

INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneswar regional office

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

Mine code : 30ORI08033

- (i) Name of the Inspecting : UI1 ) DAYANAND UPADHYAY  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Saroj Kanta Mishra, GM & Manager (Mine) & Shri  
Official with  
Designation
- (iv) Date of Inspection : 29/10/2019
- (v) Prev.inspection date : 06/05/2019

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(O), 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~~ 194.196 (Mining & allied activity proposed in  
134.0ha in light of Hon'ble Supreme  
Court order)
- (c) Period of lease : 50
- (d) Date of Expiry : ~~13/09/1985~~  
31.03.2020 (as per section 8A(G) of Amendment  
MMDR Act 2015)
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
	:	FMCP under 23C(1)	28/09/2018

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 nos. of bore in 2017-18. In 2018-19 no bore holes was proposed.	No exploration work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
1b	Exploration over lease area for geological axis 1 or 2	Under G2 level covering 18.899 ha. area.	No exploration work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	No exploration work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G2 level covering 18.899 ha. area.	No exploration work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
1e	Balance reserve as on 01/04/20	Balance reserve as per review of mining plan approved on 05/09/2017, Proved reserve under 111 category: 145.31 Million Tonnes, Resources : 83.61 million Tonnes.	Balance reserve as on 01/04/2019, Proved reserve under 111 category: 145.31 Million Tonnes, Resources : 83.61 million Tonnes.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
1f	General remarks of inspecting officers on geology, exploration etc	10 nos. of bore of 500 meterage in 2017-18. In 2018-19 no bore holes was proposed.	No exploration work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North block and South block pits	No development work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore .	No development work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
2c	Stripping ratio or ore to OB ratio	1:0.017 t/cu.m.	No development work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
2d	Quantity of topsoil generation in m3	No top soil generation is proposed .	No development work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
2e	Quantity of overburden generation in m3	55000 cu.m.	No development work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	North block and South block pits are proposed for development.	No development work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Two pits i.e North block and south block	No development work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3b	Quantity of ROM mineral production proposed	3.17 million tonnes for the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3c	Recovery of sailable/usable mineral from ROM production	3.079 million tonnes	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3d	Quantity of mineral reject generation	97000 tonnes	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3e	Grade of mineral rejects generation and threshold value declared.	45% Fe-54% Fe	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3f	Quantity of sub grade mineral generation.	97000 tonnes	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3g	Grade of sub grade mineral generation	45% Fe-54% Fe	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3j	Provision of drilling and blasting in mineral benches	DTH drilling of 110mm dia. Blast hole with Safety Fuse, Detonators & Nitrate Mixture for blasting.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3k	Provision of mining machineries in mineral benches	Drilling machine-2, Rock Breaker-1, Excavator-12, Loader-8, Dozer-2, Grader-1 etc	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m height of benches.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3m	Total area covered under excavation/pits	70.943 ha till the end of plan period 2019-20.	No additional degradation of land was carried out as mine operations were not carried out.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.017 t/cu.m.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

3o	Total area put in use under different heads at the end of year	the land use pattern proposed as per the approved mining plan till end of plan period 2019-20 is Mining: 70.943 ha, mineral storage: 5.94 ha, waste dumping: 9.754 ha, raods: 7.609 ha, township: 4.481 ha, magazine: 0.053 ha, reclaimed area 7.099 ha.	No additional degradation of land was carried out as mine operations were not carried out.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 7.5 mil.t 2015-16: 7.5 mil.t 2016-17: No valid proposal 2017-18: 2.68 mil.t 2018-19: 3.17 mil.t	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
3q	General remarks of inspecting officers on method of mining etc.	ROM production was proposed from two pits i.e North block and South block pits	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping for OB and subgrade are proposed and No top soil generation is proposed.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

4b	Location of topsoil, OB and mineral reject dumps	Proposed dump site is 331836.6E, 2440143.3N.	No dumping has been carried out as mine operations were stopped w.e.f. 22.11.2012 by the order of Divisional Forest Officer, Keonjhar.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department. There are 06 sub grade/mineral reject dumps and 02 waste dump in the lease area.
4c	Number of dumps within lease area and outside of lease area	One no. of waste dumping is proposed during the year 2018-19.	No dumping has been carried out as mine operations were stopped w.e.f. 22.11.2012 by the order of Divisional Forest Officer, Keonjhar.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department. There are 06 sub grade/mineral reject dumps and 02 waste dump in the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed dump site is 331836.6E, 2440143.3N.	No dumping has been carried out as mine operations were stopped w.e.f. 22.11.2012 by the order of Divisional Forest Officer, Keonjhar.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
4e	Number of active and alive dumps.	One no. of waste dumping is proposed during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department. There are 06 sub grade/mineral reject dumps and 02 waste dump in the lease area.
4f	Number of dead dumps.	No dead dumps are proposed during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department. There are 06 sub grade/mineral reject dumps and 02 waste dump in the lease area.



4g	Number of dumps established.	No dead dumps are proposed during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department. There are 06 sub grade/mineral reject dumps and 02 waste dump in the lease area.
4h	Whether Retaining wall or garland drain all along dumps are there.	No retaining wall & garland drain construction was proposed during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
4i	Length of Retaining wall or garland drain all along dumps	No retaining wall & garland drain construction was proposed during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
4j	Number of settling ponds	Not proposed.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
4k	Specific comments of inspecting officer on waste dump management	Location of proposed dump is 331836E, 2440143N.	No dumping has been carried out as mine operations were stopped w.e.f. 22.11.2012 by the order of Divisional Forest Officer, Keonjhar.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No area has been matured for reclamation so no proposal given during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
5b	Area under backfilling of mined out area	No area has been matured for reclamation so no proposal given during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No area has been matured for reclamation so no proposal given during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
5d	Total area fully reclaimed and rehabilitated	No area has been matured for reclamation so no proposal given during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No area has been matured for reclamation so no proposal given during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Not specified.	No development work carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6b	Area available for rehabilitation (ha) .	Not applicable as the area not matured for reclamation.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6c	afforestation done (ha).	2500 nos of sapling for gap fillings.	Nil. Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6d	No. of saplings planted during the year	Cunulative 5000 nos of sapling	Nil. Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6e	Cumulative no .of plants	5000 nos.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6f	Any other method of rehabilitation	Not proposed.	Nil. Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6g	Cost incurred on watch and care during the year	Not specified.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No area has been matured for reclamation so no proposal given during the year 2018-19.	Nil. Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No area has been matured for reclamation so no proposal given during the year 2018-19.	Nil. Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No area has been matured for reclamation so no proposal given during the year 2018-19.	Nil. Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No area has been matured for reclamation so no proposal given during the year 2018-19.	Nil. Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No area has been matured for reclamation so no proposal given during the year 2018-19.	Nil. Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed.	Nil.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed.	Nil.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Nil.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No area has been matured for reclamation so no proposal given during the year 2018-19.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
7c	Different grade of mineral sorted out at mines.	Gradewise sorting.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
7d	Any beneficiation process at mines	Not proposed.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Gradewise sorting.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
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### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation is proposed	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
8b	Concurrent use or storage of topsoil	No top soil generation is proposed	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping for overburden and mineral reject.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No area has been matured for reclamation so no proposal given during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No area has been matured for reclamation so no proposal given during the year 2018-19.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Cunulative 5000 nos of sapling	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
8g	Survival rate	Not specified.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
8h	Water sprinkling on roads to control airborne dust	28Kl two water sprinkler	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	5000 nos. of saplings.	No excavation carried out as the mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & Annual returns are being regularly submitted by lessee.	Monthly & Annual returns are being regularly submitted by lessee.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, geologist furnished in annual return.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under different heads are Pit-70.943 ha, waste dump- 9.574 ha, Plant, residential & building, roads-42.764ha & others - 5.940 ha.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
9d	Scrutiny of Annual return on afforestation	Nil.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock ROM- 6872.620T	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not applicable as Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs .): 111958/-	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.



9k	Scrutiny of Annual return on mining machineries	Nil.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.	Mine operations was suspended w.e.f. 22.11.2012 to 19/10/2019 by the State Forest Department.
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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

NO violation issued as mines was closed since 22.11.2012.

Dayanand Upadhyay

Date : 02.12.2019

(DAYANAND UPADHYAY)

Indian Bureau of Mines