

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-49/BBS

Mine code : 30ORI08071

- (i) Name of the Inspecting : **CHHA**) **SHRI L H CHHANGTE**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri P.K. Mohanty, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 25/01/2016
- (v) Prev.inspection date : 28/07/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ROIDA (185 AC)**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : TONTO (TANTRA)
- Taluka : CHAMPUA
- Post office : BHADRASAHI
- Pin Code : 758035
- FAX No. :
- E-mail :
- Phone : 06767-275225
- (f) Police Station :
- (g) First opening date : 22/04/1958
- (h) Weekly day of rest : SUN
2. Address for : ROIDA IRON MINE (185AC) OF K.N.RAM
correspondance AT-TROANTO
PO-BHADRSAHI, DIST-KEONJHAR
3. (a) Lease Number : ORI0069
- (b) Lease area : 74.86
- (c) Period of lease : 30
- (d) Date of Expiry : 02/09/1987
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : K.N.RAM&CO
 AT/PO-GUA DIST-SINGHBHUM
 WEST JHARKHAND SINGHBHUM
 (WEST) JHARKHAND
 Phone:
 FAX :

Owner : K.N.RAM
 AT/PO-GUA SINGHBHUM (W)
 JHARKHAND SINGHBHUM (WEST)
 JHARKHAND
 Phone:
 FAX :

Mining Engineer

Name : MD. MUSTAFA, Part Time
 Qualification : A.I.S.M (MINES)
 Appointment/ : 01/09/1979
 Termination date

Mining Engineer

Name : B.BEHERA, Full Time
 Qualification : DEPLOMA IN MINING& HAVING FOREMEN CERTI
 Appointment/ : 16/04/2004
 Termination date

Mining Engineer

Name : P.B.LAL, Full Time
 Qualification : AMIE MINING ENGG
 Appointment/ : 12/11/2002
 Termination date

Mining Engineer

Name : G.C.DAS, Full Time
 Qualification : DIPLOMA MINING
 Appointment/ : 01/01/2001
 Termination date

Mining Engineer

Name : G.S.BEHERA, Full Time
 Qualification : BE MINING
 Appointment/ : 01/12/2003
 Termination date

6. Date of approval of Mining	:	Modif.approved Mining Scheme	24/02/2004
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	26/07/2005
		Renewal under rule 24 MCR1960	31/01/2008
		Mining Scheme rule 12 MCDR1988	28/03/2012
		Modif.approved Mining Scheme	25/06/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	9 core holes	2 holes only drilled	
1b	Exploration over lease area for geological axis 1 or 2	45 ha	42.75 ha only	
1e	Balance reserve as on 01/04/20	Given in their MP	41.132 MMT	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration needs to be sped up

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	At the central part of the ML	Developed as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Separate benches in OB and Ores	
2c	Stripping ratio or ore to OB ratio	1: 1.03	Actual was 1:0.17	
2d	Quantity of topsoil generation in m3	NIL	None No top soil here	
2e	Quantity of overburden generation in m3	150000 CuM	Actual OB removed was 50330 CuM	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development is satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits	2 Pits namely Quarry-2 and Quarry-6 developed	
3c	Recovery of sailable/usable mineral from ROM production	80%	75%	
3f	Quantity of sub grade mineral generation.	During the year 2013-14 , 148571 MT	NIL	All sub grade materials have ben blended
3h	Manual / Mechanised method adopted for segregating from ROM	Both Manual and Mechanical	Manual and Mechanical as well	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Yes	Routinely analysed	
3j	Provision of drilling and blasting in mineral benches	Yes	Controlled blasting	
3k	Provision of mining machineries in mineral benches	Yes	Machineries have bben deployed in benches	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench dimensions sopecified	6 m high , 8-10 m wide benches in vogue	
3m	Total area covered under excavation/pits	40.0 ha	Actual area covered by Pits (2 nos) was 34.481 ha	
3o	Total area put in use under different heads at the end of year	Specifics given	Land use pattern as : Pits- 34.481 ha, Dumps- 6.921 ha, Stackings- 5.464 Ha, Buildings - 0.884 ha, Roads - 2.393 ha, Others - 15.826 ha, Green belt- 8.588 ha	

3q	General remarks of inspecting officers on method of mining etc.	The deposit has been scientifically exploited
----	---	---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Seperate dumping for OB , Fines etc	
4c	Number of dumps within lease area and outside of lease area	2 dumps	Within the ML area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Yes	The 2 dumps are well within the UPL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	The 2 dumps have been retained properly	
4i	Length of Retaining wall or garland drain all along dumps	Given	Approximate total lenth of the retaining wasll is 875 metre	
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
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NIL	No area has been matured for the same	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	The same has not been started yet	
5d	Total area fully reclaimed and rehabilitated	NIL	NO	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Back filling is yet to start in this mine

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	PMCP submitted	
6e	Cumulative no .of plants	75000 plants	Actual was 53850 plants covering 10.1 ha with survival rate of 70% within the ML and another 1890 plants covering an area of 7.2 ha outside the ML with a survival rate of 59%	
6f	Any other method of rehabilitation	NIL	No other method	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Routine monitoring of environmental parameters	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			All provisions of PMCP have been complied with

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mnaual and Mechanical	Mostly manual	
7c	Different grade of mineral sorted out at mines.	Given	All typoses of grades	
7d	Any beneficiation process at mines	NIL	No other than manual sorting	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No problem with conservation

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	No top soil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	Phase reclamation is yet to be in parctice in this mine	
8h	Water sprinkling on roads to control airborne dust	Yes	Dust supression by way of water tanker sprinkling of roads	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The aesthetic beauty of the area has not been unduly 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	A/R and M/R are submitted to ibm regularly	
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	production for the year 2015-16 was 1499594.490 MT with Closing stock of 657635.378 MT Lumps and 468842.420 MT Fines	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Cost of production was Rs 821.24 per MT PMV was Rs 3148 per MT (Lumps 62-65%Fe) , Rs 1402 per MT (Fines 62-65% Fe)	
9h	Scrutiny of Annual return on fixed assets	Given	Valued at Rs 153454271.40	

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