

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-60/BBS

Mine code : 30ORI08013

- (i) Name of the Inspecting : **SRM**) **SHRI SUDIP RANJAN MAZUMDAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Tarun Kanti Roy, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 10/01/2018
- (v) Prev.inspection date : 17/02/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BOLANI**
- (b) **Registration NO.** : **IBM/1120/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : BOLANI
- Taluka : BARBIL
- Post office : BOLANI
- Pin Code : 758037
- FAX No. : 06767-30246
- E-mail : rmdbom2016@gmail.com
- Phone : 06767-60207
- (f) Police Station : Bolani
- (g) First opening date : 12/04/1960
- (h) Weekly day of rest : SUN
2. Address for : BOLANI ORES MINES, AT/PO: BOLANI
correspondance KEONJHAR DISTRICT
ORISSA
3. (a) Lease Number : ORI0102
- (b) Lease area : 1321.45
- (c) Period of lease : 20
- (d) Date of Expiry : 09/04/2010
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : STEEL AUTHORITY OF INDIA LIMITED
 PURNAPANI LIMESTONE MINE
 SUNDERGARH DISTRICT -770
 ORISSA SUNDARGARH ORISSA
 Phone:0661-728121
 FAX :

Owner : Kalyan Maity, (Director cum Nominated Owner)
 SAIL, RAW MATERIAL DIVISION
 Industry House (4th to 6th
 Floor) 10, Camac Street,
 Kolkata KOLKATA WEST BENGAL
 Phone: 033-22825255
 FAX :

Agent : A.K.MISHRA
 KEONJHAR ORISSA
 Phone:
 FAX :

Mining Engineer
 Name : Ravi Ranjan, Full Time
 Qualification : B.Tech in Mining Engineering
 Appointment/ : 01/05/2016
 Termination date

Geologist
 Name : Joydev Chattopadhyay, Full Time
 Qualification : M.Sc.Tech in Applied Geology
 Appointment/ : 01/06/2016
 Termination date

Manager
 Name : Tarun Kanti Roy
 Qualification : B.TECH (MINING)
 Appointment/ : 10/07/2014
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 18/01/2001
 Mining Scheme rule 12 MCDR1988 25/10/2002
 Mining Scheme rule 12 MCDR1988 24/05/2007
 Renewal under rule 24 MCR1960 13/01/2010
 Mining Scheme rule 12 MCDR1988 03/08/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	33 boreholes have been proposed to be drilled in the year 2016-17	13 boreholes have been drilled in the year 2016-17.	Short fall due want of forest clearance as the drilling proposal falls over the un-diverted forest area.
1b	Exploration over lease area for geological axis 1 or 2	No Specific proposal	Lease area explored under G1 is 348.68 ha & G2 is 195.89 ha. The total area explored under G1 & G2 level of exploration is 544.57 Ha.	Lease area explored under G1 is 348.68 ha & G2 is 195.89 ha. The total area explored under G1 & G2 level of exploration is 544.57 Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	ExPloration Agency: M/S MECL (A Central Public Sector Enterprise)	Exploration agency is M/S MECL and total expenditure incurred is approximately Rs 2.3 Crore.	Exploration agency is M/S MECL and total expenditure incurred is approximately Rs 2.3 Crore.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Specific Proposal	Balance area to explore under G1 and G2 level of UNFC is 776.88 Ha.	Balance area to explore under G1 and G2 level of UNFC is 776.88 Ha.
1e	Balance reserve as on 01/04/20	As on 01.04.2016 Reserves: 250.62 MT Resources: 57.68 MT Total Reserve and Resource: 308.30 MT	ROM Production during the year 2016-17 was 5.68 MT. Reserve as on 01.04.2017 Reserves: 244.94 MT Resources: 57.68 MT Total Reserve and Resource is : 302.62 MT	ROM Production during the year 2016-17 was 5.68 MT. Reserve as on 01.04.2017 Reserves: 244.94 MT Resources: 57.68 MT Total Reserve and Resource is : 302.62 MT

1f	General remarks of inspecting officers on geology, exploration etc	No Comments	The total area explored under G1 & G2 level of exploration is 544.57 Ha. The proposals for exploration as per the exploration plan for 2016-17 could not be completed due want of forest clearance as the drilling proposal falls over the un-diverted forest area.	The total area explored under G1 & G2 level of exploration is 544.57 Ha. The proposals for exploration as per the exploration plan for 2016-17 could not be completed due want of forest clearance as the drilling proposal falls over the un-diverted forest area.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	F-area: S2181-S2320/ W2617-W2646 G-area: S846-S932/W2165-W2261 D-area: N1071-N1148/E860-E901 Panposh: N124-N157/E260-E341	F-area: S2181-S2320/W2617-W2646 G-area: S846-S932/W2165-W2261 D-area: N1071-N1148/E860-E901 Panposh: N124-N157/E260-E341	F-area: S2181-S2320/ W2617-W2646 G-area: S846-S932/W2165-W2261 D-area: N1071-N1148/E860-E901 Panposh: N124-N157/E260-E341
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches overburden and mineral not proposed	Separate benches overburden and mineral not maintained.	Separate benches overburden and mineral not maintained.
2c	Stripping ratio or ore to OB ratio	1 : 0.81	1 : 0.44	
2d	Quantity of topsoil generation in m3	Nil	No top soil is being generated during the year.	No top soil is being generated during the year.

2e	Quantity of overburden generation in m3	Quantity of overburden generation proposed for generation is 3540000 m3	Quantity of overburden generated during the year 1125852 m3 or (2476875T)	Quantity of overburden generated during the year 1125852 m3 or (2476875T)
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No Comments	The location of development is as per the proposal for the year 2016-17.	The location of development is as per the proposal for the year 2016-17.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Four (04) number of pits proposed for production. F-area: S2181-S2320/ W2617- W2646 G-area: S846-S932/W2165- W2261 D-area: N1071- N1148/E860- E901 Panposh: N124- N157/E260-E341	Four (04) number of pits put for production. F-area: S2181-S2320/ W2617-W2646 G-area: S846-S932/W2165- W2261 D-area: N1071- N1148/E860-E901 Panposh: N124-N157/E260-E341	Four (04) number of pits put for production. F-area: S2181-S2320/ W2617-W2646 G-area: S846-S932/W2165-W2261 D-area: N1071- N1148/E860-E901 Panposh: N124- N157/E260-E341
3b	Quantity of ROM mineral production proposed	Proposal for ROM production fo rthe year 2016-17 was 9.62 million tones	Actual ROM Production fo rthe year 2016-17 was 5.68 million tones	Actual ROM Production fo rthe year 2016-17 was 5.68 million tones
3c	Recovery of sailable/usable mineral from ROM production	Recovery of saleable/usuab le mineral from ROM is 82.6%.	Recovery of saleable/usable mineral from ROM is 98.3%.	Subgrade material generated during mining was not be fully blended with high grade ore as per proposal and has been stacked separately. Hence, the recovery of saleable material is more than proposal.

3d	Quantity of mineral reject generation	The proposal for MR generation was 1.67 million tones	Actual mineral reject generation was 94374 tones.	It was proposed that subgrade generated will be blended with high grade ore. But all the subgrade generated could not be blended with high grade ore and stacked separately. There is no designated area marked for stacking subgrade ore in the approved scheme of mining. Hence, it has been intimated to lessee through violation letter.
3e	Grade of mineral rejects generation and threshold value declared.	Grade of mineral reject generation is +45% Fe to 55% Fe, Threshold value for Iron is +45% fe	Grade of mineral reject generation is +45% Fe to 55% Fe, Threshold value for Iron is +45% fe	Grade of mineral reject generation is +45% Fe to 55% Fe, Threshold value for Iron is +45% fe
3f	Quantity of sub grade mineral generation.	The proposal for MR generation was 1.67 million tones	Actual mineral reject generation was 94374 tones.	It was proposed that subgrade generated will be blended with high grade ore. But all the subgrade generated could not be blended with high grade ore and stacked separately. There is no designated area marked for stacking subgrade ore in the approved scheme of mining. Hence, it has been intimated to lessee through violation letter.

3g	Grade of sub grade mineral generation	Grade of mineral reject generation is +45% Fe to 55% Fe.	Grade of mineral reject generation is +45% Fe to 55% Fe.	Grade of mineral reject generation is +45% Fe to 55% Fe.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method	Mechanized method	Mechanized method
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not Applicable	Not Applicable
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	9.5 m3 capacity hydraulic shovel, 100 tons dumpers , drill master, dozer etc	9.5 m3 capacity hydraulic shovel, 100 tons dumpers , drill master, dozer etc	9.5 m3 capacity hydraulic shovel, 100 tons dumpers , drill master, dozer etc
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes the height of the benches is suitable for the method of mining proposed in the scheme of mining.	Yes the height of the benches is suitable for the method of mining proposed in the scheme of mining.
3m	Total area covered under excavation/pits	277.36 Ha.	277.36 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.81	1 : 0.44	
3o	Total area put in use under different heads at the end of year	Total area at the end of plan period is 559.9789 Ha	Total area put in use at the end of year is 456.71 Ha	Total area put in use at the end of year is 456.71 Ha

3p	Production of ROM mineral during the last five year period as applicable	ROM Production Proposal (in million tones) 2011-12: 12 MT 2012-13: 12 MT 2013-14: 12 MT 2014-15: 12 MT 2015-16: 9.62 MT	Actual ROM Production in tonnes 2011-12: 3745275 T 2012-13: 3075927 T 2013-14: 3785357 T 2014-15: 4342889 T 2015-16: 5354705 T	Actual ROM Production in tonnes 2011-12: 3745275 T 2012-13: 3075927 T 2013-14: 3785357 T 2014-15: 4342889 T 2015-16: 5354705 T
3q	General remarks of inspecting officers on method of mining etc.	No Comments	Exploitation of mineral has been done from four nos. of pits. The production was less than proposed. The subgrade ore was proposed to be blended with high grade ROM. Instead certain quantity of subgrade mineral has not been blended with ROM and stacked separately.	Exploitation of mineral has been done from four nos. of pits. The production was less than proposed. The subgrade ore was proposed to be blended with high grade ROM. Instead certain quantity of subgrade mineral has not been blended with ROM and stacked separately.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping is planned for OB while the Mineral Reject/ Sub-grade ore will be blended with high grade ore while the top soil generation will be nil.	OB & IB waste is dumped in the earmarked areas where as the sub-grade ore produced concurrent to mining could not be blended with high grade ore and stacked separately. There is no top soil generation	The subgrade ore was proposed to be blended with high grade ROM. Instead certain quantity of subgrade mineral has not been blended with ROM and stacked separately.

4b	Location of topsoil, OB and mineral reject dumps	Location of Waste dumps: F-Area: S1720-S2240/W2610-W3250 G-Area: S980-S1220/W2070-W2230 D-Area: N820-N960/E1070-E1150 Panposh Area: S70-S260/E290-E440; N50-N320/ E80-W290	Location of waste dumping: F-area: S2217-S2494/W2822-W3000 G-area: S980-S1225/W1737-W2158 D-area: N717-N1107/E518-E700 Panposh: N67-S160/E170-E320; N25-N390/E103-W173	There is no proposal for subgrade stacking and top soil generation will be nil.
4c	Number of dumps within lease area and outside of lease area	Within Lease area Fines dump: 03 nos. F-area: 2 nos. of waste dumps G-area: 02 nos. waste dumps & 01 no. of subgrade dump. D-area: 02 nos. of waste dumps. Panposh: 05 nos. waste dumps	Within Lease area Fines dump: 03 nos. F-area: 2 nos. of waste dumps G-area: 02 nos. waste dumps & 01 no. of subgrade dump. D-area: 02 nos. of waste dumps. Panposh: 05 nos. waste dumps	Within Lease area Fines dump: 03 nos. F-area: 2 nos. of waste dumps G-area: 02 nos. waste dumps & 01 no. of subgrade dump. D-area: 02 nos. of waste dumps. Panposh: 05 nos. waste dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Location of dumps in following areas: F-area: Within UPL G-area: Within UPL D-Area: Outside UPL Panposh: Outside UPL Fines dump: Outside UPL	Location of dumps in following areas: F-area: Within UPL G-area: Within UPL D-Area: Outside UPL Panposh: Outside UPL Fines dump: Outside UPL	Location of dumps in following areas: F-area: Within UPL G-area: Within UPL D-Area: Outside UPL Panposh: Outside UPL Fines dump: Outside UPL

4e	Number of active and alive dumps.	F-area: 01 active G-area: 02 active D-Area: 01 active Panposh: 01 active Fines dump: inactive	F-area: 01 active G-area: 02 active D-Area: 01 active Panposh: 01 active Fines dump: inactive	F-area: 01 active G-area: 02 active D-Area: 01 active Panposh: 01 active Fines dump: inactive
4f	Number of dead dumps.	Number of dead dumps: F-area: 01 inactive G-area: 01 inactive D-Area: 01 inactive Panposh: 04 inactive Fines dump: inactive	Number of dead dumps: F-area: 01 inactive G-area: 01 inactive D-Area: 01 inactive Panposh: 04 inactive Fines dump: inactive	Number of dead dumps: F-area: 01 inactive G-area: 01 inactive D-Area: 01 inactive Panposh: 04 inactive Fines dump: inactive
4g	Number of dumps established.	Number of dumps stabilized: F-area: 01 stabilized G-area: Nil D-Area: 01 stabilized Panposh: 02 stabilized	Number of dumps stabilized: F-area: 01 stabilized G-area: Nil D-Area: 01 stabilized Panposh: 02 stabilized	Number of dumps stabilized: F-area: 01 stabilized G-area: Nil D-Area: 01 stabilized Panposh: 02 stabilized
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Proposal for construction of retaining wall: G-area: RW-718x1.5x1.2 D-area: RW-569x1.5x1.2	Retaining wall constructed RW-1162 x 1 x 2	Retaining wall constructed RW-1162 x 1 x 2

4j	Number of settling ponds	2 Nos. Dimension 15m (L) x 10m (W)	Nil	
4k	Specific comments of inspecting officer on waste dump management	No Comments	OB dumping has been done as per proposal. The subgrade material could not be fully blended with high grade ROM and is stacked separately. The dumps are located outside the UPL.	OB dumping has been done as per proposal. The subgrade material could not be fully blended with high grade ROM and is stacked separately. The dumps are located outside the UPL.

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.	There is no proposal for backfilling.	None of the working pits completely demineralized except South-western part of F-area.	None of the working pits completely demineralized except South-western part of F-area.
5b	Area under backfilling of mined out area	Not Proposed	0.1 Ha. In F area	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no proposal for top soil generation.	Topsoil generated incidental to development is being utilized only for plantation at different areas within lease.	Topsoil generated incidental to development is being utilized only for plantation at different areas within lease.
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Not Applicable	Not Applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Comments	Solid waste management done as per the proposal	Solid waste management done as per the proposal

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).	Annual report on Protective & Rehabilitative work carried out to be given by 30th June.	Annual Report on PMCP for the year 2016-17 has been submitted.	Annual Report on PMCP for the year 2016-17 has been submitted.
6b	Area available for rehabilitation (ha) .	Not Proposed	Not Applicable	Not Applicable
6c	afforestation done (ha).	3.51 Ha.	6.00 Ha.	6.00 Ha.
6d	No. of saplings planted during the year	Number of samplings proposed for planation in 2016-17 was 8775 Nos.	No. of saplings planted during the year was 25000 Nos.	No. of saplings planted during the year was 25000 Nos.
6e	Cumulative no .of plants	Cumulative no. of plants to be planted proposed was 20300 Nos.	Cumulative no. of plants planted was 220000 Nos.	Cumulative no. of plants planted was 220000 Nos.
6f	Any other method of rehabilitation	Not Proposed	Not Applicable	Not Applicable
6g	Cost incurred on watch and care during the year	Rs 4.12 Lakhs	Rs 20.12 Lakhs	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed	Not Applicable	Not Applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Not Applicable	Not Applicable

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	Not Applicable	Not Applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Not Applicable	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Not Applicable	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Not Applicable	Not Applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Not Applicable	Not Applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Not Applicable	Not Applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	04 CAAQMS stations to monitor AAQ Quarterly Water pollution monitoring	04 CAAQMS stations installed and up-linked to SPCB sever Quarterly water Monitoring outsourced to NABL Accredited laboratory.	04 CAAQMS stations installed and up-linked to SPCB sever Quarterly water Monitoring outsourced to NABL Accredited laboratory.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No Comments	Compliance on PMCP is as per proposal.	Compliance on PMCP is as per proposal.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not Specified	Grade wise lump and fines dispatch: Lump: 62% to below 65% and Fines: 62% to below 65%	Grade wise lump and fines dispatch: Lump: 62% to below 65% and Fines: 62% to below 65%
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines.	Not Specified	Grade wise lump and fines dispatch: Lump: 62% to below 65%; Fines: 62% to below 65%	Grade wise lump and fines dispatch: Lump: 62% to below 65%; Fines: 62% to below 65%
7d	Any beneficiation process at mines .	The existing crushing and processiing facilities at Bolani include hill top crushing plant, screening and washing plant with slime disposal facility.	Beneficiation carried out as per proposal in which wet beneficiation continued till approximately mid of february 2017 after which it is stopped. Crushhing and screening progressed.	Beneficiation carried out as per proposal in which wet beneficiation continued till approximately mid of february 2017 after which it is stopped. Crushhing and screening progressed.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No Comments	Beneficiation carried out as per proposal in which wet beneficiation continued till approximately mid of february 2017 after which it is stopped. Crushhing and screening progressed.	Beneficiation carried out as per proposal in which wet beneficiation continued till approximately mid of february 2017 after which it is stopped. Crushhing and screening progressed.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no proposal for top soil generation during current scheme period.	Topsoil generated incidental to development is being utilized only for plantation at different areas within lease.	Topsoil generated incidental to development is being utilized only for plantation at different areas within lease.
8b	Concurrent use or storage of topsoil	Not Proposed	Not Applicable	Not Applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	Yes
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Not Applicable	Not Applicable

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not Applicable	Not Applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not Specified	Number of trees planted during the year : 25000 Nos.	Number of trees planted during the year : 25000 Nos.
8g	Survival rate	Not Specified	As reported survival rate within the lease area is 60%.	As reported survival rate within the lease area is 60%.
8h	Water sprinkling on roads to control airborne dust	Air born dust to be controlled by water sprinkling system on the haulage roads.	Water sprinkling is done to suppress the airborne dust by using water tankers. Permanent sprinklers installed along Panposh road & 600tph plant road.	Water sprinkling is done to suppress the airborne dust by using water tankers. Permanent sprinklers installed along Panposh road & 600tph plant road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No Comments	Aesthetic beauty in and around mines is maintained.	Aesthetic beauty in and around mines is maintained.

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 under Rule 45(5)(b)(i) of MCDR 2017 by 10th day of every month in Form F-1 of the Schedule. Annual Return under Rule 45(5)(c)(i) of MCDR 2017 by 1st July of every year.	Annual return for the year 2016-17 has been submitted. Monthly return till Jan'18 has been submitted.	Annual return for the year 2016-17 has been submitted. Monthly return till Jan'18 has been submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer:15 Diploma Mining Engineer: 17 Geologist: 3	Graduate Mining Engineer:15 Diploma Mining Engineer: 17 Geologist: 3	Graduate Mining Engineer:15 Diploma Mining Engineer: 17 Geologist: 3
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings : 360.10 Ha Used for waste disposal: 14 Ha Occupied by plant, buildings, residential, welfare buildings & roads: 70.11 Ha etc.	Covered under current (O/C) Workings : 360.10 Ha Used for waste disposal: 14 Ha Occupied by plant, buildings, residential, welfare buildings & roads: 70.11 Ha etc.	Covered under current (O/C) Workings : 360.10 Ha Used for waste disposal: 14 Ha Occupied by plant, buildings, residential, welfare buildings & roads: 70.11 Ha etc.
9d	Scrutiny of Annual return on afforestation	Number of saplings planted during the year : 25000 Nos. within the lease area	Number of saplings planted during the year : 25000 Nos. within the lease area	Number of saplings planted during the year : 25000 Nos. within the lease area

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Quantity of Mineral rejects generation: 94374 tonnes	Quantity of Mineral rejects generation: 94374 tonnes	Quantity of Mineral rejects generation: 94374 tonnes
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock at mine head (in tonne) Lump: 62% to below 65%: 102691.310 tonnes Fines: 62% to below 65%: 1737112.350 tonnes	Closing stock at mine head (in tonne) Lump: 62% to below 65%: 102691.310 tonnes Fines: 62% to below 65%: 1737112.350 tonnes	Closing stock at mine head (in tonne) Lump: 62% to below 65%: 102691.310 tonnes Fines: 62% to below 65%: 1737112.350 tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price (in Rs Per Tonne) Lump: 62% to below 65%: 387.34 Fines: 62% to below 65%: 387.34	Ex-mine price (in Rs Per Tonne) Lump: 62% to below 65%: 387.34 Fines: 62% to below 65%: 387.34	Closing stock at mine head (in tonne) Lump: 62% to below 65%: 102691.310 tonnes Fines: 62% to below 65%: 1737112.350 tonnes
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs) 7392303 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)	Value of Fixed Assets (in Rs) 7392303 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)	Value of Fixed Assets (in Rs) 7392303 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) : 6 Nos. BACK HOE: 2 Nos. DUMPER: 12 Nos. ROCK DRILL (NONELEC.): 4 Nos. FRONT END LOADER: 5 Nos.	SHOVEL (HYDRAULIC) : 6 Nos. BACK HOE: 2 Nos. DUMPER: 12 Nos. ROCK DRILL (NONELEC.): 4 Nos. FRONT END LOADER: 5 Nos.	SHOVEL (HYDRAULIC) : 6 Nos. BACK HOE: 2 Nos. DUMPER: 12 Nos. ROCK DRILL (NONELEC.): 4 Nos. FRONT END LOADER: 5 Nos.

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)	12/01/2018			

Date :

(**SHRI SUDIP RANJAN MAZUMDAR**)

Indian Bureau of Mines