INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine code : 300RI08026 Mine file No : ORI/IRON/KJR/MCDR-62/BBS Name of the Inspecting : RAM) RAMKISHAN R Officer and ID No. (ii) Designation : Sr. Asst. Contrl. Mines (iii) Accompaning mine : Shri Ajit Patra, Mines Manager Official with Designation (iv) Date of Inspection : 25/08/2019 (v) Prev.inspection date : 11/04/2018 PART-I : GENERAL INFORMATION : JILLING LANGALOTA (a) Mine Name (b) Registration NO. Category : A Mechanised (C) Type of Working (d) : Opencast (e) Postal address State : ORISSA : KEONJHAR District : JURURI & BANSPANI Village Taluka : BARBIL : JAJANG Post office Pin Code : 758052 FAX No. : 06767 275367,279218 E-mail : EMI.BRBL@RME.SPRINTRPG.EMS : 06767 275457,275512,275240 Phone Police Station : BAMEBARI (f)(g) First opening date : 01/10/1954 (h) Weekly day of rest : SUN : VILL. JORUDI 2. Address for correspondance PO. JAJANG, DIST.KEONJHAR ORISSA.PIN:758052

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> > Associated Main

: ORI0093

: MANGANESE ORE

IRON ORE

(a) Lease Number

(c) Period of lease(d) Date of Expiry

(b) Lease area

Mineral worked

3.

5. Name and Address of the

Lessee : ESSEL MINING & INDUSTRIES LTD.

INDUSTRY HOUSE 10 CAMAC STREET KOLKOTA-700017 KOLKATA WEST BENGAL

Phone: FAX :

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

Geologist

Name : P.K.PARIDA, Full Time

Qualification : M.SC GEOLOGY Appointment/ : 20/06/2004

Termination date

Manager

AJIT KUMAR PATRA Name : Qualification : B. E. MINING Appointment/ : 13/12/2011

Termination date

Plan/Scheme of Mining

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 Renewal under rule 22 MCR1960 Modif.of approved Mining Plan Mining Scheme rule 12 MCDR1988 Modif.approved Mining Scheme Mining Scheme rule 12 MCDR1988 MP modif under 17(3) MCR 2016 FMCP under 23C(1)

06/06/2005 23/10/2007 17/04/2009 13/09/2011 13/06/2014 18/05/2018 28/08/2018

30/05/2002

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration:

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	69 nos of boreholes were proposed during the plan period i.e. 2018-19.	69 nos of boreholes were drilled during the year 2018-19.	e Nil
1b	Exploration over lease area for geological axis 1 or 2	boreholes	69 nos of boreholes were drilled during the year 2018-19.	e Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal.	Drilling was carried out by In house equipment.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	253.95 ha was the unexplored area for which 69 nos of boreholes were propsoed to bought area under G1/G2 lwvwl.	exploration was carrid out as per the proposal.	Nil
1e	Balance reserve as on 01/04/20	As per the approved document as on 18.05.2018 the iron ore reserves are 32.62 mil.t. and resources are 82.88 mil.t.	due to addition/depletion over the period the iron ore reserves as on 01.04.2019 are 45.67 mil.t. and resources are 33.44 mil.t.	Nil
1f	General remarks of inspecting officers on geology, exploration etc		exploration is carried out as per the proposal.	Nil.

Deve	elopment :			
l.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	A 4	development is carried out in Jajang-Langalota Block, Gangai-gora Block	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	no top soil generation is envisaged during the year and seperate dumping of OB and mineral are proposed.	seperate dumping of OB and mineral are carried out.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.09 t/cu.m.	1:0.047 t/cu.m.	stripping ratio is less violation observed and communicatd to lessee dated 06.09.2019
2d	Quantity of topsoil generation in m3	Not applicable	Nil	Nil
2e	Quantity of overburden generation in m3	582000 cu.m.	296807 cu.m.	violation observed and communicated dated 06.09.2019
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		development is carried out by opencast minng method in 2 quarries.	Nil
Til 4400	loitation.			
LXE	oloitation:			

3a	Number of pit proposed for production	2 quarries were proposed called as Jajang- Langalota Block, Gangai- gora Block are proposed for production during the year 2018-19.	production is carried out from 2 quarries.	Nil
3b	Quantity of ROM mineral production proposed	6.27 mil.t.	6.27 mil.t.	Nil
3с	Recovery of sailable/usable mineral from ROM production	saleable ore	5.75 mil.t. of saleable ore and 0.51 mil.t. of mineral reject	Nil
3d	Quantity of mineral reject generation	0.38 mil.t. of mineral reject	0.51 mil.t.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	+45%-54% Fe	+45%-54% Fe	Nil
3f	Quantity of sub grade mineral generation.	NA	Na	Addressed in mineral rejects.
3g	Grade of sub grade mineral generation	NA	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Not applicable	Nil

3j	drilling and blasting in mineral benches	deep hole drilling and blsting is proposed in mineral benches.	deep hole drilling and blsting is caried out in mineral benches.	Nil
3k	machineries in		shovel and dumper combination is deployed for excavation and hauling.	Nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m bench height is proposed.	maintained.	Nil
3m	Total area covered under excavation/pits	154.055 ha at the end of plan period i.e. 2019-20.	154.055 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.09 t/cu.m.	1:0.047 t/cu.m.	Nil
30	Total area put in use under different heads at the end of year	total area put to use at the end of plan period i.e. 2019-20 is 304.163 ha.	304.163 ha	Nil
3р	Production of ROM mineral during the last five year period as applicable	2014-15: 6.16 mil.t 2015-16: 6.22 mil.t	2015-16: Nil	the mine operations were suspended during the periods from 2014 to 2017 by forest department.
3q	General remarks of inspecting officers on method of mining etc.		production is carried out by opencast mining method and production planned from 2 quarries.	Nil

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	no topsoil generation is envisaged and seperate dumping in OB and mineral rejects are proposed		Nil
4b	Location of topsoil, OB and mineral reject dumps	mine workings during the plan period is propsed to be dumped in 2		Nil
4c	Number of dumps within lease area and outside of lease area	within lease	2 nos. within lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	beyond UPL	beyond UPL	Nil
4e	Number of active and alive dumps.		2 nos	Nil
4f	Number of dead dumps.	No such proposal.	Nil	Nil
4g	Number of dumps	No such	Nil	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	and garland drain are	retaining wall and garland drain are provided all along the dump.	Nil
41	Length of Retaining wall or garland drain all along dumps	drain already		Nil
4 j	Number of settling ponds	Not applicable		Nil
4 k	Specific comments of inspecting officer on waste dump management		waste dumping is carried in 2 no of waste dumps as proposed in the mining plan.	Nil

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.	reclamation and	Not applicable	Nil
5b	Area under backfilling of mined out area	Not applicable	Nil	Nil
50	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Not applicable	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Area not matured for reclamation and rehabiliation.	Nil

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).	PMCP report to be subitted before 1 st July.	submitted.	Nil
6b	Area available for rehabilitation (ha) .	Not applicable	Nil	Nil
6C	afforestation done (ha).	3 ha	3 ha	Gap planation has been carried out in 3 Ha area.
6d	No. of saplings planted during the year	2500 nos	13200 nos	gap plantation carried out.
6e	Cumulative no .of plants	2500 nos	13200 nos	Nil
6f	Any other method of rehabilitation	Not applicable	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 200000	Rs 200000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not applicable	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Nil	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestati on on backfilled area	Not applicable N:			Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable N			
61	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not applicable N	Vil		Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable l	Nil		Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not applicable			Nil
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not applicable			avi 1
6p	Compliance of environmental monitoring (corzone and buffer zone)	environmnetal monitoring is proposed in core and buffer zone.	environmenatis carried	rl monitorin	g Nil

6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

PMCP measures implementeed as per the mining plan

Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade-wsie sorting of mineral is proposed.	grade-wsie sorting of mineral is carried out.	Nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Nil
7c		+45%-54% Fe and +54% Fe	+45%-54% Fe and +54% Fe	Nil
7d	Any beneficiation process at mines .	No proposal.	NA	Nil
7 e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		grade-wise sorting of mineral is carried out.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule			Nil

Remarks

b	Concurrent use or storage of topsoil	Not applicable		Níl	
C	for overburden,	sperate dumps for OB is proposed and mineral rejects are temporarility stacked and blended with high grade ore.	sperate dumps for OB is maintained and mineral rejects are temporarility stacked and blended with high grade ore.	Nil	
3e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable		Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 nos	13200 nos		
8g	Survival rate	No such specific proposal.	98%		
8h	Water sprinkling on roads to control airborne dust	sprinkling on	carried out.	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	r	aestthetic beauty in and around the mine area are mainatined	Nil	

Propasals Actual work

Sl.No. Item

9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017		Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<pre>(i) Graduate Mining Engineer - 6 (ii) Diploma Mining Engineer - 8 (iii) Geologist - 9</pre>	found to be in order.	Nil
9c		area furinshed	the land use pattern is not in line with approved minng plan	violation observed and communicated letter dated 06.09.2019
9d	Scrutiny of Annual return on afforestation		found to be in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		0.51 mil.t	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	stock is	found to be in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Rs.1565	Nil
9h	Scrutiny of Annual return on fixed assets	Rs 512082100	Rs 512082100	Nil

9k Scrutiny of BLAST HOST found to be in order. Annual return on DRILL 165.000

mining MM - 2
machineries BLAST HOST machineries

DRILL 102.000

MM - 1(HYDRAULIC) 2.100 CUM - 10

SHOVEL (HYDRAULIC) 1.200 CUM - 3 DOZER 305.000 HP - 3

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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

MCDR17 Rule 11(1) 06/09/2019

Rule 45(7) 06/09/2019

Date : 18/11/19

(RAMKISHAN R)

Indian Bureau of Mines