

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-MN/SNG/MCDR-4/BBS

Mine code : 30ORI13032

- (i) Name of the Inspecting : **CHHA**) **SHRI L H CHHANGTE**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri Santosh Kumar Sahoo , GM (Mines)
Official with
Designation
- (iv) Date of Inspection : 11/10/2015
- (v) Prev.inspection date : 07/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GONUA**
- (b) **Registration NO.** : **IBM / 4340 /2011**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : GONUA
- Taluka : BONAI
- Post office : PATABERA
- Pin Code :
- FAX No. : 06767 -270049
- E-mail : kjsahluwalia@rediffmail.cor
- Phone : 06767- 270048
- (f) Police Station : KOIRA
- (g) First opening date : 15/03/1999
- (h) Weekly day of rest : SUN
2. Address for : GONUA IRON & MN MINE, M/S P.K.AHLUWALIA
correspondance P.O.PATABERA, DIST:SUNDERGARH
ORISSA-770048
3. (a) Lease Number : ORI0689
- (b) Lease area : 86.89
- (c) Period of lease : 20
- (d) Date of Expiry : 04/10/2010
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : P.K.AHLUWALIA
 SUNDARGARH ORISSA
 Phone:
 FAX :

Owner : P.K.AHLUWALIA
 P.K.AHLUWALIA, MINE OWNER
 P.B.NO.3, POST:BARBIL
 KEONJHAR ORISSA
 Phone:
 FAX :

Mining Engineer

Name : S.D.TRIPATHY, Full Time
 Qualification :
 Appointment/ :
 Termination date

Mining Engineer

Name : S.C.MONDAL, Full Time
 Qualification : B TECH MINING
 Appointment/ : 01/08/2003
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	26/04/2005
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	19/09/2005
		Mining Scheme rule 12 MCDR1988	25/07/2007
		Renewal under rule 24 MCR1960	24/06/2010
		Modif.of approved Mining Plan	01/11/2010
		Mining Scheme rule 12 MCDR1988	25/04/2013
		Mining Scheme rule 12 MCDR1988	31/07/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 bore holes	NIL	FC not available
1b	Exploration over lease area for geological axis 1 or 2	55.00 ha	35 ha under G 1 & 2	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Details not available at the time of inspection	
1d	Balance area to be explored to bring Geological axis in 1 or 2	51.882 ha	None	
1e	Balance reserve as on 01/04/20	Details given	Same as estimated at 15,729,398 MT (111,121 & 122)	
1f	General remarks of inspecting officers on geology, exploration etc			Lagging in exploration mainly due to FC

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2 places , 1 in North and another in South Block	Only one pit developed in North Block	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Seperate benches in OB and Ore maintained	
2c	Stripping ratio or ore to OB ratio	1:0.081	Not calculated as there has been work during the last one year	
2d	Quantity of topsoil generation in m3	NIL	No top soil here	

2e	Quantity of overburden generation in m3	15000 CuM during 2014-15	8550 CuM . Cummulative so far as on date was 21,2883 CuM	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The deposit has been developed in a scientific manner

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits	Only 1 pit developed in North block	South block has not been developed as proposed mainly due to non availability of FC
3b	Quantity of ROM mineral production proposed	1,200,000 MT	NIL	No work during the reporting year
3c	Recovery of sailable/usable mineral from ROM production	100%	Usually 85-90% of ROM recovered	
3e	Grade of mineral rejects generation and threshold value declared.	- 45 % Fe as the Threshold value was fixed at 45% Fe	Prcatically no reject as the ROM is all above + 45% Fe	
3h	Manual / Mechanised method adopted for segregating from ROM	Both manual and Mechanical	mostly mechanical	
3j	Provision of drilling and blasting in mineral benches	Yes	Controlled blasting in vogue	
3k	Provision of mining machineries in mineral benches	Yes	Requisite machineries have been deployed in benches	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m high, 12-15 m wide benches proposed	Benches developed as proposed
3m	Total area covered under excavation/pits	45 Ha	39.595 ha
3o	Total area put in use under different heads at the end of year	Specifics given in their MP	Actual land use pattern was : Pits - 39.595 ha, Dumps- 6.430 ha, Roads- 0.704 ha, Buildings - 0.090 ha Others - 0.320 ha
3q	General remarks of inspecting officers on method of mining etc.		Mining method adopted here is found to be the most suitable one

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	OB and Rejects dumps seperately	
4b	Location of topsoil, OB and mineral reject dumps	Near the Northern end of the ML	Developed as proposed	
4c	Number of dumps within lease area and outside of lease area	2 dumps	1 Active and the other dead dump	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Active dump is strongly retained whereas the old / dead dump have been naturally afforested	

4i	Length of Retaining wall or garland drain all along dumps	1000 m	Actually a retaining wall of 655 m approx have been erected along the base of the active dump in the Northern Block of the ML	
4k	Specific comments of inspecting officer on waste dump management			No problem with solid waste management here

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.	Non specified	None as there has been no matured land	
5b	Area under backfilling of mined out area	NIL	None	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	In parctice when ever possible	
5d	Total area fully reclaimed and rehabilitated	NIL	NONE	No matured land for the same
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No concrete work in this aspect so far

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).	Yes	Submitted on a regular basis	
6e	Cumulative no .of plants	50,000 plants within ML and another 25000 plants outside ML	Actual was 24650 plants covering an area of 3.981 ha within the ML and another 10950 plants outside ML covering an area of 2.556 with survival rate of 57% only	
6f	Any other method of rehabilitation	Non specified	An old / abandoned dump has been rehabilitated by way of natural forest growth	
6g	Cost incurred on watch and care during the year	Non specified	Details not made available during the inspection	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Specified	Routine monitoring of various environmental parameters carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			All the provisions made in the PMCP have been complied with satisfactorily

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Specified	Most of the ROM despatched have been + 58% Fe	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Both manual and mechanised	Mostly mechanised. Mobile screening is also in vogue	

7d	Any beneficiation process at mines .	Yes	Dry process of beneficiation	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No problem with mineral conservation here

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Practically no top soil here	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Seperate dumps for Ob and fines	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Phase reclamation as far as practicable	
8h	Water sprinkling on roads to control airborne dust	Yes	Water tanker sprinkling in haul roads	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty of the area has not been duly affected by this mining

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Submitted regularly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	All the statutory employment have ben made	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	land use have been made judiciously as proposed in their MP	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Closing stock for the year was 93877.850 MT	
9h	Scrutiny of Annual return on fixed assets	Scrutinised	The lessee has made adequate investment for the type and extent of mining that has ben carried on in this mine	

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