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 : Rajesh Kumar Patel , Mines Manager

Official with Designation

(iv) Date of Inspection : 23/10/2013
(v) Prev.inspection date : 24/02/2013

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

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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	NIL	None	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified		
1d	Balance area to be explored to bring Geological axis in 1 or 2	104.148 ha	None	Forest clearance awaited
1e	Balance reserve as on 01/04/20	145 MMT (111 &122) as on 1/4/2013	Same as proposed	
1f	General remarks of inspecting officers on geology, exploration etc			The mine has been closed since November 2012

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a		at North and	Developed as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Seperate benches in OB, Ore maintained	
2c	Stripping ratio or ore to OB ratio	1:0.75	Actual turned out to be 1;0.05	Less development work during the year
2d	Quantity of topsoil generation in m3	5279840 MT	NIL	Practically no development work

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

The mine was closed since
November 2012,
development was halted except few months but due to rain, no significant work could be carried out

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits , 1 each in Northern and Southern block	Developed as proposed	
3b	Quantity of ROM mineral production proposed	7,500,000 MT	3,75,670 MT	The production was made from April 2012 to October 2012 only , thereafter the mine was closed
3с	Recovery of sailable/usable mineral from ROM production	100%	Almost a 100% when actual; ly worked	
3g	Grade of sub grade mineral generation	Sub grade is from 45-58% Fe	Same as proposed	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	mechanical in vogue as proposed	
3ј	Provision of drilling and blasting in mineral benches	Yes	Scientific and controlled blasting method in vogue	
3k	Provision of mining machineries in mineral benches	Yes	All types of machineries have been deployed in this mine	

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench dimensions specified	Benches in OB and Ore are 9m high and 15-20m wide as per proposed	
3m	Total area covered under excavation/pits	75 ha	Actual area covered by the 2 pits are 70.943 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.7	1:0.05	There was practically no development in this mine
30	Total area put in use under different heads at the end of year	Mining - 70.943 ha, Stacking- 5.960 ha, Dumps- 9.574 ha, Township- 12.486 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 and exploited as proposed	
3q	General remarks of inspecting officers on method of mining etc.			The mine was closed since November 2012

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, Ores, Rejects made in this mine	

4b	Location of topsoil, OB and mineral reject dumps	Specific locations identified / proposed	As proposed, 2 large dumps have been developed as Dump-6 at area lying between W 400-585 and S269-525 whereas another Dump-SE-1 lying in W 145-387 and S 673-1006	No deviation in this aspect
4c	Number of dumps within lease area and outside of lease area	2 within ML , No dump outside ML	Dumps developed as proposed	
4e	Number of active and alive dumps.		Developed as proposed	
4h	Whether Retaining wall or garland drain all along dumps are there.	in approved MP	Dump 6 is (34500 sqm) 200m long x 175m approx. Hence 750m long retaining wall has been constructed all around this dump. Similarly, another Dump SE-1 is 10080 (100m x 100m approx) is retained by a wall of 400m long	
4j	Number of settling ponds	Regular settling ponds proposed	Settling ponds have been constructed along the base of the 2 dumps	
4k	Specific comments of inspecting officer on waste dump management			There has been no problem with solid waste handling management here

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 proposed	Only 7.099 ha has been reclaimed	
5d	Total area fully reclaimed and rehabilitated	NIL	None	Active or partial reclamation of 7,099 only has been carried out in this mine

5e General remarks Specifics Actually, reclamation of inspecting given here has been planned for officers on atleast 15 ha area but backfilling and since the mine was closed from November reclamation etc. 2012 , only 7.099 ha approx has been carried out so far as on date of inspection

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted regularly	
6b	Area available for rehabilitation (ha).	15 ha	Actual is for 7.099 ha only	
6c	afforestation done (ha).	30 ha	28.667 ha inside the Ml and another 0.32 ha outside the ML	
6d	No. of saplings planted during the year	5000 saplings	3000 sapling only	
6e	Cumulative no .of plants	3,00,000 saplings till 2012-13	2,29,895 saplings	
6f	Any other method of rehabilitation	Non proposed	None practically	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not specified	Apart from routine monitoring, the same is carried out as and when required	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks

7a	ROM Mineral dispatch or grade-wise sorting within lease area	7,500,000 MT	Only 2,550,000 desptached	The mine was closed since November 2012
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical process in vogue	
7d	Any beneficiation process at mines .	process	Mechanical dry process in vogue	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There has been no conservation problem in this mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Non specified	Prcatically NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Dumps, wastes, fines, subgrade ores have been dumped seperately	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not specified	No work practically in this aspect	
8g	Survival rate	80% within ML	75% actual within the ML	

8h	Water sprinkling Rou on roads to spr control airborne pro dust	prinkling	Carried ou	it as proposed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area				There has been no detrimental effect in the environment due to this mining

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M/R and A/R	They are submitted regularly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not specified	All statutory employment has been made satisfactorily	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Specifics given	Land has been utilised as proposed	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not specified	Production during 2012- 13 was 936881.40 MT, closing at 6872.620 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not specified in approved MP	Sale value at Rs 5492 per ton (+ 62 Fe) and production cost Rs 505.37 per ton only	
9h	Scrutiny of Annual return on fixed assets	Not specified	Fixed asset estimated at Rs 185203000, found to be commensurate with field observation	
9k 	Scrutiny of Annual return on mining machineries	Specified	Deployed more or less same as proposed. All together 57 units of machineries deployed.	

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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)
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Indian Bureau of Mines