

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-DOL/KJR/MCDR-34/BBS

Mine code : 30ORI08033

- (i) Name of the Inspecting : **CHHA**) **SHRI L H CHHANGTE**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Dr. Khageswar Mahanta, AVP (Geology)
Official with
Designation
- (iv) Date of Inspection : 01/02/2016
- (v) Prev.inspection date : 11/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KASIA**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KEONJHAR
Village : KASIA
Taluka : BARBIL
Post office : KASIA
Pin Code : 758035
FAX No. : 06767-75367
E-mail : kjr_emilbbi@sancharnet.in
Phone : 06767-75224,75489(O),75095
- (f) Police Station :
- (g) First opening date : 14/09/1955
- (h) Weekly day of rest : SUN
2. Address for : KASIA IRON DOLOMITE MINE
correspondance PO-KASIA DIST-KEONJHAR,PIN-758035
ORISSA
3. (a) Lease Number : ORI0094
(b) Lease area : 134.73
(c) Period of lease : 30
(d) Date of Expiry : 13/09/1985
4. Mineral worked : DOLOMITE Associated
IRON ORE Main

5. Name and Address of the

Lessee : ESSEL MINING& INDUSTRIES LTD.
 AT/PO: BARBIL KEONJHAR
 ORISSA
 Phone:06767-30437
 FAX :06767-75367

Owner : Essel mining & Industries Ltd
 Barbil KEONJHAR ORISSA
 Phone: 06767-30437, 30
 FAX : 06767-30367

Agent : RAVINDRA GAJANAN SATHE
 KASIA IRON & DOLOMITE MINES
 M/S ESSEL MINING &
 INDUSTRIES LTD KASIA, PO-
 BARBIL, KEONJHAR KEONJHAR
 ORISSA
 Phone:
 FAX : 06767 275367

Mining Engineer

Name : Rajesh Kumar Patel, Full Time
 Qualification : B E Mining, FCC
 Appointment/ : 09/07/2013
 Termination date

Geologist

Name : Subbaraya Sarma Chilumuru, Full Time
 Qualification : M Sc GEOLOGY
 Appointment/ : 10/12/2011
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	06/05/2005
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	08/12/2005
		Modif.of approved Mining Plan	22/05/2007
		Modif.of approved Mining Plan	05/03/2009
		Mining Scheme rule 12 MCDR1988	29/03/2011
		Mining Scheme rule 12 MCDR1988	14/03/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	none	
1b	Exploration over lease area for geological axis 1 or 2	90 .0 ha	None	
1d	Balance area to be explored to bring Geological axis in 1 or 2	104.148 ha	None	
1e	Balance reserve as on 01/04/20	145 MMT (111 & 121) as on 1/4/2013	Same as proposed	
1f	General remarks of inspecting officers on geology, exploration etc			The mine was closed since November 2012 due to legal entanglement

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1 pit each in North and South block	Developed as proposed	
2c	Stripping ratio or ore to OB ratio	Propoosed for the year 2015-16 was 1:0.75	None	Mine has been closed since November 2012
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine was closed due to legal problem and non clearance from statutory bodies

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits	Developed 2 pits also, 1 each in North and South Block	

3b	Quantity of ROM mineral production proposed	7,500,000 MT	NIL	Mine closed since November 2012
3e	Grade of mineral rejects generation and threshold value declared.	Reject is -45% Fe and Threshold value is +45 % Fe	Same as proposed	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical in vogue as proposed	
3j	Provision of drilling and blasting in mineral benches	Yes	Controlled and scientific blasting method in vogue	
3k	Provision of mining machineries in mineral benches	Yes	All types of heavy machineries have been deployed in this mine	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench specific dimensions given	Benches have been developed as 9 m high, 15-20m wide in this mine	
3m	Total area covered under excavation/pits	75 ha	70.943 ha actual area covered by the 2 pits	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.75	Nil	As the mine was closed

3o	Total area put in use under different heads at the end of year	Mining - 70.943 ha, Stacking- 5.940 ha, Dumping- 9.574 ha, Roads - 7.609 ha, Safety zone- 30.621 ha, Reclaimed area- 7.099 ha, Private land - 3.968 ha, Unexplored area- 44.321 ha	Developed as proposed
3q	General remarks of inspecting officers on method of mining etc.		The mine has been closed since November 2012 , hence practically no development / exploitation in this mine

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 in vogue	
4b	Location of topsoil, OB and mineral reject dumps	Specifics given in the MP	One in Northern block and another one in Southern block as proposed	
4c	Number of dumps within lease area and outside of lease area	2 nos	Only 2 nos of dumps developed as propsed	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Given	The 2 nos of dumps are well within the UPL	
4g	Number of dumps established.	2 nos	There are only 2 nos of active dumps. No dead dump in this mine	

4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Retaining wall constructed all along the base of these 2 dumps	
4i	Length of Retaining wall or garland drain all along dumps	Specifics given in the MP	750m long retaining wall along the Dump- 6 and 400 m along dump SE-1	
4k	Specific comments of inspecting officer on waste dump management			There has been no waste dump management problem 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	There has been no area of full extraction of ore	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Porposed for 15 ha	Actual achieiment is only for 7.099 ha only	
5d	Total area fully reclaimed and rehabilitated	NIL	None	No matured area in this mine

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	Monthly and Annual Returns have been filed regularly	

6b	Area available for rehabilitation (ha) .	Not specified	Only 7.099 ha only	
6e	Cumulative no .of plants	5,00,000 saplings	Actual till date was 2,29,895 saplings	Under achievement due to closure of mine from November 2012
6g	Cost incurred on watch and care during the year	Not specified	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Routine monitoring carried out and also on need base	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	No desptach during the year, hence no sorting also	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Sorting by machanical method in vogue	
7d	Any beneficiation process at mines .	Yes	Dry mechanical method in vogue in this mine	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There has been no conservation problem in this mine even while the mine is working

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Practically no top soil here	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Separate dumps for OB, Wastes , fines maintained	
8g	Survival rate	90%	Actual survival rate has been 85% only both within and outside ML	
8h	Water sprinkling on roads to control airborne dust	Yes	Routine water sprinkling has been carried out in this mine	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in the area has not been unduly affected by activities related to mining here

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Monthly and Annual returns have been submitted on a regular basis	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Specifics given	Proposal for land utilisation has been satisfactorily carried out as per plan	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	These aspects have not been reported as the mine was closed during the reporting period	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR scrutinised for the same	NIL production for the year with a closing stock remaining same as from the previous year i.e 6872.620 MT	Mine has been closed since November , 2012

9k	Scrutiny of Annual return on mining machineries	Given	All mining machineries as proposed have been procured and deployed in this mine. Altogether there are some 57 different units of mining machineries deployed in this mine
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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