

**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 Kamal Bhasker, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 08/03/2020
- (v) Prev.inspection date : 27/08/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BOLANI**
- (b) **Registration NO.** : **IBM/1120/2011**
- (c) **Category** : **A Fully 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** : **09/04/2030**
4. **Mineral worked** : **IRON ORE** Main

5. Name and Address of the

Lessee : M/s Steel Authority of India Ltd (SAIL)
Ispat Bhwan, Lodhi Road New
Delhi DELHI DELHI
Phone:011-24367481-86
FAX :011-24367015/22467458

Owner : SHRI VIVEK GUPTA
Isapt Bhwan, Lodhi Road New
Delhi DELHI DELHI
Phone: 9434776837
FAX : 011-24367015

Agent : SHRI A K MISHRA
KEONJHAR ODISHA KEONJHAR
ORISSA
Phone: 9437007518
FAX : 06767-260172

Mining Engineer

Name : SHRI RAJESH KUMAR, Full Time
Qualification : B TECH MINING
Appointment/ : 20/07/2019
Termination date

Geologist

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

Manager

Name : SHRI KAMAL BHASKAR
Qualification : B TECH MINING
Appointment/ : 11/06/2018
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	18/01/2001
Plan/Scheme of Mining	:	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
	:	MS modif under MCR 1960	06/08/2018
	:	MP review under 17(1) MCR 2016	13/11/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In 2018-19, 23 numbers of boreholes were proposed to be drilled.	The proposed boreholes have not been drilled during the year 2018-19 due to delay in obtaining forest permission.	Violation observed was communicated to lessee during previous inspection dated 27.08.2019 which was subsequently complied.
1b	Exploration over lease area for geological axis 1 or 2	In 2018-19, 23 numbers of boreholes were proposed to be drilled.	The proposed boreholes have not been drilled during the year 2018-19 due to delay in obtaining forest permission.	Violation observed was communicated to lessee during previous inspection dated 27.08.2019 which was subsequently complied.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such specific proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	In 2018-19, 23 numbers of boreholes were proposed to be drilled	The proposed boreholes have not been drilled during the year 2018-19 due to delay in obtaining forest permission. As on 01.04.2019, area under G1: 199.22 Ha, G2: 382.83 Ha, G3: 739.40 Ha	The proposed boreholes have not been drilled during the year 2018-19 due to delay in obtaining forest permission. As on 01.04.2019, area under G1: 199.22 Ha, G2: 382.83 Ha, G3: 739.40 Ha
1e	Balance reserve as on 01/04/20	As per the modification of review of mining plan approved dated 06.08.2018, the iron ore reserves are 247 million tones and resources are 64.18 million tones.	As per the Review of Mining plan approved dated 13.11.2019, the updated reserve and resources as on 01.04.2019 is as follows: Reserve: 315.11 million tones and resources at 69.54 million tones.	As per the Review of Mining plan approved dated 13.11.2019, the updated reserve and resources as on 01.04.2019 is as follows: Reserve: 315.11 million tones and resources at 69.54 million tones.

1f	General remarks of inspecting officers on geology, exploration etc	In 2018-19, 23 numbers of boreholes were proposed to be drilled	There was no exploration work carried out during the year 2018-19 due to delay in obtaining forest permission. Violation observed was communicated to lessee during previous inspection dated 27.08.2019 which was subsequently complied. As on 01.04.2019, area under G1: 199.22 Ha, G2: 382.83 Ha, G3: 739.40 Ha.	There was no exploration work carried out during the year 2018-19 due to delay in obtaining forest permission. Violation observed was communicated to lessee during previous inspection dated 27.08.2019 which was subsequently complied. As on 01.04.2019, area under G1: 199.22 Ha, G2: 382.83 Ha, G3: 739.40 Ha.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Four quarries (FArea, G-Area, D-Area and Panposh area are proposed for development during the year 2018-19.	Development is carried out in the proposed quarries as proposed in the approved mining plan.	Development is carried out in the proposed quarries as proposed in the approved mining plan.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil generation is envisaged in the mining plan and seperate benches in mineral and OB are proposed.	Seperate benches in OB and mineral are maintained.	Seperate benches in OB and mineral are maintained.
2c	Stripping ratio or ore to OB ratio	1:0.36 t/cu.m.	1:0.22 t/cu.m.	1:0.22 t/cu.m.
2d	Quantity of topsoil generation in m3	Not proposed	Nil	Nil

2e	Quantity of overburden generation in m ³	1692679 m ³	1240663 m ³	1240663 m ³
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Four quarries (FArea, G-Area, D-Area and Panposh area are proposed for development during the year 2018-19.	Development is carried out in the proposed quarries by opencast mining method as proposed in the approved mining plan.	Development is carried out in the proposed quarries by opencast mining method as proposed in the approved mining plan.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Four no of pits proposed for production during the year 2018-19 namely F-area, G-area, D-area and Panposh area	Production is carried out from 4 pits during the year 2018-19 namely F-area, G-area, D-area and Panposh area	Production is carried out from 4 pits during the year 2018-19 namely F-area, G-area, D-area and Panposh area
3b	Quantity of ROM mineral production proposed	In 2018-19, ROM production proposal was 11.61 million tones	In 2018-19, ROM production was 5.65 million tones	less production due to capacity enhancment infrastructure development is under process.
3c	Recovery of sailable/usable mineral from ROM production	In 2018-19, Recovery of salable/usable mineral from ROM production proposal was 10.37 million tones	In 2018-19, Recovery of salable/usable mineral from ROM production was 5.62 million tones	Less generation of saleable ore due to less ROM production
3d	Quantity of mineral reject generation	In 2018-19, Quantity of mineral reject generation proposal was 1.24 million tones	In 2018-19, Quantity of mineral reject generation was 0.12 million tones. Less generation was due to less ROM production.	In 2018-19, Quantity of mineral reject generation was 0.12 million tones. Less generation was due to less ROM production.

3e	Grade of mineral rejects generation and threshold value declared.	45% Fe to below 57% Fe, Threshold value for iron is 45% Fe.	Grade of mineral reject generated was 50% - 54% Fe	Grade of mineral reject generated was 50% - 54% Fe
3f	Quantity of sub grade mineral generation.	In 2018-19, Quantity of subgrade mineral generation proposal was 1.24 million tones	In 2018-19, Quantity of subgrade mineral generation was 0.12 million tones. Less generation was due to less ROM production.	In 2018-19, Quantity of subgrade mineral generation was 0.12 million tones. Less generation was due to less ROM production.
3g	Grade of sub grade mineral generation	45% Fe to below 57% Fe, Threshold value for iron is 45% Fe.	Grade of subgrade generated was 50% - 54% Fe	Grade of subgrade generated was 50% - 54% 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.	Proposed wet beneficiation	Not carried out due to want of statutory clearances	Not carried out due to want of statutory clearances

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|--|--|---|---|
| 3j Provision of drilling and blasting in mineral benches | Drilling in F & G area will be done by 150 mm dia drills in staggered pattern with 4.0 -4.5m burden & 4.5-5.0m spacing. Similarly, D area and Panposh block, the mineral zones containing HLO/HMO, drilling will be carried out by 115mm dia drills. Subsequently, blasting will be done by charging the blast holes with cartridge slurry/ site mixed slurry or site mixed emulsion explosives and blasted using either NONEL or denoting fuse. | Drilling & blasting carried out as per the proposal. | Drilling & blasting carried out as per the proposal. |
| 3k Provision of mining machineries in mineral benches | Shovel and dumper combination is proposed for excavation and hauling. | Shovel and dumper combination is deployed for excavation and hauling. | Shovel and dumper combination is deployed for excavation and hauling. |

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 meter bench height proposed in F area and G area whereas 6m bench height for contractual mining in D area and Panposh area	Yes, the height of benches proposed for mining at machine mining area and contractual mining area is suitable for method of mining proposed. Bench height is maintained.	Yes, the height of benches proposed for mining at machine mining area and contractual mining area is suitable for method of mining proposed. Bench height is maintained.
3m	Total area covered under excavation/pits	Area under mining at the end of plan period will be 290.8 Ha	Area under mining at the end of 2018-19 is 290.8 Ha as reported in annual return for 2018-19	Area under mining at the end of 2018-19 is 290.8 Ha as reported in annual return for 2018-19
3n	Ore to OB ratio for the pit/mine during the year.	1:0.36 t/cu.m.	1:0.22 t/cu.m.	1:0.22 t/cu.m.
3o	Total area put in use under different heads at the end of year	Total area put in use under different heads at the end of plan period will be 491.21 Ha	Total area put in use under different heads at the end of 2018-19 is 419.49 Ha	Total area put in use under different heads at the end of 2018-19 is 419.49 Ha
3p	Production of ROM mineral during the last five year period as applicable	Year wise Production proposal 2014-15: 12.00 Million Tones 2015-16: 12.00 Million Tones 2016-17: 9.62 Million Tones 2017-18: 10.05 Million Tones 2018-19: 11.61 Million Tones	Year wise ROM production 2014-15: 4.34 Million Tones 2015-16: 5.35 Million Tones 2016-17: 5.68 Million Tones 2017-18: 5.23 Million Tones 2018-19: 5.78 Million Tones	Year wise ROM production 2014-15: 4.34 Million Tones 2015-16: 5.35 Million Tones 2016-17: 5.68 Million Tones 2017-18: 5.23 Million Tones 2018-19: 5.78 Million Tones

3q	General remarks of inspecting officers on method of mining etc.	Four no of pits proposed for production during the year 2018-19 namely F-area, G-area, D-area and Panposh area	Production is carried out from 4 pits during the year 2018-19 namely F-area, G-area, D-area and Panposh area. Mining is done by opencast mining method as proposed in the mining plan.	Production is carried out from 4 pits during the year 2018-19 namely F-area, G-area, D-area and Panposh area. Mining is done by opencast mining method as proposed in the mining plan.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil generation is envisaged, seperate dumping for OB is proposed and mineral rejects are proposed to be temporarily stacked and blended with high grade ore	Seperate dumping of OB is carried out. Mineral rejects are temporarily stacked and blended with high grade ore.	Seperate dumping of OB is carried out. Mineral rejects are temporarily stacked and blended with high grade ore.
4b	Location of topsoil, OB and mineral reject dumps	Waste dumping is proposed in four block areas and mineral rejects dumps are propsoed in four blocks areas.	Waste dumping and mineral reject stacking is carried out as per the proposal in mining plan	Waste dumping and mineral reject stacking is carried out as per the proposal in mining plan
4c	Number of dumps within lease area and outside of lease area	6 dumps within lease area	5 dumps with in lease area	5 dumps with in lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	5 outside UPL and 1 within UPL	4 outside UPL and 1 within UPL	4 outside UPL and 1 within UPL
4e	Number of active and alive dumps.	6 nos	5 nos	5 nos

4f	Number of dead dumps.	No such proposal	Not applicable	Not applicable
4g	Number of dumps established.	Not applicable	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	maintained	maintained
4i	Length of Retaining wall or garland drain all along dumps	400 m during the year 2018-19	200 m	violation observed and communicated to lessee letter dated 06.09.2019 during previous inspection dated 27.08.2019
4j	Number of settling ponds	2 nos	2 nos	Nil
4k	Specific comments of inspecting officer on waste dump management	Waste dumping is proposed in four block areas and mineral rejects dumps are proposed in four blocks areas.	Waste dumping and mineral reject stacking is carried out as per the proposal in mining plan. Waste dumping management is carried out as per the approved mining plan	Waste dumping and mineral reject stacking is carried out as per the proposal in mining plan. Waste dumping management is carried out as per the approved mining plan

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Area not matured for reclamation and rehabilitation	Not applicable	Not applicable
5b	Area under backfilling of mined out area	Not applicable	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Nil	Nil

5d	Total area fully reclaimed and rehabilitated	Not applicable	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Area not matured for reclamation and rehabilitation	Area not matured for reclamation and rehabilitation	Area not matured for reclamation and rehabilitation

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 PMCP to be submitted as per Rule 26 (2) of MCDR, 2017	Annual report on PMCP for the year 2018-19 have been submitted	Annual report on PMCP for the year 2018-19 have been submitted
6b	Area available for rehabilitation (ha) .	Not applicable	Nil	Nil
6c	afforestation done (ha) .	3.0 Ha	3.0 Ha	3.0 Ha
6d	No. of saplings planted during the year	7500 nos	Within lease area: 5000 nos and Outside lease area: 2800 Nos	Data as furnished in annual return for 2018-19
6e	Cumulative no .of plants	64730 Nos. (Upto 31.03.2018)	70730 Nos. (up to 01.04.2019)	70730 Nos. (up to 01.04.2019)
6f	Any other method of rehabilitation	Not proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 20.00 Lakhs	Rs 25.94 Lakhs	Rs 25.94 Lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed	Nil	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not Proposed	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	3 ha	3 ha	3 ha
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	3 ha	3 ha	3 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)	Environmental monitoring of core zone and buffer zone are proposed.	Monitoring of environmental parameters are carried out.	Monitoring of environmental parameters are carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Annual report on PMCP to be submitted as per Rule 26 (2) of MCDR, 2017	Annual report on PMCP for the year 2018-19 have been submitted. PMCP measures are carried out as per mining plan.	Annual report on PMCP for the year 2018-19 have been submitted. PMCP measures are carried out as per mining plan.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting is proposed.	Grade-wise sorting is carried out.	Grade-wise sorting is carried out.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	mechanical
7c	Different grade of mineral sorted out at mines.	+45%-57% Fe and +57% Fe above	+45%-57% Fe and +57% Fe above	+45%-57% Fe and +57% Fe above
7d	Any beneficiation process at mines	Proposed.	Not carried out due to want of statutory clearance.	Not carried out due to want of statutory clearance.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade-wise sorting is proposed.	Grade-wsie sorting of mineral are carried out. Wet Beneficiation did not carry out due to want of statutory clearance.	Grade-wsie sorting of mineral are carried out. Wet Beneficiation did not carry out due to want of statutory clearance.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	There is no proposal for top soil generation during the year 2018-19.	There was no generation of top soil during the year 2018-19.	There was no generation of top soil during the year 2018-19.
8b	Concurrent use or storage of topsoil	There is no proposal for top soil generation during the year 2018-19.	There was no generation of top soil during the year 2018-19.	Not Applicabe
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumping for OB is proposed and mineral rejects are proposed to be temporarily stacked and blended with high grade ore.	Seperate dumping of OB is carried out. mineral rejects are temporarily stacked and blended with high grade ore.	Seperate dumping of OB is carried out. mineral rejects are temporarily stacked and blended with high grade ore.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	7500 nos of plantation proposed during 2018-19	Plantation done within lease area: 5000 nos and outside lease area: 2800 Nos	Plantation done within lease area: 5000 nos and outside lease area: 2800 Nos

8g	Survival rate	Not Specified	Survival rate: 90%. Data furnished in annual return for 2018-19	Survival rate: 90%. Data furnished in annual return for 2018-19
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads for dust suppression is proposed.	Water sprinkling on haul roads for dust suppression is being done.	Water sprinkling on haul roads for dust suppression is being done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Water sprinkling on haul roads for dust suppression is proposed.	Water sprinkling on haul roads for dust suppression is being done. Aesthetic beauty in and around the mines area is maintained.	Water sprinkling on haul roads for dust suppression is being done. Aesthetic beauty in and around the mines area is maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017	Monthly returns and annual return for 2018-19 have been submitted.	Monthly returns and annual return for 2018-19 have been submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Manager, Mining Engineer and Geologist furnished in annual return for 2018-19	Manager, Mining Engineer and Geologist have been appointed in mines.	Manager, Mining Engineer and Geologist have been appointed in mines.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 290.8 ha, Used for waste disposal: 28.43 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 67.8 Ha, Other purpose: 1.0 Ha etc.	Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 290.8 ha, Used for waste disposal: 28.43 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 67.8 Ha, Other purpose: 1.0 Ha etc.	Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 290.8 ha, Used for waste disposal: 28.43 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 67.8 Ha, Other purpose: 1.0 Ha etc.
9d	Scrutiny of Annual return on afforestation	Plantation done within lease area: 5000 nos	Plantation done within lease area: 5000 nos	Plantation done within lease area: 5000 nos
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	0.12 million tones	0.12 million tones	0.12 million tones
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of lumps at mine head 62% Fe to 65% is 127661.98 tones and fines 62% to 65 % is 1616951.5 tones	Closing stock of lumps at mine head 62% Fe to 65% is 127661.98 tones and fines 62% to 65 % is 1616951.5 tones	Closing stock of lumps at mine head 62% Fe to 65% is 127661.98 tones and fines 62% to 65 % is 1616951.5 tones

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price in Rs per tonne: (A). Lumps : Grades (% of Fe content): 62% to below 65%: Rs 497.10; (B). Fines : Grades (% of Fe content): 62% to 65%: Rs 497.10. Production cost: Rs 497.10 per tonne.	Ex-mine price in Rs per tonne: (A). Lumps : Grades (% of Fe content): 62% to below 65%: Rs 497.10; (B). Fines : Grades (% of Fe content): 62% to 65%: Rs 497.10. Production cost: Rs 497.10 per tonne.	Ex-mine price in Rs per tonne: (A). Lumps : Grades (% of Fe content): 62% to below 65%: Rs 497.10; (B). Fines : Grades (% of Fe content): 62% to 65%: Rs 497.10. Production cost: Rs 497.10 per tonne.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets Rs 8631033	Value of Fixed Assets Rs 8631033	Value of Fixed Assets Rs 8631033

9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) 4.5 cum capacity - 1 no; Shovel (Hydraulic) 7.5 cum capacity - 2 nos; Shovel (Hydraulic) 9.5 cum capacity - 2 nos; backhoe 2.6 cum capacity -2 nos; Rocker Shovel Loader 1.2 cum -1 no; Dumper 50.0 tonne capacity - 2 nos; Dumper 100.0 tonne capacity - 8 nos; Dozer 410.0 hp capacity - 7 nos; Front End Loader 3.2 cum capacity-1 no; Front End Loader 3.4 cum capacity-1 no; Front End Loader 3.7 cum capacity-1 no etc.	Shovel (Hydraulic) 4.5 cum capacity - 1 no; Shovel (Hydraulic) 7.5 cum capacity - 2 nos; Shovel (Hydraulic) 9.5 cum capacity - 2 nos; backhoe 2.6 cum capacity -2 nos; Rocker Shovel Loader 1.2 cum -1 no; Dumper 50.0 tonne capacity - 2 nos; Dumper 100.0 tonne capacity - 8 nos; Dozer 410.0 hp capacity - 7 nos; Front End Loader 3.2 cum capacity-1 no; Front End Loader 3.4 cum capacity-1 no; Front End Loader 3.7 cum capacity-1 no etc.	Shovel (Hydraulic) 4.5 cum capacity - 1 no; Shovel (Hydraulic) 7.5 cum capacity - 2 nos; Shovel (Hydraulic) 9.5 cum capacity - 2 nos; backhoe 2.6 cum capacity -2 nos; Rocker Shovel Loader 1.2 cum -1 no; Dumper 50.0 tonne capacity - 2 nos; Dumper 100.0 tonne capacity - 8 nos; Dozer 410.0 hp capacity - 7 nos; Front End Loader 3.2 cum capacity-1 no; Front End Loader 3.4 cum capacity-1 no; Front End Loader 3.7 cum capacity-1 no etc.
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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 :

S. Ranjan Mazumdar
02/02/2020
(SHRI SUBIR RANJAN MAZUMDAR)

Indian Bureau of Mines .