

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-11/BBS

Mine code : 30ORI13035

- (i) Name of the Inspecting : **U11**) **DAYANAND UPADHYAY**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri T.D Behra, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 11/09/2017
- (v) Prev.inspection date : 10/10/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAIKELA & TANTRA**
- (b) **Registration NO.** : **IBM/4124/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : RAIKELA
- Taluka : BONAI
- Post office : DENGULA
- Pin Code : 770048
- FAX No. : 06767-275621
- E-mail : penguinbbl@gmail.com
- Phone : 06767-275621
- (f) Police Station : Koira
- (g) First opening date : 01/08/1991
- (h) Weekly day of rest : SAT
2. Address for : PO.DENGULA
correspondance VILL: RAIKELA
VIA.KOIRA,TQ.BONAI,DIS.SUNDERGARH,PIN.770048
3. (a) Lease Number : ORI0725
- (b) Lease area : 49.37
- (c) Period of lease : 30
- (d) Date of Expiry : 02/12/2036
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : PENGUIN TRADING & AGENCIES LTD.
 PENGUIN TRADING AGENCIES
 CHATTERJEE INTER NATIONAL
 18 FLOOR33AJ.N.ROAD KOLKATA
 WEST BENGAL
 Phone:033-2267866
 FAX :

Owner : PENGUIN TRADING AGENCIES
 CHATTERJEE INTERNATIONAL
 18TH FLOOR,33A JAWAHARLAL
 NEHRU ROAD KOLKATA WEST
 BENGAL
 Phone: 033-2267866
 FAX : 033-2267866

Agent : S.K.GUPTA
 C/O RAIKELA TANTA IRON MINE
 , M/S PT&A LTD KEONJHAR
 ORISSA
 Phone: 06767 75621
 FAX : 06767 75621

Mining Engineer

Name : K. K. Sahoo,Full Time
 Qualification : AMIE
 Appointment/ : 01/10/2003
 Termination date

Manager

Name : T. D. Behra
 Qualification : BE (MINING)
 Appointment/ : 14/08/2013
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	08/02/2002
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	28/04/2006
	:	Modif.of approved Mining Plan	22/12/2009
	:	Modif.of approved Mining Plan	28/09/2010
	:	Mining Scheme rule 12 MCDR1988	17/03/2011
	:	Modif.approved Mining Scheme	13/06/2012
	:	Modif.approved Mining Scheme	17/10/2014
	:	Mining Scheme rule 12 MCDR1988	30/12/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	05 number of bore holes in 2016-17.	In 2016-17 total 05 number of bore holes have been drilled by lessee.	In 2016-17 total 05 number of bore holes have been drilled by lessee.
1b	Exploration over lease area for geological axis 1 or 2	Within G1 level of exploration.	The exploration for the year 2016-17 has been carried out within G1 level of explored area to check the further depth continuity.	The exploration for the year 2016-17 has been carried out within G1 level of explored area to check the further depth continuity.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	The agencies involved in drilling is SPS geo mining Solution Pvt Ltd. and expenditure incurred is Rs 1456366/-.	The agencies involved in drilling is SPS geo mining Solution Pvt Ltd. and expenditure incurred is Rs 1456366/-.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil.	The whole lease area of 49.372 ha is explored under G1 level of exploration.	The whole lease area of 49.372 ha is explored under G1 level of exploration. The 05 nos. of bore holes proposed for the year 2016-17 is within G1 level of explored area.
1e	Balance reserve as on 01/04/20	Balance reserve as per Scheme of Mining approved on 30.12.2015 was 15.6 MT under proved (111) category and 1.75 MT under 122 category and 1.66 was under feasibility resources (211) category.	Balance reserve as on 01/04/2017 under 111 category is 14.04 MT under proved (111) category and 1.75 MT under 122 category and 1.66 was under feasibility resources (211) category.	Balance reserve as on 01/04/2017 under 111 category is 14.04 MT under proved (111) category and 1.75 MT under 122 category and 1.66 was under feasibility resources (211) category.

1f	General remarks of inspecting officers on geology, exploration etc	The whole lease area of 49.372 ha is explored under G1 level of exploration by putting 90 nos. of bore holes of total meterage about 3925.55m.	The whole lease area of 49.372 ha is explored under G1 level of exploration by putting 90 nos. of bore holes of total meterage about 3925.55m.
----	--	--	--

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Tantra quarry, N100/N460 & E40/N274 Raikela quarry, N100/S390 & W20/E510	Tantra quarry, N100/N460 & E40/N274 Raikela quarry, N100/S390 & W20/E510	Development proposed in Tantra quarry and Raikela quarry.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore & OB. No proposal of top soil benches.	Separate benches in OB and ore have been maintained.	Separate benches in OB and ore have been maintained. There is no proposal of top soil bench.
2c	Stripping ratio or ore to OB ratio	1:0.260	1:0.274	Average stripping ratio varries 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	211560 cu.m	209600 cu.m	The generation OB is less due to less production of ROM.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The whole mineralised area is fully explored and development is concentrated in two quarry i.e Tantra quarry and Raikela quarry.	The whole mineralised area is fully explored and development is concentrated in two quarry i.e Tantra quarry and Raikela quarry.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 quarry, Tanatra quarry and Raikela quarry	Working is concentrated in 02 quarry, Tanatra quarry and Raikela quarry.	Working is concentrated in 02 quarry, Tanatra quarry and Raikela quarry.
3b	Quantity of ROM mineral production proposed	829020 T ROM proposed for the year 2016-17.	In 2016-17, 764020T ROM of Iron ore has been produced.	Against the proposal less production of Iron ore is carried out based on market demand.
3c	Recovery of sailable/usable mineral from ROM production	Sailable ore 95% of total ROM.	Total ROM has been utilised by lessee for the year 2016-17.	Total ROM has been utilised by lessee for the year 2016-17.
3d	Quantity of mineral reject generation	61500 cu.m	No sub grade/mineral reject generation has been reported for the peroid 2016-17. The sub grade/mineral reject generated during mining mining has blended with high grade and dispatched.	Total ROM has been utilised by lessee for the year 2016-17.
3e	Grade of mineral rejects generation and threshold value declared.	-55% to +45% Fe.	No sub grade/mineral reject generation has been reported for the peroid 2016-17.	The sub grade/mineral reject generated during 2016-17 has been blended with high garde.
3f	Quantity of sub grade mineral generation.	61500 cu.m	No sub grade/mineral reject generation has been reported for the peroid 2016-17.	The sub grade/mineral reject generated during 2016-17 has been blended with high garde.
3g	Grade of sub grade mineral generation	-55% to +45% Fe.	No sub grade/mineral reject generation has been reported for the peroid 2016-17.	The sub grade/mineral reject generated during 2016-17 has been blended with high garde.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised and manual sorting is being practiced at mine site.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed.	Not applicable.	Crushing, screening and manual sorting is practiced at the mine site
3j	Provision of drilling and blasting in mineral benches	DTH drilling of 100mm dia. Blast hole with ammonium nitrate/slurry explosive as column charge and booster alongwith delay detonator.	DTH drilling of 100mm dia. Blast hole with ammonium nitrate/slurry explosive as column charge and booster alongwith delay detonator is being practiced for drilling and blasting.	Depth of blasting- 6.6m Burden- 2.5m spacing- 3.0m.
3k	Provision of mining machineries in mineral benches	Drilling machine- 100 mm dia.-2, Excavator- 1.7/0.9 cu.m-18, Loader-2.5 cu.m, Dumper-20T, Dozer-1, Rock breaker-2 etc.	Drilling machine- 100 mm dia.-2, Excavator- 1.7/0.9 cu.m-18, Loader-2.5 cu.m, Dumper-20T, Dozer-1, Rock breaker-2 etc. are used excavation of OB and ROM.	Drilling machine- 100 mm dia.-2, Excavator- 1.7/0.9 cu.m-18, Loader-2.5 cu.m, Dumper-20T, Dozer-1, Rock breaker-2 etc. are used excavation of OB and ROM.
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 as proposed.	Bench height is suitably matched with the excavator as proposed.
3m	Total area covered under excavation/pits	37.360 ha during approved plan period.	About 29.912 ha. has been covered under excavation pits.	About 29.912 ha. area has been covered under excavation pits.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.260	1:0.274	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 49.372 ha. area put in use under different heads during aapproved plan period.	Area covered under different heads are Pit-29.912 ha, waste dump-4.797 ha, Plant, Infrasructure-0.442 ha, Road-0.692ha, Mineral storage-2.604, plantation & others - 14.961 ha.	Area covered under different heads are Pit-29.912 ha, waste dump-4.797 ha, Plant, Infrasructure-0.442 ha, Road-0.692ha, Mineral storage-2.604, plantation & others -14.961 ha.
3p	Production of ROM mineral during the last five year period as applicable	2012-13: 440640T 2013-14: 832320T 2014-15: 945048T 2015-16: 1080144T 2016-17: 829020T	2012-13: 429031T 2013-14: 687860T 2014-15: 876100T 2015-16: 830722T 2016-17: 764020T	ROM production of Iron ore is based on market demand and it may varried within approved limit.
3q	General remarks of inspecting officers on method of mining etc.		The ROM production has been carried out from Tantra quarry and Raikela quarry. DTH drilling of 100mm dia. Blast hole with ammonium nitrate/ slurry exlplosive alongwith delay detonator is being practiced for drilling and blasting.	The ROM production has been carried out from Tantra quarry and Raikela quarry. DTH drilling of 100mm dia. Blast hole with ammonium nitrate/ slurry exlplosive alongwith delay detonator is being practiced for drilling and blasting.

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	There is no top soil generation.

4b	Location of topsoil, OB and mineral reject dumps	Dumping in south-eastern part of the lease over mined out area. Location of sub grade stack is S400 to S700 & E390 to E510.	Waste is dumping in south-eastern part of the lease over mined out area. The sub grade stack is lies between grid S400 to S700 & E390 to E510.	There is no top soil generation.
4c	Number of dumps within lease area and outside of lease area	One dump in south-eastern part within lease area.	There is one active waste dump in south-eastern part of the lease over mined out area.	There is one active waste dump in south-eastern part of the lease over mined out area. The other old dump is fully stabilised by plantation.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One active dump in south-eastern part of lease area.	One active dump in south-eastern part of lease area over mined out area.	There is one active waste dump in south-eastern part of the lease over mined out area. The other old dump is fully stabilised by plantation.
4e	Number of active and alive dumps.	One active dump in south-eastern part of lease area.	One active dump in south-eastern part of lease area.	There is one active waste dump in south-eastern part of the lease over mined out area. The other old dump is fully stabilised by plantation.
4f	Number of dead dumps.	Not proposed.	Not applicable.	There is one active waste dump in south-eastern part of the lease over mined out area. The other old dump is fully stabilised by plantation.

4g	Number of dumps established.	Not proposed.	Not applicable.	There is one active waste dump in south-eastern part of the lease over mined out area. The other old dump is fully stabilised by plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall of 75mX1.0mX1.5m along dump in south eastern side and a retaining wall of 260mX1.0mX1.5m along sub grade dump.	The proposed retaining wall has not been completed.	The proposed retaining wall has not been completed. Deficiency has been pointed out through violation letter to the lessee.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall of 75mX1.0mX1.5m along dump in south eastern side and a retaining wall of 260mX1.0mX1.5m along sub grade dump.	The proposed retaining wall has not been completed.	The proposed retaining wall has not been completed. Deficiency has been pointed out through violation letter to the lessee.
4j	Number of settling ponds	Not proposed.	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management		The old dump is fully stabilised by lessee by coir mating and plantation. The proposed retaining wall has not been completed and deficiency has been pointed out to the lessee through violation letter.	The old dump is fully stabilised by lessee by coir mating and plantation. The proposed retaining wall has not been completed and deficiency has been pointed out to the 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 of south-eastern part of the lease area.	The south-eastern part of the mined out lease area is partially backfilled after exhaustion of mineral.	The south-eastern part of the mined out lease area is partially backfilled after exhaustion of mineral.
5b	Area under backfilling of mined out area	0.250 ha.	About 0.250 ha area has been backfilled.	About 0.250 ha area has been backfilled.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Not applicable.	The mined out area has been backfilled by OB.
5d	Total area fully reclaimed and rehabilitated	0250 ha.	About 0.250ha area has been reclaimed by lessee.	About 0.250ha area has been reclaimed by lessee.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The south-eastern part of the mined out lease area is partially backfilled after exhaustion of mineral. About 0.250 ha mined out area has been backfilled.	The south-eastern part of the mined out lease area is partially backfilled after exhaustion of mineral. About 0.250 ha mined out area 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 to this office.	Annual return on PMCP has been submitted to this office.
6b	Area available for rehabilitation (ha) .	0.250 ha	About 0.250ha area has been reclaimed and rehabilitated by lessee.	About 0.250ha area has been reclaimed and rehabilitated by lessee.
6c	afforestation done (ha).	0.250 ha	Afforestation has been done in 0.250 ha backfilled area.	Afforestation has been done in 0.250 ha backfilled area.

6d	No. of saplings planted during the year	625 nos. of saplings on backfilled area.	Total 950 nos. of tree planted during the year 2016-17 on backfilled area.	Total 950 nos. of tree planted during the year 2016-17 on backfilled area.
6e	Cumulative no .of plants	Not specified.	Cumulative 78210 nos. of tree planted by lessee in the lease area.	Cumulative 78210 nos. of tree planted by lessee in the lease area.
6f	Any other method of rehabilitation	Backfilling.	About 0.250 ha area has been backfilled by waste.	About 0.250 ha area has been backfilled by waste.
6g	Cost incurred on watch and care during the year	Not specified.	Rs 182400/- has been incurred on watch and care by lessee for the year 2016-17.	Rs 182400/- has been incurred on watch and care by lessee for the year 2016-17.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.250 ha	About 0.250 ha area has been backfilled by waste.	About 0.250 ha area has been backfilled by waste.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling OB waste.	About 0.250 ha area has been backfilled by OB waste.	About 0.250 ha area has been backfilled by OB waste.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	625 nos. of saplings on backfilled area.	Total 950 nos. of tree planted during the year 2016-17 on backfilled area..	Total 950 nos. of tree planted during the year 2016-17 on backfilled area..
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Backfilling.	About 0.250 ha area has been backfilled by OB waste.	About 0.250 ha area has been backfilled by OB waste.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Backfilling.	About 0.250 ha area has been backfilled by OB waste.	About 0.250 ha area has been backfilled by OB waste.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed.	Not applicable.	Proposal not furnished in approved plan.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	Not applicable.	Proposal not furnished in approved plan.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not propose.	Not applicable.	Proposal not furnished in approved plan.
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.		About 0.250 ha area has been backfilled by OB waste. Regular data of quarterly monitoring of air, water and noise level has been submitted to this office .	About 0.250 ha area has been backfilled by OB waste. Regular data of quarterly monitoring of air, water and noise level has been submitted to this office .

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting.	Gradewise sorting.	ROM produced from the mine sorted out gradewise of +55% Fe.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised and manual sorting of iron ore is practiced at mine site.	Mechanised and manual sorting of iron ore is practiced at mine site..
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.	Not applicable.	Mechanised and manual sorting of iron ore is practiced at mine site.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Cut off grade of iron ore for the mine is +55%. Different grades of minerals sorted out at mines are -65% Fe, 62 to 58% fe and 58 to 55% Fe. In 206-17, no sub grade has been reported by lessee.The sub grade generated during mining has blended with high grade.	Cut off grade of iron ore for the mine is +55%. Different grades of minerals sorted out at mines are - 65% Fe, 62 to 58% fe and 58 to 55% Fe. In 206-17, no sub grade has been reported by lessee.The sub grade generated during mining has blended with high grade.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Nil	There is no top soil generation.
8b	Concurrent use or storage of topsoil	Not proposed.	Nil.	There is no top soil generation.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for overburden and mineral rejects.	Waste is dumping in south-eastern part of the lease over mined out area. The sub grade stack is lies between grid S400 to S700 & E390 to E510.	Waste is dumping in south-eastern part of the lease over mined out area. The sub grade stack is lies between grid S400 to S700 & E390 to E510.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in mined out area.	Waste is dumping in south-eastern part of the lease over mined out area.	Waste is dumping in south-eastern part of the lease over mined out area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation by backfilling.	About 0.250ha area has been reclaimed by lessee.	About 0.250ha area has been reclaimed by lessee.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation over dump and backfilled area.	For the year 2016-17, about 20700 nos. of trees have been planted by lessee in dump and backfilled area.	As reported cumulative no. of trees planted by lessee is about 78210 nos.
8g	Survival rate	Not specified.	Survival rate as reported by lessee is 71%.	Survival rate as reported by lessee is 71%.
8h	Water sprinkling on roads to control airborne dust	Two water sprinkler	Two water sprinkler are used to control air borne dust.	Water sprinklers of 20 & 12 KL capacity are utilised to control air borne dust.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mined area is maintained. In 2016-17, total 20700 nos of saplings have been planted by lessee. As reported cumulative no. of trees planted by lessee is about 78210 nos.	Aesthetic beauty in and around mined area is maintained. In 2016-17, total 20700 nos of saplings have been planted by lessee. As reported cumulative no. of trees planted by lessee is about 78210 nos.
----	--	---	---

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.	The annual return for the year 2016-17 has been submitted by lessee.	The annual return for the year 2016-17 has been submitted by lessee.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer-2, Diploma mining Engineer-2, Geologist-2	Graduate Mining Engineer-2, Diploma mining Engineer-2, Geologist-2	Graduate Mining Engineer-2, Diploma mining Engineer-2, Geologist-2
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under different heads are Pit-29.9 ha, waste dump-2.275 ha, Plant, Infrasructure-1.134ha, others -15.63 ha.	Area covered under different heads are Pit-29.9 ha, waste dump-2.275 ha, Plant, Infrasructure-1.134ha, others -15.63 ha.	Area covered under different heads are Pit-29.9 ha, waste dump-2.275 ha, Plant, Infrasructure-1.134ha, others -15.63 ha.
9d	Scrutiny of Annual return on afforestation	Total 20700 nos. saplings have been planted in 2016-17.	Total 20700 nos. saplings have been planted in 2016-17.	Total 20700 nos. saplings have been planted in 2016-17.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject- Nil	In 2016-17, sub generated has been blended with high grade ore.	In 2016-17, sub generated has been blended with high grade ore.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock at mine head: Lump: Below 55% Fe: 29184.750T 55% to 58% Fe: 77549.680T 58% to 60% Fe: 17889.230T 60% to 62% Fe: 1281.510T 62% to 65% Fe: 8561.417T Fines: Below 55% Fe: 155104.829T 55% to 58% Fe: 74219.440T 58% to 60% Fe: 45561.080T 60% to 62% Fe: 667615.37T 62% to 65% Fe: 7783.373T	Closing stock at mine head: Lump: Below 55% Fe: 155104.829T 55% to 58% Fe: 77549.680T 58% to 60% Fe: 17889.230T 60% to 62% Fe: 1281.510T 62% to 65% Fe: 8561.417T Fines: Below 55% Fe: 155104.829T 55% to 58% Fe: 74219.440T 58% to 60% Fe: 45561.080T 60% to 62% Fe: 667615.37T 62% to 65% Fe: 7783.373T	Gradewise stock has been maintained at mine head.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Lump: 58% to 60% Fe: Ex mine price Rs1346.85 60% to 62% Fe: Ex mine price Rs 1971.97 62% to 65% Fe: Ex mine price Rs2481.65 Fines: Below 55% Fe: Rs226.02 55% to 58% Fe: Ex mine price Rs454.34 Below 55% Fe: Rs226.02 58% to 60% Fe: Ex mine price Rs642.69 55% to 58% Fe: Ex mine price Rs454.34 58% to 60% Fe: Ex mine price Rs642.69 60% to 62% Fe: Ex mine price Rs 444.99	Lump: 58% to 60% Fe: Ex mine price Rs1346.85 60% to 62% Fe: Ex mine price Rs 1971.97 62% to 65% Fe: Ex mine price Rs2481.65 Fines: Below 55% Fe: Rs226.02 55% to 58% Fe: Ex mine price Rs454.34 58% to 60% Fe: Ex mine price Rs642.69 60% to 62% Fe: Ex mine price Rs 444.99	Gradewise ex mine price has been maintained.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs) 12731918/-	Value of Fixed Assets (in Rs) 12731918/-	Value of Fixed Assets (in Rs) 12731918/-
9k	Scrutiny of Annual return on mining machineries	Crusher-150TPH-2, Excavator-1.7/0.9 cu.m-12, Loader-2.5 cu.m-6, Dumper-20T-16, Dozer-1, Rock breaker-2 etc.	Crusher-150TPH-2, Excavator- 1.7/0.9 cu.m-12, Loader-2.5 cu.m-6, Dumper-20T-16, Dozer-1, Rock breaker-2 etc.	Crusher-150TPH-2, Excavator- 1.7/0.9 cu.m-12, Loader-2.5 cu.m-6, Dumper-20T-16, Dozer-1, Rock breaker-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	
MCDR17	Rule 11(1)	22/09/2017	17/11/2017				

Date :

(DAYANAND UPADHYAY)

Indian Bureau of Mines