

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Bhubaneswar regional office**

Mine file No : ORI/IRON/MB/MCDR-1/BBS

Mine code : 30ORI10014

- (i) Name of the Inspecting : **SRM** ) **SHRI SUDIP RANJAN MAZUMDAR**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Suven Kumar Nath, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 14/02/2020
- (v) Prev.inspection date : 04/07/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BADAMPAHAR**
- (b) **Registration NO.** : **IBM /5295 /2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**  
**State** : **ORISSA**  
**District** : **MAYURBHANJ**  
**Village** : **BADAMPAHAR**  
**Taluka** : **RAIRANGPUR**  
**Post office** : **BADAMPAHAR**  
**Pin Code** :  
**FAX No.** : **06794-222698**  
**E-mail** : **laltrades@yahoo.com**  
**Phone** : **06794-222834**
- (f) **Police Station** : **Badampahar**
- (g) **First opening date** : **27/05/1970**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **BADAMPAHAR IRON ORE MINE, PO: BADAMPAHAR,**  
**correspondance** **DIST: MAYURBHANJ, ORISSA.**
3. (a) **Lease Number** : **ORI0120**
- (b) **Lease area** : **443.93 129.61 Ha**
- (c) **Period of lease** : **30 Lease expiry on 26.05.2020**
- (d) **Date of Expiry** : **26/05/2000 26.05.2020**
4. **Mineral worked** : **IRON ORE** **Main**

## 5. Name and Address of the

Lessee : M/s LAL TRADERS & AGENCY (P) LTD.  
M/s LAL TRADERS & AGENCY 7,  
WATER COOL STREET,  
CALCUTTA, WEST BENGAL.  
KOLKATA WEST BENGAL  
Phone:033-2480602,2482623  
FAX :033-2477739

Owner : M/S LAL TRADERS & AGENCY (P) LTD.  
7, WATER COOL STREET,  
CALCUTTA WEST BENGAL  
KOLKATA WEST BENGAL  
Phone:  
FAX :

## Mining Engineer

Name : H.N.DAS, Full Time  
Qualification : AMIE  
Appointment/ : 12/10/2007  
Termination date

## Geologist

Name : JAYANTA NARAYAN BHARATIYA, Full Time  
Qualification : MSC GEOLOGY  
Appointment/ : 01/02/2017  
Termination date

## Manager

Name : SHRI SUVEN KUMAR NATH  
Qualification : DEGREE IN MINING  
Appointment/ : 14/12/2018  
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	25/05/2005
		Mining Scheme rule 12 MCDR1988	12/12/2007
		Mining Scheme rule 12 MCDR1988	07/06/2010
		MP modif under MCR 1960	17/03/2015
		Mining Scheme rule 12 MCDR1988	27/03/2015
		MP modif under 17(3) MCR 2016	26/07/2018
		FMCP under 23C(1)	27/09/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In 2018-19, 108 numbers of boreholes have been proposed to be drilled.	In 2018-19, 108 nos of boreholes have been drilled.	In 2018-19, 108 nos of boreholes have been drilled.
1b	Exploration over lease area for geological axis 1 or 2	In 2018-19, 108 numbers of boreholes have been proposed to be drilled.	In 2018-19, 108 nos of boreholes have been drilled. Lease area has been explored under G1/G2 level of exploration as per UNFC. Lease area explored under G1 is 105.05 Ha and in G2 is 24.56 Ha.	In 2018-19, 108 nos of boreholes have been drilled. Lease area has been explored under G1/G2 level of exploration as per UNFC. Lease area explored under G1 is 105.05 Ha and in G2 is 24.56 Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	Exploration Agency: M/s SPS Geomining Solutions Pvt Ltd and M/s National Drilling Co Expenditure: Rs 5616590	Exploration Agency: M/s SPS Geomining Solutions Pvt Ltd and M/s National Drilling Co Expenditure: Rs 5616590
1d	Balance area to be explored to bring Geological axis in 1 or 2	In 2018-19, 108 numbers of boreholes have been proposed to be drilled.	In 2018-19, 108 nos of boreholes have been drilled. Lease area has been explored under G1/G2 level of exploration as per UNFC. Lease area explored under G1 is 105.05 Ha and in G2 is 24.56 Ha.	In 2018-19, 108 nos of boreholes have been drilled. Lease area has been explored under G1/G2 level of exploration as per UNFC. Lease area explored under G1 is 105.05 Ha and in G2 is 24.56 Ha.

1e	Balance reserve as on 01/04/20	As per the modification of mining plan approved dated 26.07.2018, the reserve and resource as on 01.07.2018 is as follows. Reserve is 8.29 million tones and Remaining resources is Nil. Total Reserve and Resource is 8.29 million tones.	Reserve as on 01.04.2019 is 7.57 million tones and remaining resources at Nil. Total reserve and resource is 7.57 million tones. Data as furnished in annual return for 2018-19.	Reserve as on 01.04.2019 is 7.57 million tones and remaining resources at Nil. Total reserve and resource is 7.57 million tones. Data as furnished in annual return for 2018-19.
1f	General remarks of inspecting officers on geology, exploration etc	In 2018-19, 108 numbers of boreholes have been proposed to be drilled.	In 2018-19, 108 nos of boreholes have been drilled. Lease area has been explored under G1/G2 level of exploration as per UNFC. Lease area explored under G1 is 105.05 Ha and in G2 is 24.56 Ha.	In 2018-19, 108 nos of boreholes have been drilled. Lease area has been explored under G1/G2 level of exploration as per UNFC. Lease area explored under G1 is 105.05 Ha and in G2 is 24.56 Ha.

#### Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In 2018-19, Development proposed in Quarry Peak-A, Peak-B, Quarry-4 and Narven	In 2018-19, development carried out in Quarry Peak-A, Peak-B, Quarry-4 and Narven	In 2018-19, development carried out in Quarry Peak-A, Peak-B, Quarry-4 and Narven

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral proposed.	Separate benches in overburden and mineral maintained.	Separate benches in overburden and mineral maintained.
2c	Stripping ratio or ore to OB ratio	Stripping ratio proposed was 1: 0.15 MT/m3	Stripping ratio achieved was 1: 0.145 MT/m3	Stripping ratio achieved was 1: 0.145 MT/m3
2d	Quantity of topsoil generation in m3	There was no proposal for top soil generation.	There was no generation of top soil.	There was no generation of top soil.
2e	Quantity of overburden generation in m3	Proposal for overburden generation was 209400 m3	Overburden generated was 104085 m3. ROM Proposal was 1473160MT whereas ROM production was 719520 MT. Due to less production the proposed OB generation was less but development was proportional as stripping ratio was maintained.	Overburden generated was 104085 m3. ROM Proposal was 1473160MT whereas ROM production was 719520 MT. Due to less production the proposed OB generation was less but development was proportional as stripping ratio was maintained.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In 2018-19, Development proposed in Quarry Peak-A, Peak-B, Quarry-4 and Narven. In 2018-19, stripping ratio proposed was 1: 0.15 MT/m3	In 2018-19, development carried out in Quarry Peak-A, Peak-B, Quarry-4 and Narven. In 2018-19, stripping ratio achieved was 1: 0.145 MT/m3. ROM Proposal was 1473160MT whereas ROM production was 719520 MT. Due to less production the proposed OB generation was less but development was proportional as stripping ratio was maintained.	In 2018-19, development carried out in Quarry Peak-A, Peak-B, Quarry-4 and Narven. In 2018-19, stripping ratio achieved was 1: 0.145 MT/m3. ROM Proposal was 1473160MT whereas ROM production was 719520 MT. Due to less production the proposed OB generation was less but development was proportional as stripping ratio was maintained.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In 2018-19, four number of pits proposed for production namely Quarry Peak-A, Peak-B, Quarry-4 and Narven	In 2018-19, four number of pits proposed for production namely Quarry Peak-A, Peak-B, Quarry-4 and Narven	In 2018-19, four number of pits proposed for production namely Quarry Peak-A, Peak-B, Quarry-4 and Narven
3b	Quantity of ROM mineral production proposed	In 2018-19, ROM production proposal was 1473160 tones	In 2018-19, ROM production was 719520 tones	In 2018-19, ROM production was 719520 tones. Less ROM production compared to proposed ROM production due to EC limit for production of 0.72 MTPA iron ore.
3c	Recovery of sailable/usable mineral from ROM production	In 2018-19, Recovery of salable/usable mineral from ROM production proposal was 1441700 tones	In 2018-19, Recovery of salable/usable mineral from ROM production was 719470 tones	In 2018-19, generation of salable/usable mineral from ROM production was less as ROM production was less than proposed.
3d	Quantity of mineral reject generation	In 2018-19, Quantity of mineral reject generation proposal was 31460 tones	In 2018-19, mineral reject generated has been blended with high grade ROM to produce the saleable ore.	In 2018-19, mineral reject generated has been blended with high grade ROM to produce the saleable ore.
3e	Grade of mineral rejects generation and threshold value declared.	45% Fe to below 50% Fe, Threshold value for iron is 45% Fe.	In 2018-19, mineral reject generated between grade 45% Fe to below 50% Fe has been blended with high grade ROM to produce the saleable ore.	In 2018-19, mineral reject generated between grade 45% Fe to below 50% Fe has been blended with high grade ROM to produce the saleable ore.
3f	Quantity of sub grade mineral generation.	In 2018-19, Quantity of subgrade generation proposal was 31460 tones	In 2018-19, subgrade generated has been blended with high grade ROM to produce the saleable ore.	In 2018-19, subgrade generated has been blended with high grade ROM to produce the saleable ore.

3g	Grade of sub grade mineral generation	45% Fe to below 50% Fe, Threshold value for iron is 45% Fe.	In 2018-19, mineral reject generated between grade 45% Fe to below 50% Fe has been blended with high grade ROM to produce the saleable ore.	In 2018-19, mineral reject generated between grade 45% Fe to below 50% Fe has been blended with high grade ROM to produce the saleable ore.
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.	There is no beneficiation plant within the lease area.	There is no beneficiation plant within the lease area.	There is no beneficiation plant within the lease area.
3j	Provision of drilling and blasting in mineral benches	Iron ore will be loosened through (110 mm) deep hole drilling & blasting in hard rocks and by rock breaker in soft strata. Blasting will be practiced in the leasehold by using power gel. Nonel system of blasting/shock tube initiation system will be adopted for getting optimum blast result.	Drilling & blasting have been carried as per requirement as proposed.	Drilling & blasting have been carried as per requirement as proposed.

3k	Provision of mining machineries in mineral benches	Excavator and dumper combination have been proposed for mining in mineral benches.	Excavator and dumper combination have been deployed for mining in mineral benches.	Excavator and dumper combination have been deployed for mining in mineral benches.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches proposed is 6m	Height of benches in overburden and mineral is suitable for method of mining proposed in mining plan.	Height of benches in overburden and mineral is suitable for method of mining proposed in mining plan.
3m	Total area covered under excavation/pits	Area under mining at the end of plan period will be 35.742 Ha	Area under mining at the end of 2018-19 is 34.742 Ha as reported in annual return for 2018-19	Area under mining at the end of 2018-19 is 34.742 Ha as reported in annual return for 2018-19
3n	Ore to OB ratio for the pit/mine during the year.	In 2018-19, stripping ratio proposed was 1: 0.15 MT/m <sup>3</sup>	In 2018-19, stripping ratio achieved was 1: 0.145 MT/m <sup>3</sup>	In 2018-19, stripping ratio achieved was 1: 0.145 MT/m <sup>3</sup>
3o	Total area put in use under different heads at the end of year	Total area put in use under different heads at the end of plan period will be 77.876 Ha	Total area put in use under different heads at the end of 2018-19 is 48.098 Ha as furnished in revided annual return for 2018-19	Total area put in use under different heads at the end of 2018-19 is 48.098 Ha as furnished in revided annual return for 2018-19
3p	Production of ROM mineral during the last five year period as applicable	Year wise Production proposal 2015-16: 1041882 tones 2016-17: 1167965 tones 2017-18: 1294969 tones 2018-19: 1473160 tones	Year wise ROM production 2015-16: 416070 tones 2016-17: 719040 tones 2017-18: 719820 tones 2018-19: 719520 tones	Less ROM production compared to proposed ROM production due to EC limit for production of 0.72 MTPA iron ore.



3q	General remarks of inspecting officers on method of mining etc.	In 2018-19, four number of pits proposed for production namely Quarry Peak-A, Peak-B, Quarry-4 and Narven, In 2018-19, ROM production proposal was 1473160 tones	In 2018-19, four number of pits proposed for production namely Quarry Peak-A, Peak-B, Quarry-4 and Narven. In 2018-19, ROM production was 719520 tones. Less ROM production compared to proposed ROM production due to EC limit for production of 0.72 MTPA iron ore.	In 2018-19, four number of pits proposed for production namely Quarry Peak-A, Peak-B, Quarry-4 and Narven. In 2018-19, ROM production was 719520 tones. Less ROM production compared to proposed ROM production due to EC limit for production of 0.72 MTPA iron ore.
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## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	In 2018-19, there was no proposal for top soil generation. Waste generated have been proposed for dumping in extension part of Dump-3 and backfilling of Quarry Champajharan A & B.	In 2018-19, there was no generation of top soil generation. Waste generated have been dumped in extension part of Dump-3 and backfilled in Quarry Champajharan A & B.	In 2018-19, there was no generation of top soil generation. Waste generated have been dumped in extension part of Dump-3 and backfilled in Quarry Champajharan A & B.

4b	Location of topsoil, OB and mineral reject dumps	In 2018-19, there was no proposal for top soil generation. Waste generated have been proposed for dumping in extension part of Dump-3 and backfilling of Quarry Champajharan A & B.	In 2018-19, there was no generation of top soil generation. Waste generated have been dumped in extension part of Dump-3 and backfilled in Quarry Champajharan A & B.	In 2018-19, there was no generation of top soil generation. Waste generated have been dumped in extension part of Dump-3 and backfilled in Quarry Champajharan A & B.
4c	Number of dumps within lease area and outside of lease area	There are six nos of dumps within lease area.	There are six nos of dumps within lease area.	There are six nos of dumps within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are located outside the UPL	Dumps are located outside the UPL	Dumps are located outside the UPL
4e	Number of active and alive dumps.	One no of dump	One no of dump	One no of dump
4f	Number of dead dumps.	Five no of dumps	Five no of dumps	Five no of dumps
4g	Number of dumps established.	Five no of dumps	Five no of dumps	Five no of dumps
4h	Whether Retaining wall or garland drain all along dumps are there.	In 2018-19, proposal for construction of retaining wall (RW) and garland drain is as follows: Mineral reject Stack: 400m RW and 400m of garland drain; Dump-3: 300 m of RW and 300m of garland drain; Dump-2: 400m of RW and 400m of garland drain	It was observed during inspection that retaining wall and garland drain around mineral reject stack was incomplete which should have been completed by 2018-19. Violation was issued under rule 26(1) of MCDR 2017. Retaining wall and garland drain around Dump-2 and Dump-3 have been completed.	It was observed during inspection that retaining wall and garland drain around mineral reject stack was incomplete which should have been completed by 2018-19. Violation was issued under rule 26(1) of MCDR 2017. Retaining wall and garland drain around Dump-2 and Dump-3 have been completed.

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| 4i | Length of Retaining wall or garland drain all along dumps | In 2018-19, proposal for construction of retaining wall (RW) and garland drain is as follows: Mineral reject Stack: 400m RW and 400m of garland drain; Dump-2: 400m of RW and 400m of garland drain | It was observed during inspection that retaining wall and garland drain around mineral reject stack was incomplete which should have been completed by 2018-19. Violation was issued under rule 26(1) of MCDR 2017. Retaining wall and garland drain around Dump-2 and Dump-3 have been completed. | It was observed during inspection that retaining wall and garland drain around mineral reject stack was incomplete which should have been completed by 2018-19. Violation was issued under rule 26(1) of MCDR 2017. Retaining wall and garland drain around Dump-2 and Dump-3 have been completed. |
| 4j | Number of settling ponds                                  | There was no fresh proposal. Maintenance of existing settling tanks proposed.   | Existing settling tanks have been maintained.  | Existing settling tanks have been maintained.  |

4k	Specific comments of inspecting officer on waste dump management	In 2018-19, there was no proposal for top soil generation. Wastes generated have been proposed for dumping in extension part of Dump-3 and backfilling of Quarry Champajharan A & B. In 2018-19, proposal for construction of retaining wall (RW) and garland drain is as follows: Mineral reject Stack: 400m RW and 400m garland drain; Dump-3: 300 m of RW and 300m of garland drain; Dump-2: 400m of RW and 400m of garland drain	In 2018-19, there was no generation of top soil generation. Wastes generated have been dumped in extension part of Dump-3 and backfilling of Quarry Champajharan A & B. It was observed during inspection that retaining wall and garland drain around mineral reject stack was incomplete which should have been completed by 2018-19. Violation was issued under rule 26(1) of MCDR 2017. Retaining wall and garland drain around Dump-2 and Dump-3 have been completed.	In 2018-19, there was no generation of top soil generation. Wastes generated have been dumped in extension part of Dump-3 and backfilling of Quarry Champajharan A & B. It was observed during inspection that retaining wall and garland drain around mineral reject stack was incomplete which should have been completed by 2018-19. Violation was issued under rule 26(1) of MCDR 2017. Retaining wall and garland drain around Dump-2 and Dump-3 have been completed.
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#### 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.	In 2018-19, part of the waste generated have been proposed for backfilling in the exhausted part of Quarry Champajharan A & B.	Part of the waste generated have been backfilled in the exhausted part of Quarry Champajharan A & B.	Part of the waste generated have been backfilled in the exhausted part of Quarry Champajharan A & B.

5b	Area under backfilling of mined out area	0.405 Ha	0.405 Ha	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	In 2018-19, there was no proposal for top soil generation.	In 2018-19, there was no generation of top soil.	In 2018-19, there was no generation of top soil.
5d	Total area fully reclaimed and rehabilitated	0.405 ha	0.405 ha	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	In 2018-19, 0.405 Ha area has been proposed for reclamation by backfilling of waste and rehabilitation by plantation in the exhausted part of Quarry Champajharan A & B.	In 2018-19, 0.405 Ha area has been reclaimed by backfilling of waste and rehabilitated by plantation in the exhausted part of Quarry Champajharan A & B.	In 2018-19, 0.405 Ha area has been reclaimed by backfilling of waste and rehabilitated by plantation in the exhausted part of Quarry Champajharan A & B.

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).	Annual report on PMCP to be submitted as per Rule 26 (2) of MCDR, 2017	Annual report on PMCP for the year 2018-19 have been submitted	Annual report on PMCP for the year 2018-19 have been submitted
6b	Area available for rehabilitation (ha) .	2.235 Ha as per approved FMCP	2.235 Ha	Nil
6c	afforestation done (ha).	2.235 Ha as per approved FMCP	2.235 Ha	Nil
6d	No. of saplings planted during the year	4000 nos	5364 nos within lease area	Nil

6e	Cumulative no .of plants	18000 nos	19364 nos	Nil
6f	Any other method of rehabilitation	Not proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 500000	Rs 500000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.405 Ha	0.405 Ha	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.405 Ha	0.405 Ha	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.405 Ha	0.405 Ha	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Monitoring	Quarterly Monitoring	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	During the year 2.35 ha of mined out area have been proposed for reclamation and rehabilitation	During the year 2.35 ha of mined out area have been reclaimed and rehabilitated.	During the year 2.35 ha of mined out area have been reclaimed and rehabilitated.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area.	Grade wise sorting within lease area.	Grade wise sorting within lease area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines.	Grade wise sorting within lease area.	Lumps: (a) Below 55% Fe (b) 55% to below 58% Fe (c) 58% to below 60% Fe Fines: (a) Below 55% Fe (b) 55% to below 58% Fe (c) 58% to below 60% Fe	Data as furnishe din annual return for 2018-19

7d	Any beneficiation process at mines	No beneficiation plant within the lease area.	No beneficiation plant within the lease area.	No beneficiation plant within the lease area.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade wise sorting within lease area. No beneficiation plant within the lease area.	Grade wise sorting within lease area. No beneficiation plant within the lease area.	Grade wise sorting within lease area. No beneficiation plant within the lease area.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no proposal for top soil generation.	No top soil generated during the year	No top soil generated during the year
8b	Concurrent use or storage of topsoil	There is no proposal for top soil generation.	No top soil generated during the year	No top soil generated during the year
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste generated have been proposed for dumping in extension part of Dump-3 and backfilling of Quarry Champajharan A & B.	Waste generated have been dumped in extension part of Dump-3 and backfilled in Quarry Champajharan A & B	Waste generated have been dumped in extension part of Dump-3 and backfilled in Quarry Champajharan A & B
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in Quarry Champajharan A & B as proposed.	Backfilling done in Quarry Champajharan A & B as proposed.	Backfilling done in Quarry Champajharan A & B as proposed.



8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.405 Ha	0.405 Ha	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not Specified	5364 nos of sapling planted within the lease area as furnished in annual return of 2018-19.	5364 nos of sapling planted within the lease area as furnished in annual return of 2018-19.
8g	Survival rate	Not specified	90% within lease area	Data as furnished in annual return of 2018-19
8h	Water sprinkling on roads to control airborne dust	Regular water spraying	Regular water sprinkling is being done.	Regular water sprinkling is being done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not Specified	Aesthetic beauty in and around mines has been maintained.	Aesthetic beauty in and around mines has been maintained.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns and annual return for 2018-19 have been submitted.	Monthly returns and annual return for 2018-19 have been submitted.	Monthly returns and annual return for 2018-19 have been submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Manager, Mining Engineer and Geologist furnished in annual return for 2018-19	Manager, Mining Engineer and Geologist have been appointed in mines.	Manager, Mining Engineer and Geologist have been appointed in mines.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area (surface area) utilization at the end of the year as furnished in revised annual return for 2018-19. Covered under current working: 34.742 ha, Used for waste disposal: 6.03 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 7.326 Ha etc.	Lease area (surface area) utilization at the end of the year as furnished in revised annual return for 2018-19. Covered under current working: 34.742 ha, Used for waste disposal: 6.03 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 7.326 Ha etc.	Violation was issued under rule 45 (7) of MCDR 2017. Revised annual return for 2018-19 have been submitted.
9d	Scrutiny of Annual return on afforestation	5364 nos of sapling planted within lease area as furnished in annual return of 2018-19.	5364 nos of sapling planted within lease area as furnished in annual return of 2018-19.	5364 nos of sapling planted within lease area as furnished in annual return of 2018-19.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	In 2018-19, Quantity of mineral reject generated as furnished in revised annual return is 31460 tones having Fe between 45% to below 50% Fe have been blended with high grade ROM.	In 2018-19, Quantity of mineral reject generated as furnished in revised annual return is 31460 tones having Fe between 45% to below 50% Fe have been blended with high grade ROM.	Mineral reject generated have been blended with high grade ROM.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of ROM as furnished in annual return of 2018-19 is 164730 tones	Closing stock of ROM as furnished in annual return of 2018-19 is 164730 tones	Closing stock of ROM as furnished in annual return of 2018-19 is 164730 tones

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	x-mine rice (in Rs per tonne) Lumps : Grades (% of Fe content) 1). Below 55% Fe: Rs 2875, 2). 55% to below 58% Fe: Rs 2783 3). 58 to below 60% Fe: Rs 3477 Fines : Grades (% of Fe content) a). 55% to below 58% Fe: Rs 403, b). 58% to below 60% : Rs 594 Production cost: Rs 2120.00 per tonne.	Ex-mine rice (in Rs per tonne) Lumps : Grades (% of Fe content) 1). Below 55% Fe: Rs 2875, 2). 55% to below 58% Fe: Rs 2783 3). 58 to below 60% Fe: Rs 3477 Fines : Grades (% of Fe content) a). 55% to below 58% Fe: Rs 403, b). 58% to below 60% : Rs 594 Production cost: Rs 2120.00 per tonne.	x-mine rice (in Rs per tonne) Lumps : Grades (% of Fe content) 1). Below 55% Fe: Rs 2875, 2). 55% to below 58% Fe: Rs 2783 3). 58 to below 60% Fe: Rs 3477 Fines : Grades (% of Fe content) a). 55% to below 58% Fe: Rs 403, b). 58% to below 60% : Rs 594 Production cost: Rs 2120.00 per tonne.
9h	Scrutiny of Annual return on fixed assets	Rs 454023334 as furnished in annual return of 2018-19	Rs 454023334 as furnished in annual return of 2018-19	Rs 454023334 as furnished in annual return of 2018-19

9k	Scrutiny of Annual return on mining machineries	Tata Hitachi EX 200 (1 cum capacity): 2 nos; Tata Hitachi Xaxis 470 (2.5 cum capacity): 2 nos; Tata Hitachi 350 (1.6 cum capacity): 2 nos; HM Loader (1.8 cum capacity): 4 nos; Tata Loader (1.8 cum capacity): 1 no; wagon drill (110mm): 1 no etc.	Tata Hitachi EX 200 (1 cum capacity): 2 nos; Tata Hitachi Xaxis 470 (2.5 cum capacity): 2 nos; Tata Hitachi 350 (1.6 cum capacity): 2 nos; HM Loader (1.8 cum capacity): 4 nos; Tata Loader (1.8 cum capacity): 1 no; wagon drill (110mm): 1 no etc.	Tata Hitachi EX 200 (1 cum capacity): 2 nos; Tata Hitachi Xaxis 470 (2.5 cum capacity): 2 nos; Tata Hitachi 350 (1.6 cum capacity): 2 nos; HM Loader (1.8 cum capacity): 4 nos; Tata Loader (1.8 cum capacity): 1 no; wagon drill (110mm): 1 no etc.
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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
Rule 26(1)	21/02/2020	02/07/2020			
Rule 26(2)	21/02/2020	02/07/2020			
Rule 45(5)	21/02/2020	02/07/2020			

Date :

*Sudip Ranjan Mazumdar*  
02/07/2020  
(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines