX :

Geologist

Name : Dr.Indranil Saha,Full Time
 Qualification : Ph.D(App.Geology)
 Appointment/ : 15/05/2008
 Termination date

Manager

Name : SANJIT KUMAR ADHYA
 Qualification : B.TECH (MIN)
 Appointment/ : 07/01/2017
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	16/02/1992
		Mining Scheme rule 12 MCDR1988	09/09/1996
		Mining Scheme rule 12 MCDR1988	09/11/2001
		Modif.approved Mining Scheme	08/06/2004
		PMCP under 23B(2) for MS	28/01/2006
		Mining Scheme rule 12 MCDR1988	13/10/2006
		Mining Scheme rule 12 MCDR1988	28/01/2011
		Renewal under rule 24 MCR1960	31/01/2011
		Modif.of approved Mining Plan	31/03/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	39	nil	Due to Lack of Forest Clearance
1b	Exploration over lease area for geological axis 1 or 2	150 ha	Nil	Forest area; Applied for exploration in forest area
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	166 ha	Nil	Potential Mineralised area
1e	Balance reserve as on 01/04/20		126.79 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc		Mining is carried out as per approved Modified Mining Plan as far as possible .	But exploration could not be done due to Lack of Forest Clearance.39 Boreholes could not be drilled.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Hill 3&4, Hill 5&6, Western Pit	Hill 3&4, Hill 5&6	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	In Ore -18 In OB-14	In ORE -17 In OB - 14	
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.09	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	560800	610373	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

Mining is carried out as per approved Modified Mining Plan .

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3	2	
3b	Quantity of ROM mineral production proposed	10 million tonne	6.2 Million tonnes	
3c	Recovery of sailable/usable mineral from ROM production	88%	91%	
3d	Quantity of mineral reject generation	0.75 million	0.636Million tonnes	
3e	Grade of mineral rejects generation and threshold value declared.		Fe = 51.69% Fe = 58%	
3f	Quantity of sub grade mineral generation.	0.75 million tonnes	0.636 Million tonnes	
3g	Grade of sub grade mineral generation	Fe - 45%-	Fe = 51.69%	
3h	Manual / Mechanised method adopted for segregating from ROM		Fully Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.		22611tonnes of subgrade quantity was processed	
3j	Provision of drilling and blasting in mineral benches		Deep Hole Blasting	

3k	Provision of mining machineries in mineral benches		Fully Mechanized
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 12 m were proposed	As per Mining scheme
3m	Total area covered under excavation/pits	610.80	447.1
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.09
3o	Total area put in use under different heads at the end of year		Covered under current (O/C) Workings : 447.100 ha Used for waste disposal: 82.34 ha Occupied by plant, buildings, residential, welfare buildings & roads : 191.680 ha Used for any other purpose (specify) Green belt: 8.14 ha
3p	Production of ROM mineral during the last five year period as applicable	2012-13 : 10000000 M T 2013-14: 10000000 M T 2014-15: 10000000 M T 2015-16: 10000000 M T 2016-17: 10000000 M T	2012-13 : 4747615 MT 2013-14: 5372929.49 MT 2014-15: 3953832 MT 2015-16: 4742321 MT 2016-17: 6200368 MT
3q	General remarks of inspecting officers on method of mining etc.		Mining is carried out as per approved Modified Mining Plan

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Dump Width (Bottom terrace) in m Height SUBGRADE DUMP -1 210 70 m in 4 terraces SUBGRADE DUMP -2 124 30 m in 2 terraces Waste dump 1 370 60m in 4 terraces Waste dump 2 140 30m in 2 terraces	Dump Width (Bottom terrace) in m Height SUBGRADE DUMP -1 210 70 m in 4 terraces SUBGRADE DUMP -2 124 30 m in 2 terraces Waste dump 1 370 60m in 4 terraces Waste dump 2 140 30m in 2 terraces	
4c	Number of dumps within lease area and outside of lease area	4	2	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)			Safe distance between dump and Pit , Complied the provisions of Rule 16
4e	Number of active and alive dumps.	4	3	
4f	Number of dead dumps.		NIL	
4g	Number of dumps established.		NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.		YES	
4i	Length of Retaining wall or garland drain all along dumps	1025 970	1500 550	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management			Mining is carried out as per approved Modified Mining Plan

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.	Excavation going on	Excavation going on	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mining is carried out as per approved Modified Mining Plan	

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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.5ha	1.95 Ha	
6d	No. of saplings planted during the year	3750	9915	
6e	Cumulative no .of plants		1951631	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	2,25,000	9,40,140	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Yes Nil	Yes Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Yes Nil	Yes Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mining is carried out as per approved Modified Mining

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal as per scheme	5948814 tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	As per scheme	Yes	
7d	Any beneficiation process at mines	YES	YES	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	As and when	Not Generated	

8b	Concurrent use or storage of topsoil	As and when	Not Generated
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No	No
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No	No
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	As per proposal	1961929
8g	Survival rate	83.5%	83.5%
8h	Water sprinkling on roads to control airborne dust	Mobile water sprinkler	Mobile water sprinkler
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Mining is carried out as per approved Modified Mining Plan

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly and Annual returns submitted in Form F1 & H1 respectively	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Sanjit Kr. Adhya, Mining Engineer & Geologist, Dr. Indranil Saha, MSc(Geo) w.e.f. 15/05/2008.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the Annual Return.
9d	Scrutiny of Annual return on afforestation	Given in the Annual Return. 9915 nos of saplings planted within the lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the Annual Return
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Found Correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Found Correct.
9h	Scrutiny of Annual return on fixed assets	Found Correct.
9k	Scrutiny of Annual return on mining machineries	Found Correct.

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 11(1)	05/12/2017			
MCDR17	Rule 33	05/12/2017		16/03/2018	

Date :

(B.P KERKETTA)

Indian Bureau of Mines