

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

MCDR INSPECTION REPORT

Bhubaneswar regional office

Mine file No : ORI/IRON/KJR/MCDR-67/BBS

Mine code : 30ORI08081

- (i) Name of the Inspecting : SRM) SHRI SUDIP RANJAN MAZUMDAR
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri H.N.Singh, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 20/02/2020
- (v) Prev.inspection date : 13/10/2015

PART-I : GENERAL INFORMATION

1. (a) Mine Name : THAKURANI BLOCK-B
- (b) Registration NO. :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KEONJHAR
Village : SAYABALI
Taluka : BARBIL
Post office : BARBIL
Pin Code : 758035
FAX No. : 06767-75624
E-mail : slmlbarbil@hotmail.com
Phone : 06767-262032/33/34
- (f) Police Station :
- (g) First opening date : 27/08/2001
- (h) Weekly day of rest : SUN
2. Address for : THAKURANI IRON ORE MINES BLOCK - B
correspondance VILL-SOYABALI, BALITA &-THAKURANI R F
PO-BARBIL, DIST-KEONJHAR, ORISSA
3. (a) Lease Number : ORI0688
- (b) Lease area : ~~2340.2~~ 947.046Ha
- (c) Period of lease : 20 Lease expiry on 13.08.2021
- (d) Date of Expiry : 13.08.2021
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S SARDA MINES (P) LTD
 KEONJHAR ORISSA
 Phone:06767-248537
 FAX :06767-248537

Owner : SHRI ARJUN SARASWAT, NOMINATED OWNER
 THAKURANI IRON MINE (B
 BLOCK) m/S SARDA MINES (P)
 LTD. PO BOX -85 BARBIL,
 DIST KEONJHAR ORISSA
 KEONJHAR ORISSA
 Phone: 06767-247618
 FAX : 06767-248537

Agent : SHRI H N SINGH
 THAKURANI IRON MINE
 SOYABALI, PO-BARBIL
 KEONJHAR KEONJHAR ORISSA
 Phone: 067-247618
 FAX : 06767-248537

Mining Engineer
 Name : S K SINGH, Full Time
 Qualification : BE , FCC
 Appointment/ : 27/06/2011
 Termination date

Geologist
 Name : SHRI SHYAMANUJ DUBEY, Full Time
 Qualification : MSC APPLIED GEOLOGY
 Appointment/ : 01/09/2018
 Termination date

Manager
 Name : SHRI S K SING
 Qualification : BE MINING
 Appointment/ : 30/09/2015
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	19/10/2006
		Modif. approved Mining Scheme	18/05/2010
		Mining Scheme rule 12 MCDR1988	02/03/2011
		Modif. approved Mining Scheme	09/08/2012
		Mining Scheme rule 12 MCDR1988	18/01/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2016-17: 88 nos of BH 2017-18: 121 nos of BH 2018-19: 147 nos of BH	No bore holes have been drilled since the mining operations were suspended from 01/04/2014, by the order of DDM, Joda circle vide letter no 1554 dated 31.03.2014 untill further order	No bore holes have been drilled since the mining operations were suspended from 01/04/2014, by the order of DDM, Joda circle vide letter no 1554 dated 31.03.2014 untill further order
1b	Exploration over lease area for geological axis 1 or 2	In 2018-19, 147 nos of boreholes have been proposed for drilling	No bore holes have been drilled since the mining operations were suspended from 01/04/2014, by the order of DDM, Joda circle vide letter no 1554 dated 31.03.2014 untill further order	No bore holes have been drilled since the mining operations were suspended from 01/04/2014, by the order of DDM, Joda circle vide letter no 1554 dated 31.03.2014 untill further order
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	There was no exploration done during 2018-19.	There was no exploration done during 2018-19.
1d	Balance area to be explored to bring Geological axis in 1 or 2	2016-17: 88 nos of BH 2017-18: 121 nos of BH 2018-19: 147 nos of BH	No bore holes have been drilled since the mining operations were suspended from 01/04/2014, by the order of DDM, Joda circle vide letter no 1554 dated 31.03.2014 untill further order	No bore holes have been drilled since the mining operations were suspended from 01/04/2014, by the order of DDM, Joda circle vide letter no 1554 dated 31.03.2014 untill further order

1e	Balance reserve as on 01/04/20	As per the scheme of mining approved dated 18.01.2016, the reserve is 201.421 million tones and remaining resources is 88.257 million tones. Total reserve and resource is 289.678 million tones	Since there was no mining operation carried out from 01.04.2014, there was no depletion of reserves. Hence, as on 01.04.2019, the reserve remains at 201.421 million tones and remaining resources at 88.257 million tones. Total reserve and resource is 289.678 million tones	Since there was no mining operation carried out from 01.04.2014, there was no depletion of reserves. Hence, as on 01.04.2019, the reserve remains at 201.421 million tones and remaining resources at 88.257 million tones. Total reserve and resource is 289.678 million tones
1f	General remarks of inspecting officers on geology, exploration etc	In 2018-19, 147 nos of boreholes have been proposed for drilling	No bore holes have been drilled since the mining operations were suspended from 01/04/2014, by the order of DDM, Joda circle vide letter no 1554 dated 31.03.2014 untill further order	No bore holes have been drilled since the mining operations were suspended from 01/04/2014, by the order of DDM, Joda circle vide letter no 1554 dated 31.03.2014 untill further order

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In 2018-19, development proposed in Block -05 and Block-08	No development has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No development has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral proposed	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
2c	Stripping ratio or ore to OB ratio	1: 0.13 m3 / m3	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
2d	Quantity of topsoil generation in m3	During the scheme period from 2016-17 to 2020-21, very less quantity of top soil is envisaged to be encountered which will be utilized for plantation	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
2e	Quantity of overburden generation in m3	In 2018-19, proposal for OB generation was 459570 m3	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In 2018-19, development proposed in Block -05 and Block-08	No development has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two nos of pits namely Block-05 and Block-08	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3b	Quantity of ROM mineral production proposed	In 2018-19, ROM production proposal was 15.00 million tones	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3c	Recovery of sailable/usable mineral from ROM production	95%	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order

3d	Quantity of mineral reject generation	316500 m3	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3e	Grade of mineral rejects generation and threshold value declared.	45-55 % Fe. Threshold value for iron ore is 45% Fe	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3f	Quantity of sub grade mineral generation.	316500 m3	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3g	Grade of sub grade mineral generation	45-55 % Fe.	Nil	No production has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Already a wet beneficiation plant has been installed.	Not operated.	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3j	Provision of drilling and blasting in mineral benches	Presently, 165mm dia holes are drilled by ROC L8. For blasting operations SME/ANFO explosives is being used.	There was no drilling and blasting in mineral benches.	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3k	Provision of mining machineries in mineral benches	Excavator and dumper combination have been proposed for mining in mineral benches.	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposal for Bench Height in Block-8 is 9 m and in Block-9 is 9 and 12 m	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
3m	Total area covered under excavation/pits	Area under mining at the end of plan period will be 213.659 Ha	150.925 ha as reported in annual return for 2018-19	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order

3n	Ore to OB ratio for the pit/mine during the year.	1: 0.13 m3 /	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
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 308.875 Ha	Total area put in use under different heads at the end of 2018-19 is 251.876 Ha as reported in annual return for 2018-19	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 14.99 million tones 2017-18: 15.00 million tones 2018-19: 15.00 million tones	2016-17: Nil 2017-18: Nil 2018-19: Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
3q	General remarks of inspecting officers on method of mining etc.	In 2018-19, ROM production proposal was 15.00 million tones	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of overburden and mineral reject proposed. During the scheme period from 2016-17 to 2020-21, very less quantity of top soil is envisaged to be encountered which will be utilized for plantation	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
4b	Location of topsoil, OB and mineral reject dumps	It is proposed that the waste generated during the scheme period shall be dumped in Dump-No-2 at Block -7, south eastern side of Block -5 (backfilling) and new dump (dump-3)	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
4c	Number of dumps within lease area and outside of lease area	Two waste dumps exists within lease area	Two waste dumps exists within lease area	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Initially, the waste rocks generated in the mining process from BL-05 & BL-08 shall be dumped at dump-2 in Block -7. After that, south eastern side of Block-05 (demineralized area after complete extraction of ore) and new barren area in Block-5	No dumping took place in 2018-19 as no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No dumping took place in 2018-19 as no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
4e	Number of active and alive dumps.	One dump exists	One dump exists	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
4f	Number of dead dumps.	One dump exists	One dump exists	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

4g	Number of dumps established.	One dump exists	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall have been constructed and shall be constructed	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall have been constructed and shall be constructed	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

4j	Number of settling ponds	Settling ponds have been constructed and shall be constructed	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
4k	Specific comments of inspecting officer on waste dump management	It is proposed that the waste generated during the scheme period shall be dumped in Dump-No-2 at Block -7, south eastern side of Block -5 (backfilling) and new dump (dump-3)	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

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.	Full extraction of mineral before backfilling	No backfilling has been done as no waste generated as mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No backfilling has been done as no waste generated as No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

5b	Area under backfilling of mined out area	Void available for backfilling: Length: 400m, Breadth: 20m, depth: 30m	No backfilling has been done as no waste generated as No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No backfilling has been done as no waste generated as No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	During the scheme period from 2016-17 to 2020-21, very less quantity of top soil is envisaged to be encountered which will be utilized for plantation	Nil. There was no generation of top soil as there no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	Nil. There was no generation of top soil as there no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
5d	Total area fully reclaimed and rehabilitated	1.23 Ha	Nil. There was no generation of top soil as there no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	Nil. There was no generation of top soil as there no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Void available for backfilling: Length: 400m, Breadth: 20m, depth: 30m	No backfilling has been done as no waste generated as no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No backfilling has been done as no waste generated as no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
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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) .	1.23 Ha	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

6c	afforestation done (ha).	1.23 Ha	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
6d	No. of saplings planted during the year	6000 nos for Dump Management and 3000 nos for management of worked out benches	1975 nos of saplings planted for dump management	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
6e	Cumulative no .of plants	Not Specified	351434 nos of saplings planted	Nil
6f	Any other method of rehabilitation	Not proposed	Miyawaki plantation	Nil
6g	Cost incurred on watch and care during the year	Rs 3.0 lakhs	Rs 1.72 Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Void available for backfilling: Length: 400m, Breadth: 20m, depth: 30m	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Waste/tailling	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.23 Ha	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
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	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)		Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
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 proposals have not been complied as No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	Annual report on PMCP for the year 2018-19 have been submitted. PMCP proposals have not been complied as No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

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 sorting within lease area	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
7c	Different grade of mineral sorted out at mines.	45 to -55% Fe and +55% Fe	Nil	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
7d	Any beneficiation process at mines .	Already a wet beneficiation plant has been installed.	Not operated.	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade-wise sorting within lease area	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	During the scheme period from 2016-17 to 2020-21, very less quantity of top soil is envisaged to be encountered which will be utilized for plantation	Nil. There was no generation of top soil as there no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	Nil. There was no generation of top soil as there no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
8b	Concurrent use or storage of topsoil	During the scheme period from 2016-17 to 2020-21, very less quantity of top soil is envisaged to be encountered which will be utilized for plantation	Nil. There was no generation of top soil as there no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	Nil. There was no generation of top soil as there no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Initially, the waste rocks generated in the mining process from BL-05 & BL-08 shall be dumped at dump-2 in Block -7. After that, south eastern side of Block-05 (demineralized area after complete extraction of ore) and new barren area in Block-5	No dumping took place in 2018-19 as no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	No dumping took place in 2018-19 as no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste/tailings Nil have been proposed for backfilling	No dumping took place in 2018-19 as no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Waste/tailings Nil have been proposed for backfilling	No dumping took place in 2018-19 as no mining activities has been done since the mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 untill further order	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	6000 nos for Dump Management and 3000 nos for management of worked out benches	1975 nos of saplings planted for dump management	1975 nos of saplings planted for dump management
8g	Survival rate	Not Specified	Survival rate : 70% as reported in annual return for 2018-19	Survival rate : 70% as reported in annual return for 2018-19
8h	Water sprinkling on roads to control airborne dust	Proposed	Maintained as observed during inspection	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda. DDM Joda, vide their letter no. 280/Mines dated 31.01.2020 has allowed SMPL to resume mining operations & according SMPL has resume mining operation from 01.02.2020.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines is maintained	Aesthetic beauty in and around mines is maintained

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual returns to be submitted as per rule 45 of MCDR 2017	Monthly returns and annual return for 2018-19 have been submitted.	Monthly returns and annual return for 2018-19 have been submitted.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Manager, Mining Engineer and Geologist furnished in annual return for 2018-19	Manager, Mining Engineer and Geologist have been appointed in mines.	Manager, Mining Engineer and Geologist have been appointed in mines.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 138.742 ha, Used for waste disposal: 11.993 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 60.968 Ha, other purposes: 13.214 Ha, area exploited & abandoned by opencast mining: 12.183 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: 138.742 ha, Used for waste disposal: 11.993 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 60.968 Ha, other purposes: 13.214 Ha, area exploited & abandoned by opencast mining: 12.183 Ha etc	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order
9d	Scrutiny of Annual return on afforestation	1975 nos of saplings planted within lease area	1975 nos of saplings planted within lease area	1975 nos of saplings planted within lease area
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock of Lump at mine head Lump 62% to below 65% Fe: 29977.818 tones. Fines 58% to below 60% Fe: 198409.719 tones Fines 60% to below 62% Fe: 11155841.099 tones Fines 60% to below 65% Fe: 851067.52 tones Fines 65% Fe and above : 9.678 tones	Closing Stock of Lump at mine head Lump 62% to below 65% Fe: 29977.818 tones. Fines 58% to below 60% Fe: 198409.719 tones Fines 60% to below 62% Fe: 11155841.099 tones Fines 60% to below 65% Fe: 851067.52 tones Fines 65% Fe and above : 9.678 tones	Data as furnished in annual return for 2018-19
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	The mining operations were temporarily suspended from 01/04/2014, by the order of DDM, Joda vide letter no 1554 dated 31.03.2014 until further order.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rs) 3420685309	Value of Fixed Assets (in Rs) 3420685309	Data as furnished in annual return for 2018-19
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) 10.000 cum capacity: 1 no, Backhoe (2.0 cum capacity): 1 no; Dumper (100 tonne capacity): 3 nos etc.	Shovel (Hydraulic) 10.000 cum capacity: 1 no, Backhoe (2.0 cum capacity): 1 no; Dumper (100 tonne capacity): 3 nos etc.	Shovel (Hydraulic) 10.000 cum capacity: 1 no, Backhoe (2.0 cum capacity): 1 no; Dumper (100 tonne capacity): 3 nos 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 :

Sonayndar
12/07/20
(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines