

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/JJP/MCDR-3/BBS

Mine code : 11ORI19004

- (i) Name of the Inspecting : **U11**) **DAYANAND UPADHYAY**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : **SHRI B K GIRI, MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 24/01/2020
- (v) Prev.inspection date : 12/04/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAMARDA**
- (b) **Registration NO.** : **IBM /6143 /2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : JAJPUR
- Village : KAMARDA
- Taluka : SUKINDA
- Post office : KANSA
- Pin Code : 755028
- FAX No. : 0671-2520347
- E-mail : bcmohantysonsprivatelimitec
- Phone : 9437054347
- (f) Police Station : Jajpur
- (g) First opening date : 22/02/1963
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE: KALIAPANI, PO: KALIAPANI
correspondance DIST: JAJPUR,ORISSA.
PHONE:06726- 68722
3. (a) Lease Number : ORI0232
- (b) Lease area : 107.24
- (c) Period of lease :
- (d) Date of Expiry : 31/03/2020
4. Mineral worked : CHROMITE Main

5. Name and Address of the

Lessee : B.C.MOHANTY
 AT/PO : RAJABAGICHA
 CUTTACK ORISSA
 Phone:620347, 621030
 FAX :620347

Owner : B.C.MOHANTY
 AT/PO:RAJABHAGICHA
 CUTTACK ORISSA
 Phone: 620347, 621030
 FAX : 620347

Mining Engineer

Name : Sri Gokulananda Sahoo,Full Time
 Qualification : AMIE
 Appointment/ : 01/01/2008
 Termination date

Geologist

Name : Sri Padmalochan Das,Full Time
 Qualification : M.Sc. (Applied Geology)
 Appointment/ : 02/01/2012
 Termination date

Manager

Name : SHRI B K GIRI
 Qualification : AMIE (MINING ENGNIEERING)
 Appointment/ : 16/09/2014
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	03/01/2005
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06/05/2007
		Renewal under rule 24 MCR1960	27/02/2008
		Modif.approved Mining Scheme	03/02/2011
		Modif.of approved Mining Plan	03/02/2011
		Modif.of approved Mining Plan	08/03/2013
		Mining Scheme rule 12 MCDR1988	26/03/2013
		Modif.approved Mining Scheme	04/02/2016
		MP review under 17(1) MCR 2016	07/02/2018
		Modif.approved Mining Scheme	10/07/2018
		FMCP under 23C(1)	25/09/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	51 number of bore holes.	In 2018-19, total 51 numbers of bore holes of total meterage 7035m have been drilled by lessee.	In 2018-19, total 51 numbers of bore holes of total meterage 7035m have been drilled by lessee.
1b	Exploration over lease area for geological axis 1 or 2	G1/G2 Level of exploration.	In 2018-19, total 51 numbers of bore holes of total meterage 7035m have been drilled by lessee under G1/G2 Level of exploration.	In 2018-19, total 51 numbers of bore holes of total meterage 7035m have been drilled by lessee under G1/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 Drillmech engineers and M/s NREMP. cost incurred in drilling was Rs 201,07, 885/-	Exploration agency involved in drilling was M/s Drillmech engineers and M/s NREMP. cost incurred in drilling was Rs 201,07, 885/-
1d	Balance area to be explored to bring Geological axis in 1 or 2	48.525 ha	About 48.525ha area has been explored under G1/G2 level by putting 51 nos. of bore holes of total meterage 7035m.	About 48.525ha area has been explored under G1/G2 level by putting 51 nos. of bore holes of total meterage 7035m.
1e	Balance reserve as on 01/04/20	As the approved Modification of Mining Plan, the Reserve and Resource of the chromite ore furnished was 1,273,635T tonnes and 72900T tonnes respectively.	Balance reserve and resource as on 01/04/2019: Reserve: 1185637 tonnes. resource: 72900 tonnes	Balance reserve and resource as on 01/04/2019: Reserve: 1185637 tonnes. resource: 72900 tonnes

1f	General remarks of inspecting officers on geology, exploration etc	51 number of bore holes.	In 2018-19, total 51 numbers of bore holes of total meterage 7035m have been drilled by lessee under G1/G2 Level of exploration.	In 2018-19, about 48.525ha area has been explored under G1/G2 level by putting 51 nos. of bore holes of total meterage 7035m.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry - 2 between grid 105N-405S/ 71E-321E and Quarry -3 & 4 between grid 44N-620N/ 596W-279E	Quarry - 2 between grid 105N-405S/ 71E-321E and Quarry -3 & 4 between grid 44N-620N/ 596W-279E	The development is carried out as per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore with 6m height, top soil bench-nil.	Separate benches in OB and ore of 6m height have been maintained.	Separate benches in OB and ore of 6m height have been maintained.
2c	Stripping ratio or ore to OB ratio	1:16.51	1:14.23	Average stripping ratio varies due to irregular nature of ore deposit.
2d	Quantity of topsoil generation in m3	Not proposed.	Not applicable.	There is no top soil generation.
2e	Quantity of overburden generation in m3	1100105cu.m	468376 cu.m	Less quantity of OB generated due to less production of ROM as proposed.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Quarry - 2 between grid 105N-405S/ 71E-321E and Quarry -3 & 4 between grid 44N-620N/ 596W-279E	The development is carried out in Quarry - 2 between grid 105N-405S/ 71E-321E and Quarry -3 & 4 between grid 44N-620N/ 596W-279E as per proposal.	The development is carried out as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two Pits	Two Pits i.e Quarry - 2 and Quarry -3 & 4.	Two Pits i.e Quarry - 2 and Quarry -3 & 4.
3b	Quantity of ROM mineral production proposed	199935 tonnes.	87997.933T	The Less ROM production was due to not obtainingthe EC of enhance production i.e. around 2.0 lakh tonnes/year.
3c	Recovery of sailable/usable mineral from ROM production	31875T	60940.9333T	The saleable quantity is more due to blending of mineral reject with high grade ore.
3d	Quantity of mineral reject generation	168060T	27057T, 10-40% Cr2O3.	The Less ROM production corresponding less mineral reject generation due to not obtainingthe EC of enhance production i.e. around 2.0 lakh tonnes/year.
3e	Grade of mineral rejects generation and threshold value declared.	10-40% Cr2O3.	10-40% Cr2O3.	10-40% Cr2O3.
3f	Quantity of sub grade mineral generation.	168060T	27057T, 10-40% Cr2O3.	The Less ROM production corresponding less mineral reject generation due to not obtainingthe EC of enhance production i.e. around 2.0 lakh tonnes/year.
3g	Grade of sub grade mineral generation	10-40% Cr2O3.	10-40% Cr2O3.	10-40% Cr2O3.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Mechanised

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	COB plant for beneficiating the low grade ore	The lessee has installed the COB plant for beneficiating the low grade ore. The present feed capacity of the COB plant is 170,000 t per annum.	The lessee has installed the COB plant for beneficiating the low grade ore. The present feed capacity of the COB plant is 170,000 t per annum.
3j	Provision of drilling and blasting in mineral benches	Drilling of 100 mm dia holes of length 6.6 m and blasting by SME and slurry explosives with initiation of NONEL.	Drilling and blasting is carried out with DTH drilling of 100mm 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 100mm dia. Blast hole with emulsion/slurry explosive as coloumn charge and booster alongwith delay detonator.
3k	Provision of mining machineries in mineral benches	Dumper and shovel combination	Machineries are used at mines site are SHOVEL (HYDRAULIC) 2.4/1.2/0.9 cu.m-5, BACK HOE 1.1 cu.m-1, TIPPER 18 cu.m-10, DUMPER 25T- 4, MOTOR GRADER- 4, WATER TANKER 12KL-2 etc	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	35.183 ha proposed during approved plan period.	About 33.210 ha area has been covered under excavation pits.	About 33.210 ha area has been covered under excavation pits.
3n	Ore to OB ratio for the pit/mine during the year.	1:16.51	1:14.23	Average stripping ratio varies 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-35.183 ha, waste dump-30.090 ha, Plant, residential & building, roads-7.537 ha & Mineral storage, plantation & others -6.729 ha.	Area covered under different heads are Pits-33.210 ha, waste dumps-27.830 ha, Plant, residential & building, roads-7.230 ha & others -6.97 ha.	Area covered under different heads are Pits-33.210 ha, waste dumps-27.830 ha, Plant, residential & building, roads-7.230 ha & others -6.97 ha.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 :87750.00 MT 2015-16:87915.00 MT 2016-17:199860.00 MT 2017-18:199275.00 MT 2018-19:199935.00 MT	2014-15: 41300.00 MT 2015-16 : 87912.00 MT 2016-17: 87895.87 MT 2017-18: 87748.12 MT 2018-19: 87997.933 MT	The Less ROM production was due to not obtaining the EC of enhance production i.e. around 2.0 lakh tonnes/year.
3q	General remarks of inspecting officers on method of mining etc.	Opencast mining is proposed with two working pit.	The ROM production has been carried out in two pits as proposed. DTH drilling of 100mm dia. Blast hole with emulsion/ slurry explosive alongwith delay detonator is being practiced for drilling and blasting.	Mining is being carried out as per proposal. Production is less in comparison to proposal for the reason that lessee could not obtained the enhance EC.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil generation. Separate dumping of waste and mineral reject was envisaged.	OB and MR being dumped separately.	OB and MR being dumped separately.
4b	Location of topsoil, OB and mineral reject dumps	No proposal of top soil generation during reporting year. Waste dumping is proposed wate dump D, dump-A&B and dump-E. The dump-D proposed b/w grid 337N-20S/131W-520W and dump-A&B b/w grid 68N-585S/27E-606E and dump-E, b/w grid 110S-274S/162W-341W.	Waste material is being dumped on dump-D b/w grid 337N-20S/131W-520W and dump-A&B b/w grid 68N-585S/27E-606E.	Proposed waste dump-E not created for the reason that lessee could not obtained the EC of enhance production i.e. around 2.0 lakh tonnes/year.
4c	Number of dumps within lease area and outside of lease area	Within lease area: 03 Out side lease area: NIL.	Within lease area: 03 Out side lease area: NIL.	Proposed waste dump-E not created for the reason that lessee could not obtained the EC of enhance production i.e. around 2.0 lakh tonnes/year.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL.	Outside of UPL.	Dumps are located outside of UPL.
4e	Number of active and alive dumps.	03 waste dumps.	02 active dumps.	Proposed waste dump-E not created for the reason that lessee could not obtained the EC of enhance production i.e. around 2.0 lakh tonnes/year.

4f	Number of dead dumps.	01	One deade dump has been stabilised by plantation.	One deade dump has been stabilised by plantation.
4g	Number of dumps established.	One deade dump	One deade dump has been stabilised by plantation.	One deade dump has been stabilised by plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	Dump-C: Retaining wall 556m, Dump-D: Retaining wall 597m, Garland drain 486m, Dump-E: Retaining wall 494m, Garland drain 616m	Dump-C: Retaining wall 556m, Dump-D: Retaining wall 597m, Garland drain 486m	Proposed waste dump-E not created for the reason that lessee could not obtained the EC of enhance production i.e. around 2.0 lakh tonnes/year.
4i	Length of Retaining wall or garland drain all along dumps	Dump-C: Retaining wall 556m, Dump-D: Retaining wall 597m, Garland drain 486m, Dump-E: Retaining wall 494m, Garland drain 616m	Dump-C: Retaining wall 556m, Dump-D: Retaining wall 597m, Garland drain 486m	Proposed waste dump-E not created for the reason that lessee could not obtained the EC of enhance production i.e. around 2.0 lakh tonnes/year.
4j	Number of settling ponds	01 check dam.	01 check dam.	01 check dam.
4k	Specific comments of inspecting officer on waste dump management	Waste dumping is proposed wate dump D, dump- A&B and dump-E. The dump-D proposed b/w grid 337N-20S/131W-520W and dump-A&B b/w grid 68N-585S/27E-606E and dump-E, b/w grid 110S-274S/162W-341W.	Waste material is being dumped on dump-D b/w grid 337N-20S/131W-520W and dump-A&B b/w grid 68N-585S/27E-606E.	Proposed waste dump-E not created for the reason that lessee could not obtained the EC of enhance production i.e. around 2.0 lakh tonnes/year.

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.	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
5d	Total area fully reclaimed and rehabilitated	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.

Progressive Mine Closure Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26(2) of MCDR, 2017	PMCP report submitted for the year 2018-19.	PMCP report submitted for the year 2018-19.
6b	Area available for rehabilitation (ha) .	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.

6c	afforestation done (ha).	Dump Slope- 4.553Ha by 6830 nos of saplings and Matured Bench- 2.094Ha by 1432 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench-2.094Ha have been planted by 8000 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench- 2.094Ha have been planted by 8000 nos. of saplings.
6d	No. of saplings planted during the year	Dump Slope- 4.553Ha by 6830 nos of saplings and Matured Bench- 2.094Ha by 1432 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench-2.094Ha have been planted by 8000 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench- 2.094Ha have been planted by 8000 nos. of saplings.
6e	Cumulative no .of plants	Not specified.	Cumulative nos. of saplings planted in the lease area is about 97424 nos.	Cumulative nos. of saplings planted in the lease area is about 68380.
6f	Any other method of rehabilitation	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
6g	Cost incurred on watch and care during the year	12.30 lakh	Around Rs 12.5 lakh cost incurred on watch and care.	Around Rs 12.5 lakh cost incurred on watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Dump Slope- 4.553Ha by 6830 nos of saplings and Matured Bench- 2.094Ha by 1432 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench-2.094Ha have been planted by 8000 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench- 2.094Ha have been planted by 8000 nos. of saplings.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Dump Slope- 4.553Ha by 6830 nos of saplings and Matured Bench- 2.094Ha by 1432 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench-2.094Ha have been planted by 8000 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench- 2.094Ha have been planted by 8000 nos. of saplings.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Dump Slope- 4.553Ha by 6830 nos of saplings and Matured Bench- 2.094Ha by 1432 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench-2.094Ha have been planted by 8000 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench- 2.094Ha have been planted by 8000 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.	Reclamation and rehabilitation not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
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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.	Mechanised.	Mechanised.	Mechanised means of sorting.
7c	Different grade of mineral sorted out at mines.	Sub grade 10-40% Cr2O3, Saleable >40% Cr2O3	Sub grade 10-40% Cr2O3, Saleable >40% Cr2O3	Sub grade 10-40% Cr2O3, Saleable >40% Cr2O3
7d	Any beneficiation process at mines .	COB plant for beneficiating the low grade ore	The lessee has installed the COB plant for beneficiating the low grade ore. The present feed capacity of the COB plant is 170,000 t per annum.	The present feed capacity of the COB plant is 170,000 t per annum.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Mechanised Gradewise sorting is being practiced. Sub grade 10-40% Cr2O3, Saleable >40% Cr2O3	Mechanised Gradewise sorting of 10-40% Cr2O3, Saleable >40% Cr2O3 are being practiced.	The lessee has installed the COB plant for beneficiating the low grade ore. The present feed capacity of the COB plant is 170,000 t per annum.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 have been maintained.	Separate dumping for overburden and mineral reject have been maintained.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed as pits are not exhausted.	Pits are not matured for backfilling and reclamation and rehabilitation.	Pits are not matured for backfilling and reclamation and rehabilitation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Dump Slope- 4.553Ha by 6830 nos of saplings and Matured Bench- 2.094Ha by 1432 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench-2.094Ha have been planted by 8000 nos. of saplings.	Proposed Dump Slope- 4.553Ha and Matured Bench- 2.094Ha have been planted by 8000 nos. of saplings.
8g	Survival rate	Not specified.	As reported survival rate is 71%.	As reported survival rate is 71%.
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	Plantation on dumps and matured benches.	Aesthetic beauty in and around mines area is maintained plantation. As reported cumulative no. of trees planted by lessee is about 97424 nos.	Aesthetic beauty in and around mines area is maintained 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 Pits-33.210 ha, waste dumps-27.830 ha, Plant, residential & building, roads-7.230 ha & others - 6.97 ha.	Area covered under different heads are Pits-33.210 ha, waste dumps-27.830 ha, Plant, residential & building, roads-7.230 ha & others -6.97 ha.	Area covered under different heads are Pits-33.210 ha, waste dumps-27.830 ha, Plant, residential & building, roads-7.230 ha & others -6.97 ha.
9d	Scrutiny of Annual return on afforestation	8000 nos. saplings.	8000 nos. saplings.	8000 nos. saplings.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	27057T, 10-40% Cr2O3.	27057T, 10-40% Cr2O3.	27057T, 10-40% Cr2O3.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock Fines: Below 40% Cr2O3- 5494.035T, 40% to below 52% Cr2O3- 11009.877T	Closing stock Fines: Below 40% Cr2O3- 5494.035T, 40% to below 52% Cr2O3- 11009.877T	Closing stock Fines: Below 40% Cr2O3- 5494.035T, 40% to below 52% Cr2O3- 11009.877T
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price, Fines: Below 40% Cr2O3- Rs 2833.67, 40% to below 52% Cr2O3- Rs 10894.92	Ex mine price, Fines: Below 40% Cr2O3- Rs 2833.67, 40% to below 52% Cr2O3- Rs 10894.92	Ex mine price, Fines: Below 40% Cr2O3- Rs 2833.67, 40% to below 52% Cr2O3- Rs 10894.92
9h	Scrutiny of Annual return on fixed assets	Fixed Assets Rs 200836319/-	Fixed Assets Rs 200836319/-	Fixed Assets Rs 200836319/-
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 2.4/1.2/0.9 cu.m-5, BACK HOE 1.1 cu.m-1, TIPPER 18 cu.m-10, DUMPER 25T- 4, MOTOR GRADER- 4, WATER TANKER 12KL-2 etc	SHOVEL (HYDRAULIC) 2.4/1.2/0.9 cu.m-5, BACK HOE 1.1 cu.m-1, TIPPER 18 cu.m-10, DUMPER 25T- 4, MOTOR GRADER- 4, WATER TANKER 12KL-2 etc	SHOVEL (HYDRAULIC) 2.4/1.2/0.9 cu.m-5, BACK HOE 1.1 cu.m-1, TIPPER 18 cu.m-10, DUMPER 25T- 4, MOTOR GRADER- 4, WATER TANKER 12KL-2 etc

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show couse position			
Rule NO.	Issued on	Compliance on		Rule NO.	Issued on	Compliance on	

Date :

(DAYANAND UPADHYAY)

Indian Bureau of Mines