

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

Mine file No : ORI/IRON-MN/SNG/MCDR-13/BBS

Mine code : 30ORI13036

- (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 D Patel, Mines Manager and Shri S Mohanty, Geolo
- (iv) Date of Inspection : 31/08/2019
- (v) Prev.inspection date : 17/04/2018

**PART-I : GENERAL INFORMATION**

1. (a) Mine Name : NARAYANPOSHI
- (b) Registration NO. : IBM/5865/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : NARAYANPOSHI
- Taluka : BARBIL
- Post office : KOIRA
- Pin Code :
- FAX No. : 03322364602
- E-mail : contact@aryannmining.in
- Phone : 03322364601
- (f) Police Station : KOIRA
- (g) First opening date : 03/02/1945
- (h) Weekly day of rest : SAT
2. Address for correspondance : NARAYANPOSI IRON MINE OF A.M.TC.  
AT/PO-KOIRA  
DIST-SUNDERGARH
3. (a) Lease Number : ORI0124
- (b) Lease area : 349.25
- (c) Period of lease :
- (d) Date of Expiry : 31/03/2020
4. Mineral worked : MANGANESE ORE Associated  
IRON ORE Main

## 5. Name and Address of the

Lessee : M/S A.M.T.C.(P) Ltd.  
61, Strand Road KOLKATA  
WEST BENGAL  
Phone:  
FAX :

Owner : PRADEEP KUMAR SARAF  
M/S AMTC LTD KOLKATA, WEST  
BENGAL SUNDARGARH ORISSA  
Phone: 033 - 2395661  
FAX :

## Mining Engineer

Name : D.PATEL, Full Time  
Qualification : DEGREE IN MINING  
Appointment/ : 16/08/2013  
Termination date

## Geologist

Name : S. C. MOHANTY, Full Time  
Qualification : MSC GEOLOGY  
Appointment/ : 16/03/2009  
Termination date

## Manager

Name : D.PATEL  
Qualification : DEGREE IN MINING  
Appointment/ : 10/10/2007  
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif. approved Mining Scheme	06/01/2004
		Renewal under rule 22 MCR1960	20/05/2004
		Modif. of approved Mining Plan	23/09/2008
		Modif. of approved Mining Plan	10/07/2009
		Mining Scheme rule 12 MCDR1988	29/04/2010
		Modif. approved Mining Scheme	25/10/2011
		Mining Scheme rule 12 MCDR1988	27/03/2015
		Modif. approved Mining Scheme	02/06/2016
		FMCP under 23C(1)	03/10/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal for exploration in 2018-19.	Nil.	There is no backlog. Entire lease area explored under G1/G2 category.
1b	Exploration over lease area for geological axis 1 or 2	No proposal for exploration in 2018-19.	Entire lease area explored under G1/ G2 category.	G1-99.387Ha, G2-249.867Ha. Entire lease area has been explored in G1/G2 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal for exploration in 2018-19.	Entire lease area explored under G1/ G2 category.	There was no proposal for exploration in 2018-19. Entire lease area explored under G1/ G2 category.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal for exploration in 2018-19.	Entire lease area explored under G1/ G2 category.	There was no proposal for exploration in 2018-19. Entire lease area explored under G1/ G2 category.

1e	Balance reserve as on 01/04/20	Reserve and resource as per modified scheme of mining approved on 02.06.2016 are: Iron Ore: Reserve under 111 category: 24206253.91 tonnes and 122 category: 160797984 tonnes; Total Reserve: 185004237.9 tonnes, Resource under 211 category: 2158944 tonnes and 222 category: 10681200 tonnes; Total Resource: 12840144 T Manganese Ore Reserve (122) 534818 tonnes, remaining resources (222) at 7880 tones	Reserve and resource as on 01.04.2019 are: Iron Ore: Reserve under 111 category: 15216907 tonnes and 122 category: 160797984 tonnes; Resource under 211 category: 2158944 tonnes and 222 category: 10681200 tonnes; Total Resource: 12840144 T Manganese Ore Reserve (122) is 524930 tonnes, remaining resources (222) is 7880 tones	Reserve and resource as on 01.04.2019 are: Iron Ore: Reserve under 111 category: 15216907 tonnes and 122 category: 160797984 tonnes; Resource under 211 category: 2158944 tonnes and 222 category: 10681200 tonnes; Total Resource: 12840144 T Manganese Ore Reserve (122) is 524930 tonnes, remaining resources (222) is 7880 tones
1f	General remarks of inspecting officers on geology, exploration etc	No proposal for exploration in 2018-19.	Entire lease area explored under G1/ G2 category.	G1-99.387Ha, G2-249.867Ha. Entire lease area has been explored in G1/G2 level of exploration.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Quarry-3: N-2426085 to 2426450, E-318511 to 318852 Quarry-4: N-2425657 to 2426019, E-318094 to 318532 R.F.Block: N-2424879 to 2425365, E-317853 to 318256 Quarry-5 Mn: N-2424580 to 2424825, E-317205 to 317425	Quarry-3: N-2426085 to 2426450, E-318511 to 318852 Quarry-4: N-2425657 to 2426019, E-318094 to 318532 R.F.Block: N-2424879 to 2425365, E-317853 to 318256 Quarry-5 Mn: N-2424580 to 2424825, E-317205 to 317425	The development is concentrated in within the approved proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore, top soil bench-nil.	Separate benches in OB and ore have been maintained. Some the top benches are mixed ore and intercalated waste	There is no top soil benches.
2c	Stripping ratio or ore to OB ratio	1:0.263 in iron ore and 1:7.32 in Mn ore.	1:0.244 in iron ore and 1:8.21 in Mn ore.	Average stripping ratio varies due to irregular nature of ore deposit.
2d	Quantity of topsoil generation in m3	Not proposed.	Nil.	There is no top soil generation
2e	Quantity of overburden generation in m3	526124 m <sup>3</sup> from Iron ore Zone & 114535 m <sup>3</sup> from Mn ore	288062 m <sup>3</sup> from Iron ore Zone & 15177 m <sup>3</sup> from Mn ore	Iron Ore Production as per EC limit is 3MTPA as against approved proposal of 6MTPA. Due to less production of both Iron & Mn Ore, generation of OB is less.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development is proposed in 04 quarry i.e Q-3, Q-4, Q-RF, Q-5 Mn	Development is carried out within the proposal as the production of iron ore was within the EC limit of 3.0 MTPA as against approved proposal of 6 MTPA.	Development is carried out within the proposal as the production of iron ore was within the EC limit of 3.0 MTPA as against approved proposal of 6 MTPA.
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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	04 quarries, namely Q-3, Q-4, Q-RF, Q-5 Mn	Working is concentrated in 04 quarries as proposed.	Working is concentrated in 04 quarries as proposed.
3b	Quantity of ROM mineral production proposed	Iron ore- 6000150T, Mn ore-36012.02T	ROM production reported in 2018-19, Iron ore- 2996966.95T, Mn ore- 1985.459T	Production restricted within 3 Million Ton for Iron Ore in accordance with EC limit against approved proposal of 6 MTPA.
3c	Recovery of sailable/usable mineral from ROM production	Iron ore- 4534998T, Mn ore-32410.818T	Iron ore-2542428.95T, Mn ore-1985.459T	Production restricted within 3 Million Ton for Iron Ore in accordance with EC limit against approved proposal of 6 MTPA.
3d	Quantity of mineral reject generation	Iron ore- 1465152 T, Mn ore - 3601.202 T	Iron ore- 454538 T, Mn ore - Nil	Mineral reject generation is low due to less ROM production as proposed.
3e	Grade of mineral rejects generation and threshold value declared.	>45% Fe & < 58%Fe , >10% Mn & < 20%Mn	>45% Fe & < 58%Fe , >10% Mn & < 20%Mn	Mineral reject generation is low due to less ROM production as proposed.
3f	Quantity of sub grade mineral generation.	Iron ore- 1465152 T, Mn ore - 3601.202 T	Iron ore- 454538 T, Mn ore - Nil	Mineral reject generation is low due to less ROM production as proposed.

3g	Grade of sub grade mineral generation	>45% Fe & < 58%Fe , >10% Mn & < 20%Mn	>45% Fe & < 58%Fe , >10% Mn & < 20%Mn	Mineral reject generation is low due to less ROM production as proposed.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised for iron ore and manual for Mn ore.	Mechanised for iron ore and manual for Mn ore.	Mechanised for iron ore and manual for Mn ore.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	2MTPA wet beneficiation plant.	Proposed beneficiation plant is under construction stage.	Deviation is pointed out through violation letter.
3j	Provision of drilling and blasting in mineral benches	DTH drilling of 115mm dia. Blast hole with emulsion/slurry explosive as coloumn charge and booster alongwith delay detonator.	Drilling and blasting is carried out with DTH drilling of 115mm dia. Blast hole with emulsion/slurry explosive as coloumn charge and booster alongwith delay detonator.	Drilling and blasting is carried out with DTH drilling of 115mm dia. Blast hole with emulsion/slurry explosive as coloumn charge and booster alongwith delay detonator.
3k	Provision of mining machineries in mineral benches	Excavation is proposed through shovel and dumper combination.	Excavation is practiced through shovel and dumper combination.	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- 9m for iron ore and 6m for mn ore.	Bench height is suitably matched with the excavator.	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation/pits	65.012Ha proposed during approved plan period.	About 55.085 ha area has been covered under excavation pits.	About 55.085 ha area has been covered under excavation pits
3n	Ore to OB ratio for the pit/mine during the year.	1:0.263 in iron ore and 1:7.32 in Mn ore.	1:0.244 in iron ore and 1:8.21 in Mn ore.	Average stripping ratio varries due to irregular nature of ore deposit .

3o	Total area put in use under different heads at the end of year	Total area proposed under different heads are Pit-65.012 ha, waste dump-6.711 ha, Plant-11.88 ha, residential & building-7.50 ha, roads-16.12 ha & Mineral storage-31.66 ha, others - 51.60 ha.	Total area proposed under different heads are Pit-55.058 ha, waste dump-7.405 ha, Plant-7.50 ha, residential & building-7.50 ha, roads-16.12 ha & Mineral storage-28.751 ha, others -44.452 ha.	Total area proposed under different heads are Pit-55.058 ha, waste dump-7.405 ha, Plant-7.50 ha, residential & building-7.50 ha, roads-16.12 ha & Mineral storage-28.751 ha, others -44.452 ha.
3p	Production of ROM mineral during the last five year period as applicable	Iron ore: FY-2018-19-6000150MT FY-2017-18-6001080MT FY-2016-17-6000564MT FY-2015-16-5035696MT FY-2014-15-3969330MT Mn ore- FY2018-19-36012.02MT FY2017-18-36006.96MT FY2016-17-35986.72MT FY 2015-16-10373MT FY-2014-15-39621MT	Iron ore- FY-2018-19-2996966.95MT FY-2017-18- 2997053.14MT FY-2016-17- 2997053.14MT FY-2015-16- 2997270.46MT FY-2014-15-833472.667MT Mn ore- FY-2018-19-1985.459MT FY2017-18- 4046.343MT FY2016-17- 4046.343MT FY 2015-16- Nil FY-2014-15- Nil FY2013-14: 1831.92MT	ROM Production is within the approved limit.
3q	General remarks of inspecting officers on method of mining etc.	Excavation of ROM has been proposed in 04 quarries, namely Q-3, Q-4, Q-RF, Q-5 Mn	The ROM production has been carried out in 04 quarries, namely Q-3, Q-4, Q-RF, Q-5 Mn. DTH drilling of 115mm dia. Blast hole with emulsion/ slurry explosive alongwith delay detonator is being practiced for drilling and blasting.	The ROM production has been carried out in 04 quarries, namely Q-3, Q-4, Q-RF, Q-5 Mn.



## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for overburden and mineral reject.	Separate dumping for overburden and mineral reject.	There is no top soil generation.
4b	Location of topsoil, OB and mineral reject dumps	Dump-1, N-2426378 to 2426526 & E-318226 to 318370605 Dump-2, E/W-317141-317207 & N/S-2424817-2424905570 One new Dump-3 proposed E/W-317357-317474 N/S-2424326-2424408565	Dump-1, N-2426378 to 2426526 & E-318370605 Dump-2, E/W-317141-317207 & N/S-2424817-2424905570 New Dump-3 not created as proposed.	Deviation of dump-3 is pointed out through letter.
4c	Number of dumps within lease area and outside of lease area	03 dumps within the lease area	There are two active dumps within the lease area.	Deviation of dump-3 is pointed out through letter.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1, N-2426378 to 2426526 & E-318226 to 318370605 Dump-2, E/W-317141-317207 & N/S-2424817-2424905570 One new Dump-3 proposed E/W-317357-317474 N/S-2424326-2424408565	Dumps are developed are outside the UPL in accordance with the approved plan.	Dumps are developed are outside the UPL in accordance with the approved plan.
4e	Number of active and alive dumps.	03 dumps	There are two active dumps lies within the lease area.	There are two active dumps lies within the lease area.
4f	Number of dead dumps.	Nil	There is no dead dump.	There is no dead dump.
4g	Number of dumps established.	Nil.	There is no dead dump.	There is no dead dump.

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall of 360m was proposed around backfilling area in quarry-3	Proposed retaining wall has not been constructed.	Deviation has been pointed out to lessee through violation letter.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall of 360m was proposed around backfilling area in quarry-3	Proposed retaining wall has not been constructed.	Deviation has been pointed out to lessee through violation letter.
4j	Number of settling ponds	2 nos. of settling ponds around dump-3	New Dump-3 not created as proposed.	Deviation has been pointed out to lessee through violation letter.
4k	Specific comments of inspecting officer on waste dump management	Dump-1, N-2426378 to 2426526 & E-318226 to 318370605 Dump-2, E/W-317141-317207 & N/S-2424817-2424905570 One new Dump-3 proposed E/W-317357-317474 N/S-2424326-2424408565	New Dump-3 not created as proposed. There are two active dumps lies within the lease area. Slope of OB dump-1 & 2 is stabilized by coir matting, grass pitching & plantation.	New Dump-3 not created as proposed. Deviation has been pointed out to lessee through violation letter.

#### 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 in exhausted part of Q-3	Backfilling has been made at exhausted part of Q-3	Backfilling has been made at exhausted part of Q-3
5b	Area under backfilling of mined out area	2.21 Ha area as part of Quarry-3	2.21 Ha area of part of Quarry-3 has been backfilled.	2.21 Ha area of part of Quarry-3 has been backfilled.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Nil.	There is no top soil generation proposed in 2018-19.
5d	Total area fully reclaimed and rehabilitated	Backfilling of 2.21 Ha area of part of Quarry-3.	2.21 Ha area of Quarry-3 has been backfilled.	2.21 Ha area of part of Quarry-3 has been backfilled.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling of 2.21 Ha area of part of Quarry-3.	2.21 Ha area of Quarry-3 has been backfilled.	2.21 Ha area of part of Quarry-3 has been backfilled.

#### 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 2.21 Ha area as part of Quarry-3	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .
6c	afforestation done (ha).	1.56 ha.	In 2018-19, total area cover under afforestation is about 1.56 ha.	In 2018-19, total area cover under afforestation is about 1.56 ha.
6d	No. of saplings planted during the year	3125 saplings.	In 2018-19, total 5000 nos. of saplings have been planted within lease by lessee.	In 2018-19, total 5000 nos. of saplings have been planted within lease by lessee.
6e	Cumulative no .of plants	Not specified.	Cumulative nos. of saplings planted in the lease area is about 15880.	Cumulative nos. of saplings planted in the lease area is about 15880.
6f	Any other method of rehabilitation	Backfilling of 2.21 Ha area as part of Quarry-3	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .

6g	Cost incurred on watch and care during the year	Not specified.	Around Rs 4.26 lakh cost incurred on watch and care.	Around Rs 4.26 lakh cost incurred on watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	Backfilling of 2.21 Ha area as part of Quarry-3	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling of 2.21 Ha area as part of Quarry-3	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Backfilling of 2.21 Ha area as part of Quarry-3	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Backfilling of 2.21 Ha area as part of Quarry-3	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Backfilling of 2.21 Ha area as part of Quarry-3	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed.	There is no proposal of rehabilitation of waste land.	here is no proposal of rehabilitation of waste land.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	here is no proposal of rehabilitation of waste land.	here is no proposal of rehabilitation of waste land.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	here is no proposal of rehabilitation of waste land.	here is no proposal of rehabilitation of waste land.
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.	Backfilling of 2.21 Ha area as part of Quarry-3	About 2.21 Ha area of part of Quarry-3 backfilled . Afforestation has been carried out along slope of waste dump & safety zone.	About 2.21 Ha area of part of Quarry-3 backfilled . Afforestation has been carried out along slope of waste dump & safety zone.

#### 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.	Manual for Mn ore mechanised for Iron ore.	Manual for Mn ore mechanised for Iron ore.	Manual for Mn ore mechanised for Iron ore.
7c	Different grade of mineral sorted out at mines.	>45% Fe & < 58%Fe , >10% Mn & < 20%Mn.	Different grades of minerals sorted out at mines are >45% Fe & < 58%Fe , >10% Mn & < 20%Mn	Different grades of minerals sorted out at mines are >45% Fe & < 58%Fe , >10% Mn & < 20%Mn

7d	Any beneficiation process at mines	Wet beneficiation Plant of 2 MTPA capacity	Beneficiation plant not established due to want of EC.	Beneficiation plant not established due to want of EC.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	>45% Fe & < 58%Fe , >10% Mn & < 20%Mn.	Cut off grade of Mn ore for the mine is +20Mn%. Cut off grade of iron ore for the mine is +58Fe%. Gradewise sorting of ore is proposed Manual for Mn ore mechanised for Iron ore.	Different grades of minerals sorted out at mines are >45% Fe & < 58%Fe , >10% Mn & < 20%Mn

#### Environment:

Sl.No.	Item	Proposals	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)	Separate dumping for overburden and mineral reject.	Separate dumping for overburden and mineral reject.	Separate dumping for overburden and mineral reject.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Partly backfilling of quarry-3.	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Partly backfilling of quarry-3.	About 2.21 Ha area of part of Quarry-3 backfilled .	About 2.21 Ha area of part of Quarry-3 backfilled .

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3125 nos. of plantation.	Total 5000 nos. saplings have been planted within lease in 2018-19. Cumulative 15880 nos. have been planted by lessee .	Total 5000 nos. saplings have been planted within lease in 2018-19. Cumulative 15880 nos. have been planted by lessee .
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	Water sprinkler	Water sprinkler are used to control air borne dust.	Water sprinkler are used to control air borne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	3125 nos. of plantation.	Aesthetic beauty in and around mined area is maintained plantation. Total 5000 nos. saplings have been planted within lease in 2018-19. Cumulative 15880 nos. have been planted by lessee .	Aesthetic beauty in and around mined area is maintained plantation. Total 5000 nos. saplings have been planted within lease in 2018-19. Cumulative 15880 nos. have been planted by lessee .

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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.

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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 2017-18.	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 Pits-140 ha, waste dump-6.711 ha, Plant, residential & building, roads-16.12ha & others - 35.97 ha.	Area covered under different heads are Pits-140 ha, waste dump-6.711 ha, Plant, residential & building, roads-16.12ha & others -35.97 ha.	Area covered under different heads are Pits-140 ha, waste dump-6.711 ha, Plant, residential & building, roads-16.12ha & others -35.97 ha.
9d	Scrutiny of Annual return on afforestation	Total 5000 nos. saplings have been planted in 2018-19.	Total 5000 nos. saplings have been planted in 2018-19.	Total 5000 nos. saplings have been planted in 2018-19.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject 454537.870MT, Grade: +55 - 58 % Fe	Mineral reject 454537.870MT, Grade: +55 - 58 % Fe	Mineral reject 454537.870MT, Grade: +55 - 58 % Fe
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock maintained, Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62%, 62% to below 65%, 65%Fe and above.	Closing stock maintained, Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62%, 62% to below 65%, 65%Fe and above.	Closing stock maintained, Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62%, 62% to below 65%, 65%Fe and above.



9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost- Rs 1514.49	Production cost- Rs 1514.49	Production cost- Rs 1514.49
9h	Scrutiny of Annual return on fixed assets	Fixed asset as furnished in AR is Rs 66366173/-	Fixed asset as furnished in AR is Rs 66366173/-	Fixed asset as furnished in AR is Rs 66366173/-
9k	Scrutiny of Annual return on mining machineries	Back Hoe 0.900 CUM: 12Nos, Back Hoe 4.100 CUM: 3Nos, Air Compressor 12.740CUM/MN : 2 Nos, Front end loader 1.800CUM: 8 Nos, Dozer 300.0 HP: 3 Nos, Blast hole drill 100.0MM: 2 Nos, Dumper 10.00 TONNE: 10Nos, Dumper 30.00 TONNE: 38Nos etc	Back Hoe 0.900 CUM: 12Nos, Back Hoe 4.100 CUM: 3Nos, Air Compressor 12.740CUM/MN : 2 Nos, Front end loader 1.800CUM: 8 Nos, Dozer 300.0 HP: 3 Nos, Blast hole drill 100.0MM: 2 Nos, Dumper 10.00 TONNE: 10Nos, Dumper 30.00 TONNE: 38Nos etc	Back Hoe 0.900 CUM: 12Nos, Back Hoe 4.100 CUM: 3Nos, Air Compressor 12.740CUM/MN : 2 Nos, Front end loader 1.800CUM: 8 Nos, Dozer 300.0 HP: 3 Nos, Blast hole drill 100.0MM: 2 Nos, Dumper 10.00 TONNE: 10Nos, Dumper 30.00 TONNE: 38Nos etc

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
MCDR17	Rule 11(1)	10/09/2019			

Date : 23.10.19

*Dayanand Upadhyay*  
(DAYANAND UPADHYAY) 23.10.19

Indian Bureau of Mines