

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/JJP/MCDR-4/BBS14/03/2K

Mine code : 11ORI19005

- (i) Name of the Inspecting : **SRM**) **SHRI SUDIP RANJAN MAZUMDAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri. A.K.Patra, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 25/02/2020
- (v) Prev.inspection date : 25/01/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **OSTAPAL**
- (b) **Registration NO.** : **IBM/173/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : JAJPUR
- Village : GURUJANG
- Taluka : SUKINDA
- Post office : KALIAPANI
- Pin Code :
- FAX No. : 06784 - 251782
- E-mail : facormines@facor.in
- Phone : 06726- 268755
- (f) Police Station : Kaliapani
- (g) First opening date : 01/12/1985
- (h) Weekly day of rest : SUN
2. Address for : OATAPAL CHROMITE MINE, M/S FACOR LTD
correspondance P.O.KALIAPANI, DIST: JAJPUR
ORISSA-755047
3. (a) Lease Number : ORI0233
- (b) Lease area : 72.84
- (c) Period of lease : 50
- (d) Date of Expiry : 12/08/2035
4. Mineral worked : CHROMITE Main

5. Name and Address of the

Lessee : M/s.Ferro Alloys Corporation Limited
Laxmi Bhawan,Kuans PO &
Dist : Bhadrak Odisha
BHADRAK ORISSA
Phone:06784 - 250598
FAX :06784 - 251782

Owner : SHRI ROHIT SARAF
M/s Ferro Alloys
Corporation Ltd Laxmi
Bhawan, Kuans, Bhadrak
Odisha-756100 BHADRAK
ORISSA
Phone: 06784 - 250598
FAX : 06784 - 251782

Agent : RAJESH KUMAR SINGH
Gurujang, Kaliapani
Sukinda, Jajpur Odisha
BHADRAK ORISSA
Phone: 06784 -251312
FAX : 06726-201009

Mining Engineer

Name : SARASWATA NANDA,Full Time
Qualification : B.E Mining Engineering
Appointment/ : 01/07/2016
Termination date

Geologist

Name : I. RAMA RAO,Full Time
Qualification : MSC Geology
Appointment/ : 14/12/2009
Termination date

Manager

Name : AJAYA KUMAR PATRA
Qualification : AMIE Mining Engineering, FCC
Appointment/ : 21/08/2017
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	17/01/2001
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	03/01/2005
	:	Mining Scheme rule 12 MCDR1988	25/04/2011
	:	Mining Scheme rule 12 MCDR1988	30/03/2016
	:	MP modif under 17(3) MCR 2016	11/09/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In 2018-19, there was no exploration proposal.	Nil. There is no backlog for exploration.	The lateral extent of the mining lease area of 72.843 ha has already been explored under G1 level of exploration.
1b	Exploration over lease area for geological axis 1 or 2	In 2018-19, there was no exploration proposal.	Nil	The lateral extent of the mining lease area of 72.843 ha has already been explored under G1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	In 2018-19, there was no exploration proposal.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	The lateral extent of the mining lease area of 72.843 ha has already been explored under G1 level of exploration.	The lateral extent of the mining lease area of 72.843 ha has already been explored under G1 level of exploration.

1e	Balance reserve as on 01/04/20	As per the modification of review mining plan approved dated 11.09.2018, the reserve and resource as on 31.08.2018 is as follows. Reserve is 7.135 lakh tones and Remaining resources is 7.698 lakh tones. Total Reserve and Resource is 14.833 lakh tones.	Reserve as on 01.04.2019 is 6.77 lakh tones and remaining resources at 7.69 lakh tones. Total reserve and resource is 14.46 lakh tones. Data as furnished in annual return for 2018-19.	Reserve as on 01.04.2019 is 6.77 lakh tones and remaining resources at 7.69 lakh tones. Total reserve and resource is 14.46 lakh tones. Data as furnished in annual return for 2018-19.
1f	General remarks of inspecting officers on geology, exploration etc	In 2018-19, there was no exploration proposal.	The lateral extent of the mining lease area of 72.843 ha has already been explored under G1 level of exploration.	The lateral extent of the mining lease area of 72.843 ha has already been explored under G1 level of exploration.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of development w.r.t. lease area : E-3426,W-3200, N-3350, S-2950	Location of development w.r.t. lease area: E-3426,W-3200, N-3350,S-2950	Location of development w.r.t. lease area: E-3426,W-3200, N-3350,S-2950
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no bench in top soil. Separate benches in overburden and mineral proposed.	There is no bench in top soil. Separate benches in overburden and mineral maintained.	There is no bench in top soil. Separate benches in overburden and mineral maintained.

2c	Stripping ratio or ore to OB ratio	1:9.08 t/t	1:8.19 t/t	1:8.19 t/t
2d	Quantity of topsoil generation in m3	There is no bench in top soil and there was no proposal for generation of top soil.	There was no generation of top soil.	There was no generation of top soil.
2e	Quantity of overburden generation in m3	Proposed quantity of overburden generation was 4.82 lakh cum	Quantity of overburden generated was 4.34 lakh cum	Quantity of overburden generated was 4.34 lakh cum
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Location of development w.r.t. lease area : E-3426,W-3200, N-3350, S-2950	The development work carried out within the proposed area for development.	The development work carried out within the proposed area for development.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In 2018-19, one number of quarry was proposed for production	In 2018-19, one number of quarry was put for production	In 2018-19, one number of quarry was put for production
3b	Quantity of ROM mineral production proposed	ROM production proposal was 1.06 lakh tones	ROM production was 1.059 lakh tones	ROM production was 1.059 lakh tones
3c	Recovery of sailable/usable mineral from ROM production	56627 tones	51417.62 tones	Nil
3d	Quantity of mineral reject generation	49373 tones	54543.91 tones	Nil

3e	Grade of mineral rejects generation and threshold value declared.	Grade of mineral reject generation (10-40% Cr2O3) and threshold value declared at 10% Cr2O3%	Grade of mineral reject generation (10-40% Cr2O3) and threshold value declared at 10% Cr2O3%	Grade of mineral reject generation (10-40% Cr2O3) and threshold value declared at 10% Cr2O3%
3f	Quantity of sub grade mineral generation.	49373 tones	54543.91 tones	Nil
3g	Grade of sub grade mineral generation	Grade of subgrade mineral generation (10% Cr2O3 to 40% Cr2O3)	Grade of subgrade mineral generation (10% Cr2O3 to 40% Cr2O3)	Grade of subgrade mineral generation (10% Cr2O3 to 40% Cr2O3)
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized and Manual Method	Mechanized and Manual Method	Mechanized and Manual Method
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Low grade chrome is beneficiated at the COB plant situated within mining lease area. Feed grade (10-40% Cr2O3, avg 31% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.4 % Cr2O3; Recovery: 53.2%	COB planted operated. Feed grade (avg: 32% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.0 % Cr2O3; Recovery: 54.25%	COB planted operated. Feed grade (avg: 32% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.0 % Cr2O3; Recovery: 54.25%

3j	Provision of drilling and blasting in mineral benches	Deep hole of 110mm dia with wagon drill. Dia of DTH: 110mm, Spacing: 2.5 - 3.0 m, Burden: 2.5-3.0 m. Nonel are used for initiating the charges, delay detonators are used for different row of blasting.	Drilling & blasting carried out as proposed. Dia of DTH: 10mm, Spacing: 2.5 -3.0 m, Burden: 2.5-3.0 m	Drilling & blasting carried out as proposed. Dia of DTH: 10mm, Spacing: 2.5 -3.0 m, Burden: 2.5-3.0 m
3k	Provision of mining machineries in mineral benches	98% of ore is excavated by mechanical method with shovel, dumper & dozer combination. For the remaining 2% of ore, the manual workers are utilized.	98% of ore is excavated by mechanical method with shovel, dumper & dozer combination and 2% by manual workers.	98% of ore is excavated by mechanical method with shovel, dumper & dozer combination and 2% by manual workers.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches proposed is 7-8 m	Height of benches in overburden and mineral is suitable for method of mining proposed in mining plan.	Height of benches in overburden and mineral is suitable for method of mining proposed in mining plan.
3m	Total area covered under excavation/pits	Area under mining at the end of plan period will be 28.038 Ha	Area under mining at the end of 2018-19 is 28.038 Ha as reported in annual return for 2018-19	Area under mining at the end of 2018-19 is 28.038 Ha as reported in annual return for 2018-19
3n	Ore to OB ratio for the pit/mine during the year.	1:9.08 t/t	1:8.19 t/t	Nil

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 72.843 Ha	Total area put in use under different heads at the end of 2018-19 is 68.668 Ha	Total area put in use under different heads at the end of 2018-19 is 68.668 Ha
3p	Production of ROM mineral during the last five year period as applicable	Year wise Production proposal 2016-17: 1.042 LT 2017-18: 1.071 LT 2018-19: 1.06 LT	Year wise ROM production 2017-18: 1.020 LT 2017-18: 1.062 LT 2018-19: 1.059 LT	Year wise ROM production 2017-18: 1.020 LT 2017-18: 1.062 LT 2018-19: 1.059 LT
3q	General remarks of inspecting officers on method of mining etc.	In 2018-19, one number of quarry was proposed for production . Low grade chrome is beneficiated at the COB plant situated within mining lease area. Feed grade (10-40% Cr2O3, avg 31% Cr2O3) , Conc Grade (avg 50% Cr2O3), Tailings grade: 9.4 % Cr2O3; Recovery: 53.2%	In 2018-19, one number of quarry was put for production. COB planted operated. Feed grade (avg: 32% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.0 % Cr2O3; Recovery: 54.25%	In 2018-19, one number of quarry was put for production. COB planted operated. Feed grade (avg: 32% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.0 % Cr2O3; Recovery: 54.25%

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)	No top soil & Mineral reject. OB Dump is proposed in the extended part of North dump	No top soil generated. Mineral reject: No dumping. OB has been dumped in the extended part of north dump	No top soil generated. Mineral reject: No dumping. OB has been dumped in the extended part of north dump
4b	Location of topsoil, OB and mineral reject dumps	No top soil & Mineral reject. OB Dump is proposed in the extended part of North dump	No top soil generated. Mineral reject: No dumping. OB has been dumped in the extended part of north dump	No top soil generated. Mineral reject: No dumping. OB has been dumped in the extended part of north dump
4c	Number of dumps within lease area and outside of lease area	Within Lease area: 02 nos	Within Lease area: 02 nos	Within Lease area: 02 nos
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond ultimate pit limit	Beyond ultimate pit limit	Beyond ultimate pit limit
4e	Number of active and alive dumps.	One no of dump	One no of dump	One no of dump
4f	Number of dead dumps.	One no of dump	One no of dump	One no of dump
4g	Number of dumps established.	One no of dump	One no of dump	One no of dump
4h	Whether Retaining wall or garland drain all along dumps are there.	There is no fresh proposal	The existing retaining wall and garland drain have been maintained.	Length of existing retaining wall and garland drain is 3020 m and 3386m respectively at the toe of North and South dump
4i	Length of Retaining wall or garland drain all along dumps	There is no fresh proposal	The existing retaining wall and garland drain have been maintained	Length of existing retaining wall and garland drain is 3020 m and 3386m respectively at the toe of North and South dump
4j	Number of settling ponds	There is no fresh proposal	Maintained the existing settling ponds.	Maintained the existing settling ponds.

4k	Specific comments of inspecting officer on waste dump management	No top soil & Mineral reject. OB Dump is proposed in the extended part of North dump. There is no fresh proposal for construction of retaining wall and garland drain during the year 2018-19.	No top soil generated. Mineral reject: No dumping. OB has been dumped in the extended part of north dump. The existing retaining wall and garland drain have been maintained. Length of existing retaining wall and garland drain is 3020 m and 3386m respectively at the toe of North and South dump.	No top soil generated. Mineral reject: No dumping. OB has been dumped in the extended part of north dump. The existing retaining wall and garland drain have been maintained. Length of existing retaining wall and garland drain is 3020 m and 3386m respectively at the toe of North and South dump.
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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	Nil	Mine is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation.
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There was no proposal for reclamation and rehabilitation	Mine is not matured for reclamation and rehabilitation.	Mine is not matured for 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 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 Proposed	Nil	Nil
6c	afforestation done (ha).	2.385 Ha	3.07 Ha	3.07 Ha
6d	No. of saplings planted during the year	5960Nos	7673Nos	7673Nos
6e	Cumulative no .of plants	147517Nos	149230Nos	149230Nos
6f	Any other method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 17.47 Lakh	Rs 17.65 Lakh	Rs 17.65 Lakh
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring has been proposed.	Regular monitoring is being done.	Regular monitoring is being done.
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 proposal have been complied satisfactorily.	Annual report on PMCP for the year 2018-19 have been submitted. PMCP proposal have been complied satisfactorily.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise mineral sorting within lease area	Grade wise mineral sorting within lease area	Grade wise mineral sorting within lease area
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual and Mechanical	Manual and Mechanical	Manual and Mechanical
7c	Different grade of mineral sorted out at mines.	10% to -40% Cr2O3 and above +40% Cr2O3	10% to -40% Cr2O3 and above +40% Cr2O3	10% to -40% Cr2O3 and above +40% Cr2O3
7d	Any beneficiation process at mines .	Low grade chrome is beneficiated at the COB plant situated within mining lease area. Feed grade (10-40% Cr2O3, avg 31% Cr2O3) , Conc Grade (avg 50% Cr2O3), Tailings grade: 9.4 % Cr2O3; Recovery: 53.2%	COB planted operated. Feed grade (avg: 32% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.0 % Cr2O3; Recovery: 54.25%	COB planted operated. Feed grade (avg: 32% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.0 % Cr2O3; Recovery: 54.25%

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade wise mineral sorting within lease area. Low grade chrome is beneficiated at the COB plant situated within mining lease area. Feed grade (10-40% Cr2O3, avg 31% Cr2O3) , Conc Grade (avg 50% Cr2O3), Tailings grade: 9.4 % Cr2O3; Recovery: 53.2%	Grade wise mineral sorting with in lease area. COB planted operated. Feed grade (avg: 32% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.0 % Cr2O3; Recovery: 54.25%	Grade wise mineral sorting with in lease area. COB planted operated. Feed grade (avg: 32% Cr2O3), Conc Grade (avg 50% Cr2O3), Tailings grade: 9.0 % Cr2O3; Recovery: 54.25%
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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.	There was no generation of top soil.	There was no generation of top soil.
8b	Concurrent use or storage of topsoil	There is no proposal for top soil generation.	There was no generation of top soil.	There was no generation of top soil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No top soil & Mineral reject. OB Dump is proposed in the extended part of North dump	No top soil generated. Mineral reject: No dumping. OB has been dumped in the extended part of north dump	No top soil generated. Mineral reject: No dumping. OB has been dumped in the extended part of north dump

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	Mine is not matured for reclamation and rehabilitation
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not Specified	7673 nos of sapling planted as furnished in annual return of 2018-19.	7673 nos of sapling planted as furnished in annual return of 2018-19.
8g	Survival rate	Not Specified	85%	Data as furnished in annual return for 2018-19
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads have been proposed	Water sprinkling on haul roads have is being done.	Water sprinkling on haul roads have is being done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	There is no proposal for top soil generation. Water sprinkling on haul roads have been proposed.	There was no generation of top soil. Water sprinkling on haul roads have is being done. Aesthetic beauty in and around mines have been maintained.	There was no generation of top soil. Water sprinkling on haul roads have is being done. Aesthetic beauty in and around mines have been 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 and annual return for 2018-19 have been submitted.	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: 28.038 ha, Used for waste disposal: 24.458 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 5.739 Ha, other purposes: 10.433 Ha	Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 28.038 ha, Used for waste disposal: 24.458 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 5.739 Ha, other purposes: 10.433 Ha	Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 28.038 ha, Used for waste disposal: 24.458 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 5.739 Ha, other purposes: 10.433 Ha
9d	Scrutiny of Annual return on afforestation	7673 nos of sapling planted as furnished in annual return of 2018-19.	7673 nos of sapling planted as furnished in annual return of 2018-19.	7673 nos of sapling planted as furnished in annual return of 2018-19.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Quantity of mineral reject generation proposal was 54543.091 tones; Grade Below 40% Cr2O3%	Quantity of mineral reject generation proposal was 54543.091 tones; Grade Below 40% Cr2O3%	Quantity of mineral reject generation proposal was 54543.091 tones; Grade Below 40% Cr2O3%
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of processed ore at mine head (in tonne) 1. Fines below 40% Cr2O3%: 869.125 tones 2. Fines 40% to below 52% Cr2O3: 3574.33 tones	Closing stock of processed ore at mine head (in tonne) 1. Fines below 40% Cr2O3%: 869.125 tones 2. Fines 40% to below 52% Cr2O3: 3574.33 tones	Closing stock of processed ore at mine head (in tonne) 1. Fines below 40% Cr2O3%: 869.125 tones 2. Fines 40% to below 52% Cr2O3: 3574.33 tones
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine rice in Rs per tonne Fines : Grades (% of Cr2O3 content) 1. Below 40% Cr2O3: Rs 2375.66 2. 40% to below 52% Cr2O3: Rs 10396.77 Production cost: Rs 5489.29 per tonne.	Ex-mine rice in Rs per tonne Fines : Grades (% of Cr2O3 content) 1. Below 40% Cr2O3: Rs 2375.66 2. 40% to below 52% Cr2O3: Rs 10396.77 Production cost: Rs 5489.29 per tonne.	Ex-mine rice in Rs per tonne Fines : Grades (% of Cr2O3 content) 1. Below 40% Cr2O3: Rs 2375.66 2. 40% to below 52% Cr2O3: Rs 10396.77 Production cost: Rs 5489.29 per tonne.
9h	Scrutiny of Annual return on fixed assets	Rs 1779948000 as furnished in annual return of 2018-19	Rs 1779948000 as furnished in annual return of 2018-19	Rs 1779948000 as furnished in annual return of 2018-19

9k	Scrutiny of Annual return on mining machineries	Back hoe (1.5 cum capacity): 3 nos; Front end loader (1.7 cum): 1 no; Dozer (200 HP capacity): 2 nos; Rock drill (non- electric): 2 nos etc	Back hoe (1.5 cum capacity): 3 nos; Front end loader (1.7 cum): 1 no; Dozer (200 HP capacity): 2 nos; Rock drill (non-electric): 2 nos etc	Back hoe (1.5 cum capacity): 3 nos; Front end loader (1.7 cum): 1 no; Dozer (200 HP capacity): 2 nos; Rock drill (non- electric): 2 nos 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 :

(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines