

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-9/BBS

Mine code : 30ORI13019

- (i) Name of the Inspecting : **CHHA**) **SHRI L H CHHANGTE**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri Kailash Kumar Pradhan , Mines Manager
Official with
Designation
- (iv) Date of Inspection : 05/06/2015
- (v) Prev.inspection date : 29/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAIKELA**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : RAIKELA
- Taluka : BONAI
- Post office : DENGULA
- Pin Code :
- FAX No. : 06767-275631
- E-mail :
- Phone : 06767-275321
- (f) Police Station :
- (g) First opening date : 21/12/1983
- (h) Weekly day of rest : SAT
2. Address for : VILL. RAIKELA, PO. DENGULA
correspondance VIA. KOIRA, DIST. SUNDARGARH
ORISSA, PIN-770048
3. (a) Lease Number : ORI0136
- (b) Lease area : 45.93
- (c) Period of lease : 20
- (d) Date of Expiry : 20/12/2023
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S NATIONAL ENTERPRISES
 PO.BOX 44 BARBIL- 758035
 KEONJHAR ORISSA
 Phone:75321
 FAX :75631

Owner : NATIONAL ENTERPRISES
 PO BOX :44 BARBIL KEONJHAR
 ORISSA
 Phone: 06767-75321
 FAX : 06767-75631

Mining Engineer

Name : NEERAJ KUMAR,Full Time
 Qualification :
 Appointment/ : 16/12/2002
 Termination date

Mining Engineer

Name : U.K.BEHURA,Full Time
 Qualification : 1st CLASS MINE MANAGERS CERTIFICATE HOLD
 Appointment/ : 08/06/2001
 Termination date

Manager

Name : P.N. NAYAK
 Qualification : PERMIT MANAGER
 Appointment/ : 08/06/2001
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	26/05/2005
Plan/Scheme of Mining		Modif.of approved Mining Plan	15/02/2008
		Mining Scheme rule 12 MCDR1988	04/01/2010
		Mining Scheme rule 12 MCDR1988	12/04/2013
		Modif.approved Mining Scheme	02/06/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	20 bore holes	Drilled 15 bore holes	
1b	Exploration over lease area for geological axis 1 or 2	Given	25 ha only covered under G1 & 2	
1e	Balance reserve as on 01/04/20	Given	Same as estimated at 2273654 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration has been satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	3 pits all over the ML	Developed as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Separate benches for OB and Ores	
2c	Stripping ratio or ore to OB ratio	1:0.29	Actual was 1; 0.23	
2d	Quantity of topsoil generation in m3	NIL	No top soil here	
2e	Quantity of overburden generation in m3	49977 MT	Actual OB/ Wastes generated was 16333 MT only	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development is found to be satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3 pits	Developed 3 pits as well	
3b	Quantity of ROM mineral production proposed	499770 MT	Actual aslo 499700 MT for the year 2014-15	
3c	Recovery of sailable/usable mineral from ROM production	85%	Actual reecoverly from ROM was 83%	
3f	Quantity of sub grade mineral generation.	49977 MT	Actual was 16333 MT	
3h	Manual / Mechanised method adopted for segregating from ROM	Both manual and mechanised	Mostly mechanised	
3j	Provision of drilling and blasting in mineral benches	Yes	Controlled blasting	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Given	6 m high and 12-15 m wide benches developed	
3m	Total area covered under excavation/pits	Given	18 ha	
3o	Total area put in use under different heads at the end of year	Given	Pits- 18 ha, Dump- 0.85 ha, Stackings - 0.50 ha, Roads- 0.45 ha	
3q	General remarks of inspecting officers on method of mining etc.			No problem under this asapect

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	Seperate dumping for OB and Fines etc	
4b	Location of topsoil, OB and mineral reject dumps	1 dump	Developed also 1 dump as proposed	
4f	Number of dead dumps.	NIL	Only 1 active dump	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Dump is retained properly	
4k	Specific comments of inspecting officer on waste dump management			No problem with dump management

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5b	Area under backfilling of mined out area	NIL	No area matured for the same	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes , proposed	No concrete work started	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The is no matured area for the same

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).	Given	Submitted	
6e	Cumulative no .of plants	Proposals given	Actual plantation till date was 32750 plants in 9.3 ha within the ML with survival rate of 50% and another 6000 plants in 2.5 ha outside ML with a survival rate of 63%	
6f	Any other method of rehabilitation	NIL	No other method of reclamation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Routine	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP has been followed as far as practicable

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual and Mechanical	Mostly mechanical	
7d	Any beneficiation process at mines .	Yes	Dry screening as well as mobile screens also provided	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No problem with mineral conservation
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Seperate dumps for Ob, Fines etc	
8h	Water sprinkling on roads to control airborne dust	Yes	Water tanker sprinkling	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty of the area has not been adversely affected

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Submitted regularly to IBM	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Statutory employment has been made	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in details	Production for the year 2014-15 was 499700 MT, Closing stock at 830127.779MT	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Cost of production was Rs 2600 per Mt and PMV quoted as Rs 3500 per MT
9h	Scrutiny of Annual return on fixed assets	Given	Assets estimated at Rs 121170416

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 L H CHHANGTE)

Indian Bureau of Mines