

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-85/BBS

Mine code : 30ORI08113

- (i) Name of the Inspecting : **U11**) **DAYANAND UPADHYAY**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Mahendra Kumar Mohanty, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 25/12/2019
- (v) Prev.inspection date : 11/09/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KHANDBANDH IRON ORE MINE**
- (b) **Registration NO.** : **IBM/4135/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : KHANDBANDH
- Taluka : BARBIL
- Post office : KHANDBANDH
- Pin Code : 758035
- FAX No. : 06767275529
- E-mail : sml@sreemetaliks.com
- Phone : 06767275529
- (f) Police Station : Bamebari
- (g) First opening date : 21/03/2018
- (h) Weekly day of rest : SUN
2. Address for : SHREE METALIKS LIMITED
correspondance : SML HOUSE, MAIN ROAD, BARBIL
DIST- KEONJHAR
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S SREE METALIKS LIMITED
 KEONJHAR ORISSA
 Phone:
 FAX :

Owner : M/S SREE METALIKS LTD
 KEONJHAR ORISSA
 Phone:
 FAX :

Agent : Mr. Mahesh Kumar Agarwal
 SML House, Main Road ,
 Barbil, KEONJHAR ORISSA
 Phone: 9437075129
 FAX : 6767275529

Mining Engineer

Name : Sri Subit Kumar Sahu, Full Time
 Qualification : B.Tech in Mining
 Appointment/ : 29/03/2018
 Termination date

Geologist

Name : Sri Ranjan Kumar Moharana, Full Time
 Qualification : M.sc in Applied Geology
 Appointment/ : 29/03/2018
 Termination date

Manager

Name : Sri Mahendra Kumar Mohanty
 Qualification : Diploma in Mining (First Class Manager C
 Appointment/ : 29/03/2018
 Termination date

6. Date of approval of Mining : MP modif under 17(3) MCR 2016 12/10/2018
 Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of bore holes for the years 2018-19.	Total 25 nos of bore holes have been drilled during the year 2018-19.	Due to delay in commencement of mining operation proposed bore holes of 2016-17 and 2017-18 were completed in 2018-19.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of bore holes for the years 2018-19.	Actual work: About 24.775 ha area covered under G1 level and 10.999 ha area covered under G2 level of exploration by putting 25 nos of bore holes of total 1469.40 m during the year 2018-19.	Total lease area is explored under G1/G2 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal of bore holes for the years 2018-19.	Exploration agency involved in drilling was Thriveni earth movers pvt ltd and expenditure incurred during drilling was Rs 5884706 /-	Due to delay in commencement of mining operation proposed bore holes of 2016-17 and 2017-18 were completed in 2018-19.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal of bore holes for the years 2018-19.	Total lease area has been explored under G1/G2 level of exploration.	Further about 10.999 ha area of G2 level of exploration has been proposed to convert under G1 level.
1e	Balance reserve as on 01/04/20	As per approved Modification of mining plan dated 12.10.2018, Reserve:- 6401848T (111) and 3656680T(122) and Resources : 5984545T	Balance reserve as on 01/04/2019, Reserve:- 5787908T (111) and 3656680T(122) and Resources : 5984545T	Balance reserve as on 01/04/2019, Reserve:- 5787908T (111) and 3656680T(122) and Resources :

1f	General remarks of inspecting officers on geology, exploration etc	No proposal of bore holes for the years 2018-19.	About 24.775 ha area covered under G1 level and 10.999 ha area covered under G2 level of exploration by putting 25 nos of bore holes of total 1469.40 m during the year 2018-19.	Total lease area is 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	Quarry-1, N-2429250 to 2429650, E-332000 to 332340	The development is concentrated in Quarry-1between grid N- 2429250 to 2429650, E-332000 to 332340.	The development is as per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of separate benches.	All the benches are mixed with ore. Benches in ore of 6m height have been maintained.	There is no separate benches of Top soil & Overburden. All the proposed benches are in mixed ore zone.
2c	Stripping ratio or ore to OB ratio	1:0.375 T/cu.m	1:0.029 T/cu.m	There is no generation of OB proposed in approved scheme of mining except intercalated waste, as all the benches are in ore zone. The generation of intercalated waste for the year 2018-19 is less due to less ROM production.
2d	Quantity of topsoil generation in m3	Not proposed	Not applicable.	There is no top soil generation.
2e	Quantity of overburden generation in m3	Intercalated waste 117005.5 Cum	8861.5 Cum	Less Intercalated waste handled due to mixed benches of waste and ore and less ROM production.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Quarry-1, N-2429250 to 2429650, E-332000 to 332340	The development is concentrated in Quarry-1 between grid N- 2429250 to 2429650, E-332000 to 332340.	The development is as per proposal.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit	Working is concentrated in single pit, Qyarry-1 as proposed.	Working is concentrated in single pit, Qyarry-1 as proposed.
3b	Quantity of ROM mineral production proposed	623233T	ROM production reported in 2018-19 is 613940 T	ROM Production is less due to delay in commencement of mining operation.
3c	Recovery of sailable/usable mineral from ROM production	435864 T	429758T	Production is less due to delay in commencement of mining operation.
3d	Quantity of mineral reject generation	187369 T	4075T	Production is less due to delay in commencement of mining operation.
3e	Grade of mineral rejects generation and threshold value declared.	+45% Fe to 55% Fe	Mineral reject/sub grade generated during 2018-19 is 4075T between +45% Fe to 55% Fe.	Mineral reject generation is low due to less ROM production as proposed.
3f	Quantity of sub grade mineral generation.	187369 T	4075T	Production is less due to delay in commencement of mining operation.
3g	Grade of sub grade mineral generation	+45% Fe to 55% Fe	Mineral reject/sub grade generated during 2018-19 is 4075T between +45% Fe to 55% Fe.	Mineral reject generation is low due to less ROM production as proposed.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Mechanised method is adopted.

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.	The lessee is having a beneficiation plant as well pellet plant of 1.2MTPA capacity nearby Keonjhar. The mineral rejects generated from the mine is sent to the plant for up-gradation of ore upto 60%Fe.
3j	Provision of drilling and blasting in mineral benches	Deep holes blasting with nitrate mixture such as Power gel explosive used alongwith delay detonator.	Deep holes drilling and blasting is practiced with nitrate mixture such as Power gel explosive alongwith delay detonator.	Deep holes drilling and blasting is practiced with nitrate mixture such as Power gel explosive alongwith delay detonator.
3k	Provision of mining machineries in mineral benches	Mobile Crushing & Screening-4, Drill Machine-1, Excavator 3.2/2.1 cu.m-3, Dumper 30T-6, Wheel Loader-1, Rock breaker, Dozer.	Machineries used at mine site are Mobile Crushing & Screening-4, Drill Machine-1, Excavator 3.2/2.1 cu.m-3, Dumper 30T-6, Wheel Loader-1, Rock breaker, Dozer.	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-6m	Bench height is suitably matched with the excavator.	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation/pits	20.157 ha proposed during approved plan period.	About 5.969ha area has been covered under excavation pits.	About 5.969ha area has been covered under excavation pits.

3n	Ore to OB ratio for the pit/mine during the year.	1:0.375 T/cu.m 1:0.029 T/cu.m.	There is no generation of OB proposed in approved scheme of mining except intercalated waste, as all the benches are in ore zone. The generation of intercalated waste for the year 2018-19 is less due to less ROM production.	
3o	Total area put in use under different heads at the end of year	Total area proposed under different heads are Pit-20.157ha, waste dump-0.14ha, Infrastructure -0.78ha, roads-0.95ha & Mineral storage, plantation & others -1.38 ha.	Area covered under different heads are Pit-5.969ha, waste dump-0.14ha, Infrastructure-0.15ha, roads-0.35 ha.	Area covered under different heads are Pit-5.969ha, waste dump-0.14ha, Infrastructure-0.15ha, roads-0.35 ha.
3p	Production of ROM mineral during the last five year period as applicable	2014-15:- Nil 2015-16:- Nil 2016-17:- 42504 MT 2017-18:- 144900 MT 2018-19:- 623233 MT	2014-15:- Nil 2015-16:- Nil 2016-17:- Nil 2017-18:- 42240 MT 2018-19:- 613940 MT	ROM Production is within the proposed limit.
3q	General remarks of inspecting officers on method of mining etc.	Mechanized method of opencast mining. Excavation of ROM has been proposed in Quarry-1.	Mechanized method of mining is practiced with excavator dumper combination. Excavation of ROM has been concentrated in Quarry-1 as per proposal.	Excavation of ROM has been concentrated in Quarry-1 as per proposal.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB/waste proposed to back-fill in the quarry-1. Separate dumping for mineral reject in the south western part of the lease area between N-2429135 to 2429198 & E-332078 to 332232. No top soil generation proposed.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced. Separate dumping for mineral reject in the south western part of the lease area carried out between N-2429135 to 2429198 & E-332078 to 332232.	The waste generated during mining has been utilized in road maintenance and in retaining wall. There is no top soil generation. The deviation of backfilling has been pointed out through violation letter.
4b	Location of topsoil, OB and mineral reject dumps	OB/waste proposed to back-fill in the quarry-1 between grid N-2429240 to 2429400 & E-332147 to 332241. Separate dumping for mineral reject in the south western part of the lease area between N-2429135 to 2429198 & E-332078 to 332232. No top soil generation proposed.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced. Separate dumping for mineral reject in the south western part of the lease area carried out between N-2429135 to 2429198 & E-332078 to 332232.	The waste generated during mining has been utilized in road maintenance and in retaining wall. The deviation of backfilling has been pointed out through violation letter.
4c	Number of dumps within lease area and outside of lease area	One Mineral reject dump.	Mineral reject dumped in the south western part of the lease area outside UPL.	The waste generated during mining has been utilized in road maintenance and in retaining wall.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One Mineral reject dump.	Mineral reject dumped in the south western part of the lease area outside UPL.	The waste generated during mining has been utilized in road maintenance and in retaining wall.
4e	Number of active and alive dumps.	One Mineral reject dump.	Mineral reject dumped in the south western part of the lease area outside UPL.	The waste generated during mining has been utilized in road maintenance and in retaining wall.
4f	Number of dead dumps.	Not proposed.	There is no dead dump.	There is no dead dump.
4g	Number of dumps established.	Not proposed.	There is no dead dump.	There is no dead dump.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and a garland drain around dump and safety zone.	Proposed Retaining wall and a garland drain around dump and safety zone have been constructed partially.	Deviation of Retaining wall and a garland drain have been pointed to lessee through violation letter.
4i	Length of Retaining wall or garland drain all along dumps	500m Retaining wall and 580m garland drain around dump and safety zone.	Proposed Retaining wall and a garland drain around dump and safety zone have been constructed partially.	Deviation of Retaining wall and a garland drain have been pointed to lessee through violation letter.
4j	Number of settling ponds	02 nos. of settling ponds.	02 nos. of settling ponds.	Proposed settling ponds constructed by lessee.
4k	Specific comments of inspecting officer on waste dump management	OB/waste proposed to back-fill in the quarry-1.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The waste generated during mining has been utilized in road maintenance and in retaining wall. There is no top soil generation. The deviation of backfilling has been pointed out through violation letter.

Solid Waste Management - Backfilling:

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.	Proposed to back-fill the quarry-1, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
5b	Area under backfilling of mined out area	0.851 ha.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil proposed.	There is no generation of top soil.	There is no generation of top soil.
5d	Total area fully reclaimed and rehabilitated	Back-fill the quarry-1, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Back-fill the quarry-1, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.

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).	Not specified.	Annual return on PMCP has been submitted.	Annual return on PMCP has been submitted.

6b	Area available for rehabilitation (ha) .	Backfilling of 0.851 ha area only.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
6c	afforestation done (ha).	0.650 ha.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.	Afforestation is carried out as per proposal.
6d	No. of saplings planted during the year	1500 nos saplings.	In 2018-19, 2000 nos. of saplings have been planted by lessee.	In 2018-19, 2000 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 3500.	Cumulative nos. of saplings planted in the lease area is about 3500.
6f	Any other method of rehabilitation	Back-fill the quarry-1, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
6g	Cost incurred on watch and care during the year	Not specified.	Around Rs 1.2 lakh cost incurred on watch and care.	Around Rs 1.2 lakh cost incurred on watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Back-fill the quarry-1 of 0.851 ha area, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Back-fill the quarry-1 of 0.851 ha area, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Back-fill the quarry-1 of 0.851 ha area, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Back-fill the quarry-1 of 0.851 ha area, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Back-fill the quarry-1 of 0.851 ha area, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.650 ha virgin land by 1500 nos of sapling.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.650 ha virgin land by 1500 nos of sapling.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	0.650 ha virgin land by 1500 nos of sapling.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.
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.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Back-fill the quarry-1, between N-2429240 to 2429400 & E-332147 to 332241.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The deviation of backfilling has been pointed out through violation letter.
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Mineral Conservation:

Sl.No.	Item	Propasals	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.	Mechanized	Mechanized	Mechanized 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% Fe.	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% Fe.
7d	Any beneficiation process at mines .	Not proposed.	Only crushing and screening is being carried out at mines site.	The lessee is having a beneficiation plant as well pellet plant of 1.2MTPA capacity nearby Keonjhar. The mineral rejects generated from the mine is sent to the plant for up-gradation of ore upto 60%Fe.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Gradewise sorting.	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% Fe.	The lessee is having a beneficiation plant as well pellet plant of 1.2MTPA capacity nearby Keonjhar. The mineral rejects generated from the mine is sent to the plant for up-gradation of ore upto 60%Fe.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Nil.	No top top soil generation is proposed.
8b	Concurrent use or storage of topsoil	Not proposed.	Nil.	No top top soil generation is proposed.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB/waste proposed to back-fill in the quarry-1 between grid N-2429240 to 2429400 & E-332147 to 332241. Separate dumping for mineral reject in the south western part of the lease area between N-2429135 to 2429198 & E-332078 to 332232.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced. Separate dumping for mineral reject in the south western part of the lease area carried out between N-2429135 to 2429198 & E-332078 to 332232.	The waste generated during mining has been utilized in road maintenance and in retaining wall. The deviation of backfilling has been pointed out through violation letter.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB/waste proposed to back-fill in the quarry-1 between grid N-2429240 to 2429400 & E-332147 to 332241. Separate dumping for mineral reject in the south western part of the lease area between N-2429135 to 2429198 & E-332078 to 332232.	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced. Separate dumping for mineral reject in the south western part of the lease area carried out between N-2429135 to 2429198 & E-332078 to 332232.	The waste generated during mining has been utilized in road maintenance and in retaining wall. The deviation of backfilling has been pointed out through violation letter.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	OB/waste proposed to back-fill in the quarry-1	The quarry-1 has not exhausted till date of inspection due to delay in commencement of mining operation, therefore proposed backfilling has not been commenced.	The waste generated during mining has been utilized in road maintenance and in retaining wall. The deviation of backfilling has been pointed out through violation letter.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	0.650 ha virgin land by 1500 nos of sapling.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.	About 1.576 ha area covered under afforestation by 2000 nos of saplings.
8g	Survival rate	Not specified.	As reported survival rate is 80%.	As reported survival rate is 80%.
8h	Water sprinkling on roads to control airborne dust	Mobile water sprinkler.	Mobile water sprinklers are used to control air borne dust.	Mobile water sprinklers are used to control air borne dust.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	0.650 ha virgin land along safety zone by 1500 nos of sapling. in 2018-19.	In 2018-19, about 1.576 ha area covered under afforestation by 2000 nos of saplings.	Aesthetic beauty in and around mines area is maintained by plantation.
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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.	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 submitted for the year 2018-19.	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 furnished in annual returns.	Area covered under different heads are furnished in annual returns.	Area covered under different heads are furnished in annual returns.
9d	Scrutiny of Annual return on afforestation	2000 nos of saplings.of saplings have been planted by lessee.	2000 nos of saplings.of saplings have been planted by lessee.	2000 nos of saplings.of saplings have been planted by lessee.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	4075T between +45% Fe to 55% Fe	4075T between +45% Fe to 55% Fe	4075T between +45% Fe to 55% Fe

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of different grade of iron ore is maintained.	Closing stock of different grade of iron ore is maintained.	Closing stock of different grade of iron ore is maintained.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost production is Rs 830.03/-	Cost production is Rs 830.03/-	Cost production is Rs 830.03/-
9h	Scrutiny of Annual return on fixed assets	Fixed asset as furnished in AR is Rs 135219052/-	Fixed asset as furnished in AR is Rs 135219052/-	Fixed asset as furnished in AR is Rs 135219052/-
9k	Scrutiny of Annual return on mining machineries	Machineries used at mine site are Mobile Crushing & Screening-4, Drill Machine-1, Excavator 3.2/2.1 cu.m-3, Dumper 30T-6, Wheel Loader-1, Rock breaker, Dozer.	Machineries used at mine site are Mobile Crushing & Screening-4, Drill Machine-1, Excavator 3.2/2.1 cu.m-3, Dumper 30T-6, Wheel Loader-1, Rock breaker, Dozer.	Machineries used at mine site are Mobile Crushing & Screening-4, Drill Machine-1, Excavator 3.2/2.1 cu.m-3, Dumper 30T-6, Wheel Loader-1, Rock breaker, Dozer.

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

Date :

(DAYANAND UPADHYAY)

Indian Bureau of Mines