

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/IRON/SNG/MCDR-9/BBS

**Mine code :** 30ORI13019

- (i) Name of the Inspecting : **U11** ) **DAYANAND UPADHYAY**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Kailash Kumar Pradhan, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 19/03/2019
- (v) Prev.inspection date : 07/10/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAIKELA**
- (b) **Registration NO.** : **IBM/6072/2011**
- (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 :
- FAX No. : 06767-275631
- E-mail : neraikelamines@yahoo.com
- Phone : 06767-275321
- (f) Police Station : Koira
- (g) First opening date : 21/12/1983
- (h) Weekly day of rest : SAT
2. Address for : VILL. RAIKELA, PO. DENGULA  
correspondance VIA. KOIRA, DIST. SUNDARGARH  
ORISSA, PIN-770048
3. (a) Lease Number : ORI0136
- (b) Lease area : 45.93
- (c) Period of lease : 50
- (d) Date of Expiry : 20/12/2033
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : M/S NATIONAL ENTERPRISES  
 PO.BOX 44 BARBIL- 758035  
 KEONJHAR ORISSA  
 Phone:75321  
 FAX :75631

Owner : NATIONAL ENTERPRISES  
 PO BOX :44 BARBIL KEONJHAR  
 ORISSA  
 Phone: 06767-75321  
 FAX : 06767-75631

## Mining Engineer

Name : SHI SOUVIK MISHRA,Full Time  
 Qualification : B TECH MINING  
 Appointment/ : 10/11/2017  
 Termination date

## Geologist

Name : SHRI BINOD MOHANTY,Full Time  
 Qualification : M.Sc.(Geology)  
 Appointment/ : 18/11/2002  
 Termination date

## Manager

Name : SHRI KAILASH KUMAR PRADHAN  
 Qualification : Diploma (Mining)  
 Appointment/ : 02/05/2015  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	26/05/2005
		Modif.of approved Mining Plan	15/02/2008
		Mining Scheme rule 12 MCDR1988	04/01/2010
		Mining Scheme rule 12 MCDR1988	12/04/2013
		Modif.approved Mining Scheme	02/06/2015
		MP review under 17(1) MCR 2016	10/11/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 number of bore holes in 2017-18.	Proposed 08 numbers of bore holes have been drilled by lessee in 2018-19 as the mines was temporary closed for part period in 2017-18 .	No backlog.
1b	Exploration over lease area for geological axis 1 or 2	G1 Level of exploration.	Proposed 8 numbers of bore holes have been drilled by lessee under G1 Level of exploration.	Proposed 8 numbers of bore holes have been drilled by lessee under G1 Level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration agency not specified prior to execution of proposed drilling.	Exploration agency involved in drilling was M/s Geo Exploration India. Cost incurred in drilling was Rs 750000/-	Exploration agency involved in drilling was M/s Geo Exploration India.
1d	Balance area to be explored to bring Geological axis in 1 or 2	11.061 ha during plan period.	About 32.367 ha area has been explored under G1/G2 level by putting 32 nos. of bore holes.	About 32.367 ha area has been explored under G1/G2 level by putting 32 nos. of bore holes.
1e	Balance reserve as on 01/04/20	Balance reserve as per review of mining plan approved on 10/11/2017 was under proved (111)-24816283T and resources-8855147T	Balance reserve as on 01/04/2018 under 111 category was under proved (111)-24670513T and resources-8855147T.	Balance reserve as on 01/04/2018 under 111 category was under proved (111)-24670513T and resources-8855147T.
1f	General remarks of inspecting officers on geology, exploration etc	8 number of bore holes in 2017-18.	Proposed 08 numbers of bore holes have been drilled by lessee in 2018-19 as the mines was temporary closed for part period in 2017-18 .	About 32.367 ha area has been explored under G1/G2 level by putting 32 nos. of bore holes.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Top-A quarry, 2420746N/2420946N and E312501/E312701	The development is concentrated in Top-A quarry between grid 2420746N/2420946N and E312501/E312701.	The development is 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	1:0.127	1:0.87	Stripping ratio is less due to less ROM production than proposed.
2d	Quantity of topsoil generation in m3	Not proposed.	Nil.	There is no top soil generation.
2e	Quantity of overburden generation in m3	21160 cu.m	18230 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	The development is proposed in single pit, top-A quarry.	The development is carried out in single pit top-A quarry as per proposal.	The development is carried out in single pit top-A quarry as per proposal.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit.	The development is concentrated in single pit Top-A quarry between grid 2420746N/2420946N and E312501/E312701.	Development is as per proposal.
3b	Quantity of ROM mineral production proposed	500040 T	291540 T	ROM Production is less due to low market demand.
3c	Recovery of sailable/usable mineral from ROM production	500040 MT	291540 T	Production is less due to low market demand.

3d	Quantity of mineral reject generation	No proposal in 2017-18 as working is proposed in mineralised zone above cut off grade.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.
3e	Grade of mineral rejects generation and threshold value declared.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.
3f	Quantity of sub grade mineral generation.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.
3g	Grade of sub grade mineral generation	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.	After processing of ROM, mineral reject/sub grade reported is 9180T Below 55% Fe.
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.	Crushing and screening of ROM	Only crushing and screening of ROM is being carried out at mines site.	Only crushing and screening is being carried out at mines site.

3j	Provision of drilling and blasting in mineral benches	DTH drilling of 100mm dia. Blast hole with explosive as column charge and booster alongwith delay detonator.	Blast holes by 100 mm diameter DTH drills. The explosive column is blasted under 'V' type blasting pattern initiated by booster alongwith delay detonator.	Blast holes by 100 mm diameter DTH drills. The explosive column is blasted under 'V' type blasting pattern initiated by booster alongwith delay detonator.
3k	Provision of mining machineries in mineral benches	Excavator 0.9 cum-3, Loader 1.9 cum-2, Dumper 15T-6, Drill machine 100mm dia-1, Water Tanker - 1	Excavator 0.9 cum-4, Loader 1.9 cum-2, Dumper 15T-6, Drill machine 100mm dia-1, Water Tanker 12KL-1	Excavator 0.9 cum-4, Loader 1.9 cum-2, Dumper 15T-6, Drill machine 100mm dia-1, Water Tanker 12KL-1
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	19.670 ha proposed during approved plan period.	About 19.56 ha. ha area has been covered under excavation pits.	About 19.56 ha. ha area has been covered under excavation pits.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.127	1:0.87	Stripping ratio is less due to less ROM production than proposed.
3o	Total area put in use under different heads at the end of year	Area proposed under different heads are Pit-19.920 ha, waste dump-1.96 ha, Infrasructure-0.280, roads-0.75 ha & Mineral storage-3.9925 ha & others - 1.570 ha.	Area covered under different heads are Pit-19.56 ha, waste dump-1.96, Infrasructure & roads-1.030 ha & Mineral storage & others -5.562 ha.	Area covered under different heads are Pit-19.56 ha, waste dump-1.96, Infrasructure & roads-1.030 ha & Mineral storage & others -5.562 ha.

3p	Production of ROM mineral during the last five year period as applicable	13-14 - 499860T 14-15 - 499770T 15-16 - 500040T 16-17 - 500049T 17-18 - 500040T	13-14 - 439646T 14-15 - 499770T 15-16 - 499500T 16-17 - 499550T 17-18 - 291540	ROM Production is less due to low market demand.
3q	General remarks of inspecting officers on method of mining etc.	Excavation of ROM has been proposed in single pit.	The ROM production has been carried out in single pit. Top-A quarry. DTH drilling of 110mm 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 single pit 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)	Separate dumping for overburden and mineral reject.	Separate dumping for overburden and mineral reject are maintatined.	There is no top soil generation.
4b	Location of topsoil, OB and mineral reject dumps	OB/waste dump- E12690/E12885 to N2420846/N2420966, MR- E312690/E312748 to 8 to N2420646/2420696	OB/waste dump- E12690/E12885 to N2420846/N2420966, MR- E312690/E312748 to N2420646/2420696	Dumping of OB/waste and mineral reject are as per proposal.
4c	Number of dumps within lease area and outside of lease area	One active OB dump and one MR dump.	There is one active OB dump and one mineral reject present within lease area.	There is one active OB dump and one mineral reject present within lease area.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB/waste dump- E12690/E12885 to N2420846/N2420966, MR- E312690/E312748 to N2420646/2420696	OB/waste dump- E12690/E12885 to N2420846/N2420966, MR- E312690/E312748 to N2420646/2420696	Locations of dumps are outside UPL.
4e	Number of active and alive dumps.	One active OB dump and one MR dump.	There is one active OB dump and one mineral reject present within lease area.	There is one active OB dump and one mineral reject present within lease area.
4f	Number of dead dumps.	Present dump is active & there is no dead dump in lease area.	There is one dump in lease area which is active dump.	There is no dead dump.
4g	Number of dumps established.	Present dump is active & there is no dead dump in lease area.	There is one dump in lease area which is active dump.	Present dumps are active in nature.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain are exist around the dump. No new proposal.	Along the dumps retaining wall and garland drain are made. It is observed during inspection that retaining wall constructed around dump got damaged and not continuous in nature.	Shortcoming is pointed out through violation letter no. ORI/IRON/SNG/MCDR-9/BBS, dated 29/03/2019.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall and garland drain are exist around the dump. No new proposal.	Along the dumps retaining wall and garland drain are made. It is observed during inspection that retaining wall constructed around dump got damaged and not continuous in nature.	Shortcoming is pointed out through violation letter no. ORI/IRON/SNG/MCDR-9/BBS, dated 29/03/2019.
4j	Number of settling ponds	No proposal as there is one settling ponds exist in side of dump.	There is one settling ponds exist in the lease area.	There is one settling ponds exist in the lease area.



4k	Specific comments of inspecting officer on waste dump management	One active OB dump and one MR dump.	There is one active OB dump and one mineral reject present within lease area. Slope of the waste dump has been stabilised by plantation	It is observed during inspection that retaining wall constructed around dump got damaged and not continuous in nature. Shortcoming is pointed out through violation letter no. ORI/IRON/SNG/MCDR-9/BBS, dated 29/03/2019.
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#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is 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 pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.
5d	Total area fully reclaimed and rehabilitated	Not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Reclamation and rehabilitation not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.

## Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual return on PMCP	Annual return on PMCP has been submitted.	Annual return on PMCP has been submitted.
6b	Area available for rehabilitation (ha) .	Not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.
6c	afforestation done (ha).	0.392 ha area.	In 2017-18, 2000 nos. of tree. planted by lessee in 0.40 ha area.	In 2017-18, 2000 nos. of tree. planted by lessee in 0.40 ha area.
6d	No. of saplings planted during the year	627 nos. of saplings.	In 2017-18, 2000 nos. of tree. planted by lessee in 0.40 ha area.	In 2017-18, 2000 nos. of tree. planted by lessee in 0.40 ha area.
6e	Cumulative no .of plants	627 nos. of saplings in 2017-18.	Cumulative nos. of saplings planted in the lease area is about 41750.	Cumulative nos. of saplings planted in the lease area is about 41750.
6f	Any other method of rehabilitation	Not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.
6g	Cost incurred on watch and care during the year	Not specified.	Around Rs 75000/-cost incurred on watch and care.	Around Rs 75000/-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 pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is 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 pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is 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 pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is not matured for backfilling and reclamation and rehabilitation.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal as there is no waste land.	There is no waste land in lease area.	There is no waste land in lease area.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal as there is no waste land.	There is no waste land in lease area.	There is no waste land in lease area.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal as there is no waste land.	There is no waste land in lease area.	There is no waste land in lease area.
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 pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.	Pit is 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.
7c	Different grade of mineral sorted out at mines.	45% to 58% Fe and +58% Fe.	Different grades of minerals sorted out at mines are 45% to 58% Fe and +58% Fe.	Different grades of minerals sorted out at mines are 45% to 58% Fe and +58% Fe.
7d	Any beneficiation process at mines .	Not proposed.	Only crushing and screening Of ROM is being practiced.	Only crushing and screening Of ROM is being practiced.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Gradewise sorting of 45% to 58% Fe and +58% Fe.	Different grades of minerals sorted out at mines are 45% to 58% Fe and +58% Fe. Cut off grade of iron ore for the mine is +58%.	Different grades of minerals sorted out at mines are 45% to 58% Fe and +58% Fe. Cut off grade of iron ore for the mine is +58%.

#### 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 dumping for overburden and mineral reject.	Separate dumping for overburden and mineral reject are maintained.	Separate dumping for overburden and mineral reject are maintained.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed as pit is not fully exhausted.	Reclamation and rehabilitation not proposed as pit is not fully exhausted.	Pit is not matured for backfilling and reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation and rehabilitation not proposed as pit is not fully exhausted.	Reclamation and rehabilitation not proposed as pit is not fully exhausted.	Reclamation and rehabilitation not proposed as pit is not fully exhausted.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	627 nos. of plantation in 2017-18.	Total 2000 nos. saplings have been planted in 2017-18. Cumulative 41750 nos. have been planted by lessee .	Total 2000 nos. saplings have been planted in 2017-18. Cumulative 41750 nos. have been planted by lessee .
8g	Survival rate	Not specified.	As reported survival rate is 60%.	As reported survival rate is 60%.
8h	Water sprinkling on roads to control airborne dust	One water sprinkler.	One water sprinkler of 12KL is used to control air borne dust.	One water sprinkler of 12KL is used to control air borne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	627 nos. of plantation in 2017-18.	In 2017-18, total 2000nos of saplings have been planted by lessee. As reported cumulative no. of trees planted by lessee is about 41750 nos.	Aesthetic beauty in and aroun mined area is maintained plantation.

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 2017-18.	The employment status of mining engineer, geologist & mine manager have been furnished in the annual return submitted for the year 2017-18.	Mining engineer-2, Geologist-1 & Surveyor-1
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under different heads are Pit-19.920 ha, waste dump-1.96 ha, Plant, residential & building, roads-1.030 ha & Mineral storage & others -5.562 ha.	Area covered under different heads are Pit-19.920 ha, waste dump-1.96 ha, Plant, residential & building, roads-1.030 ha & Mineral storage & others -5.562 ha.	Area covered under different heads are Pit-19.920 ha, waste dump-1.96 ha, Plant, residential & building, roads-1.030 ha & Mineral storage & others -5.562 ha.
9d	Scrutiny of Annual return on afforestation	2000 nos. of tree.	2000 nos. of tree.	2000 nos. of tree.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	9180T Below 55% Fe.	9180T Below 55% Fe.	9180T Below 55% Fe.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock furnished gradewise Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62% and 62% to below 65% Fe.	Closing stock furnished gradewise Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62% and 62% to below 65% Fe.	Closing stock furnished gradewise Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62% and 62% to below 65% Fe.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine proce: Lump: 60% to below 62%- Rs 1967.36/- Fines: 58% to below 60%- Rs 1230/-	Ex mine proce: Lump: 60% to below 62%- Rs 1967.36/- Fines: 58% to below 60%- Rs 1230/-	Ex mine proce: Lump: 60% to below 62%- Rs 1967.36/- Fines: 58% to below 60%- Rs 1230/-
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets Rs 155922925/-	Value of Fixed Assets Rs 155922925/-	Value of Fixed Assets Rs 155922925/-
9k	Scrutiny of Annual return on mining machineries	Excavator 0.9 cum-4, Loader 1.9 cum-2, Dumper 15T-6, Drill machine 100mm dia-1, Water Tanker 12KL-1	Excavator 0.9 cum-4, Loader 1.9 cum-2, Dumper 15T-6, Drill machine 100mm dia-1, Water Tanker 12KL-1	Excavator 0.9 cum-4, Loader 1.9 cum-2, Dumper 15T-6, Drill machine 100mm dia-1, Water Tanker 12KL-1

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**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 12(1)	29/03/2019			

**Date :**

(DAYANAND UPADHYAY)

Indian Bureau of Mines