

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-22/BBS-5/2K

Mine code : 30ORI08028

- (i) Name of the Inspecting : **CHHA**) **SHRI L H CHHANGTE**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri Abhijit Sen, AVP (Geology)
Official with
Designation
- (iv) Date of Inspection : 08/03/2015
- (v) Prev.inspection date : 28/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAJANG**
- (b) **Registration NO.** :
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **ORISSA**
- District : **KEONJHAR**
- Village : **JAJANG**
- Taluka : **CHAMPUA**
- Post office : **JAJANG**
- Pin Code : **758052**
- FAX No. : **91-6582-56442**
- E-mail : **rungtas@satyam.net.in**
- Phone : **06582-56861,56761**
- (f) **Police Station** :
- (g) **First opening date** : **13/02/1957**
- (h) **Weekly day of rest** : **TUE**
2. **Address for** : **VILL& PO: JAJANG**
correspondance **POLICE STATION : JODA**
DIST: KEONJHAR, ORISSA, PIN: 758052
3. (a) **Lease Number** : **ORI0091**
- (b) **Lease area** : **666.15**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **12/02/2017**
4. **Mineral worked** : **MANGANESE ORE** **Associated**
IRON ORE **Main**

5. Name and Address of the

Lessee : Rungta Mines Ltd
Rungta House P.O.Chaibasa
SINGHBHUM (WEST) JHARKHAND
Phone:06582-56461,56561,56661,56761
FAX :91-6582-56442

Owner : M/S Rungta Mines Ltd
M/S Rungta Mines Ltd Rungta
House At P.O.Chaibasa
SINGHBHUM (WEST) JHARKHAND
Phone: 06582- 56461,56
FAX : 91- 6582 - 5644

Agent : Sri D.R.Ojha
M/S Rungta Mines Ltd Rungta
House P.O.Chaibasa
SINGHBHUM (WEST) JHARKHAND
Phone: 06596-62321,62221
FAX :

Mining Engineer

Name : SHRI RAM RAJ YADAV, Full Time
Qualification : A.M.I.E (IN 1989)
Appointment/ : 25/07/2008
Termination date

Geologist

Name : D.K.MOHANTA, Full Time
Qualification : MSC GEOLOGY
Appointment/ : 22/10/2003
Termination date

Geologist

Name : S.SEKHAR, Full Time
Qualification : MSC GEOLOGY
Appointment/ : 21/08/2002
Termination date

Manager

Name : A.C.BISWAL
Qualification : A.M.I.E(MINING)
Appointment/ : 01/09/2001
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	29/05/2003
	:	Modif.approved Mining Scheme	06/04/2005
	:	Mining Scheme rule 12 MCDR1988	07/03/2008
	:	Modif.approved Mining Scheme	08/05/2009
	:	Mining Scheme rule 12 MCDR1988	27/03/2012
	:	Modif.approved Mining Scheme	24/07/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	11 bore holes proposed for 2013-14	15 bore holes actually drilled during the period	
1b	Exploration over lease area for geological axis 1 or 2	400.00 ha	372.35 ha explored under G 1 & 2 out of the total ML area of 666.15 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Non specified	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	None		306 ha area of the total ML area (666.15 ha) to be brought under G1 & 2
1e	Balance reserve as on 01/04/20	76.096 MMT of 111,121,122	Same as proposed	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1 pit each in Block B & C	Opened the area as proposed	
2c	Stripping ratio or ore to OB ratio	1 : 0.15	1;0.18	
2e	Quantity of overburden generation in m3 CuM	During 2013-14, 820224.34 CuM	Actual generation was to the tune of 988090.60 CuM	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development was found to be scientific and recommendable with regard to type , nature and extent of the deposit

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3a	Number of pit proposed for production	2 pits , 1 each in Block B and C		
3b	Quantity of ROM mineral production proposed	9.67 MMT during 2013-14	Actual was 5.48 MMT only	Under production due to poor market demand
3c	Recovery of sailable/usable mineral from ROM production	100%	Actual recovery from 95-97%	
3d	Quantity of mineral reject generation	NIL	NIL	No sub grade from ROM
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical method of segregation in vogue	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Non specified	Carried out as and when need base	
3j	Provision of drilling and blasting in mineral benches	Yes	Controlled blasting in vogue	
3k	Provision of mining machineries in mineral benches	Yes	All necessary mining machineries are being deployed even in the benches	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench dimensions specified	Bench height in OB and Ore was 6-9m and Width from 12-20m found to be suitable and scientific enough for the development of the deposit	
3m	Total area covered under excavation/pits	48 ha	Actual 46 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1 :0.18	Actual turned out to be 1: 0.15	

3o	Total area put in use under different heads at the end of year	Secifics made in MP	Pits- 229.522 ha, Reclaimed fully- 5.567 ha, Dumping- 44.081 ha, Plants- 44.100 ha, Green belt with stackings - 54.318 ha	
3q	General remarks of inspecting officers on method of mining etc.			No unwanted exploitation observed

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, Rejects	
4b	Location of topsoil, OB and mineral reject dumps	4 dumps , 2 each in Block B & C	Dumps ahve been developed as proposed	
4c	Number of dumps within lease area and outside of lease area	NIL	None	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Yes	All dumps within the ML	
4e	Number of active and alive dumps.	2 active dumps and 2 dead dumps	2 dead dumps have been converted to Sub grade dumps now due to change in thresghold value from 55% to 45% Fe	
4h	Whether Retaining wall or garland drain all along dumps are there.	Specifics proposal made	A total of 1800 m long retaining walls have been constructed all around the base of the 4 dumps	
4k	Specific comments of inspecting officer on waste dump management			No problem with waste management here in this mine

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	None	
5b	Area under backfilling of mined out area	30.123 ha	Only 29.367 ha partially reeclaimed as of now	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	Practically NO top soil genrated here	
5d	Total area fully reclaimed and rehabilitated	None	NIL	No matured land available here
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Partial reclamation has been carried out here

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	Submitted on a regular basis	
6c	afforestation done (ha).	65 ha	Actual 63.941 ha	
6e	Cumulative no .of plants	350000	Actual 3,32,804 saplings	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	7.5 ha	5.565 ha only reclaimed by afforestation of the partially bakc filled area	

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Regular monitoring of various environmental parameters carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP provisions have been complied with satisfactorily

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Specifics given in MP	For 2013-14, 987713.490 MT of Lumps and 3420864.25 MT of Fines of 58-65% Fe grade were despatched	
7d	Any beneficiation process at mines	Mechanical dry process proposed	Beneficiation carried out as proposed	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top soil generated here
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	There are seperate dumps for Ob/ Wastes and fines	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Phased reclamation has been carried out as per proposal in their MP	
8g	Survival rate	85%	Actual survival rate was 80% within and outside the ML	
8h	Water sprinkling on roads to control airborne dust	Proposed	Both vehicular and fixed method of water sprinkling of haul roads in vogue here	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty of the area has not been adversely affected by this mining

Compliance of Rule 45:

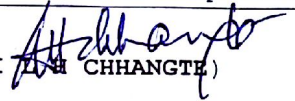
Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M/R and A/R submitted regularly	Submitted on a regular basis	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Proposal given in their MP	All statutory employment has been made in this mine	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Proposal given in their MP	Land use pattern found to follow proposal	
9d	Scrutiny of Annual return on afforestation	Scrutinised	Satisfactory compliance	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject	NIL, recovery is almost 100% from the ROM
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Scrutinised	Latest stock position : 14379.250 MT (Lumps) and 2103442.959 MT (Fines)
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	PMV scrutinised	Calculated as Rs 973.56 per MT for Lumps (55-58% Fe), rs 5246.03 per MT for Lumps (62-65% Fe) and Fines (62-65%Fe) at Rs 1703.02 per MT
9h	Scrutiny of Annual return on fixed assets	Scrutinised	Found reasonably equipped
9k	Scrutiny of Annual return on mining machineries	Scrutinised	Found that adequate machineried for the extent of development has been procured and deployed in this mine

Details of violations observed during current inspection and compliance position of violation pointed out

Rule NO.	Violation observed	Issued on	Compliance on	Rule NO.	Show couse position	Issued on	Compliance on
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Date : 24/1/202


(SHRI L. M. CHHANGTE)

Indian Bureau of Mines