

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

**MCDR INSPECTION REPORT**

**Bhubaneswar regional office**

**Mine file No :** ORI/IRON/KJR/MCDR-55/BBS

**Mine code :** 30ORI08069

- (i) Name of the Inspecting : **SRM** ) **SHRI SUDIP RANJAN MAZUMDAR**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Vasanthkumar Selvaraj, Mining Engineer  
Official with  
Designation
- (iv) Date of Inspection : 30/01/2020
- (v) Prev.inspection date : 26/12/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : DEOJHAR
- (b) **Registration NO.** : IBM/5262/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : ORISSA  
District : KEONJHAR  
Village : DEOJHAR  
Taluka : BARBIL  
Post office : DEOJHAR  
Pin Code : 758038  
FAX No. : 06767-272304  
E-mail : diom.tmp1@gmail.com  
Phone : 06767-272304,273448
- (f) Police Station : Joda
- (g) First opening date : 04/10/1995
- (h) Weekly day of rest : SUN
2. Address for : DEOJHAR IRON MINE, DISTRICT KEONJHAR  
correspondance : ORISSA, PIN: 758 038.
3. (a) Lease Number : ORI0721
- (b) Lease area : 34.37
- (c) Period of lease : 50
- (d) Date of Expiry : 04/09/2044
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : TARINI MINERALS (P) LTD.  
 AT/PO-BONEIKALA JODA  
 KEONJHAR KEONJHAR ORISSA  
 Phone:  
 FAX :

Owner : TARANI MINERALS(P) LTD  
 BONEIKALA JODA KEONJHAR  
 ORISSA  
 Phone: 72304  
 FAX : 72304

## Mining Engineer

Name : SHRI VASANTHKUMAR SELVARAJ, Full Time  
 Qualification : B E MINING ENGG  
 Appointment/ : 25/03/2019  
 Termination date

## Geologist

Name : SHRI YASWANT KUMAR, Full Time  
 Qualification : M.SC GEOLOGY  
 Appointment/ : 25/03/2019  
 Termination date

## Manager

Name : SHRI VASANTHAKUMAR SELVARAJ  
 Qualification : B E MINING ENGG  
 Appointment/ : 01/07/2019  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	09/04/2002
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	17/03/2008
		Modif.approved Mining Scheme	24/10/2008
		Modif.approved Mining Scheme	28/10/2010
		Renewal under rule 24 MCR1960	05/12/2014
		MP review under 17(1) MCR 2016	25/01/2019

## 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.	There was no exploration during the year 2018-19. Lease area has been explored under G1/G2 level of exploration as per UNFC. Lease area explored under G1: 28.842 Ha, G2: 5.523 Ha	There was no exploration during the year 2018-19. Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha
1b	Exploration over lease area for geological axis 1 or 2	In 2018-19, there was no exploration proposal.	There was no exploration during the year 2018-19. Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha	There was no exploration during the year 2018-19. Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	There was no exploration during the year 2018-19. Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha	There was no exploration during the year 2018-19. Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha	Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha

1e	Balance reserve as on 01/04/20	As per review of mining plan approved dated 25.01.2019, Reserve and Resource as on 01.12.2018 are as follows: Reserve under 111 category is 624467.5 MT. Total reserve is 624467.5 MT. Resources under 211 category is 968857.5 MT. Total Reserve and Resource is 1593325 MT	Reserve and Resource as on 01.04.2019 are as follows as furnished in annual return for 2018-19: Reserve under 111 category is 607848 MT. Total reserve is 607848 MT. Resources under 211 category is 968857.5 MT. Total Reserve and Resource is 1576706 MT	Reserve and Resource as on 01.04.2019 are as follows as furnished in annual return for 2018-19: Reserve under 111 category is 607848 MT. Total reserve is 607848 MT. Resources under 211 category is 968857.5 MT. Total Reserve and Resource is 1576706 MT
1f	General remarks of inspecting officers on geology, exploration etc	In 2018-19, there was no exploration proposal.	There was no exploration during the year 2018-19. Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha	There was no exploration during the year 2018-19. Lease area has been explored under G1/G2 level of exploration as per UNFC. Area explored under G1: 28.842 Ha, G2: 5.523 Ha

#### Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In 2018-19, development proposed in the existing quarry at northern part of the lease area.	In 2018-19, development took place in the existing quarry at northern part of the lease area.	In 2018-19, development took place in the existing quarry at northern part of the lease area.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no proposal for top soil generation. Intercalated waste present within ore benches.	Generation of Top soil was nil. & Overburden Nil. Intercalated waste present within ore benches.	Generation of Top soil was nil. & Overburden Nil. Intercalated waste present within ore benches.
2c	Stripping ratio or ore to OB ratio	In 2018-19, the proposed stripping ratio was 1:0.016 t/m <sup>3</sup>	In 2018-19, the stripping ratio was 1: 0.007 t/m <sup>3</sup> . The ROM production was less than proposed. Hence, subsequent development was less.	In 2018-19, the stripping ratio was 1: 0.007 t/m <sup>3</sup> . The ROM production was less than proposed. Hence, subsequent development was less.
2d	Quantity of topsoil generation in m <sup>3</sup>	In 2018-19, there was no proposal for top soil generation.	In 2018-19, no top soil generated.	In 2018-19, no top soil generated.
2e	Quantity of overburden generation in m <sup>3</sup>	In 2018-19, the proposal of overburden generation was 7457.5 m <sup>3</sup>	In 2018-19, the of overburden generated was 5400 MT. The ROM production was less than proposed. Hence, subsequent development was less.	In 2018-19, the of overburden generated was 5400 MT. The ROM production was less than proposed. Hence, subsequent development was less.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In 2018-19, development proposed in the existing quarry at northern part of the lease area. In 2018-19, the proposed stripping ratio was 1:0.016 t/m <sup>3</sup>	In 2018-19, development took place in the existing quarry at northern part of the lease area. In 2018-19, the stripping ratio was 1: 0.007 t/m <sup>3</sup> . The ROM production was less than proposed. Hence, subsequent development was less	In 2018-19, development took place in the existing quarry at northern part of the lease area. In 2018-19, the stripping ratio was 1: 0.007 t/m <sup>3</sup> . The ROM production was less than proposed. Hence, subsequent development was less

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In 2018-19, one number of pit was proposed for production	In 2018-19, one number of pit was put for production	In 2018-19, one number of pit was put for production
3b	Quantity of ROM mineral production proposed	In 2018-19, ROM Production proposal was 500398.25 MT (including waste). Only saleable ore and subgrade amount to 485483.25 MT.	In 2018-19, ROM production was 400535 MT (excluding waste).	The ROM production proposal includes waste generation from quarry i.e., 14915 MT. The actual waste generated during 2018-19 was 5400 MT.
3c	Recovery of sailable/usable mineral from ROM production	In 2018-19, Recovery of salable mineral from ROM was 443721.25 MT	In 2018-19, generation of salable mineral from ROM was 369245 MT.	The generation was less due to less ROM production
3d	Quantity of mineral reject generation	In 2018-19, the quantity of subgrade generation proposal was 41762 MT.	In 2018-19, the quantity of subgrade generated was 31290 MT.	The generation was less due to less ROM production
3e	Grade of mineral rejects generation and threshold value declared.	+45 % Fe to 58 % Fe	+45 % Fe to 58 % Fe	+45 % Fe to 58 % Fe
3f	Quantity of sub grade mineral generation.	In 2018-19, the quantity of subgrade generation proposal was 41762 MT.	In 2018-19, the quantity of subgrade generated was 31290 MT.	The generation was less due to less ROM production
3g	Grade of sub grade mineral generation	+45 % Fe to 58 % Fe	+45 % Fe to 58 % Fe	+45 % Fe to 58 % 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	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Loosening of rock mass was done by drilling & blasting. For this purpose wagon drill of 110 mm dia is being used with burden and spacing of 3.0 m and 3.5 m respectively.	The ore was directly excavated and there was no drilling and blasting required due to nature of ore.	The ore was directly excavated and there was no drilling and blasting required due to nature of ore.
3k	Provision of mining machineries in mineral benches	Heavy Earth moving machinery has been deployed within the mines to produce required production of ore and its transportation	Heavy Earth moving machinery has been deployed within the mines to produce required production of ore and its transportation.	Heavy Earth moving machinery has been deployed within the mines to produce required production of ore and its transportation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of the bench proposed is 10m.	Yes, the height if the bench is suitable for the method of mining proposed in mining plan.	Yes, the height if the bench is suitable for the method of mining proposed in mining plan.

3m	Total area covered under excavation/pits	As per the review of mining plan approved dated 25.01.2019, the area under excavation at the end of plan period will be 9.282 Ha.	Area under excavation at the end 2018-19 as furnished in the modified annual return submitted is 7.86 Ha	Violation was issued under rule 45 (7) of MCDR 2017 for not furnishing lease area utilization correctly. The lessee has subsequently complied the violation by submitting revised annual return for 2018-19 correcting the lease area utilization.
3n	Ore to OB ratio for the pit/mine during the year.	In 2018-19, the proposed stripping ratio was 1:0.016 t/m3	In 2018-19, the stripping ratio was 1:0.007 t/m3	The ROM production was less than proposed. Hence, subsequent development was less.
3o	Total area put in use under different heads at the end of year	As per the review of mining plan approved dated 25.01.2019, the total area under different heads at the end of plan period will be 24.235 Ha.	Area under excavation at the end 2018-19 as furnished in the modified annual return submitted is 18.087 Ha	Violation was issued under rule 45 (7) of MCDR 2017 for not furnishing lease area utilization correctly. The lessee has subsequently complied the violation by submitting revised annual return for 2018-19 correcting the lease area utilization.
3p	Production of ROM mineral during the last five year period as applicable	Year wise ROM Production Proposal: 2014-15:- 1013760 MT 2015-16:- 740784 MT 2016-17:- 1499852 MT 2017-18:- 862906 MT 2018-19:- 500398 MT	Year wise ROM Production: 2014-15:-118282 2015-16:-Nil 2016-17:- 1460095 MT 2017-18:- 862715 MT 2018-19:- 400535 MT	Year wise ROM Production: 2014-15:-118282 2015-16:-Nil 2016-17:- 1460095 MT 2017-18:- 862715 MT 2018-19:- 400535 MT



3q	General remarks of inspecting officers on method of mining etc.	<p>In 2018-19, one number of pit was proposed for production. In 2018-19, ROM Production proposal was 500398.25 MT (including waste). Only saleable ore and subgrade amount to 485483.25 MT. In 2018-19, Recovery of salable mineral from ROM was 443721.25 MT. In 2018-19, the proposed stripping ratio was 1:0.016 t/m3</p>	<p>In 2018-19, one number of pit was put for production. In 2018-19, ROM production was 400535 MT (excluding waste). In 2018-19, Recovery of salable mineral from ROM was 369245 MT. In 2018-19, the stripping ratio was 1: 0.007 t/m3. The ROM production was less than proposed. Hence, subsequent development was less.</p>	<p>In 2018-19, one number of pit was put for production. In 2018-19, ROM production was 400535 MT (excluding waste). In 2018-19, Recovery of salable mineral from ROM was 369245 MT. In 2018-19, the stripping ratio was 1: 0.007 t/m3. The ROM production was less than proposed. Hence, subsequent development was less.</p>
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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There was no proposal for top soil generation. The total waste generated during the plan period will be disposed near the MLB 16 & 17 by extending the existing waste dump due south. Mineral reject /subgrade generated during the plan period will be stacked temporarily over 2 no of stacks.	There was no generation of top soil. Only 5400 MT of intercalated waste generated have been utilized in retaining wall and road maintenance. The mineral reject generated from the mine is blended with high grade to make it saleable.	There was no generation of top soil. Only 5400 MT of intercalated waste generated have been utilized in retaining wall and road maintenance. The mineral reject generated from the mine is blended with high grade to make it saleable.
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4b	Location of topsoil, OB and mineral reject dumps	There was no proposal for top soil generation. The total waste generated during the plan period will be disposed near the MLB 16 & 17 by extending the existing waste dump due south. Mineral reject /subgrade generated during the plan period will be stacked temporarily over 2 no of stacks.	In 2018-19, there was no generation of top soil. Only 5400 MT of intercalated waste generated have been utilized in retaining wall and road maintenance. The mineral reject generated from the mine is blended with high grade to make it saleable.	In 2018-19, there was no generation of top soil. Only 5400 MT of intercalated waste generated have been utilized in retaining wall and road maintenance. The mineral reject generated from the mine is blended with high grade to make it saleable.
4c	Number of dumps within lease area and outside of lease area	As per review of mining plan approved dated 25.01.19, there is one waste dumps within lease area	One number of waste dump within lease area.	One number of waste dump within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump is outside the UPL	Dump is outside the UPL	Dump is outside the UPL
4e	Number of active and alive dumps.	One number of dump	One number of dump	One number of dump
4f	Number of dead dumps.	Nil	Nil	Nil
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.	As per the mining plan approved dated 05.12.2014, during the year 2018-19 only maintenance of the existing retaining wall and garland drain was proposed.	Maintenance work has been carried out. Retaining wall and garland drain are not present all along the dumps. In the review of mining plan approved dated 25.01.19, fresh construction of retaining wall and garland drain have been proposed for the year 2019-20.	Maintenance work has been carried out. Retaining wall and garland drain are not present all along the dumps. In the review of mining plan approved dated 25.01.19, fresh proposal for construction of retaining wall and garland drain have been proposed for the year 2019-20.
4i	Length of Retaining wall or garland drain all along dumps	As per the mining plan approved dated 05.12.2014, during the year 2018-19 only maintenance of the existing retaining wall and garland drain was proposed.	Maintenance work has been carried out. Retaining wall and garland drain are not present all along the dumps. In the review of mining plan approved dated 25.01.19, fresh construction of retaining wall and garland drain have been proposed for the year 2019-20.	Maintenance work has been carried out. Retaining wall and garland drain are not present all along the dumps. In the review of mining plan approved dated 25.01.19, fresh proposal for construction of retaining wall and garland drain have been proposed for the year 2019-20.
4j	Number of settling ponds	As per the mining plan approved dated 05.12.2014, during the year 2018-19 no fresh proposal for construction settling ponds was proposed.	There was no fresh construction of settling pond during the year 2018-19. In the review of mining plan approved dated 25.01.19, fresh proposal for construction of settling pond have been proposed during the year 2019-20.	There was no fresh construction of settling pond during the year 2018-19. In the review of mining plan approved dated 25.01.19, fresh proposal for construction of settling pond have been proposed during the year 2019-20.

4k	Specific comments of inspecting officer on waste dump management	There was no proposal for top soil generation. The total waste generated during the plan period will be disposed near the MLB 16 & 17 by extending the existing waste dump due south.	There was no generation of top soil. Only 5400 MT of intercalated waste generated have been utilized in retaining wall and road maintenance. The mineral reject generated from the mine is blended with high grade to make it saleable.	There was no generation of top soil. Only 5400 MT of intercalated waste generated have been utilized in retaining wall and road maintenance. The mineral reject generated from the mine is blended with high grade to make it saleable.
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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	The mine is not matured for reclamation by backfilling and subsequent rehabilitation
5b	Area under backfilling of mined out area	Not Proposed	Nil	The mine is not matured for reclamation by backfilling and subsequent rehabilitation
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There was no proposal for topsoil generation or rehabilitation of mined out area	There was no generation of top soil. The mine is not matured for reclamation by backfilling and subsequent rehabilitation	The mine is not matured for reclamation by backfilling and subsequent rehabilitation
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	The mine is not matured for reclamation by backfilling and subsequent rehabilitation

5e	General remarks of inspecting officers on backfilling and reclamation etc.	There was no proposal for reclamation by backfilling and subsequent rehabilitation	The mine is not matured for reclamation by backfilling and subsequent rehabilitation	The mine is not matured for reclamation by backfilling and subsequent rehabilitation
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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).	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) .	0.04 Ha area proposed for afforestation (green belt building) as rehabilitation of barren land within lease area	0.04 ha area afforested (green belt building) as rehabilitation of barren land within lease area	0.04 ha area afforested (green belt building) as rehabilitation of barren land within lease area
6c	afforestation done (ha).	0.04 Ha area proposed for afforestation (green belt building) as rehabilitation of barren land within lease area	0.04 ha area afforested (green belt building) as rehabilitation of barren land within lease area	0.04 ha area afforested (green belt building) as rehabilitation of barren land within lease area
6d	No. of saplings planted during the year	640 nos. of saplings proposed for plantation (in green belt building) as rehabilitation of barren land within lease area	800 nos of saplings planted. At the survival rate of 80% , 640 nos of saplings survived. Data as funished in annual return on PMCP for the year 2018-19.	800 nos of saplings planted. At the survival rate of 80% , 640 nos of saplings survived. Data as funished in annual return on PMCP for the year 2018-19.
6e	Cumulative no .of plants	Not Specified	24870 nos of saplings planted.	24870 nos of saplings planted.

6f	Any other method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 15000/-	Rs 24000/-	Rs 24000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Proposed	Nil	The mine is not matured for reclamation by backfilling and subsequent rehabilitation
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil	The mine is not matured for reclamation by backfilling and subsequent rehabilitation
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	640 nos. of saplings proposed for plantation (in green belt building) as rehabilitation of barren land within lease area	800 nos of saplings planted. At the survival rate of 80% , 640 nos of saplings survived. Data as finished in annual return on PMCP for the year 2018-19.	800 nos of saplings planted. At the survival rate of 80% , 640 nos of saplings survived. Data as finished in annual return on PMCP for the year 2018-19.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.04 Ha area proposed for afforestation (green belt building) as rehabilitation of barren land within lease area	0.04 ha area afforested (green belt building) as rehabilitation of barren land within lease area	0.04 ha area afforested (green belt building) as rehabilitation of barren land within lease area
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)	Air, Water, Noise Monitoring proposed	Air, Water, Noise Monitoring carried out.	Air, Water, Noise Monitoring 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. 0.04 Ha area proposed for afforestation (green belt building) as rehabilitation of barren land within lease area. 640 nos. of saplings proposed for plantation (in green belt building) as rehabilitation of barren land within lease area	Annual report on PMCP for the year 2018-19 have been submitted. 0.04 ha area afforested (green belt building) as rehabilitation of barren land within lease area. 800 nos of saplings planted. At the survival rate of 80% , 640 nos of saplings survived. Data as finished in annual return on PMCP for the year 2018-19.	Annual report on PMCP for the year 2018-19 have been submitted. 0.04 ha area afforested (green belt building) as rehabilitation of barren land within lease area. 800 nos of saplings planted. At the survival rate of 80% , 640 nos of saplings survived. Data as finished in annual return on PMCP for the year 2018-19.
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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting	Grade wise sorting
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines.	Saleable Ore:+58 % Fe Mineral Reject:- +45 to 58% Fe	Fines: 55% Fe to below 58% Fe, and 625 Fe to below 65% Fe; Lumps: 62% Fe to below 65% Fe	Gradewise production of processed ore as furnished in annual return for 2018-19
7d	Any beneficiation process at mines	Not Proposed	Nil	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade wise sorting proposed in mines	Grade wise sorting. Dry processing through screening and crushing is practiced.	Grade wise sorting. Dry processing through screening and crushing is practiced.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There was no proposal for top soil generation and its subsequent utilization.	There was no generation of top soil.	There was no generation of top soil.
8b	Concurrent use or storage of topsoil	There was no proposal for top soil generation and its subsequent utilization.	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)	There was no proposal for top soil generation. The total waste generated during the plan period will be disposed near the MLB 16 & 17 by extending the existing waste dump due south. Mineral reject /subgrade generated during the plan period will be stacked temporarily over 2 no of stacks.	There was no generation of top soil. Only 5400 MT of intercalated waste generated have been utilized in retaining wall and road maintenance. The mineral reject generated from the mine is blended with high grade to make it saleable.	There was no generation of top soil. Only 5400 MT of intercalated waste generated have been utilized in retaining wall and road maintenance. The mineral reject generated from the mine is blended with high grade to make it saleable.
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)	Not Specified	800 nos of saplings planted. At the survival rate of 80% , 640 nos of saplings survived. Data as furnished in annual return on PMCP for the year 2018-19.	800 nos of saplings planted. At the survival rate of 80% , 640 nos of saplings survived. Data as furnished in annual return on PMCP for the year 2018-19.
8g	Survival rate	Survival rate: 85%	Survival rate: 80%	Survival rate: 80%
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkling is being carried out.	Water sprinkling is being carried out.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not Specified	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
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 Mining engineer, Geologist and Manager has been furnished in annual return submitted for 2018-19.	Mining Engineer, Geologist and Manager appointed in mines.	Violation was issued under rule 55 (3) of MCDR 2017 for non-appointment of whole time mining engineer which was subsequently complied

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: 7.86 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 1.811 Ha, Other purpose (dump, stack yard etc.): 8.416 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: 7.86 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 1.811 Ha, Other purpose (dump, stack yard etc.): 8.416 Ha etc	Violation was issued under rule 45 (7) of MCDR 2017 for not furnishing lease area utilization correctly. The lessee has subsequently complied the violation by submitting revised annual return for 2018-19 correcting the lease area utilization.
9d	Scrutiny of Annual return on afforestation	In 2018-19, number of saplings planted within lease area is 500 nos. of saplings and outside lease area 1000 nos of saplings.	In 2018-19, number of saplings planted within lease area is 500 nos. of saplings and outside lease area 1000 nos of saplings.	Data as furnished in annual return for 2018-19
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject (45% to below 58% Fe) generated during 2018-19 is 31290 tones	Mineral reject (45% to below 58% Fe) generated during 2018-19 is 31290 tones	Mineral reject (45% to below 58% Fe) generated during 2018-19 is 31290 tones

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock at mine head of processed ore. Lump (62% to below 65% Fe): 29105.840 tones. Fines (55% to below 58% Fe): 31290 tones, Fines (58% to below 60% Fe): 179115 tones, Fines (62% to below 65% Fe): 3603.29 tones.	Closing stock at mine head of processed ore. Lump (62% to below 65% Fe): 29105.840 tones. Fines (55% to below 58% Fe): 31290 tones, Fines (58% to below 60% Fe): 179115 tones, Fines (62% to below 65% Fe): 3603.29 tones.	Data as furnished in annual return for 2018-19
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mines price (in Rs per tonne) of Lump of grade 62 % Fe to below 65% Fe is Rs. 4500.83 and fines 55% Fe to below 58% Fe is Rs1036.0, Fines 58% Fe to below 60% Fe is Rs 1750.0 and Fines 62% Fe to below 65% is Rs 2177.44. Production Cost per tonne: Rs 1074.98	Ex-Mines price (in Rs per tonne) of Lump of grade 62 % Fe to below 65% Fe is Rs. 4500.83 and fines 55% Fe to below 58% Fe is Rs1036.0, Fines 58% Fe to below 60% Fe is Rs 1750.0 and Fines 62% Fe to below 65% is Rs 2177.44. Production Cost per tonne: Rs 1074.98	Ex-Mines price (in Rs per tonne) of Lump of grade 62 % Fe to below 65% Fe is Rs. 4500.83 and fines 55% Fe to below 58% Fe is Rs1036.0, Fines 58% Fe to below 60% Fe is Rs 1750.0 and Fines 62% Fe to below 65% is Rs 2177.44. Production Cost per tonne: Rs 1074.98
9h	Scrutiny of Annual return on fixed assets	Rs.89366/-	Rs.89366/-	Data as furnished in annual return for 2018-19

9k	Scrutiny of Annual return on mining machineries	Wheel loader (3.9 cum capacity): 2 nos, Truck (30 tonne capacity): 8 nos, Backhoe (2.1 cum capacity): 2 nos, Backhoe (0.5 cum capacity): 1 no etc.	Wheel loader (3.9 cum capacity): 2 nos, Truck (30 tonne capacity): 8 nos, Backhoe (2.1 cum capacity): 2 nos, Backhoe (0.5 cum capacity): 1 no etc.	Wheel loader (3.9 cum capacity): 2 nos, Truck (30 tonne capacity): 8 nos, Backhoe (2.1 cum capacity): 2 nos, Backhoe (0.5 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
Rule 45(7)	11/02/2020	20/04/2020			
MCDR17 Rule 55(1) (3)	11/02/2020	20/04/2020			

Date :

*Samegundar*  
02/03/2020  
(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines