

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/JJP/MCDR-14/BBS

Mine code : 11ORI19015

- (i) Name of the Inspecting : **SRM**) **SHRI SUDIP RANJAN MAZUMDAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri S K Sinha, Mines Agent and Shri S Mohapatra, Min
Official with
Designation
- (iv) Date of Inspection : 10/08/2017
- (v) Prev.inspection date : 30/09/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JINDAL KALIAPANI**
- (b) **Registration NO.** : **IBM/1129/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : JAJPUR
- Village : KALIAPANI
- Taluka : JAJPUR ROAD
- Post office : KALIAPANI
- Pin Code :
- FAX No. : 06726-268315
- E-mail : jindal_mines@yahoo.com
- Phone : 06726 -268315,268449
- (f) Police Station : Kaliapani
- (g) First opening date : 28/01/2002
- (h) Weekly day of rest : SUN
2. Address for : POST&VIL: KALIAPANI
correspondance DIST:JAJPUR
P.S:TOMKA,ORISSA,PIN:755 047
3. (a) Lease Number : ORI0760
- (b) Lease area : 89
- (c) Period of lease : 20
- (d) Date of Expiry : 03/01/2022
4. Mineral worked : CHROMITE Main

5. Name and Address of the

Lessee : M/S JINDAL STAINLESS LTD.
KALINGA NAGAR JAJPUR
JAJPUR ORISSA
Phone:
FAX :

Owner : SUBRATA BHATTACHARYA
JINDAL CHROMITE MINES
KALIAPANI, JAJAPUR ODISHA
JAJPUR ORISSA
Phone: 06726268315
FAX : 06726268315

Agent : SHAILENDER KUMAR SINHA
JINDAL CHROMITE MINES
KALIAPANI, JAJPUR ODISHA
JAJPUR ORISSA
Phone: 06726268315
FAX : 06726268315

Mining Engineer

Name : SABYASACHI MOHAPATRA, Full Time
Qualification : AMIE MINING
Appointment/ : 01/12/2002
Termination date

Geologist

Name : S.K.VAIDYA, Full Time
Qualification : MSC APPLIED GEOLOGY
Appointment/ : 12/05/2008
Termination date

Manager

Name : SABYASACHI MOHAPATRA
Qualification : AMIE MINING
Appointment/ : 01/02/2017
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	29/01/2005
		Mining Scheme rule 12 MCDR1988	14/06/2007
		Modif.approved Mining Scheme	24/06/2010
		Mining Scheme rule 12 MCDR1988	02/05/2012
		Modif.approved Mining Scheme	13/06/2016
		MP review under 17(1) MCR 2016	29/12/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	The cumulative Exploration proposal for 2016 -17 (P) and 2017-18 was 14 Nos. of boreholes	Number of borehole completed in 2016-17 is 6 nos.	Number of borehole completed in 2016-17 is 6 nos.
1b	Exploration over lease area for geological axis 1 or 2	Not Specified	Lease area explored as per UNFC norms (in ha) as on 01.04.2016 under G1/G2 is 13.54 Ha.	G1 has proved upto +22 mRL in Band-I and +100mRL in Band-VI.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	M/s Geo-Exploration India. Total expenditure incurred in 2016-17 is 36,99,500 (Thirty Six lakh Ninety Nine Thousand Five hundred only.)	M/s Geo-Exploration India. Total expenditure incurred in 2016-17 is 36,99,500 (Thirty Six lakh Ninety Nine Thousand Five hundred only.)
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Specified	The remaining area to be explored under G1/ G2 category is 75.46 Ha.	The remaining area to be explored under G1/ G2 category is 75.46 Ha
1e	Balance reserve as on 01/04/20	Reserve as on 31.04.2016 is 1.15 MT and Remaining Resource at 7.51 MT.	ROM Production during the year 2016-17 is 0.09995 MT. Balance Reserve as on 31.03.2017 is 1.05 Million Tonnes while remaining resources at 7.51 Million tonnes	ROM Production during the year 2016-17 is 0.09995 MT. Balance Reserve as on 31.03.2017 is 1.05 Million Tonnes while remaining resources at 7.51 Million tonnes

1f	General remarks of inspecting officers on geology, exploration etc	Not Specified	Taking into account of the prospect of underground mining in Band VI during the review of mining plan period and in Band I in future and to prove barrenness of the non-mineralised area in between the ore bands , the exploration is being carried out as per the proposal. During inspection is has been observed that exploratory drilling was under progress.	Taking into account of the prospect of underground mining in Band VI during the review of mining plan period and in Band I in future and to prove barrenness of the non-mineralised area in between the ore bands , the exploration is being carried out as per the proposal. During inspection is has been observed that exploratory drilling was under progress.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development planned in two quarries: Quarry-1- S200/S585 to E600/E1055 Quarry-2- S1328/S1617 to E1271/E1584	Actual development took place in Quarry 2 between coordinates S1328/S1617 to E1271/E1584	Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining with M/s Balasore Alloys.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil -Nil Over burden - 20 Ore - 05	Top soil -Nil Over burden - 20 Ore - 05	Top soil -Nil Over burden - 20 Ore - 05

2c	Stripping ratio or ore to OB ratio	Stripping Ratio planned in Quarry 1 and Quarry 2 is 1:11 and 1:24.39 respectively	Actual stripping ratio for quarry 2 in 2016-17 is 1:22.39 t:t	Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining with M/s Balasore Alloys.
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	
2e	Quantity of overburden generation in m3	OB generation planned in Quarry 1 and Quarry 2 is 555344 Cum and 623922 Cum respectively	OB generated in Quarry 2 in 2016-17 is 638860 Cum	Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining with M/s Balasore Alloys.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not Specified	Development of Quarry 1 and Quarry 2 has been planned in 2016-17. Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining with M/s Balasore Alloys and therefore development/mining operation has been done in Quarry2 only.	Development of Quarry 1 and Quarry 2 has been planned in 2016-17. Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining with M/s Balasore Alloys and therefore development/mining operation has been done in Quarry2 only.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	02 Nos (Band-I-Quarry-01 and Band-VI-Quarry-02)	Band-VI-Quarry-02	Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining/ common boundary mining with M/s Balasore Alloys.
3b	Quantity of ROM mineral production proposed	Q-1-126192 MT Q-2-89537 MT	Q1- Nil Q-2-99950 MT	Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining with M/s Balasore Alloys.
3c	Recovery of sailable/usable mineral from ROM production	Not Specified	ROM production is from mineral reject band i.e in between 10%-40% Cr2O3	ROM production is from mineral reject band i.e in between 10%-40% Cr2O3
3d	Quantity of mineral reject generation	Q-1-126192 MT Q-2-89537 MT	Q-1-Nil Q-2-99950 MT	Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining with M/s Balasore Alloys. The Mineral reject generated as ROM has been utilised.
3e	Grade of mineral rejects generation and threshold value declared.	MR-10-40% of Cr2O3, TV=>10% Cr2O3	MR-10-40% of Cr2O3, TV=>10% Cr2O3	
3f	Quantity of sub grade mineral generation.	Q-1-126192 MT Q-2-89537 MT	Q-1-Nil Q-2-99950 MT	The entire subgrade material is a part of ROM and has been utilised.
3g	Grade of sub grade mineral generation	MR-10-40% of Cr2O3	MR-10-40% of Cr2O3	

3h	Manual / Mechanised method adopted for segregating from ROM	Both Manual & Mechanized	Both Manual & Mechanized	Segregation is being done by sorting manually and & sizing of more than 300mm boulders with machineries.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	IMMT has been engaged again to carry out detail study for beneficiating SG/ Tailings (Chrome Ore 10 - 20 % Cr2O3),Ore characterization study intending a beneficiated product of 40 - 47 % Cr2O3 .	IMMT has been engaged again to carry out detail study for beneficiating SG/ Tailings (Chrome Ore 10 - 20 % Cr2O3),Ore characterization study intending a beneficiated product of 40 - 47 % Cr2O3 .
3j	Provision of drilling and blasting in mineral benches	Yes.	Deep hole Drilling & Controlled blasting with Nonel has been adopted in 2016-17.	Deep hole Drilling & Controlled blasting with Nonel has been adopted in 2016-17.
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 8.0 m has been proposed.	Height of benches in overburden and mineral is suitable for method of mining proposed in SOM.	Height of benches in overburden and mineral is suitable for method of mining proposed in SOM.
3m	Total area covered under excavation/pits	Quarry-1 is 18.932Ha and Quarry-2 is 9.76 Ha	Quarry-1 is 18.527 Ha and Quarry-2 is 9.76 Ha	Quarry-1 is 18.527 Ha and Quarry-2 is 9.76 Ha

3n	Ore to OB ratio for the pit/mine during the year.	Quarry 1 is 1:11 and Quarry 2 is 1:24.39	Quarry 2 is 1:22.39	Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining with M/s Balasore Alloys.
3o	Total area put in use under different heads at the end of year	PROPOSAL Mining - 29.756 ha Dump-28.782 ha Back filling- 8.24Ha Mineral storage-2.831 Ha Infrastructure & Road-4.228 Ha Green belt - 4.275 Ha Tailing pond - 0.70 Ha ETP -0.60 Ha	Mining - 28.332 Ha Dump-28.377 Ha Back filling- 8.24 Ha Mineral storage-2.831Ha Infrastructure & Road-4.228 Ha Green belt - 5.04 Ha Tailing pond -0.70 ha ETP -0.60 Ha COB-1.47	Mining - 28.332 Ha Dump-28.377 Ha Back filling- 8.24 Ha Mineral storage-2.831Ha Infrastructure & Road-4.228 Ha Green belt - 5.04 Ha Tailing pond -0.70 ha ETP -0.60 Ha COB-1.47
3p	Production of ROM mineral during the last five year period as applicable	2012-13 Q-1- 41040, Q-2- 56679 2013-14 Q-1- Nil, Q-2- 98070 2014-15 Q-1- Nil, Q-2- 98175 2015-16 Q-1- Nil, Q-2- 98700 2016-17 Q-1- 126192, Q-2- 89537	2012-13 Q-1 - 81372.710, Q-2- 14649.912 2013-14 Q-1 Nil, Q-2- 64086.842 2014-15 Q-1 Nil, Q-2- 69298 2015-16 Q-1 Nil, Q-2- 88246 2016-17 Q-1 Nil, Q-2- 99950	2012-13 Q-1 - 81372.710, Q-2- 14649.912 2013-14 Q-1 Nil, Q-2-64086.842 2014-15 Q-1 Nil, Q-2-69298 2015-16 Q-1 Nil, Q-2- 88246 2016-17 Q-1 Nil, Q-2- 99950

3q	General remarks of inspecting officers on method of mining etc.	Not Specified	Open cast method of mining is practised in Quarry 2 as per modification of the approved scheme of mining. Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining/common boundary mining with M/s Balasore Alloys.	Open cast method of mining is practised in Quarry 2 as per modification of the approved scheme of mining. Quarry-1 was not operated as necessary permission has not been accorded by state government for joint mining/common boundary mining with M/s Balasore Alloys.
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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 of OB and Mineral Rejects has been proposed	Separate dump of OB and mineral reject has been maintained.	Separate dump of OB and mineral reject has been maintained.
4b	Location of topsoil, OB and mineral reject dumps	Dump-1(S 537 / S 870 to E 800 / E 1128) Dump-2 (S 200 / S 680 to W 290 / E 350) MR STOCK-1-(S328/S262 TO E652/E800) MR STACK-2-(S465/S340 TO E300/E482) MR STACK-3-(S 1210 /S 955 TO E 1172 /E 1360)	Dump-1(S 537 / S 870 to E 800 / E 1128) Dump-2 (S 200 / S 680 to W 290 / E 350) MR STOCK-1- (S328/S262 TO E652/E800) MR STACK-2-(S465/S340 TO E300/E482) MR STACK-3-(S 1210 /S 955 TO E 1172 /E 1360)	Dump-1(S 537 / S 870 to E 800 / E 1128) Dump-2 (S 200 / S 680 to W 290 / E 350) MR STOCK-1-(S328/S262 TO E652/E800) MR STACK-2-(S465/S340 TO E300/E482) MR STACK-3-(S 1210 /S 955 TO E 1172 /E 1360)
4c	Number of dumps within lease area and outside of lease area	02(Inside the lease area) namely Dump - 1 (OB Dump) and Dump - 2 (OB Dump)	02(Inside the lease area) namely Dump - 1 (OB Dump) and Dump - 2 (OB Dump)	02(Inside the lease area) namely Dump - 1 (OB Dump) and Dump - 2 (OB Dump)

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1 (In between quarry-1 & 2) in between coordinates (S 537 / S 870 to E 800 / E 1128) Dump-2 (North west of lease area) in between coordinates (S 200 / S 680 to W 290 / E 350)	Dump-1 (In between quarry-1 & 2) in between coordinates (S 537 / S 870 to E 800 / E 1128) Dump-2 (North west of lease area in between coordinates (S 200 / S 680 to W 290 / E 350)	Dump-1 (In between quarry-1 & 2) in between coordinates (S 537 / S 870 to E 800 / E 1128) Dump-2 (North west of lease area in between coordinates (S 200 / S 680 to W 290 / E 350)
4e	Number of active and alive dumps.	02, namely Dump-1 (OB Dump) and Dump - 2 (OB Dump)	02, namely Dump-1 (OB Dump) and Dump - 2 (OB Dump)	02, namely Dump-1 (OB Dump) and Dump - 2 (OB Dump)
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	It has been observed during inspection that protective measures such as garland drain and retaining wall has not been constructed on the eastern side of waste dump No.02 to prevent degradation of environment.	The shortcoming has been informed to lessee by violation letter dated 18.08.2017.
4i	Length of Retaining wall or garland drain all along dumps	Proposal for construction of retaining wall -380 mtr and Garland drain-380 mtr	Actual length of Retaining wall constructed is 380 mtr and Garland drain-1080 mtr	Actual length of Retaining wall constructed is 380 mtr and Garland drain-1080 mtr
4j	Number of settling ponds	Not Proposed	02 , S.T - 1 & 2 (Location -North west side at the toe of dump-2) to arrest the surface run-off of dump-2.	02 , S.T - 1 & 2 (Location -North west side at the toe of dump-2) to arrest the surface run-off of dump-2.

4k	Specific comments of inspecting officer on waste dump management	Not Specified	There are two OB dumps located outside the UPL inside the mining lease area. Retaining wall and garland drain is present all along the dump except in the eastern side of waste dump No.02 which has been pointed out to lessee by violation letter. additional two number of settling ponds have been created to arrest surface runoff from waste dump-2.	There are two OB dumps located outside the UPL inside the mining lease area. Retaining wall and garland drain is present all along the dump except in the eastern side of waste dump No.02 which has been pointed out to lessee by violation letter. additional two number of settling ponds have been created to arrest surface runoff from waste dump-2.
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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.	Partly backfilling Quarry 1	Backfilling has been done as per proposal in Quarry 1.	Backfilling has been done as per proposal in Quarry 1.
5b	Area under backfilling of mined out area	8.24 Ha	8.24 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Not Applicable	Not Applicable
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not Applicable	Not Applicable

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not Specified	Backfilling has been done in Quarry 1as per proposal for the year 2016-17.	Backfilling has been done in Quarry 1as per proposal for the year 2016-17.
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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).	Not Specified	Annual return on PMCP has been submitted for 2016-17.	Annual return on PMCP has been submitted for 2016-17.
6b	Area available for rehabilitation (ha) .	8.24 Ha	8.24 Ha	Back Filled Area
6c	afforestation done (ha).	0.8 Ha	11 Ha	Afforestation done over 11 Ha
6d	No. of saplings planted during the year	During the year 2016-17, 1080 Nos of saplings has been proposed to be planted	During the period 2016-17, 21000 Nos of saplings have been planted within lease area.	During the period 2016-17, 21000 Nos of saplings have been planted within lease area.
6e	Cumulative no .of plants	Not Proposed	112000 Nos of saplings have been planted.	112000 Nos of saplings have been planted.
6f	Any other method of rehabilitation	Not Proposed	Not Applicable	
6g	Cost incurred on watch and care during the year	Not Proposed	Rs. 400000.0	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	311(N-S)X265(E-W)X93	304(N-S)X271(E-W)X80	304(N-S)X271(E-W)X80

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Waste - 649504 Cum	Waste - 638860 cum has been backfilled.	Waste - 638860 cum has been backfilled.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	8.24 Ha area has been afforested.	8.24 Ha area has been afforested.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Not Applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Backfilling by Retreat method.	Backfilling by Retreat method.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Not Applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Not Applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Not Applicable	

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring in core zone & buffer zone.	Quarterly environmental monitoring in core zone & buffer zone is being done. Air,Water,Soil,Noise,Dust fall tests done in every quarter as per SPCB & CPCB guidelines)	Quarterly environmental monitoring in core zone & buffer zone is being done. Air,Water,Soil,Noise,Dust fall tests done in every quarter as per SPCB & CPCB guidelines)
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not Specified	Complied as per scheme of mining.	Complied as per scheme of mining.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not Specified	Dispatch of ROM after sorting and sizing in lump below 40% Cr ₂ O ₃ in 2016-17. The dispatched quantity is 100232.89 tonnes.	However, in the review of mining plan for the period approved on 29.12.2016 it has been mentioned that the ore (+40% Cr ₂ O ₃) and mineral rejects (10-40% Cr ₂ O ₃) will be transported to respective stack yards by tippers from where the friable ore of +40% Cr ₂ O ₃ as well as the lumpy ore of 10-40% Cr ₂ O ₃ will be dispatched to the Lessee's plant/railway siding by road after proper sorting and quality checks.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual/Mechanical	Manual/Mechanical	
7c	Different grade of mineral sorted out at mines.	Only 10 - 40 % Cr2O3 grade is sorted out.	Only 10 - 40 % Cr2O3 grade is sorted out.	
7d	Any beneficiation process at mines .	COBP I & COBP II	Not Operated. The feed of COBP -1 as planned from Quarry 1 could not be done as the quarry 1 was not under operation. COBP-II was not operated for was of necessary permission from concerned govt.bodies.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not Specified	The beneficiation plants COBP-I and COBP-II couldnot be operated due to want of necessary permission from concerned authorities.	The beneficiation plants COBP-I and COBP-II couldnot be operated due to want of necessary permission from concerned authorities.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Not Applicable	
8b	Concurrent use or storage of topsoil	Not Proposed	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump of OB has been proposed	Separate dump of OB has been maintained.	Quarry 1 has not been operated and hence no fines/MR dumps during 2016-17.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Back filling of southern part of Quarry-1	Backfilling has been done in Quarry 1 as per proposal.	Backfilling has been done in Quarry 1 as per proposal.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Quarry-I (8.24 ha)	Quarry-I (8.24 ha)	Quarry-I (8.24 ha)
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1080 nos of sapling proposed for plantation in 2016-17	21000 nos of sapling planted in 2016-17 within lease area.	21000 nos of sapling planted in 2016-17 within lease area.
8g	Survival rate	Not specified	Around 85 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads by water tanker in continuous manner.	Water sprinkling on haul roads made by water tanker & fixed sprinkler.	Water sprinkling on haul roads made by water tanker & fixed sprinkler.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not Specified	Aesthetic beauty in and around mines has been maintained.	Aesthetic beauty in and around mines has 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 Return has been submitted till October 2017 and Annual Return has been submitted till 2016-17.	Monthly Return has been submitted till November 2017 and Annual Return has been submitted till 2016-17.	Monthly Return has been submitted till November 2017 and Annual Return has been submitted till 2016-17.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details as per annual Return 2016-17: Graduate Mining Engineer: 2 Diploma Mining Engineer: 3 Geologist: 1	Details as per annual Return 2016-17: Graduate Mining Engineer: 2 Diploma Mining Engineer: 3 Geologist: 1	Details as per annual Return 2016-17: Graduate Mining Engineer: 2 Diploma Mining Engineer: 3 Geologist: 1
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area utilisation at the end of year 2016-17 is : 1. Area covered under current (O/C) works: 28.332 Ha 2. Reclaimed/Rehabilitated: 8.24 Ha 3. Area used for waste disposal: 28.377Ha 4. Area occupied by plant, buildings, residential, welfare building & roads: 5.698 Ha etc	Lease area utilisation at the end of year 2016-17 is : 1. Area covered under current (O/C) works: 28.332 Ha 2. Reclaimed/Rehabilitated: 8.24 Ha 3. Area used for waste disposal: 28.377Ha 4. Area occupied by plant, buildings, residential, welfare building & roads: 5.698 Ha etc	Lease area utilisation at the end of year 2016-17 is : 1. Area covered under current (O/C) works: 28.332 Ha 2. Reclaimed/Rehabilitated: 8.24 Ha 3. Area used for waste disposal: 28.377Ha 4. Area occupied by plant, buildings, residential, welfare building & roads: 5.698 Ha etc

9d	Scrutiny of Annual return on afforestation	Number of sapling planted during the year within lease area is 2100 nos and outside lease area is 900 nos.	Number of sapling planted during the year within lease area is 2100 nos and outside lease area is 900 nos.	Number of sapling planted during the year within lease area is 2100 nos and outside lease area is 900 nos.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	The MR generated from Quarry 2 has been utilised.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	<p>1. Closing Stock of ROM as on 31.03.2017 is 360.782 tonnes.</p> <p>2. Closing stockof lump as on 31.03.2017 is: a. Lump below 40% Cr203% is 5889.182 tonnes b. Lump between 40% Cr203% to below 52% Cr203% is 0.930 tonnes</p> <p>3. Closing stock of fines as on 31.03.2017 is: a. Fines below 40% Cr203% is 7601.07 tonnes b. Fines between 40% to below 52% Cr203 is 4458.815 tonnes</p> <p>4. Closing stock of concentrates os on 31.03.2017 is 11744.49 tonnes.</p>	<p>1. Closing Stock of ROM as on 31.03.2017 is 360.782 tonnes.</p> <p>2. Closing stockof lump as on 31.03.2017 is: a. Lump below 40% Cr203% is 5889.182 tonnes b. Lump between 40% Cr203% to below 52% Cr203% is 0.930 tonnes</p> <p>3. Closing stock of fines as on 31.03.2017 is: a. Fines below 40% Cr203% is 7601.07 tonnes b. Fines between 40% to below 52% Cr203 is 4458.815 tonnes</p> <p>4. Closing stock of concentrates os on 31.03.2017 is 11744.49 tonnes.</p>	As per annual return for the period 2016-17.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price of lump below 40% Cr203% is Rs 2700.00 per tonne	Ex-mine price of lump below 40% Cr203% is Rs 2700.00 per tonne	Ex-mine price of lump below 40% Cr203% is Rs 2700.00 per tonne
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets is Rs 598785 as furnished in annual return for the period 2016-17.		

9k	Scrutiny of Annual return on mining machineries	1. Dumper (25 tonne capacity): 12 Nos. 2. Dumper (40 tonne capacity): 2 Nos 3. Backhoe : 3 Nos 4. Dozer: 2 nos 5. Blasthole drill: 1 no etc	1. Dumper (25 tonne capacity): 12 Nos. 2. Dumper (40 tonne capacity): 2 Nos 3. Backhoe : 3 Nos 4. Dozer: 2 nos 5. Blasthole drill: 1 no etc	1. Dumper (25 tonne capacity): 12 Nos. 2. Dumper (40 tonne capacity): 2 Nos 3. Backhoe : 3 Nos 4. Dozer: 2 nos 5. Blasthole drill: 1 no etc
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show couse position			
Rule NO.	Issued on	Compliance on		Rule NO.	Issued on	Compliance on	
MCDR17	Rule 37(2)	18/08/2017	23/10/2017				

Date :

(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines