

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

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** MAH/SDG/FE-6/GOA

**Mine code :** 30MSH28004

- (i) Name of the Inspecting : P01 ) PREM PRAKASH  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI. SREENIVASARAO, MINES MANAGER  
Official with  
Designation
- (iv) Date of Inspection : 13-JUL-21
- (v) Prev.inspection date : 06-NOV-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : REDI BLOCK I 94.70.60HECT
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : SINDHUDURG
- Village : REDI
- Taluka : VENGURLA
- Post office : REDI
- Pin Code : 416517
- FAX No. : 0831-2426487
- E-mail : gogtminerals@yahoo.com
- Phone : 0831-2407756
- (f) **Police Station** : Redi
- (g) **First opening date** : 01-JAN-58
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : VILLAGE - REDI,  
TALUKA - VENGURLA,  
DISTRICT - SINDHUDURG
3. (a) **Lease Number** : MSH0040
- (b) **Lease area** : 94.71
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 01-NOV-56
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 : D. R. VAZE  
 Cidade de Goa, Dona Paula,  
 Goa NORTH GOA GOA  
 Phone: 0832-2454575, 9850477966  
 FAX : 0832-2454575

## Mining Engineer

Name : R. Purushothaman, Full Time  
 Qualification : B. E. (Mining)  
 Appointment/ : 14-AUG-12  
 Termination date

## Geologist

Name : Victor Fernandes, Full Time  
 Qualification : M.Sc. In Geology  
 Appointment/ : 01-NOV-13  
 Termination date

## Manager

Name : Ravindra Nipane  
 Qualification : BE Mining First class certificate  
 Appointment/ : 07-DEC-13  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	27-JUL-07
		Mining Scheme rule 12 MCDR1988	25-FEB-13
		MP modif under MCR 1960	19-JAN-16
		MP modif under 17(3) MCR 2016	31-MAR-20
		MP modif under 17(3) MCR 2016	12-NOV-20
		MP review under 17(1) MCR 2016	10-MAR-21

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	07 Boreholes (700m) In FY 2020-21	06 Boreholes(337m) in FY 2020-21; In house exploartion done, cost-Rs. 4.78lakh	Balance 01 BH reported drilled in the year 2021
1d	Balance area to be explored to bring Geological axis in 1 or 2		About 3 (ha)	About 58.5 Ha ML area reported as Non-Mineralized
1e	Balance reserve as on 01/04/20	-	(111)= 4.98 million tonnes	As per Annual Return submitted for FY 2020-21
1f	General remarks of inspecting officers on geology, exploration etc		Balance 01 BH proposed in FY 2020-21 reported drilled in the year 2021-22. Exploration is continuing. Further, Exploration proposal has been reviewed and updated in the Review and upadation of Mining Plan (RMP) approved on dt. 10.03.2021.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Area Between X-section N67 to N 590 & E -42 to E 578	Area Between X-section N67 to N 590 & E -42 to E 578	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	yes	
2c	Stripping ratio or ore to OB ratio	1:4.2	1:3.25	Te : Te
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	773675.5 m3 (1547351 tonnes) proposed in FY 2020-21	597514 m3 (1195028 tonnes) in FY 2020-21	As per Annual Return submitted for FY 2020-21
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development works observed lagging behind than proposed as less development/waste removal reported carried out in the year 2020-21 than proposed. Hence, Violation issued in this regard.	

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	368000 tonnes proposed in FY 2020-21	367964.73 tonnes Achieved in FY 2020-21	As per Annual Return submitted for FY 2020-21
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	NIL	NIL	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NA	
3k	Provision of mining machineries in mineral benches	Not proposed	Nil	

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	
3m	Total area covered under excavation/pits	30.6 Ha. Area put to use proposed at the end of approved Mining Plan Period.	30.7 Ha.,As per Annual Return submitted for FY 2020-21	
3n	Ore to OB ratio for the pit/mine during the year.	1:4.2	1:3.25	te : te
3o	Total area put in use under different heads at the end of year	Excavation=30.6 Ha, waste disposal=29.42 52 Ha, Infrastructure & roads=6.4223 Ha, others=6.8727 ha.; Area put to use proposed at the end of approved Mining Plan Period.	Excavation=30.7Ha, waste disposal=28.7087 Ha, Infrastructure & roads=6.1083 ha, others=6.8577 Ha.; Given As per Annual Return submitted for FY 2020-21	Area put to use has been reviewed and updated in in Review and upadation of Mining Plan (RMP) approved on dt. 10.03.2021.
3p	Production of ROM mineral during the last five year period as applicable	2016-17=3,68,000 tonnes 2017-18= 3,68,000 tonnes 2018-19 = 3,68,000 tonnes 2019-20 = 3,68,000 tonnes 2020-21 = 3,68,000 tonnes	2016-17 =3,67,530.03 tonnes 2017-18 = 3, 67,845.76 tonnes 2018-19 = 3,67,962.63 tonnes 2019-20 =3,67,699.59 tonnes 2020 -21 = 3,67,964.73 tonnes	Production figure of ROM mineral during last five-year period is given as reported in Annual Returns & approved Mining Plans

3q	General remarks of inspecting officers on method of mining etc.	Mechanized open cast mining method being followed with Excavator & dumper combination. To avoid local failure and wash-off of pit benches due to rain water during monsoon, gobian walls have been proposed to be made/constructed at bottom four benches during the year 2021-22. However, gobian walls have not been observed made/constructed at bottom four benches, though monsoon has already been arrived. Hence, Violation issued in this regard.
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## Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Within lease	Within lease	
4c	Number of dumps within lease area and outside of lease area	Within Lease = 5	Within Lease = 5	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None	None	
4e	Number of active and alive dumps.	3(WML)	3(WML)	
4f	Number of dead dumps.	2(WML)	2(WML)	
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	700 mts.	873 mts.
4k	Specific comments of inspecting officer on waste dump management		Waste dumping has been carried out as approved in Mining Plan

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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.	NIL	NIL	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mineral has not been exhausted completely from any part of the lease area, hence backfilling/ reclamation of mined out area has not envisaged in approved Mining Plan.

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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).		Yes	

6b	Area available for rehabilitation (ha) .	Not proposed	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not proposed	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	(2020-21) 10000 Nos.	14386 Nos.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	(2020-21)= 5.54 Ha	5.75 Ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular Environment Monitoring Proposed	Regular Environment Monitoring being carried out in periodic basis.



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Rehabilitation of waste dumps through Plantation has been carried out
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	Grade wise sorting within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	yes	yes	
7d	Any beneficiation process at mines	Only Dry Screening	Only Dry Screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Dry Screening being carried out for Grade wise sorting of ore	

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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	Nil	Nil	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	waste Dump rehabilitation proposed by plantation	About 96932 nos. of plantation reported carried out over the waste Dumps.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		As reported Plantation carried out in year 2020-21 - 14386; Cumulative -96932 Plants
8g	Survival rate		70%
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on haul roads being carried out by two water tankers and by Navis Mist Spray and Sprinklers along the Main transport road
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Water tankers & Mist spray are deployed/installed for dust suppression. Aesthetic beauty in and around mines is good.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to = June 2021 AR Submitted for FY 2020-21	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Purushothaman R Geologist: Mr. Riyazahmed Barudwale Manager: Mr. P. Sreenivasa Rao	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under O/C: 30.776 Ha, Waste disposal: 28.708 Ha' Buildings, roads: 6.108 Ha, Etc.	Covered under O/C: 30.776 Ha, Waste disposal: 28.708 Ha' Buildings, roads: 6.108 Ha, Etc.	As per Annual Return submitted for FY 2020-21
9d	Scrutiny of Annual return on afforestation	14386 plants	14386 plants	As per Annual Return submitted for FY 2020-21
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	Closing Stocks : ROM: 29007.040 tonnes	Closing Stocks : ROM: 29007.040 tonnes	As per Annual Return submitted for FY 2020-21
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price (in ? Per Tonne) : Lumps 55% to below 58%- 2646.32 Lumps 58% to below 60%- 2443.91 Fines 55% to below 58%- 2576.12 Fines 58% to below 60%- 2188.49 Cost of Production = 1060.91 Rupees	From reported Ex-mine price, it is evident that Ex-mine price of higher grade of iron ore, has been reported lesser than the lower grade of iron ore. However, for higher grade of ore, Ex-mine price should have been more.	Violation is issued in this regard.

9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets = 48347847 Rupees	Value of Fixed Assets = 48347847 Rupees	As per Annual Return submitted for FY 2020-21
9k	Scrutiny of Annual return on mining machineries	Type of machine No. of units Ripper Dozer 1 Dozer 2 Back Hoe 5 Wheel Loader 4 Water tankers 2 Tipper 50 Dumper 10 Pumps - Electrical 1 Pumps - Non Electrical 1 Etc.	HEMMs detail as furnished are deployed	

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**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
MCDR17	Rule 11(1)	23-JUL-21			
MCDR17	Rule 45(7)(a)	23-JUL-21			

**Date :**

**(PREM PRAKASH)**

Indian Bureau of Mines