

MCDR-MiFLOBXT/3/2023-BBS-IBM_RO_BBS
INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/15254/2023

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/BXT/RGD/MCDR-1/BBS

Mine code : 07ORI27001

- (i) Name of the Inspecting : **SKM1**) **SANJIB KUMAR MOHAPATRA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Mukesh Jha (Agent), Sri Sanjay Pardhi (Mines Manag
Official with
Designation
- (iv) Date of Inspection : 05/07/2023
- (v) Prev.inspection date : 13/10/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BAPHLIMALI BAUXITE MINE**
- (b) **Registration NO.** : **IBM/75/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : RAYGADA
- Village : PAIK-KUPAKHAL
- Taluka : KASHIPUR
- Post office : MAI KUNCH
- Pin Code : 765015
- FAX No. : 06865-287100
- E-mail : utkal.alumina@adityabirla.c
- Phone : 06865-287040
- (f) Police Station : Andirakanch
- (g) First opening date : 03/11/2012
- (h) Weekly day of rest : SUN
2. Address for : AT- DORAGUDA, PO- KUCHEIPADAR,
correspondance VIA- TIKIRI, DIST-RAYAGADA
ODISHA-765015
3. (a) Lease Number : ORI0676
- (b) Lease area : 1388.74
- (c) Period of lease : 30
- (d) Date of Expiry : 16/02/2028
4. Mineral worked : BAUXITE Main

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5. Name and Address of the

Lessee : M/S UTKAL ALUMINA INTERNATIONAL LIMITED
RANIGUDA FARM LANE RAYAGADA
- 765001 ORISSA RAYGADA
ORISSA
Phone:06856-224193
FAX :06856-223278

Owner : M/S UTKAL ALUMINA INTERNATIONAL LIMITED
RANIGUDA FARM LANE RAYAGADA
- 765001 ORISSA RAYGADA
ORISSA
Phone: 06856-224193
FAX : 06856-223278

Agent : SHRI MUKESH JHA
BAPHLIMALI BAUXITE MINES
RAYGADA ORISSA
Phone:
FAX :

Mining Engineer

Name : SHRI SUBHRANSU BHUSAN SAHU,Full Time
Qualification : BE MINING
Appointment/ : 26/11/2019
Termination date

Geologist

Name : SHRI K C JYOTISHI,Full Time
Qualification : MSC GEOLOGY
Appointment/ : 01/12/2018
Termination date

Manager

Name : SHRI SANJAY PARDHI
Qualification : BE MINING
Appointment/ : 20/04/2021
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	01/11/2012
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	03/09/2014
	:	MP modif under 17(3) MCR 2016	11/11/2016
	:	MP modif under 17(3) MCR 2016	07/05/2018
	:	MS modif under MCR 1960	24/07/2020
	:	MS modif under MCR 1960	09/11/2021

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal. Lease area of 980.00 ha has been expored into G1 level. Unexplored lease area of 408.740 ha is Nonmineralize d slope area.	NIL	Bauxite mineralisation is aboudant in platue areas. The steeply sloping area is inaccessible for exploration and kept under unexplored category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Lease area of 980.00 ha has been expored into G1 level. Unexplored lease area of 408.740 ha is Nonmineralize d slope area.	Lease area of 980.00 ha has been expored into G1 level. Unexplored lease area of 408.740 ha is Nonmineralized slope area.	Lease area of 980.00 ha has been expored into G1 level. Unexplored lease area of 408.740 ha is Nonmineralized slope area.
1e	Balance reserve as on 01/04/20	Nil	154.855 Mt reserve	154.855 Mt reserve

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1f	General remarks of inspecting officers on geology, exploration etc	Lease area of 980.00 ha has been expored into G1 level. Unexplored lease area of 408.740 ha is Non-mineralized slope area. Bauxite mineralisation is aboudant in platue areas. The steeply sloping area is inaccessible for exploration and kept under unexplored category.	Lease area of 980.00 ha has been expored into G1 level. Unexplored lease area of 408.740 ha is Non-mineralized slope area. Bauxite mineralisation is aboudant in platue areas. The steeply sloping area is inaccessible for exploration and kept under unexplored category.	Lease area of 980.00 ha has been expored into G1 level. Unexplored lease area of 408.740 ha is Non-mineralized slope area. Bauxite mineralisation is aboudant in platue areas. The steeply sloping area is inaccessible for exploration and kept under unexplored category.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	706292 E to 707350 & 2141530 N to 2139870 proposed for the reporting year.	706292 E to 707350 & 2141530 N to 2139870 carried out during the rporting year.	706292 E to 707350 & 2141530 N to 2139870 carried out during the rporting year. The lessee has carried out within the proposed area.

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	The thickness of topsoil is very thin. Therefore no separate topsoil bench has been proposed. Scrapping of topsoil separately is proposed. separate benches in overburden and mineral are proposed.	Separate benches in overburden and mineral are maintained. Overburden- Bench-1 Ore-Bauxite- Bench- 2 to 4	Separate benches in overburden and mineral are maintained. Overburden- Bench- 1 Ore-Bauxite- Bench- 2 to 4
2c	Stripping ratio or ore to OB ratio	1:0.36	1:0.35	1:0.35
2d	Quantity of topsoil generation in m3	27580 cum	32627 Cum	32627 Cum
2e	Quantity of overburden generation in m3	2490922 Cum.	2442707 Cum.	2442707 Cum.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The lessee has carried out the development work as per the proposal during the reporting year. Development is carried out by opencast mining method.	The lessee has carried out the development work as per the proposal during the reporting year. Development is carried out by opencast mining method.	The lessee has carried out the development work as per the proposal during the reporting year. Development is carried out by opencast mining method.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	One

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3b	Quantity of ROM mineral production proposed	7002866 tonnes	6999810 tonnes	6999810 tonnes
3c	Recovery of sailable/usable mineral from ROM production	7002866 tonnes, 100%	6999810 tonnes, 100%	6999810 tonnes, 100%
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NA
3f	Quantity of sub grade mineral generation.	519631 tonnes	448298 tonnes	448298 tonnes
3g	Grade of sub grade mineral generation	+30 -40% Al2O3 -7% SiO2 (total)	+30 -40% Al2O3 -7% SiO2 (total)	+30 -40% Al2O3 -7% SiO2 (total)
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	100% OB and 50% Ore benches	100% OB and 50% Ore benches	100% OB and 50% Ore benches
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination is proposed for excavation and hauling.	Shovel and dumper combination is being carried out for excavation and hauling.	Shovel and dumper combination is being carried out for excavation and hauling.

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of the bench proposed is 6m.	The height of the bench is suitable for the method of mining proposed in mining plan.	The height of the bench is suitable for the method of mining proposed in mining plan.
3m	Total area covered under excavation/pits	202.85 Ha	203.05 Ha	203.05 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.36 t/cu.m.	1:0.35 t/cu.m.	1:0.35 t/cu.m.
3o	Total area put in use under different heads at the end of year	247.693 Ha.	237.294 Ha.	237.294 Ha.
3p	Production of ROM mineral during the last five year period as applicable	2017-18- 5299244 2018-19- 5315777 2019-20- 5299830 2020-21- 5384538 2021-22- 6038502	2017-18- 4368000 2018-19- 5299500 2019-20- 5297000 2020-21- 5299830 2021-22- 5998340	2017-18- 4368000 2018-19- 5299500 2019-20- 5297000 2020-21- 5299830 2021-22- 5998340
3q	General remarks of inspecting officers on method of mining etc.		The ROM production has been carried as proposed and the production is carried out by opencast mining method as per the proposal during the reporting year.	The ROM production has been carried as proposed and the production is carried out by opencast mining method as per the proposal during the reporting year.

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)	Proposal of stacking of Topsoil generated and use of the same in plantation purpose. No dumping proposal of OB generated. It is proposed to backfill the mined out area by using waste/OB generated. Proposal of blending of subgrade/mineral rejects generated.	The topsoil generated has been stacked and used for plantation purpose. The waste/OB generated has been used for backfilling. The mineral rejects blended during excavation and no separate stacking.	The topsoil generated has been stacked and used for plantation purpose. The waste/OB generated has been used for backfilling. The mineral rejects blended during excavation and no separate stacking.
4b	Location of topsoil, OB and mineral reject dumps	Nil	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	Nil
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil

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4h	Whether Retaining wall or garland drain all along dumps are there.	Nil around the dumps. However, about 265 Mtr of retaining wall and 2470 Mtr of garland drain already exist around the stack yard and existing pit boundaries.	Nil around the dumps. However, about 265 Mtr of retaining wall and 2470 Mtr of garland drain already exist around the stack yard and existing pit boundaries.	Nil around the dumps. However, about 265 Mtr of retaining wall and 2470 Mtr of garland drain already exist around the stack yard and existing pit boundaries.
4j	Number of settling ponds	Nil	Nil	Nil during the reporting year.
4k	Specific comments of inspecting officer on waste dump management		No dumping proposal during the reporting year. The waste material generated has been used for backfilling purpose. However, about 265 Mtr of retaining wall and 2470 Mtr of garland drain already exist around the stack yard and existing pit boundaries as protective measures.	No dumping proposal during the reporting year. The waste material generated has been used for backfilling purpose. However, about 265 Mtr of retaining wall and 2470 Mtr of garland drain already exist around the stack yard and existing pit boundaries as protective measures.

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.	Full extraction of mineral from mined out area before starting backfilling proposed.	Full extraction of mineral from mined out area before backfilling carried.	Full extraction of mineral from mined out area before backfilling carried.

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5b	Area under backfilling of mined out area	19.23 Ha.	19.794 Ha.	19.794 Ha.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use was proposed	Top soil being used for plantation.	Top soil being used for plantation.
5d	Total area fully reclaimed and rehabilitated	Reclaimed-19.23 Ha Rehabilitated-13.33 Ha	Reclaimed-19.23 Ha Rehabilitated-13.33 Ha	Reclaimed-19.23 Ha Rehabilitated-13.33 Ha till the reporting year.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Concurrent backfilling cum reclamation of the mined out areas are being practiced in the mined out area as proposed during the reporting year.	Concurrent backfilling cum reclamation of the mined out areas are being practiced in the mined out area as proposed during the reporting year.

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).	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	Submitted within the stipulated time period for the reporting year.	Submitted within the stipulated time period for the reporting year.
6b	Area available for rehabilitation (ha) .	13.33 Ha.	13.40 Ha.	13.40 Ha.
6c	afforestation done (ha).	28.33 Ha.	31.80 Ha.	31.80 Ha.
6d	No. of saplings planted during the year	70825 nos.	94491 nos of sapplings were planted during the reporting year.	94491 nos of sapplings were planted during the reporting year.

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6e	Cumulative no .of plants		426780 nos of sapplings were planted till the reporting year.	426780 nos of sapplings were planted till the reporting year.
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	19.23 Ha.	19.794 Ha.	19.794 Ha.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	19.23 Ha.	19.794 Ha.	19.794 Ha.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	13.33 Ha.	13.40 Ha.	13.40 Ha.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil

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6m	Compliance of rehabilitation of waste land within lease (i)afforestation	13.33 Ha.	13.40 Ha.	13.40 Ha.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	13.33 Ha.	13.40 Ha.	13.40 Ha.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB will be done.	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB are carried out during the reporting year.	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB are carried out during the reporting year.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The lessee has carried out afforestation and periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB are carried out during the reporting year.	The lessee has carried out afforestation and periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB are carried out during the reporting year.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal for the reporting year.	ROM from the mine directly sent to the refinery plant after crushing within the lease area is being practicesd during the reporting year.	ROM from the mine directly sent to the refinery plant after crushing within the lease area is being practicesd during the reporting year.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	NA
7c	Different grade of mineral sorted out at mines.	Not proposed.	ROM from the mine directly sent to the refinery plant after crushing within the lease area is being practicesd during the reporting year.	ROM from the mine directly sent to the refinery plant after crushing within the lease area is being practicesd during the reporting year.
7d	Any beneficiation process at mines .	Nil	No beneficiation process was proposed. Only crushing is being carried out during the reporting year.	No beneficiation process was proposed. Only crushing is being carried out during the reporting year.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM from the mine directly sent to the refinery plant after crushing within the lease area is being practicesd during the reporting year. further no beneficiation process was proposed. Only crushing is being carried out during the reporting year.	ROM from the mine directly sent to the refinery plant after crushing within the lease area is being practicesd during the reporting year. further no beneficiation process was proposed. Only crushing is being carried out during the reporting year.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal by scraping of topsoil proposed and use for backfilling/plantation.	Separate removal by scraping of topsoil proposed and use for backfilling/plantation is being practiced during the reporting year.	Separate removal by scraping of topsoil proposed and use for backfilling/plantation is being practiced during the reporting year.
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil is proposed.	Concurrent use of topsoil is carried out for plantation purpose during the reporting year.	Concurrent use of topsoil is carried out for plantation purpose during the reporting year.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No separate dumping proposal for OB, mineral reject and fines.	No separate dumping proposal for OB, mineral reject and fines are carried out as the ROM directly fed to the crushing plant and subsequently sent to the refinery plant by conveyor belt and OB are being used for backfilling of exhausted/mined out areas during the reporting year.	No separate dumping proposal for OB, mineral reject and fines are carried out as the ROM directly fed to the crushing plant and subsequently sent to the refinery plant by conveyor belt and OB are being used for backfilling of exhausted/mined out areas during the reporting year.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB/waste is proposed for backfilling of mined out area during the reporting year.	OB/waste was used for backfilling of mined out area.	OB/waste was used for backfilling of mined out area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Concurrent backfilling and plantation has been proposed.	Concurrent backfilling and plantation is being practiced during the reporting year.	Concurrent backfilling and plantation is being practiced during the reporting year.

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	70800 sapplings	94491 sapplings	94491 sapplings
8g	Survival rate	70%	69 % survival rate during the reporting year.	69 % survival rate during the reporting year.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by permanent water sprinkler and water tanker over haul roads were proposed.	Water sprinkling by permanent water sprinkler and water tanker over haul roads has been carried out during the reporting year.	Water sprinkling by permanent water sprinkler and water tanker over haul roads has been carried out during the reporting year.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Lessee has planted 94491 nos of sapling within the lease area. Water sprinkling by water tanker over haul roads has been carried out. Stationary sprinkler system has been fixed along the haul roads. Using of mist cannon to control the airborne dust and to minimize the fugutive dust emmision. This sustains the asthetic beauty of the mine area.	Lessee has planted 94491 nos of sapling within the lease area. Water sprinkling by water tanker over haul roads has been carried out. Stationary sprinkler system has been fixed along the haul roads. Using of mist cannon to control the airborne dust and to minimize the fugutive dust emmision. This sustains the asthetic beauty of the mine area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly returns and annual return for the reporting year to be submitted within the stipulated time period.	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Employment of Mining Engineer, Geologist and Mines Manager mentioned in the Annual return of the reporting year; 1. Sri Sanjay Pardhi - Mines Manager 2. Sri Subhransu Bhusan Sahoo- Mining Engineer 3. Sri Krishna Ch Jyotishi - Geologist.	1. Sri Sanjay Pardhi - Mines Manager 2. Sri Subhransu Bhusan Sahoo- Mining Engineer 3. Sri Krishna Ch Jyotishi - Geologist. Mines manager, Mining engineer & Geologist were present during the inspection.	1. Sri Sanjay Pardhi - Mines Manager 2. Sri Subhransu Bhusan Sahoo- Mining Engineer 3. Sri Krishna Ch Jyotishi - Geologist. Mines manager, Mining engineer & Geologist were present during the inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 203.050 Ha. OB Dump- Nil Infrastructure & Road- 30.244 Ha. Mineral Storage- 4.00 Ha. Reclaimed & Rehabillitated -123.754 ha	Pit- 203.050 Ha. OB Dump- Nil Infrastructure & Road- 30.244 Ha. Mineral Storage- 4.00 Ha. Reclaimed & Rehabillitated-123.754 ha	Pit- 203.050 Ha. OB Dump- Nil Infrastructure & Road- 30.244 Ha. Mineral Storage- 4.00 Ha. Reclaimed & Rehabillitated- 123.754 ha

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9d	Scrutiny of Annual return on afforestation	94491 spplings were planted within the ML area and 5800 nos of spplings were planted out side of the ML area during the reporting year.	94491 spplings were planted within the ML area and 5800 nos of spplings were planted out side of the ML area during the reporting year.	94491 spplings were planted within the ML area and 5800 nos of spplings were planted out side of the ML area during the reporting year.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock : 199490.000 tonne Production: 6999810.000 tonne Closing stock: 298118.000 tonne	Opening stock : 199490.000 tonne Production: 6999810.000 tonne Closing stock: 298118.000 tonne	Opening stock : 199490.000 tonne Production: 6999810.000 tonne Closing stock: 298118.000 tonne
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine Price- Rs. 808.29/-	Ex. Mine Price- Rs. 808.29/-	Ex. Mine Price- Rs. 808.29/-
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: Rs. 8264749715/-	Value of Fixed Assets: Rs. 8264749715/-	Value of Fixed Assets: Rs. 8264749715/-

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9k	Scrutiny of Annual return on mining machineries	Back Hoe- 6.0 Cum: 1 No Back Hoe- 4.8 Cum: 3 Nos Back Hoe- 4.5 Cum: 2 Nos Back Hoe- 1.1 Cum: 1 No Dumper- 55 tonne: 9 Nos Dumper- 60 tonne: 8 Nos Dozer- 3 Nos Wheel Loader- 7.7 Cum: 1 No Motor Grader- 1 No Water Tanker- 28000 ltr.: 2 Nos Blast Hole Drill- 4 Nos Crane- 12 Ton: 1 No	Back Hoe- 6.0 Cum: 1 No Back Hoe- 4.8 Cum: 3 Nos Back Hoe- 4.5 Cum: 2 Nos Back Hoe- 1.1 Cum: 1 No Dumper- 55 tonne: 9 Nos Dumper- 60 tonne: 8 Nos Dozer- 3 Nos Wheel Loader- 7.7 Cum: 1 No Motor Grader- 1 No Water Tanker- 28000 ltr.: 2 Nos Blast Hole Drill- 4 Nos Crane- 12 Ton: 1 No	Back Hoe- 6.0 Cum: 1 No Back Hoe- 4.8 Cum: 3 Nos Back Hoe- 4.5 Cum: 2 Nos Back Hoe- 1.1 Cum: 1 No Dumper- 55 tonne: 9 Nos Dumper- 60 tonne: 8 Nos Dozer- 3 Nos Wheel Loader- 7.7 Cum: 1 No Motor Grader- 1 No Water Tanker- 28000 ltr.: 2 Nos Blast Hole Drill- 4 Nos Crane- 12 Ton: 1 No
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Details of violations observed during current inspection and compliance position of violation pointed out

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

Date :**(SANJIB KUMAR MOHAPATRA)**

Indian Bureau of Mines