

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-86/BBS

Mine code : 30ORI08115

- (i) Name of the Inspecting : SRM) SHRI SUDIP RANJAN MAZUMDAR
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Manas kumar Sahu, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 09/03/2020
- (v) Prev.inspection date : 24/12/2019

PART-I : GENERAL INFORMATION

1. (a) Mine Name : NAYAGARH IRON ORE MINE
- (b) Registration NO. : IBM/4639/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : ORISSA
District : KEONJHAR
Village : Nayagarh
Taluka :
Post office : Nayagarh
Pin Code : 758086
FAX No. : 0674-2394794
E-mail : sp@kcp.in
Phone : 0674-2392078, 2392099
- (f) Police Station : Jhumpra
- (g) First opening date : 17/09/2018
- (h) Weekly day of rest : SUN
2. Address for : Village-Nayagarh
correspondance : Tahasil-Jhumura
Dist-Keonjhar, Odisha
3. (a) Lease Number :
(b) Lease area : 24.57 Ha
(c) Period of lease : 50 yrs
(d) Date of Expiry : 08.01.2067
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : K. C. PRADHAN
 K.C.PRADHAN, MINES
 OWNER, PLOT NO.1262 ROAD-
 8, UNIT-9 BHUBNESHWAR ORISSA
 Phone:0674-2394794
 FAX :0674-2392078

Owner : K.C.PRADHAN
 K.C.PRADHAN, MINES OWNER
 PLOT NO-1262, ROAD-8 UNIT-9
 BHUBNESHWAR ORISSA
 Phone: 0674-2394794
 FAX : 0674-2392078

Agent : SIDDARTHA PRADHAN
 KHURDA ORISSA
 Phone: 9439066666
 FAX : 0674-2394794

Mining Engineer

Name : Manas Kumar Sahu, Full Time
 Qualification : B Tech in Mining Engg
 Appointment/ : 16/09/2018
 Termination date

Geologist

Name : Sachdananda Giri, Full Time
 Qualification : MSC Geology
 Appointment/ : 11/11/2019
 Termination date

Manager

Name : Manas Kumar Sahu
 Qualification : B Tech Mining Engineer
 Appointment/ : 16/09/2018
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 27/03/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In 2018-19, 6nos. of boreholes have been proposed to be drilled.	In 2018-19, 23 nos. of boreholes have been drilled.	In 2018-19, 23 nos. of boreholes have been drilled.
1b	Exploration over lease area for geological axis 1 or 2	In 2018-19, 6 nos. of boreholes have been proposed to be drilled.	As on 01.04.2019, area explored under G1 is 13.75Ha, G3 is 6.003Ha and Un explored area is 4.817Ha.	As on 01.04.2019, area explored under G1 is 13.75Ha, G3 is 6.003Ha and Un explored area is 4.817Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Exploration Agency: M/s SPS Geo Mining Solutions Pvt. Ltd. Expenditure: Rs. Rs.3379667.00	Exploration Agency: M/s SPS Geo Mining Solutions Pvt. Ltd. Expenditure: Rs. Rs.3379667.00
1d	Balance area to be explored to bring Geological axis in 1 or 2	In 2018-19, 6 nos. of boreholes have been proposed to be drilled.	In 2018-19, 23 nos. of boreholes have been drilled. As on 01.04.2019, area explored under G1 is 13.75Ha, G3 is 6.003Ha and Un explored area is 4.817Ha.	In 2018-19, 23 nos. of boreholes have been drilled. As on 01.04.2019, area explored under G1 is 13.75Ha, G3 is 6.003Ha and Un explored area is 4.817Ha.

1e	Balance reserve as on 01/04/20	As per the modification of mining plan approved dated 27.03.2018, Reserve and Resource as on 12.01.2018 are as follows: Reserve is 0.926 million tones and Remaining resources is 1.825 million tones. Total reserves & resources is 2.751 million tones	Reserve and Resource as on 01.04.2019 are as follows as furnished in annual return for 2018-19: Reserve is 0.865 million tones and Remaining resources is 1.825 million tones. Total reserves & resources is 2.69 million tones	Reserve and Resource as on 01.04.2019 are as follows as furnished in annual return for 2018-19: Reserve is 0.865 million tones and Remaining resources is 1.825 million tones. Total reserves & resources is 2.69 million tones
1f	General remarks of inspecting officers on geology, exploration etc	In 2018-19, 6nos. of boreholes have been proposed to be drilled.	In 2018-19, 23 nos. of boreholes have been drilled. As on 01.04.2019, area explored under G1 is 13.75Ha, G3 is 6.003Ha and Un explored area is 4.817Ha.	In 2018-19, 23 nos. of boreholes have been drilled. As on 01.04.2019, area explored under G1 is 13.75Ha, G3 is 6.003Ha and Un explored area is 4.817Ha.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In 2018-19, development proposed in Insitu Quarry and Float Quarry	In 2018-19, development done in insitu Quarry. Float quarry was not operated.	In 2018-19, development done in insitu Quarry. Float quarry was not operated.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in over burden and mineral proposed	Separate benches in over burden and mineral developed	Separate benches in over burden and mineral developed

2c	Stripping ratio or ore to OB ratio	In 2018-19, the proposed stripping ratio in Insitu quarry was 1:0.108 (t/m3) and in Float quarry was 1:0.146 (t/m3)	In 2018-19, stripping ratio achieved in Insitu quarry was 1:0.093 (t/m3). Float quarry was not operated.	In 2018-19, stripping ratio achieved in Insitu quarry was 1:0.093 (t/m3). Float quarry was not operated.
2d	Quantity of topsoil generation in m3	In 2018-19, the proposed quantity of top soil generation from insitu quarry was 1716 m3 and from Float quarry was NIL	In 2018-19, the quantity of top soil generated from insitu quarry was 378 m3. Float quarry was not operated.	In 2018-19, the quantity of top soil generated from insitu quarry was 378 m3. Float quarry was not operated.
2e	Quantity of overburden generation in m3	In 2018-19, the proposal of overburden generation from insitu quarry was 7816 m3 and from Float quarry was 1164 m3	In 2018-19, overburden generated from insitu quarry was 5610 m3 and from Float quarry was not operated. Also, the ROM generation was less than proposed.	In 2018-19, overburden generated from insitu quarry was 5610 m3 and from Float quarry was not operated. Also, the ROM generation was less than proposed.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In 2018-19, development proposed in Insitu Quarry and float Quarry. In 2018-19, the proposed stripping ratio in Insitu quarry was 1:0.108 (t/m3) and in Float quarry was 1:0.146 (t/m3)	In 2018-19, development was done in insitu Quarry. In 2018-19, stripping ratio achieved in Insitu quarry was 1:0.093 (t/m3). Float quarry was not operated.	In 2018-19, development was done in insitu Quarry. In 2018-19, stripping ratio achieved in Insitu quarry was 1:0.093 (t/m3). Float quarry was not operated.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In 2018-19, two numbers of quarries namely Insitu quarry and Float quarry were proposed for production.	In 2018-19, one number of quarry namely Insitu quarry was put for production	In 2018-19, one number of quarry namely Insitu quarry was put for production
3b	Quantity of ROM mineral production proposed	In 2018-19, ROM Production proposal was 79,998 MT	In 2018-19, actual ROM production was 60,640MT	In 2018-19, actual ROM production was 60,640MT
3c	Recovery of sailable/usable mineral from ROM production	98% from in situ quarry and 88% from float quarry	93% from in situ quarry. Float quarry was not operated. ROM production was less than proposed and also float ore quarry was not operated. Further, out of 60640 MT of ROM produced during 2018-19, only 6950 tones of ROM have been processed and rest ROM quantity have been reported in the closing stock of ROM for the year 2018-19. The generation of mineral reject/subgrade was thus less.	93% from in situ quarry. Float quarry was not operated. ROM production was less than proposed and also float ore quarry was not operated. Further, out of 60640 MT of ROM produced during 2018-19, only 6950 tones of ROM have been processed and rest ROM quantity have been reported in the closing stock of ROM for the year 2018-19. The generation of mineral reject/subgrade was thus less.

- 3d Quantity of mineral reject generation
 In 2018-19, the proposal quantity of mineral reject generation was 2279 tones.
 Quantity of mineral reject generated was 510 tones. ROM production was less than proposal and also float ore quarry was not operated. Further, out of 60640 MT of ROM produced during 2018-19, only 6950 tones of ROM have been processed and rest ROM quantity have been reported in the closing stock of ROM for the year 2018-19. The generation of mineral reject was thus less.
 Quantity of mineral reject generated was 510 tones. ROM production was less than proposal and also float ore quarry was not operated. Further, out of 60640 MT of ROM produced during 2018-19, only 6950 tones of ROM have been processed and rest ROM quantity have been reported in the closing stock of ROM for the year 2018-19. The generation of mineral reject was thus less.
- 3e Grade of mineral rejects generation and threshold value declared.
 45%-58%. Threshold value declared-45%
 45%-58%. Threshold value declared-45%
 45%-58%. Threshold value declared-45%
- 3f Quantity of subgrade mineral generation.
 In 2018-19, the proposed quantity of subgrade mineral generation was 2279 tones.
 Quantity of subgrade generated was 510 tones. ROM production was less than proposal and also float ore quarry was not operated. Further, out of 60640 MT of ROM produced during 2018-19, only 6950 tones of ROM have been processed and rest ROM quantity have been reported in the closing stock of ROM for the year 2018-19. The generation of subgrade was thus less.
 Quantity of subgrade generated was 510 tones. ROM production was less than proposal and also float ore quarry was not operated. Further, out of 60640 MT of ROM produced during 2018-19, only 6950 tones of ROM have been processed and rest ROM quantity have been reported in the closing stock of ROM for the year 2018-19. The generation of subgrade was thus less.

3g	Grade of sub grade mineral generation	45%-58%.	45%-58%.	45%-58%.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Mechanized
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	Hard insitu iron ore will be loosened by drilling and blasting for facilitating the excavation by the excavator.	Drilling & blasting has been carried out as per proposal.	Drilling & blasting has been carried out as per proposal.
3k	Provision of mining machineries in mineral benches	Excavator of 0.9m3 capacity.	Excavator of 0.9m3 capacity.	Excavator of 0.9m3 capacity.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height- 3mtr proposed	Bench height is suitable for method of mining proposed.	Bench height is suitable for method of mining proposed.
3m	Total area covered under excavation/pits	Area under excavation at the end of plan period will be 5.846 Ha	Area under excavation at the end 2018-19 as furnished in annual return submitted for 2018-19 is will be 2.791 Ha	Area under excavation at the end 2018-19 as furnished in annual return submitted for 2018-19 is will be 2.791 Ha

3n	Ore to OB ratio for the pit/mine during the year.	In 2018-19, the proposed stripping ratio in Insitu quarry was 1:0.108 (t/m3) and in Float quarry was 1:0.146 (t/m3)	In 2018-19, stripping ratio achieved in Insitu quarry was 1:0.093 (t/m3). Float quarry was not operated.	In 2018-19, stripping ratio achieved in Insitu quarry was 1:0.093 (t/m3). Float quarry was not operated.
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 17.366 Ha	Total area put in use under different heads at the end of 2018-19 as furnished in annual return of 2018-19 is 4.087 Ha	Total area put in use under different heads at the end of 2018-19 as furnished in annual return of 2018-19 is 4.087 Ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 79998 MT	2018-19: 60640 MT	2018-19: 60640 MT
3q	General remarks of inspecting officers on method of mining etc.	In 2018-19, two number of quarries namely Insitu quarry and float quarry. ROM Production proposal was 79,998 MT.	In 2018-19, one number of quarry put for production namely insitu quarry. ROM production during the year 2018-19 was 60,640MT. However, only 6850 MT of ROM was processed and remaining 53690 MT of ROM produced during the year 2018-19 have been reported in closing stock of ROM for the year 2018-19.	In 2018-19, one number of quarry put for production namely insitu quarry. ROM production during the year 2018-19 was 60,640MT. However, only 6850 MT of ROM was processed and remaining 53690 MT of ROM produced during the year 2018-19 have been reported in closing stock of ROM for the year 2018-19.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil, overburden and mineral reject proposed.	Separate dumping of top soil, overburden and mineral reject done as per proposal.	Separate dumping of top soil, overburden and mineral reject done as per proposal.
4b	Location of topsoil, OB and mineral reject dumps	Overburden to be dumped at waste dumping site located at the south-eastern corner of the M.L area.	Overburden has been dumped at waste dumping site located at the south-eastern corner of the M.L area.	Overburden has been dumped at waste dumping site located at the south-eastern corner of the M.L area.
4c	Number of dumps within lease area and outside of lease area	Number of dumps within lease area is one number. No dumps are outside the lease area.	Number of dumps within lease area is one number. No dumps are outside the lease area.	Number of dumps within lease area is one number. No dumps are outside the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are outside the ultimate pit limit.	Dumps are outside the ultimate pit limit.	Dumps are outside the ultimate pit limit.
4e	Number of active and alive dumps.	No of active dump is one number.	No of active dump is one number.	No of active dump is one number.
4f	Number of dead dumps.	Number of dead dumps is nil	Number of dead dumps is nil	Number of dead dumps is nil
4g	Number of dumps established.	Number of dead dumps is nil	Number of dead dumps is nil	Number of dead dumps is nil

- 4h Whether Retaining wall or garland drain all along dumps are there. In 2018-19, the length of retaining wall and garland drain proposed is 320 m and 330m respectively. In 2018-19, the length of retaining wall and garland drain proposed is 320 m and 330m respectively. In 2018-19, the length of retaining wall and garland drain constructed is 190 m and 190 m respectively. The remaining portion falls in the diverted forest land in which tree felling permission is yet to be obtained from competent authority before construction of retaining wall and garland drain in the proposed area.
- 4i Length of Retaining wall or garland drain all along dumps In 2018-19, the length of retaining wall and garland drain proposed is 320 m and 330m respectively. In 2018-19, the length of retaining wall and garland drain constructed is 190 m and 190 m respectively. The remaining portion falls in the diverted forest land in which tree felling permission is yet to be obtained from competent authority before construction of retaining wall and garland drain in the proposed area. In 2018-19, the length of retaining wall and garland drain constructed is 190 m and 190 m respectively. The remaining portion falls in the diverted forest land in which tree felling permission is yet to be obtained from competent authority before construction of retaining wall and garland drain in the proposed area.
- 4j Number of settling ponds In 2018-19, one number of settling pond proposed to be constructed. In 2018-19, one number of settling pond has been constructed as proposed. In 2018-19, one number of settling pond has been constructed as proposed.

4k	Specific comments of inspecting officer on waste dump management	Separate dumping of top soil, overburden and mineral reject proposed. Dumps are outside the ultimate pit limit.	Separate dumping of top soil, overburden and mineral reject done as per proposal. Dumps are outside the ultimate pit limit.	Separate dumping of top soil, overburden and mineral reject done as per proposal. Dumps are outside the ultimate pit limit.
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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 and rehabilitation.	The mine is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not Proposed	Nil. The mine is not matured for reclamation and rehabilitation.	The mine is not matured for reclamation and rehabilitation.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil generated to be stacked at the south western part of M.L area.	Top soil generated has been stacked at the south western part of M.L area.	Top soil generated has been stacked at the south western part of M.L area.
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil. The mine is not matured for reclamation and rehabilitation.	The mine is not matured for reclamation and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There is no proposal for reclamation and rehabilitation	The mine is not matured for reclamation and rehabilitation.	The mine is not matured for reclamation and rehabilitation.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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) .	Plantation- 0.174Ha	Plantation- 0.048Ha. Violation was issued during previous inspection dated 24.12.2019. The lessee have subsequently completed the rehabilitation of the remaining area during the year 2019-20.	Violation was issued during previous inspection dated 24.12.2019. The lessee have subsequently completed the rehabilitation of the remaining area during the year 2019-20.
6c	afforestation done (ha).	Plantation- 0.174Ha	Plantation- 0.048Ha. Violation was issued during previous inspection dated 24.12.2019. The lessee have subsequently completed the rehabilitation of the remaining area during the year 2019-20.	Violation was issued during previous inspection dated 24.12.2019. The lessee have subsequently completed the rehabilitation of the remaining area during the year 2019-20.
6d	No. of saplings planted during the year	No. of saplings proposed for plantation during the year 2018-19 was 435 Nos	No. of saplings planted during the year 2018-19 was 170 nos. Violation was issued during previous inspection dated 24.12.2019. The lessee has subsequently done the remaining plantation during the year 2019-20.	No. of saplings planted during the year 2018-19 was 170 nos. Violation was issued during previous inspection dated 24.12.2019. The lessee has subsequently done the remaining plantation during the year 2019-20.
6e	Cumulative no .of plants	Not Specified	No. of saplings planted during the year 2018-19 was 170 nos.	No. of saplings planted during the year 2018-19 was 170 nos.
6f	Any other method of rehabilitation	Not Proposed	Nil	Nil

6g	Cost incurred on watch and care during the year	Not Proposed	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not Proposed	Nil	The mine is not matured for reclamation 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 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	The mine is not matured for reclamation and subsequent rehabilitation.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil	The mine is not matured for reclamation and subsequent 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)	Quarterly monitoring of environmental parameters.	Quarterly monitoring of environmental parameters.	Quarterly monitoring of environmental parameters.
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. Quarterly environmental monitoring to be done	Annual report on PMCP for the year 2018-19 have been submitted. Environmental Monitoring is done on quarterly basis. The mine is not matured for reclamation and subsequent rehabilitation.	Annual report on PMCP for the year 2018-19 have been submitted. Environmental Monitoring is done on quarterly basis. The mine is not matured for reclamation and subsequent rehabilitation.

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.	Grade-wise sorting	Grades (% of Fe Content: 55% to below 58%, 60% to below 62% and 62% to below 65% . ROM production during the year 2018-19 was 60,640MT. However, only 6850 MT of ROM was processed and remaining 53690 MT of ROM produced during the year 2018-19 have been reported in closing stock of ROM for the year 2018-19.	Data 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. Dry processing consisting of crushing and screening of iron ore	Grade-wise sorting. Dry processing practiced consisting of crushing and screening of iron ore.	Grade-wise sorting. Dry processing practiced consisting of crushing and screening of iron ore.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil generated to be stacked at the south western part of M.L area.	Top soil generated has been stacked at the south western part of M.L area.	Top soil generated has been stacked at the south western part of M.L area.
8b	Concurrent use or storage of topsoil	Top soil generated to be stacked at the south western part of M.L area.	Top soil generated has been stacked at the south western part of M.L area.	Top soil generated has been stacked at the south western part of M.L area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of top soil, overburden and mineral reject proposed.	Separate dumping of top soil, overburden and mineral reject done as per proposal.	Separate dumping of top soil, overburden and mineral reject done as per proposal.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed as mine is not matured for reclamation and subsequent rehabilitation	Nil. The mine is not matured for reclamation and subsequent rehabilitation	Nil. The mine is not matured for reclamation and subsequent rehabilitation
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed as mine is not matured for reclamation and rehabilitation	Nil. The mine is not matured for reclamation and subsequent rehabilitation	Nil. The mine is not matured for reclamation and subsequent rehabilitation
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	In 2019-20, 435nos of saplings proposed for plantation.	In 2019-20, 170 nos of saplings planted. Remaining plantation completed in 2019-20.	In 2019-20, 170 nos of saplings planted. Remaining plantation completed in 2019-20.
8g	Survival rate	Not Specified	Data as furnished in annual return for 2018-19 is 72% survival rate.	Data as furnished in annual return for 2018-19 is 72% survival rate.
8h	Water sprinkling on roads to control airborne dust	Engagement of water tanker for dust suppression.	One water tanker engaged for dust suppression.	One water tanker engaged for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	In 2019-20, 435nos of saplings proposed for plantation.	In 2019-20, 170 nos of saplings planted. Remaining plantation completed in 2019-20. Aesthetic beauty in and around mines maintained.	In 2019-20, 170 nos of saplings planted. Remaining plantation completed in 2019-20. Aesthetic beauty in and around mines maintained.

Compliance of Rule 45:

Sl.No.	Item	Proposals	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 Mining engineer and Manager has been furnished in annual return submitted for 2018-19.	Mining Engineer, and Manager appointed in mines. Geologist appointed during the year 2019-20.	Mining Engineer, and Manager appointed in mines. Geologist appointed during the year 2019-20.
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: 2.791 ha, Used for waste disposal: 0.06 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 1.236 Ha	Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 2.791 ha, Used for waste disposal: 0.06 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 1.236 Ha	Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 2.791 ha, Used for waste disposal: 0.06 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 1.236 Ha
9d	Scrutiny of Annual return on afforestation	In 2018-19, number of saplings planted within lease area in 170 nos.	In 2018-19, number of saplings planted within lease area in 170 nos.	Data as furnished in annual return for 2018-19

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generated during the year 2018-19. was 510 tonnes.	Mineral reject generated during the year 2018-19 was 510 tonnes.	ROM production during the year 2018-19 was 60,640MT. However, only 6850 MT of ROM was processed and remaining 53690 MT of ROM produced during the year 2018-19 have been reported in closing stock of ROM for the year 2018-19.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of processed ore at mine head. Grades (% of Fe content) A.Lumps : (1) 60% to below 62%: 2930 tonnes; (2). 62% to below 65% : 3510 tonnes B.Fines: 55% to below 58% : 510 tonnes. Closing Stock of ROM: 53690.00 MT	Closing stock of processed ore at mine head. Grades (% of Fe content) A.Lumps : (1) 60% to below 62%: 2930 tonnes; (2). 62% to below 65% : 3510 tonnes B.Fines: 55% to below 58% : 510 tonnes. Closing Stock of ROM: 53690.00 MT	Data as furnished in annual return for 2018-19.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost per metric tonne: Rs 2185.00. Ex-mine price (in Rs/MT) Lump of 60%to below 62% Fe is Rs 3103.00, 62 % to below 65% is Rs 3703.00. Ex-mine price (in Rs/MT) Fines of 555 to below 58% is Rs 1036.00	Production cost per metric tonne: Rs 2185.00. Ex-mine price (in Rs/MT) Lump of 60%to below 62% Fe is Rs 3103.00, 62 % to below 65% is Rs 3703.00. Ex-mine price (in Rs/MT) Fines of 555 to below 58% is Rs 1036.00	Production cost per metric tonne: Rs 2185.00. Ex-mine price (in Rs/MT) Lump of 60%to below 62% Fe is Rs 3103.00, 62 % to below 65% is Rs 3703.00. Ex-mine price (in Rs/MT) Fines of 555 to below 58% is Rs 1036.00

9h	Scrutiny of Annual return on fixed assets	Rs 22101182	Rs 22101182	Data as furnished in annual return for 2018-19
9k	Scrutiny of Annual return on mining machineries	Loading Excavator (0.9 cum capacity): 1 no, Tipper (4.5 cum capacity): 3 no, etc.	Loading Excavator (0.9 cum capacity): 1 no, Tipper (4.5 cum capacity): 3 no, etc.	Loading Excavator (0.9 cum capacity): 1 no, Tipper (4.5 cum capacity): 3 no, etc.

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 :

Sudip Ranjan Mazumdar
02/03/20
(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines