

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

MCDR inspection REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-MN/SNG/MCDR-19/BBS

Mine code : 40ORI13040

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Ranjan Kumar Singh, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 30-NOV-18
- (v) Prev.inspection date : 23-NOV-15

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SARKUNDA**
- (b) **Registration NO.** : **IBM/4583/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : SARKUNDA
- Taluka : BONAI
- Post office : BHUTADA
- Pin Code :
- FAX No. : 0676277481
- E-mail : bbl.geology@feegradeandco.()
- Phone : 0676276161
- (f) Police Station : Tensa
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : VILL-SARKUNDA
correspondance PO-BHUTUDA
DIST-SUNDERGARH
3. (a) Lease Number : ORI0194
- (b) Lease area : 393.56
- (c) Period of lease : 20
- (d) Date of Expiry : 19-DEC-00
4. Mineral worked : IRON ORE Associated
MANGANESE ORE Main

5. Name and Address of the

Lessee : FEEGRADE & CO. (P) LTD.
 PO-BARBIL DIST-KEONJHAR
 KEONJHAR ORISSA
 Phone:
 FAX :

Owner : M/S FEEGRADE & CO (P) LTD
 PO-BARBIL DIST-KEONJHAR
 KEONJHAR ORISSA
 Phone: 06767277481
 FAX : 06767276161

Agent : AUSA SANKAR MOHAPATRA
 SUNDARGARH ORISSA
 Phone: 06767276161
 FAX : 06767277481

Mining Engineer

Name : RANJAN KUMAR SINGH, Full Time
 Qualification : AMIE (Mining)
 Appointment/ : 22-MAR-17
 Termination date

Geologist

Name : MANORANJAN JENA, Full Time
 Qualification : M.Sc.(Geology)
 Appointment/ : 01-JUN-11
 Termination date

Manager

Name : RAJAN KUMAR SINGH
 Qualification : AMIE (Mining)
 Appointment/ : 22-MAR-17
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	12-NOV-08
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	12-JUL-10
	:	Mining Scheme rule 12 MCDR1988	09-APR-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	68 nos of boreholes were propose during the year 2017-18.	Nil	the mine is not in operation since 2009 and said miing lease was lapsed by State Govt. of Odisha in 2015. Sate Govt.of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	only 54 ha has been explored uunder G1 area and for the rest of the area exploration proposal given in the pla period.	Nil	Nil

1e	Balance reserve as on 01/04/20	As per the approved document on 09.04.2015 the manganese ore reserves are 121: 1.27 million tonnes, 122: 0.6 million tonnes and resources are 222: 0.4 million tonnes and 332: 4.41 million tonnes and iron ore reserves are 121: 3.9 million tonnes and resources are Nil.	there is no production from the mines so the updated reserves and resources as on 01.04.2018 are manganese ore reserves are 121: 1.27 million tonnes, 122: 0.6 million tonnes and resources are 222: 0.4 million tonnes and 332: 4.41 million tonnes and iron ore reserves are 121: 3.9 million tonnes and resources are Nil.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No comments to offer.	the mine is not in operation since 2009 and said mining lease was lapsed by State Govt. of Odisha in 2015. State Govt. of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Iron quarry, Mango block, Mayuranvha block, Julutangar block of Mn quarry	Nil	Nil

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	no generation of top soil is proposed. seperate benches in OB and mineral are proposed.	Nil	Nil
2c	Stripping ratio or ore to OB ratio	1:0.12 t/cu.m. for Iron and 1:4.54 t/cu.m. for Manganese	Nil	Nil
2d	Quantity of topsoil generation in m3	Not proposed.	Nil	Nil
2e	Quantity of overburden generation in m3	343670 cu.m.	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments to offer.	the mine is not in operation since 2009 and said mining lease was lapsed by State Govt. of Odisha in 2015. Sate Govt.of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	5 nos of pits	Nil	Nil
3b	Quantity of ROM mineral production proposed	Manganese: 60199 tonnes and iron: 491232 tonnes	Nil	Nil
3c	Recovery of sailable/usable mineral from ROM production	Manganese: 60199 tonnes and iron: 491232 tonnes	Nil	Nil

3d	Quantity of mineral reject generation	49123 tonnes of Iron and Managnese of 12037 tonnes	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	+10%-25% Mn and +45%-55% Fe	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual for Manganese and mechanised for Iron	Nil	Nil
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	drill dia of 110 mm and emuision type of explosive with intitiation of delay detonators.	Nil	Nil
3k	Provision of mining machineris in mineral benches	shovel and dumper combination	Nil	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	height of bench 6 m.	Nil	Nil
3m	Total area covered under excavation/pits	73.569 ha till the end of plan period.	54.447 ha	Nil

3n	Ore to OB ratio for the pit/mine during the year.	1:0.12 t/cu.m. for Iron and 1:4.54 t/cu.m. for Manganese	Nil	Nil
3o	Total area put in use under different heads at the end of year	mining: 73.569 ha, waste dump: 16.738 ha, mineral storage: 25.177 ha	mining: 54.447 ha, waste dump: 3.638 ha, mineral storage: 21.667 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 60060 t, Mn and 980280 tonnes, Iron 2014-15: 60103 t, Mn and Nil tonnes, Iron 2015-16: 20003 t, Mn and 475048 tonnes, Iron 2016-17: 60003 t, Mn and 564060 tonnes, Iron 2017-18: 60199 t, Mn and 491232 tonnes, Iron	Nil	Nil
3q	General remarks of inspecting officers on method of mining etc.	No comments to offer	the mine is not in operation since 2009 and said mining lease was lapsed by State Govt. of Odisha in 2015. Sate Govt.of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	no topsoil generation is proposed. seperate benches in OB and mineral rejects are proposed.	Nil	Nil
4b	Location of topsoil, OB and mineral reject dumps	4 nos of dumps called dump-1,2,3 and 4	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	4 nos.	4 nos.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	Nil	Nil
4e	Number of active and alive dumps.	4 nos.	Nil	Nil
4f	Number of dead dumps.	Not proposed.	Nil	Nil
4g	Number of dumps established.	Not proposed.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed.	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	proposed.	Nil	Nil
4j	Number of settling ponds	Not proposed.	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	No comments to offer.	the mine is not in operation since 2009 and said mining lease was lapsed by State Govt. of Odisha in 2015. State Govt. of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.	Nil

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	Nil
5b	Area under backfilling of mined out area	Not proposed.	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No comments to offer.	the mine is not in operation since 2009 and said miing lease was lapsed by State Govt. of Odisha in 2015. Sate Govt.of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.	Nil

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).	submitted.	Nil	Nil

6b	Area available for rehabilitation (ha) .	1 ha	Nil	Nil
6c	afforestation done (ha).	1 ha	Nil	Nil
6d	No. of saplings planted during the year	2500 nos.	Nil	Nil
6e	Cumulative no .of plants	Not proposed.	Nil	Nil
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 (Lx B x D	Not proposed.	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on 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	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)	monitoring of environmenatl parameters proposed.	Nil	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comments to offer	the mine is not in operation since 2009 and said miing lease was lapsed by State Govt. of Odisha in 2015. Sate Govt.of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	gradewise sorting i lease are proposed.	Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual for manganese and mechanised for iron	Nil	Nil
7c	Different grade of mineral sorted out at mines.	proposed.	Nil	Nil.
7d	Any beneficiation process at mines	NOT proposed.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comments to offer.	the mine is not in operation since 2009 and said miing lease was lapsed by State Govt. of Odisha in 2015. Sate Govt.of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Nil	Nil
8b	Concurrent use or storage of topsoil	Not proposed.	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	Nil	Nil

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)	2500 nos	Nil	Nil
8g	Survival rate	Not proposed.	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	proposed.	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments to offer.	the mine is not in operation since 2009 and said miing lease was lapsed by State Govt. of Odisha in 2015. Sate Govt.of Odisha again extended the validity of the lease period till 2020 and subsequently SLD executed on 14.11.2018 which is valid till 31.03.2020.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

9a	Status of submission of Monthly and Annual returns	annual return submitted for the year 2017-18.	annual return submitted for the year 2017-18.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	graduate mining engineer:1, geologist:1	graduate mining engineer:1, geologist:1	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	PITS-54.447Ha,dumps - 3.638Ha,mineral storage- 21.677ha,green belt- 0.860ha,infrast ructure& roads-12.710 ha	PITS-54.447Ha,dumps- 3.638Ha,mineral storage- 21.677ha,green belt- 0.860ha,infrastructure& roads-12.710 ha	Nil
9d	Scrutiny of Annual return on afforestation	610 nos	610 nos	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil, Mn ore and Iron: Nil 926.031MT processed manganese ore closing stock and 367.940MT processed Iron ore closing stock	926.031MT processed manganese ore closing stock and 367.940MT processed Iron ore closing stock	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost Rs.Nil	Nil	No production reported.

9h	Scrutiny of Annual return on fixed assets	Rs 8025330	Rs 8025330	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Nil

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 :

(RAMKISHAN R)

Indian Bureau of Mines