INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-DOL/KJR/MCDR-34/BBS Mine code : 300RI08033

(i) Name of the Inspecting : CHHA) SHRI L H CHHANGTE

Officer and ID No.

(ii) Designation : Deputy Controller Mines

(iii) Accompaning mine : Dr. Khageswar Mahanta , AVP (Geo)

Official with Designation

(iv) Date of Inspection : 11/03/2015
(v) Prev.inspection date : 18/07/2014

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(0),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,POBARBIL, 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

Plan/Scheme of Mining

: Mining Scheme rule 12 MCDR1988 06/05/2005
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

PAGE : 3

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	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		
1f	General remarks of inspecting officers on geology, exploration etc			The mine was closed since November 2012 due to legal issues

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a		each in North	Developed as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Seperate benches in OB and Ore maintained	
2c		Proposed for the year 2014- 15 was 1:0.75	None	The mine was closed during the year
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			he mine was closed since November 2012 due to legal problem

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 nos , 1 each in North and South block	Developed as proposed	

3b	Quantity of ROM mineral production proposed	7,500,000 MT	NIL	the mine was closed during the year
3c	Recovery of sailable/usable mineral from ROM production	100 %	None during the year	The mine was closed
3g	Grade of sub grade mineral generation	Sub grade is 45-55% Fe	Same as proposed	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical method	Practised as proposed	
3ј	Provision of drilling and blasting in mineral benches	Yes	Scientific and controlled blasting in vogue	
3k	Provision of mining machineries in mineral benches	Yes	All types of heavy mining amchineries deployed in this mine	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes , bench dimensions given	Benches of 9m high, 15- 20m wide have been developed	
3m	Total area covered under excavation/pits	75.00 ha	Actual area covered by 2 pits were 70.943 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.7	NIL	As the mine was closed during the period

Developed / exploited as 30 Total area put Mining in use under 70.943 ha, proposed different heads Stackingat the end of 5.940 ha, Dumping- 9.574 year 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 3q General remarks The mine was of inspecting closed since officers on November 2012, method of mining hence practically NO development/ etc. exploitation as per their approved MP/SoM

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 dumpings/ sctakings for OB, Ores, Rejects in vogue in this mine	
4b	Location of topsoil, OB and mineral reject dumps	2 Dumps	As proposed 2 dumps developed in areas lying W400-580 in Northern block as Dump-6 and another Dump- SE-1 in the Southern block lying in an area covered by W 145-387 and S 673-1006	
4c	Number of dumps within lease area and outside of lease area	Propsed within ML	Both the dumps are within the ML area only	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Developed as proposed	

4g	Number of dumps established.	2 nos	There are 2 no of dumps as on date, both active dumps	
4i	Length of Retaining wall or garland drain all along dumps	Specific given in MP	Dump 6 is protected by a retaining wall measuring about 750m and Dump SE-1 by 400m long as proposed	
4k	Specific comments of inspecting officer on waste dump management			There has been no problem of solid 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.	15 ha approx	Only 8 ha approx has been reclaimed so far	Under development mainly due to the mine being closed from November 2012 itself
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Non specific	Practically no top soil generated here. The mine has been suspended	
5d	Total area fully reclaimed and rehabilitated	NIL	None	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			As proposed under normal circumstances, about 15 ha was to be reclaimed but since the mine has been closed since November 2012 the reclamation could not be achieved

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 regual basis	
6b	Area available for rehabilitation (ha) .	15 ha	Actual area turned out to be 7.099 ha only	
бе	Cumulative no .of plants	5,00,000 saplings	Actual cummulative plants so far 2,21,495 covering an area of 28.677 ha within the ML and another 0.35 ha outside the ML. Survival rate is 85% both within and outside the ML	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Porposed	Apart from routine monitoring , the same is carried out as and when need base	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			There has been no problem in implementing the PMCP. Howveer, this mine being closed since November 2012, the same couldnot be carried out practically

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	7,500, 000 MT for the year 2013-14	NIL	The mine was non operational
7c	Different grade of mineral sorted out at mines.	Specifics given in the approved MP	Coulnot be implemented	

7d	Any beneficiation process at mines	Yes	Mechanical dry process in vogue in this mine	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	I		No mining activity during the last 3 years or so

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	No top soil was to be generated during the year	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Seperate dumping of OB, Wastes, fines in vogue here	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not specified	Not practically started in this mine	
8g	Survival rate	90%	Axtual survival rate was 85% both within and ouside the ML	
8h	Water sprinkling on roads to control airborne dust	Yes	Routine sprinkling of water in haul road	
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area			There has been no adverse effect on the environment in general due to this mining activity

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	YES	Monthly and Annual returns submitted to IBM on a regualr basis	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	It has been found that all statutory employment has been made satisfactorily in this mine	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	All land use pattern followed practically as proposed.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the AR	Production NIL during the year 2014-15, Closing stock remains at 6872 MT	
9h	Scrutiny of Annual return on fixed assets	Not specified	Fixed assets have been found to be commensurate as given in their AR	
9k	Scrutiny of Annual return on mining machineries	Given in the AR	Machineries procured and deployed have been as proposed in the MP	

PAGE: 10

Details of violations observed during current violation pointed out	t inspection and compliance position of
Violation observed	Show couse position

Rule NO. Issued on Compliance on Rule NO. Issued on Compliance on

Date	:	(SHRI L H CHHANGTE)

Indian Bureau of Mines