

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-25/BBS

Mine code : 30ORI08030

- (i) Name of the Inspecting : **CHHA**) **SHRI L H CHHANGTE**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri S.R. Behera , Mines Manager
Official with
Designation
- (iv) Date of Inspection : 07/06/2015
- (v) Prev.inspection date : 17/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JORURI (335 AC)**
- (b) **Registration NO.** :
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KEONJHAR
Village : JORURI
Taluka : BARBIL
Post office : JAJANG
Pin Code : 758052
FAX No. :
E-mail :
Phone : 279206
- (f) Police Station :
- (g) First opening date : 15/06/1957
- (h) Weekly day of rest : TUE
2. Address for : JORURI IRON MINE M/S KMC
correspondance P.O.JAJANG, DIST:KEONJHAR
ORISSA-758052
3. (a) Lease Number : ORI0064
(b) Lease area : 135.57
(c) Period of lease : 20
(d) Date of Expiry : 10/04/1997
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : KALINGA MINING CORPORATION
 P.O.JAJANG KEONJHAR
 ORISSA
 Phone:79206
 FAX :

Owner : M/S.Kalinga Mining Corporation
 po.Jajang KEONJHAR ORISSA
 Phone: 06767- 79206
 FAX :

Agent : Sri.T.Pal
 C/O KALINGA MINING CORP
 P.O.JAJANG KEONJHAR ORISSA
 Phone: 79206
 FAX :

Mining Engineer
 Name : T.C.MAHANTA,Full Time
 Qualification : DIPLOMA MINING,I ST CLASS MANAGER CERTIF
 Appointment/ : 16/12/2002
 Termination date

Mining Engineer
 Name : B.N.PATI,Full Time
 Qualification : DIPLOMA IN MINING WITH 2ND CLASS CERT. F
 Appointment/ :
 Termination date

Geologist
 Name : Dr. MITHILESH SINGH,Full Time
 Qualification : M.Sc (geology)
 Appointment/ : 01/01/2002
 Termination date

Manager
 Name : P.K.NANDA
 Qualification : B.E.(MINING)
 Appointment/ :
 Termination date

Manager
 Name : D.C.KALIA
 Qualification : Diploma in Mining
 Appointment/ : 09/02/2004
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	05/07/2005
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	25/03/2009
	:	Modif.approved Mining Scheme	07/04/2011
	:	Mining Scheme rule 12 MCDR1988	26/04/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 bore holes	NIL	FC not available
1b	Exploration over lease area for geological axis 1 or 2	49 ha	43 ha covered under G 1 & 2 till date	
1e	Balance reserve as on 01/04/20	15208819 MT	Same as estimated	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration has been lagging due to non availability of FC

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	3 pits	3 pits scattered all over the ML area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	seperate benches developed in OB and Ores	
2c	Stripping ratio or ore to OB ratio	1:0.20	Actual was 1:0.07	
2d	Quantity of topsoil generation in m3	NIL	NO top soil	
2e	Quantity of overburden generation in m3	110500 CuM for 2014-15	Actual was 110000 CuM	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			DEvelopment has been found to be satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3 nos	Out Of 3 pits 2 are working namely Top Pit and Tata Pit	
3b	Quantity of ROM mineral production proposed	2267951 MT for the year 2013-14	Actual ROM production was 1473795 MT	
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	
3d	Quantity of mineral reject generation	294958 MT	NIL	
3f	Quantity of sub grade mineral generation.	509118 MT	312075 MT	
3h	Manual / Mechanised method adopted for segregating from ROM	Both manual and mechanical	Both the method are in vogue	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Yes	Routine analysis carried out	
3j	Provision of drilling and blasting in mineral benches	Yes	Controlled blasting in benches	
3k	Provision of mining machineries in mineral benches	Yes	All types of machineries have been deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m high, 12 m wide benches	Developed benches as proposed	
3m	Total area covered under excavation/pits	35 ha	31.103 ha	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.07	1:0.07	
3o	Total area put in use under different heads at the end of year	Details given	Actual was ; Pits- 31.103 ha, Dump- 0.335 ha , Road- 1.669 ha, Plants- 0.804 ha, Stacks- 7.157 ha	
3q	General remarks of inspecting officers on method of mining etc.			Exploitation is satisfactory

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 and Fines	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Yes	Dumps are well outside UPL	
4e	Number of active and alive dumps.	3 dumps	2 Active and 1 Dead dump	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	The 2 active dumps have been retained properly wheras the Dead dump have been stabilised by plantation	
4k	Specific comments of inspecting officer on waste dump management			There is no problem of wste dump management here

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	2.5 ha	Actually 1.2 ha has been fully reclaimed	
5b	Area under backfilling of mined out area	Yes	1.2 ha back filled	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	In practice where ever possible	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Bakc filling has already started in the old pit , Village pit

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	regularly submitted to IBM	
6e	Cumulative no .of plants	20,0000 Plants	Actual was 162632 plants covering an area of 13.982 ha with a survival rate of 57%	
6f	Any other method of rehabilitation	Nil	None except by way of natural growth of plants	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Routine monitoring of environmental parameters done	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	All provisions of PMCP have been satisfactorily complied with
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Both manual and mechanical	Both in practice	
7d	Any beneficiation process at mines .	Nil	None	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No problem with mineral conservation

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	No top soil here	
8b	Concurrent use or storage of topsoil	Yes	In vogue when ever possible	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Seperate dumps for Ob , fines	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Already started in the old Village Pit	
8h	Water sprinkling on roads to control airborne dust	Yes	Water tanker sprinkling in vogue	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty not 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 submitted to IBM regularly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	All statutory employment have been made	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Followed proposals judiciously	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Scrutinised	NIL return for the year 2013-14	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	Production was 64756 MT, Closing stock was 113372.648 MT Lumps and another 288339.282 MT Fines
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given and scutinised	Cost of production was Rs 1685.24 per MT, PMV was Rs 3 578 of Lumps (62-65%Fe) and Rs 1904 per MT (Finews 62-65% Fe)
9h	Scrutiny of Annual return on fixed assets	Given	Estimated at Rs 202958275.20
9k	Scrutiny of Annual return on mining machineries	Yes	Adequate machineries have been deployed

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
Rule 13(1)	31/08/2015		

Date :

(SHRI L H CHHANGTE)

Indian Bureau of Mines