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 : SQ10) SHRI G.C. SETHI

Officer and ID No.

(ii) Designation : Deputy Controller Mines

(iii) Accompaning mine : Dr. K.Mahanta, Qualified Person

Official with Designation

(iv) Date of Inspection : 12/04/2018
(v) Prev.inspection date : 24/06/2017

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KASIA

(b) Registration NO. : IBM/1289/2011

(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 : BARBIL

(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 : SHRI V SRIKANTH

BARBIL KEONJHAR ODISHA

KEONJHAR ORISSA Phone: 06767-275367 FAX : 06767-275367

Mining Engineer

Name : BAIKUNTH KALO, Full Time

Qualification : B E MINING Appointment/ : 15/11/2016

Termination date

Geologist

Name : SUBBARAYA SARMA CHILUMURU, Full Time

Qualification : M SC GEOLOGY Appointment/ : 10/12/2011

Termination date

Manager

Name : BISWAJIT NAYAK
Qualification : DIPLOMA MINING
Appointment/ : 15/11/2016

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
MP review under 17(1) MCR 2016 05/09/2017

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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	No back log.	Nil
1b	Exploration over lease area for geological axis 1 or 2	As per the review of mining plan approved on 05.09.2017, an extent of 179.495ha of area has been explored upto G1 level & 14.701ha upto G3 level.	An extent of 179.495ha of area has been explored upto G1 level 8 14.701ha upto G3 level.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Essel Mining & Industries Ltd. was the exploration agency for this mine.	M/s Essel Mining & Industries Ltd. was the exploration agency for this mine & no exploration was done during the year 2017-18 as the mine was not under operation. The expenditure on account of exploration is Nil.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per the review of mining plan approved on 05.09.2017, an extent of 179.495ha of area has been explored upto G1 level & 14.701ha upto G3 level.	An extent of 179.495ha of area has been explored upto G1 level 8 14.701ha upto G3 level, as envisaged in the review of mining plan approved on 05.09.2017. The mine is not under operation since long time.	Nil

1e Balance reserve as on 01/04/20

In the review of mining plan, dated 05.09.2017, the reserves/reso urces have been estimated as on 01.04.2017 & the same is as given below:- Iron ore- Proved reserves (111): 145.31million tonnes & total remaing mineral resources 83.61 million tones.

The mine was not under operation during 2017-18, thereby no depletion of reserves/resources estimated in the approved review of mining plan. The available reserves/resources as on 01.04.2018 is same as on 01.04.2017 & the status for the same is as given below: - Iron ore-Proved reserves (111): 145.31 million tonnes & total remaing mineral resources 83.61 million tones.

The mine was not under operation during 2017-18.

1f General remarks of inspecting officers on geology, exploration etc

In the review of mining plan, dated 05.09.2017, the reserves/reso urces have been estimated as on 01.04.2017.

The Kasia iron & dolomite deposit falls within the Singhbhum-Keonjhar-Bonai range of hills roughly alined from north east to south exploration has west and the area is extremely rich in minerals resources especially iron & manganese ore. The mine is not under operation since November 2012 due to legal entanglement.

The mine is not under operation since November 2012 due to legal entanglement & no been done after the November 2012.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block 1 & 2	The mine is not under operation since November 2012.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-	No topsoil in the mine.	Nil

2c	Stripping ratio or ore to OB ratio		The mine was not under operation during the year 2017-18 and the Ore:OB ratio could not be coumpted.	Nil
2d	Quantity of topsoil generation in m3	No top soil i the mine.	n Nil	Nil
2e	Quantity of overburden generation in m3		Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The mine is not under operation since November 2012.	The mine is not under operation since November 2012.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits in two blocks.	The mine is not under operation since November 2012.	Nil
3b	Quantity of ROM mineral production proposed	The present review of mining plan was approved on 05.09.2017 for the period from 2017-18 to 2019-20.	The mine was not under operation since November 2012, thereby no production was reported during the year 2017-18.	Nil
3c	Recovery of sailable/usable mineral from ROM production	of iron ore is about 89.59% as indicated in the review	The mine is not under operation since November 2012 due to legal entanglement, thereby recovery percentage of iron ore dose not arise.	Nil
3d	Quantity of mineral reject generation	None	Nil	The mine is not under operation since November 2012.

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	Nil
3f	Quantity of sub grade mineral generation.		No sub-grade generated in 2017-18.	Nil
3g	Grade of sub grade mineral generation	Not applicable.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	The ROM generated is screened by deploying mobile screening plant at the pit head itself as envisaged in the review of mining plan approved on 05.09.2017.	No segregation of ore is practised at present as the mine is not under operation since November 2012.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Provisions for drilling & blasting is proposed in the review of mining plan approved on 05.09.2017 for the period from 2017-18 to 2019-20.	The drilling & blasting is not in poractice as the mine is not under operation.	Nil

3k	Provision of mining machineries in mineral benches		No mining machineries are deployed in the benches as the mine is not under operation.	Nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Separate benches in overburden & in ore zone are proposed.	The mine is not under operation since November 2012 due to legal entanglement.	Nil
3m	Total area covered under excavation/pits	No valid proposal for the year 2017-18.	An extent of 70.943ha has been excavated by two nos. of pits.	Nil
3n	Ore to OB ratio for the pit/mine during the year.		As the mine is not under operation since November 2012, no production & waste handling was reported during the year 2017-18. Therefore, the Ore:OB ratio could not computed.	Nil

30 Total area put The existing The existing land use in Nil in use under land use in diffrent heads at the different heads diffrent heads end of the year 2017-18 at the end of at the end of is as given below:- (i) the year 2017- Mining: 70.943ha (ii) year 18 is as given Storing of Minera/subbelow: - (i) grade ore: 5.940ha (iii) Mining: Dumping: 9.574ha (iv) 70.943ha (ii) Township/colony: 4.481ha Storing of (v) Road: 7.609ha (vi) Minera/sub-Magazine: 0.053ha & grade ore: (vii) Reclaimed area: 5.940ha (iii) 7.099ha as per the Dumping: review of mining plan 9.574ha (iv) approved on 05.09.2017. Township/colon y: 4.481ha (v) Road: 7.609ha (vi) Magazine: 0.053ha & (vii) Reclaimed area: 7.099ha as per the review of mining plan approved on 05.09.2017. Production of 3р The proposed The actual production The mine is not ROM mineral production for reported for the period under operation from 2012-13 to 2016-17 during the last the period since November five year period from 2012-13 is as given below:-2012 to till date. as applicable to 2016-17 is 2012-13: 5500921 tonnes, 2013-14: Nil, 2014-15: as given Nils, 2015-16: Nil & below:- 2012-13: 5500921 2016-17:Nil, 2017-18: tonnes, 2013-Nil14: 7500236 tonnes, 2014-15: 7500332 tonnes, 2015-16: 7500568 tonnes & 2016-17:Nil 3q General remarks The mine is not under Nil of inspecting operation since November officers on 2012 to till date. method of mining

etc.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	mining plan approved on	The mine is not under operation since November 2012 & no dumping/stacking is done.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Existing waste dump in eastern side of the lease.	No dumping is done as the mine was not under operation during 2017- 18.	Nil
4c	Number of dumps within lease area and outside of lease area	one	One	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	of sub-grade	Out of 5 nos. of subgrade dumps, two nos. are located in south block & 3 are in north block.	Nil
4e	Number of active and alive dumps.	-		The mine is not under operation since November 2012.
4f	Number of dead dumps.	One	One	Nil
4g	Number of dumps established.	One	One	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.		No retaining wall & garland drains were constructed during the year 2017-18.	The mine was not in operation.

4i	Length of Retaining wall or garland drain all along dumps		Not applicable.	Nil
4j	Number of settling ponds	None	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		The mine is not under operation since November 2012.	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.	No area has been matured for reclamation.	Not applicable.	Nil
5b	Area under backfilling of mined out area		The mine was not in oreration during 2017-18.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No topsoil in the mine.	Not applicable.	Nil
5d	Total area fully reclaimed and rehabilitated	Not applicable.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The mine was not under operation since November 2012.	Nil

Progressive Mine Clousre Plan:

Sl.No. I	Item	Propasals	Actual work	Remarks
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ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		The mine is not under operation since November 2012.	Nil
6b	Area available for rehabilitation (ha) .	The mine is not operating since November 2012.	Nil	The mine was not operating since November 2012.
6c	afforestation done (ha).		The mine was not in operation during 2017-18, thereby no plantation done.	Nil
6d	No. of saplings planted during the year		The mine was not in operation during 2017-18, thereby no plantation done.	Nil
6e	Cumulative no .of plants		The mine is not under operation since the year 2012.	Nil
6f	Any other method of rehabilitation	Not applicable.	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	The mine is not under operation since November 2012.	The mine is not under operation since November 2012.	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

бј	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	The mine is not under operation since November 2012.	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	The mine is not under operation since November 2012.	Nil	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	The mine is not under operation since November 2012.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	The mine is not under operation since November 2012.	Nil	Nil
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	The mine is not under operation since November 2012.	Nil	Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	The mine is not under operation since November 2012.	Nil	Nil
бр	Compliance of environmental monitoring (core zone and buffer zone)	The mine is not under operation since November 2012.	Nil	Nil

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

The mine was not in Nil operation since November

2012.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The entire iron ore produced is salable.	The mine was not under operation since Novemner 2012 & no dispatch during the year 2017-18.	Nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical means.	The mine was not under operation during 2017-18 and no sorting sizing or mechanical benefication was done during 2017-18.	Nil
7c	Different grade of mineral sorted out at mines.	Not applicable.	No mineral sorted out during the year 2017-18 as the mine was not in operation.	Nil
7d	Any beneficiation process at mines .	Not applicable.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The mine is not under operation since November 2012.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	-	exists in the	No topsoil was generated during the year 2017-18.	Nil

d8	Concurrent use or storage of topsoil	Not applicable.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		No overburden, waste, rejects & fines was generated during the year 2017-18, since the mine is not under operation from November 2012.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No reclamation proposal as the pits has not been exhausted.	Not applicable.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Nil	Nil
8g	Survival rate	Not applicable.	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Nil	Nil	Nil
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments.	The mine is not under operation since November 2012, thereeby no work has been done to improve the aesthetic beauty in and around the lease area.	Nil

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		As the mine is not under operation since November 2012, the party has submitted all nil returns for the year 2017-18.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The employment status opf mining engineer, geologist & mine manager have been furnished in the annual return submitted for the year 2017-18.	As the mine fall under category -A(FM), full time mining engineer, geologist & mine managers were employed in the mine.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		The land use status furnished in the annual return 2017-18 is found to be in order.	The mine was not under operation during the year 2017-18.

9d	Scrutiny of Annual return on afforestation	During the year 2017-18, no plantation was done as the mine was not under operation due to legal issues.	The status of plantation furnished in the annual return is in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral rejects was generated from the mine as the mine was not under operation during the year 2017-18.	No mineral reject was generated during the year 2017-18.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore		The nil production reported during the year 2017-18 was verified & found to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The sale value, exmine price & cost of production is mentioned to be zero in the annual return submitted for the year 2017-18.	As the mine was not under operation no production was reported, thereby the data furnished on account of sale value, ex-mine price and cost of production is in order.	Nil
9h	Scrutiny of Annual return on fixed assets		Rs. 147281800.00	Nil

Scrutiny of 9k Annual return on machinery was and found in order.

machineries

No mining The same was verified

deployed in the mine as

the mine was not in operation. However, the status of a static crusher

unit of 2000t/h has been furnished against the machinery deployment the annual return

submitted for the year 2017-

18.

Nil

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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 Complia	nce on

Date: (SHRI G.C. SETHI)

Indian Bureau of Mines