

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

Review and updation of Mining Plan REPORT

Goa regional office

Mine file No : MAH/SDG/FE-1/GOA

Mine code : 30MSH28017

- (i) Name of the Inspecting : P01) PREM PRAKASH
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHRI. N.PRASAD, AGENT AND RIYAZAHMED BARUDWALE, TQP
Official with
Designation
- (iv) Date of Inspection : 09-DEC-19
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : TIRODA (34-48-12 HECTRS)
- (b) **Registration NO.** : IBM/585/2011
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : SINDHUDURG
- Village : TIRODA
- Taluka : SAWANTWADI
- Post office : TIRODA
- Pin Code : 590006
- FAX No. : 0831-2426487
- E-mail : gogte.minerals@yahoo.com
- Phone : 0831-2407756
- (f) **Police Station** : Aronda
- (g) **First opening date** : 02-OCT-80
- (h) **Weekly day of rest** : FRI
2. **Address for correspondance** : VILLAGE - TIRODA,
TALUKA - SAWANTWADI,
DISTRICT - SINDHUDURG.
3. (a) **Lease Number** : MSH0052
- (b) **Lease area** : 34.48
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 18-APR-22
4. **Mineral worked** : IRON ORE Main

5. Name and Address of the

Lessee : GOGTE MINERALS
 Arvind B. Gogte GOGTE
 MINERALS 146, TILAKWADI,
 BELGAUM KARNATAKA
 Phone:0831-2426487
 FAX :0831-2426487

Owner : ARVIND B. GOGTE
 GOGTE MINERALS 146,
 TILAKWADI, BELGAUM
 KARNATAKA
 Phone: 0831-2426487
 FAX : 0831-2426487

Agent : Mr.V.Narayan Prasad
 Tiroda Iron Ore Mine,
 Tiroda(Post) Tq-
 Sawanthwadi, Sindhudurg(D)
 Maharashtra-416518
 SINDHUDURG MAHARASHTRA
 Phone: 9850356678
 FAX :

Mining Engineer

Name : Nilesh D Raut, Full Time
 Qualification : BE Mining
 Appointment/ : 01-NOV-14
 Termination date

Manager

Name : S.P.LINGAYAT
 Qualification : DIPLOMA IN MINING, FCMM
 Appointment/ : 01-FEB-13 20-APR-18
 Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 20-NOV-07
 Plan/Scheme of Mining Renewal under rule 24 MCR1960 12-APR-11
 Mining Scheme rule 12 MCDR1988 18-MAY-15

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed in the year 2017-18	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed in the year 2017-18	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2		So far about 20 Ha is explored under G-1 or 2 level.	In remaining lease area, no promising mining potential is available because of limited width in this part of lease area.
1e	Balance reserve as on 01/04/20		Balance reserve (111+122) 0.793Million tonnes	Balance Total Resources 1.781Million tonnes
1f	General remarks of inspecting officers on geology, exploration etc		The lease comprises two blocks i.e. western block of 20 ha and eastern block of 14.4812 ha. So far western block is explored under G-1 or 2 level. Eastern block is having very narrow width, hence, no promising ore body and mining potential is available in this block because of width limitation.	

Development :

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

2a	Location of development w.r.t.lease area	-N60 to -N280 & -E760 to -E980	No work has been carried out in the year 2018-19	The mine is not working due to operations becoming uneconomic. The lessee has submitted Notice of temporary discontinuance of mine on 19.11.2018.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	Nil	
2c	Stripping ratio or ore to OB ratio	1:1.60 in the year 2018-19	No work has been carried out in the year 2018-19	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	114600 m3 in the year 2018-19	Nil	No any excavation/development carried out in year 2018-19.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The mine working is temporarily discontinued. The lessee has submitted Notice of temporary discontinuance of mine on 19.11.2018 mentioning reason as operations becoming uneconomic.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	nil	No any excavation/ROM production carried out in year 2018-19.
3b	Quantity of ROM mineral production proposed	200000 tonnes in the year 2018-19	Nil	
3c	Recovery of sailable/usable mineral from ROM production	100%	NA	
3d	Quantity of mineral reject generation	Nil	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Nil	Nil	
3k	Provision of mining machineries in mineral benches	HEMMs	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	Nil	
3m	Total area covered under excavation/pits	Proposed for 5 years: 8.4185 ha	5.386 Ha	cumulative
3n	Ore to OB ratio for the pit/mine during the year.	1:1.60	Nil	
3o	Total area put in use under different heads at the end of year	Proposed for 5 years: Mining-8.4185 Ha Dump-5.7384 Ha Roads- 0.5636Ha Green belt- 4.0114 Ha	Mining-5.386 Ha Dump-5.377 Ha Roads & buildings- 0.425 Ha Env. works- 0.984 Ha	cumulative

3p	Production of ROM mineral during the last five year period as applicable	2014-15= 3,99,000 tonnes 2015-16= 2,00,600 tonnes 2016-17=2,00,000 tonnes 2017-18= 2,00,000 tonnes 2018-19 = 2,00,000 tonnes	2014/15 =2,31,422 tonnes 2015/16 =1,40,708 tonnes 2016/17 = 47,842 tonnes 2017/18 = Nil 2018/19 = Nil	ROM Production given as reported in approved MP/RMP/Annual Returns
3q	General remarks of inspecting officers on method of mining etc.	The mine working is temporarily discontinued. The lessee has submitted Notice of temporary discontinuance of mine on 19.11.2018 mentioning reason as operations becoming uneconomic.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Top Soil generation. No surface dumping. Back filling of OB/waste within the mined out part of Pit is Proposed	Nil	
4b	Location of topsoil, OB and mineral reject dumps	Within lease	Nil	
4c	Number of dumps within lease area and outside of lease area	-	Lease area = 02	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Non	Non	
4e	Number of active and alive dumps.	02	o2	

4h	Whether Retaining wall or garland drain all along dumps are there.	yes	yes
4i	Length of Retaining wall or garland drain all along dumps	Not proposed in 2018-19	Nil
4j	Number of settling ponds	nil	nil
4k	Specific comments of inspecting officer on waste dump management		Back filling of OB/waste within the mined out part of Pit is Proposed; However, No any excavation/ development and back-filling were carried out in year 2018-19.

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.	Mineral to be fully extracted before starting backfilling	No any Back-filling was carried out in year 218-19.	
5b	Area under backfilling of mined out area	2.12 Ha	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top Soil generation/use is not proposed	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Reclamation/Back filling of OB/waste within the mined out part of Pit is Proposed; However, No any Reclamation/Back filling was carried out in year 218-19.	

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).	Before 1st july every year	The mine working is temporarily discontinued.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.01 Ha.	In 2018-19 - 3500 nos. Plantation carried out over dumps as gap planation.	
6d	No. of saplings planted during the year	810 Nos.	In 2018-19 - 3500 nos. Plantation carried out over dumps and as gap planation.	
6e	Cumulative no .of plants		Plants Cumulative - 74662 nos.	
6f	Any other method of rehabilitation	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Back filling of OB/waste within the mined out part of Pit is Proposed	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	

6q	General remarks - of inspecting officers on PMCP compliance and progressive closure operations etc.	No Reclamation/Back filling of OB/waste within the mined out part of pit was carried out in year 2018-19 . 3500 nos. Plantation reported carried out over dumps as gap planation.
----	---	---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	Nil	The mine is not working since year 2017-18.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	nil	
7c	Different grade of mineral sorted out at mines.	yes	Nil	
7d	Any beneficiation process at mines .	Dry Screening	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No any excavation/ processing of ore was carried out in year 218- 19.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	NA	
8b	Concurrent use or storage of topsoil	Top Soil not available	NA	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Overburden waste is proposed for backfilling	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden waste is proposed for backfilling within the pit	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Pit reclamation by backfilling proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)			Plantation carried out in year 2018-19 - 3500 Plants & Cumulative - 74662 Nos.
8g	Survival rate			about 70%
8h	Water sprinkling on roads to control airborne dust	proposed	Nil	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area appears to be good.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to = November 2019 AR Submitted up to = 2018-19	Being submitted regularly.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Mr. Nilesh Raut Geologist: Mr. Sunil Injal Manager: Mr. Sujay Teli	Mining Engineer: Mr. Nilesh Raut Geologist: Mr. Sunil Injal Manager: Mr. Sujay Teli
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining-5.386 Ha Dump-8.377 Ha Roads & buildings- 0.425 Ha Env. works- 0.984 Ha	Mining-5.386 Ha Dump-8.377 Ha Roads & buildings- 0.425 Ha Env. works- 0.984 Ha
9d	Scrutiny of Annual return on afforestation	3500 saplings	3500 saplings
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Material Stock ROM (Below 55%) 4143.45 tonnes Lumps (Below 55%) 1382.54 tonnes Lumps 55% to below 58% 77.12 tonnese	Material Stock ROM (Below 55%) 4143.45 tonnes Lumps (Below 55%) 1382.54 tonnes Lumps 55% to below 58% 77.12 tonnese
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	The mine is not working since year 2017-18.
9h	Scrutiny of Annual return on fixed assets	Nil	The mine is not working since year 2017-18.
9k	Scrutiny of Annual return on mining machineries	Nil	The mine is not working since year 2017-18.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(PREM PRAKASH)

Indian Bureau of Mines