

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-9/BBS

Mine code : 30ORI08003

- (i) Name of the Inspecting Officer and ID No. : U11) DAYANAND UPADHYAY
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine Official with Designation : Shri Promod Kumar Dehury, Mines Manager
- (iv) Date of Inspection : 30/10/2019
- (v) Prev.inspection date : 18/04/2018

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BALDA BLOCK
- (b) Registration NO. : IBM/5624/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : BALDA
- Taluka : BARBIL
- Post office : BALDA
- Pin Code : 758034
- FAX No. : (0674) 2301898
- E-mail : info@serajuddinmines.com
- Phone : 06767-73452
- (f) Police Station : BAMEBARI
- (g) First opening date : 02/06/1962
- (h) Weekly day of rest : MON
2. Address for correspondance : BALDA BLOCK IRON MINE. AT: BALDA
PO: PALSIA, DIST; KEONJHAR
PIN: 758034
3. (a) Lease Number : ORI0096
- (b) Lease area : 335.84
- (c) Period of lease : 50
- (d) Date of Expiry : ~~20/12/2017~~ 31.03.2020 (As per section 8A(6) of Ammendment MMDR Act 2015)
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : SERAJUDDIN & CO.
 Balda Block Iron Mines
 At/Po-Balda, P.S-Bamebari
 Dist-Keonjhar, State-Odisha
 KEONJHAR ORISSA
 Phone:(033) 22315652
 FAX :(0674)2301898

Owner : SERAJ YUSHA, JOINT MANAGING PARTNER
 At-N-4/135, IRC Village,
 Nayapalli. Bhubaneswer
 Odisha KEONJHAR ORISSA
 Phone: 9438887898
 FAX : 0674-2301898

Agent : NIHAR RANJAN NAYAK
 Balda Block Iron Mines
 At/Po-Balda, P.S-Bamebari
 Odisha KEONJHAR ORISSA
 Phone: 9438887838
 FAX : (0674)2301898

Mining Engineer
 Name : ANJAN KUMAR SAHOO, Full Time
 Qualification : AMIE, FCC
 Appointment/ : 21/09/2012
 Termination date

Geologist
 Name : SAURAV KUMAR SAHOO, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 08/10/2014
 Termination date

Manager
 Name : P K DEHURY
 Qualification : AMIE, FCC
 Appointment/ : 21/09/2012
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	11/06/2004
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04/02/2009
	:	Mining Scheme rule 12 MCDR1988	27/04/2012
	:	MP review under 17(1) MCR 2016	08/11/2016
	:	MP modif under 17(3) MCR 2016	17/07/2017
	:	MS modif under MCR 1960	25/09/2018
	:	FMCP under 23C(1)	31/10/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	55 nos. of bore holes in 2018-19	Total 55 nos. of bore holes have been drilled by lessee in 2018-19 & 2019-20 after obtaining the forest clearance.	There is no backlog.
1b	Exploration over lease area for geological axis 1 or 2	About 157.362 ha under G2 level.	Lessee has completed the exploration in proposed 157.362 ha under G2 level of exploration.	Lessee has completed the exploration in proposed 157.362 ha under G2 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	Exploration agency involved in drilling was M/s Triveni Exploration Ltd. Cost incurred in drilling was 2.70 lakh.	Exploration agency involved in drilling was M/s Triveni Exploration Ltd. Cost incurred in drilling was 2.70 lakh.
1d	Balance area to be explored to bring Geological axis in 1 or 2	About 157.362 ha under G2 level.	Lessee has completed the exploration in proposed 157.362 ha under G2 level of exploration.	Total lease area 335.594 ha has explored under G1/G2 level of exploration.
1e	Balance reserve as on 01/04/20	Balance reserve as per Modification of review of mining plan approved on 01/07/2018 was: Iron ore-167.214MT under proved (111 & 122) category and 104.384MT was under remaining resources	Balance reserve as on 01/04/2019 as annual return 2018-19 after revising the reserve & resources in GR report, Iron ore-131.606MT under proved (111 & 122) category and 87.391MT was under remaining resources	Balance reserve as on 01/04/2019 as annual return 2018-19 after revising the reserve & resources in GR report, Iron ore-131.606MT under proved (111 & 122) category and 87.391MT was under remaining resources

1f	General remarks of inspecting officers on geology, exploration etc	55 nos. of bore holes in 2018-19, area 157.362 ha under G2 level of exploration.	Total 55 nos. of bore holes have been drilled by lessee in 2018-19 & 2019-20 after obtaining the forest clearance. Lessee has completed the exploration in proposed 157.362 ha under G2 level of exploration.	Total lease area 335.594 ha has explored under G1/G2 level of exploration.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block-A: between grid 2419200 to 2419610 & 335150-335490, Kalimati pit: between grid 2419596 to 2419343 & 335119-335508, Block-F1: between grid 2419700 to 2420420 & 336350-335980	Block-A: between grid 2419200 to 2419610 & 335150-335490, Kalimati pit: between grid 2419596 to 2419343 & 335119-335508, Block-F1: between grid 2419700 to 2420420 & 336350-335980	Development is as per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore, top soil bench not proposed.	No benches in top soil. Separate benches in OB and ore maintained.	No benches in top soil. Separate benches in OB and ore maintained.
2c	Stripping ratio or ore to OB ratio	Average stripping ratio 1:0.287	1:0.067 T/cu.m	Average stripping ratio varies due to irregular nature of ore deposit and less ROM production.
2d	Quantity of topsoil generation in m3	Not Proposed	Nil.	Top soil not proposed as the development is concentrated in broken up area.

2e	Quantity of overburden generation in m3	1068372 cu.m	629866 cu.m	Less OB generated due to less ROM production.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development is proposed in three pits i.e Block-A, Kalimati pit, Block-F1	The development is carried out in three pits i.e Block-A, Kalimati pit, Block-F1	Development is carried out as per proposal.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	The production proposed from three pits i.e Block-A, Kalimati pit, Block-F1	The ROM production is carried out from three pits i.e Block-A, Kalimati pit, Block-F1.	The ROM production is carried out from three pits i.e Block-A, Kalimati pit, Block-F1.
3b	Quantity of ROM mineral production proposed	13.49 million tonnes	9.36 million tonnes in 2018-19.	ROM production is less than the proposal as per market demand.
3c	Recovery of sailable/usable mineral from ROM production	10.60 million tonnes	9.36 million tonnes in 2018-19.	Total ROM is saleable as the mineral reject generated during mining is blended with high grade ore.
3d	Quantity of mineral reject generation	2.88 million tonnes.	The mineral reject generated have been blended with high grade ROM.	The mineral reject generated have been blended with high grade ROM.
3e	Grade of mineral rejects generation and threshold value declared.	45-55% Fe	The mineral reject generated have been blended with high grade ROM.	The mineral reject generated have been blended with high grade ROM.
3f	Quantity of sub grade mineral generation.	2.88 million tonnes.	The mineral reject generated have been blended with high grade ROM.	The mineral reject generated have been blended with high grade ROM.

3g	Grade of sub grade mineral generation	45-55% Fe	The mineral reject generated have been blended with high grade ROM.	The mineral reject generated have been blended with high grade ROM.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Mechanised method is practiced.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Only crushing and screening is being carried out at mines site.	Only crushing and screening is being carried out at mines site.
3j	Provision of drilling and blasting in mineral benches	DTH drilling of 102mm dia. Blast hole with site mixed Slurry explosives/SME for blasting.	Drilling is carried out with DTH drilling of 102mm dia. and Site mixed Slurry explosives/SME is being used for blasting initiated by detonator & shock tube initiation system.	Drilling is carried out with DTH drilling of 102mm dia. and Site mixed Slurry explosives/SME is being used for blasting initiated by detonator & shock tube initiation system.
3k	Provision of mining machineries in mineral benches	SHOVEL HYDRAULIC (LOADER & EXCAVATOR) 10/9/6/4.6 cu.m-27, DUMPER 85/35T- 3 58, CRUSHER- 14, WATER SPRINKLER-3, DRILL MACHINE- 4	SHOVEL (HYDRAULIC) 9/4.5/4.2/3/1 cu.m- 37, DUMPER 100/85/50/31T-35, CRUSHER-14, WATER TANKER -10, ROCK DRILL (NON-ELEC.) 115.000 MM-	Excavator, Loader and Dumper are equipped to winning out the mineral.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height- 10m	Bench height is suitably matched with the excavator.	Bench height is suitably matched with the excavator.

3m	Total area covered under excavation/pits	134.215 ha proposed during approved plan period.	About 131.011 ha area has been covered under excavation pits.	About 131.011 ha area has been covered under excavation pits.																								
3n	Ore to OB ratio for the pit/mine during the year.	Average stripping ratio 1:0.287	1:0.067 T/cu.m	Average stripping ratio varies due to irregular nature of ore deposit and less ROM production.																								
3o	Total area put in use under different heads at the end of year	Area proposed under different heads are Pit-134.215 ha, waste dump-8.910 ha, Plant, Mineral storage-15.399 ha, residential & building-0.783ha, roads-12.18ha, Crushing/ Screening Unit -1.383 ha & others -8.763 ha.	Area covered under different heads are Pit-131.011 ha, waste dump-11.110 ha, Plant, residential & building, roads-13.881ha & others -50.011 ha.	Area covered under different heads are Pit-131.011 ha, waste dump-11.110 ha, Plant, residential & building, roads-13.881ha & others -50.011 ha.																								
3p	Production of ROM mineral during the last five year period as applicable	<table border="1"> <thead> <tr> <th>Year</th> <th>Qty. (In Mt.)</th> </tr> </thead> <tbody> <tr> <td>2014-15</td> <td>12.75</td> </tr> <tr> <td>2015-16</td> <td>15.05</td> </tr> <tr> <td>2016-17</td> <td>15.16</td> </tr> <tr> <td>2017-18</td> <td>15.15</td> </tr> <tr> <td>2018-19</td> <td>13.49</td> </tr> </tbody> </table>	Year	Qty. (In Mt.)	2014-15	12.75	2015-16	15.05	2016-17	15.16	2017-18	15.15	2018-19	13.49	<table border="1"> <thead> <tr> <th>Year</th> <th>Qty. (In Mt.)</th> </tr> </thead> <tbody> <tr> <td>2014-15</td> <td>6.490</td> </tr> <tr> <td>2015-16</td> <td>10.290</td> </tr> <tr> <td>2016-17</td> <td>10.790</td> </tr> <tr> <td>2017-18</td> <td>9.017</td> </tr> <tr> <td>2018-19</td> <td>9.36</td> </tr> </tbody> </table>	Year	Qty. (In Mt.)	2014-15	6.490	2015-16	10.290	2016-17	10.790	2017-18	9.017	2018-19	9.36	ROM Production is less due to low market demand.
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3q	General remarks of inspecting officers on method of mining etc.	Excavation of ROM has been proposed from three pits i.e Block-A, Kalimati pit, Block-F1	The ROM production has been carried out from three pits i.e Block-A, Kalimati pit, Block-F1. DTH drilling of 102mm dia. Blast hole with emulsion/ slurry explosive alongwith delay detonator is being practiced for drilling and blasting.	Fully mechanised opencast method of mining is practised. Mineral reject generated have been blended with high grade ROM.																								

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for top soil generation. Separate dumping of OB and Mineral reject	Top soil generation was Nil. Mineral reject generated have been utilized by blended with high grade ROM. Separate dumping of overburden.	Mineral reject generated have been utilized by blended with high grade ROM.
4b	Location of topsoil, OB and mineral reject dumps	New Waste Dump near pillar 49 between grid 334430-334651 to 2420631-2420410 & Dump-3 in northern part of block F1, Top soil dump not proposed.	New Waste Dump near pillar 49 between grid 334430-334651 to 2420631-2420410 & Dump-3 in northern part of block F1.	The 90% of mineral reject generated durin mining has been prosed for blending & rest 10% has been proposed for temorary stacked near pits. However it has been observed that total mineral reject generated durin mining has been blended with high grade ores.
4c	Number of dumps within lease area and outside of lease area	New Waste Dump near pillar 49 between grid 334430-334651 to 2420631-2420410 & Dump-3 in northern part of block F1	Three are four numbers of waste dumps namely New Waste Dump near pillar 49, waste dump-1, waste dump-2 & waste dump-3 within lease area.	Three are four numbers of waste dumps namely New Waste Dump near pillar 49, waste dump-1, waste dump-2 & waste dump-3 within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	New Waste Dump near pillar 49 between grid 334430-334651 to 2420631-2420410 & Dump-3 in northern part of block F1	New Waste Dump near pillar 49, Dump-1 near Kalimati pit, Dump-2 in western part of block-A, Dump-3 near F1 block are located outside the UPL.	There are 06 mineral reject dumps located near workshop, office, pit-1, 4, 6 & quarry-6 which are disposed off time to time as per market requirement.
4e	Number of active and alive dumps.	02 dumps	02 dumps	Two active dumps, New Waste Dump near pillar 49 between grid 334430-334651 to 2420631-2420410 & Dump-3 in northern part of block F1

4f	Number of dead dumps.	02 dumps	02 dead dumps, Dump-1 near Kalimati pit, Dump-2 in western part of block-A have been partially rehabilitated by plantation.	02 dead dumps, Dump-1 near Kalimati pit, Dump-2 in western part of block-A have been partially rehabilitated by plantation.
4g	Number of dumps established.	02 dead dumps	02 dead dumps, Dump-1 near Kalimati pit, Dump-2 in western part of block-A have been partially rehabilitated by plantation.	02 dead dumps, Dump-1 near Kalimati pit, Dump-2 in western part of block-A have been partially rehabilitated by plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	Total Retaining wall 920m x 2.0m x 1.5m & Garland drain 550m x 1.5m x 1.0m around proposed dump at block-G for block-A & around the waste dump in block-F1.	About 50% of proposed retaining wall and garland drain around dump at block-G for block-A has not been completed.	Violation of retaining wall and garland drain have been pointed out to the lessee.
4i	Length of Retaining wall or garland drain all along dumps	Total Retaining wall 920m x 2.0m x 1.5m & Garland drain 550m x 1.5m x 1.0m around proposed dump at block-G for block-A & around the waste dump in block-F1.	About 50% of proposed retaining wall and garland drain around dump at block-G for block-A has not been completed.	Violation of retaining wall and garland drain have been pointed out to the lessee.
4j	Number of settling ponds	one Settling pond	Settling pond constructed as proposed.	Settling pond constructed as proposed.

4k	Specific comments of inspecting officer on waste dump management	New Waste Dump near pillar 49 between grid 334430-334651 to 2420631-2420410 & Dump-3 in northern part of block F1	Slope of the dead dump has been stabilised by plantation. The dead dump has been rehabilitated by plantation.	About 50% of proposed retaining wall and garland drain around dump at block-G for block-A has not been completed. Violation of retaining wall and garland drain have been pointed out to the lessee.
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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.	Backfilling	Only 0.12 ha area has been backfilled. 2.0 ha area in eastern part of block F-1	Shortcomings of backfilling has been pointed out through violation letter.
5b	Area under backfilling of mined out area	Backfilling	Only 0.12 ha area has been backfilled. 2.0 ha area in eastern part of block F-1	Shortcomings of backfilling has been pointed out through violation letter.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Only Backfilling of	Only 0.12 ha area has been backfilled. 2.0 ha area in eastern part of block F-1	Shortcomings of backfilling has been pointed out through violation letter.
5d	Total area fully reclaimed and rehabilitated	Only Backfilling of	Only 0.12 ha area has been backfilled. 2.0 ha area in eastern part of block F-1	Shortcomings of backfilling has been pointed out through violation letter.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Only Backfilling of	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area. eastern part of block F-1	Shortcomings of backfilling has been pointed out through violation letter.

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.	Annual return on PMCP has been submitted.	Annual return on PMCP has been submitted.
6b	Area available for rehabilitation (ha) .	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
6c	afforestation done (ha) .	1.90 ha	In 2018-19, total area cover under afforestation is about 2.0 ha.	In 2018-19, total area cover under afforestation is about 2.0 ha.
6d	No. of saplings planted during the year	4750	In 2018-19, total 6800 nos. of saplings have been planted by lessee.	In 2018-19, total 6800 nos. of saplings have been planted by lessee.
6e	Cumulative no .of plants	Not specified.	Cumulative nos. of saplings planted in the lease area is about 313518.	Cumulative nos. of saplings planted in the lease area is about 313518.
6f	Any other method of rehabilitation	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
6g	Cost incurred on watch and care during the year	Not specified,	Around Rs 7.5 lakh cost incurred on watch and care.	Around Rs 7.5 lakh cost incurred on watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed.	Nil.	No waste land proposed for rehabilitation.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	Nil.	No waste land proposed for rehabilitation.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Nil.	No waste land proposed for rehabilitation.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring	Quarterly monitoring of air, water and noise level are being carried out.	Quarterly monitoring of air, water and noise level are being carried out.

6g	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting.	Gradewise sorting is being practiced.	Gradewise sorting is being practiced.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	Mechanised method is practiced.
7c	Different grade of mineral sorted out at mines.	45% to 55% Fe and +55% Fe.	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% to 65% Fe.	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% to 65% Fe.
7d	Any beneficiation process at mines	Not proposed.	Only dry processing and screening of ROM is being practiced.	Only dry processing and screening of ROM is being practiced.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Gradewise sorting of ore is proposed 45% to 55% Fe and +55% Fe..	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% to 65% Fe.	Only dry processing and screening of ROM is being practiced. There is no wet beneficiation process.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	There is no top top soil generation as the mining is proposed in broken up area.	There is no top top soil generation as the mining is proposed in broken up area.
8b	Concurrent use or storage of topsoil	Not proposed.	There is no top top soil generation as the mining is proposed in broken up area.	There is no top top soil generation as the mining is proposed in broken up area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping overburden, mineral reject and fines stack	Mineral reject generated has been blended with high grade ROM. Overburden material generated has been dumped in waste dump in Block A and Block F1 as per proposal.	Mineral reject generated has been blended with high grade ROM. Overburden material generated has been dumped in waste dump in Block A and Block F1 as per proposal.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Only Backfilling of 2.0 ha area in eastern part of block F-1	Only 0.12 ha area has been backfilled against the approved proposal of 2.0 ha area.	Shortcomings of backfilling has been pointed out through violation letter.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	4750 nos. of saplings in 2018-19.	Total 6800 nos. saplings have been planted in 2018-19. Cumulative 313518 nos. have been planted by lessee .	Total 6800 nos. saplings have been planted in 2018-19. Cumulative 313518 nos. have been planted by lessee .
8g	Survival rate	Not specified.	As reported survival rate is 75%.	As reported survival rate is 75%.

8h	Water sprinkling on roads to control airborne dust	Water tanker and fixed water sprinkler.	Water tanker and fixed water sprinkler of 7 km along haul road are used to control air borne dust.	Water tanker and fixed water sprinkler of 7 km along haul road are used to control air borne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	4750 nos. of saplings in 2018-19 to maintain the aesthetic beauty.	Aesthetic beauty in and around mined area is maintained plantation. Total 6800 nos. saplings have been planted in 2018-19. Cumulative 313518 nos. have been planted by lessee .	Aesthetic beauty in and around mines area is maintained by plantation.

Compliance of Rule 45:

Sl.No.	Item	Proposals	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.	Monthly & Annual returns are being regularly submitted by lessee.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The employment status of mining engineer, geologist & mine manager have been furnished in the annual return	Mining engineer, geologist & mine managers were employed in the mine.	Mining engineer, geologist & mine managers were employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under different heads are Pit-131.011 ha, waste dump-11.110 ha, Plant, residential & building, roads-13.881ha & others - 50.011 ha.	Area covered under different heads are Pit-131.011 ha, waste dump-11.110 ha, Plant, residential & building, roads-13.881ha & others -50.011 ha.	Area covered under different heads are Pit-131.011 ha, waste dump-11.110 ha, Plant, residential & building, roads-13.881ha & others -50.011 ha.

9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year 6800 nos.	Number of trees planted during the year 6800 nos.	Number of trees planted during the year 6800 nos.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject Generation is Nil	Mineral reject Generation is Nil	Mineral reject Generation is Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock of ROM is 1318948.160 tonnes and Dump Workings- 1547854.730 tonnes.	Closing Stock of ROM is 1318948.160 tonnes and Dump Workings- 1547854.730 tonnes.	Closing Stock of ROM is 1318948.160 tonnes and Dump Workings- 1547854.730 tonnes.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price (in Rs. Per Tonne) Lumps (Grades (% of Fe content) (i) 58% to below 60%: Rs 1724.00 (ii) 62% to below 65%: Rs 3452.00 Fines (Grades (% of Fe content) (i) 62% to below 65%: Rs 1872.00	Ex-mine price (in Rs. Per Tonne) Lumps (Grades (% of Fe content) (i) 58% to below 60%: Rs 1724.00 (ii) 62% to below 65%: Rs 3452.00 Fines (Grades (% of Fe content) (i) 62% to below 65%: Rs 1872.00	Ex-mine price (in Rs. Per Tonne) Lumps (Grades (% of Fe content) (i) 58% to below 60%: Rs 1724.00 (ii) 62% to below 65%: Rs 3452.00 Fines (Grades (% of Fe content) (i) 62% to below 65%: Rs 1872.00
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs) 527639060/-	Value of Fixed Assets (in Rs) 527639060/-	Value of Fixed Assets (in Rs) 527639060/-

9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 9/4.5/4.2/3/1 cu.m- 37, DUMPER 100/85/50/31T- 35, CRUSHER- 14, WATER TANKER -10, ROCK DRILL (NON-ELEC.) 115.000 MM- 3	SHOVEL (HYDRAULIC) 9/4.5/4.2/3/1 cu.m- 37, DUMPER 100/85/50/31T-35, CRUSHER-14, WATER TANKER -10, ROCK DRILL (NON-ELEC.) 115.000 MM- 3	SHOVEL (HYDRAULIC) 9/4.5/4.2/3/1 cu.m- 37, DUMPER 100/85/50/31T-35, CRUSHER-14, WATER TANKER -10, ROCK DRILL (NON-ELEC.) 115.000 MM- 3
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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
	Violation of rule 11(1) is issued on 13.11.2019.		
	Date : 02-12-2019		<i>Dayanand Upadhyay</i> (DAYANAND UPADHYAY)

Indian Bureau of Mines