

**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 : **P02**) **PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : S/SHRI. P. Sreenivasarao (Manager), Riyazahmed Barudw
Official with
Designation
- (iv) Date of Inspection : 23-AUG-22
- (v) Prev.inspection date : 13-JUL-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **REDI BLOCK I 94.70.60HECT**
- (b) **Registration NO.** : **IBM/585/2011**
- (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 : gogte.minerals@gmail.com
- Phone : 0831-2407756
- (f) Police Station : Redi
- (g) First opening date : 01-JAN-58
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE - REDI,
correspondance : 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 : SHRI. V.NARAYAN PRASAD
REDI IRON ORE MINES,
SINDHUDURG MAHARASHTRA
Phone:
FAX :

Mining Engineer

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

Geologist

Name : Riyazahmed Barudwale,Full Time
Qualification : MSc. Geologogy
Appointment/ : 25-FEB-19
Termination date

Manager

Name : P Sreenivasha Rao
Qualification : BE-Mining
Appointment/ : 21-DEC-18
Termination date

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|---|---|--------------------------------|-----------|
| 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 |
| | | MP modif under 17(3) MCR 2016 | 23-MAR-22 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---------------------|----------------------------|--|
| 1a | Backlog of previous year | Nil | Nil | - |
| 1b | Exploration over lease area for geological axis 1 or 2 | 06 No. of Boreholes | 06 No. of Boreholes(416m) | - |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | - | In house Rs. 5.7 lakh | - |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | - | About 1.0 (Ha) | Balance About 58.5 Ha. ML area reported as Non-Mineralized |
| 1e | Balance reserve as on 01/04/20 | - | (111)= 4.85 million tonnes | As per Annual Return submitted for FY 2021-22 |
| 1f | General remarks of inspecting officers on geology, exploration etc | - | - | Exploration has been carried out as per proposal |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--------------------------------|---|--|
| 2a | Location of development w.r.t.lease area | N 200 to N 877 & E 22 to E 550 | N200 to N 610 & E 22 to E 431 | - |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Yes | Yes | - |
| 2c | Stripping ratio or ore to OB ratio | 1:3.5 | 1:4.15 (including backlog of previous year) | As reported, Backlog waste (OB) of Previous Financial year 2020-21 covered/removed in the Financial year 2021-22 |
| 2d | Quantity of topsoil generation in m3 | Nil | Nil | - |

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|----|---|----------------|----------------|--|
| 2e | Quantity of overburden generation in m3 | 1312636 tonnes | 1527411 tonnes | As per Annual Return submitted for FY 2021-22 |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | - | - | Development works was lagging behind as less waste/OB removal was carried out in the year 2020-21 than proposed, Hence, the same has been reported covered in the Financial year 2021-22 |

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. | 367954.91 tonnes. | - |
| 3c | Recovery of sailable/usable mineral from ROM production | 100 % | 100 % | - |
| 3d | Quantity of mineral reject generation | NIL | NIL | - |
| 3e | Grade of mineral rejects generation and threshold value declared. | - | - | - |
| 3f | Quantity of sub grade mineral generation. | NIL | NIL | - |
| 3g | Grade of sub grade mineral generation | - | - | - |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised | Mechanised | - |

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|----|--|--|--|--|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | - | - | - |
| 3j | Provision of drilling and blasting in mineral benches | Not proposed | NA | - |
| 3k | Provision of mining machineries in mineral benches | YES | YES | - |
| 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 | 31.0412 Ha. | 31.0412 Ha. | - |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:3.5 | 1:4.15 (including backlog of previous year) | Te:Te |
| 3o | Total area put in use under different heads at the end of year | Excavation=31.0412 Ha, waste disposal=30.408 Ha, Infrastructure & roads=5.101 Ha, Others=6.524 ha. | Excavation=30.0412 Ha, waste disposal=30.408 Ha, Infrastructure & roads=5.101 ha, others=6.524 Ha. | As per Annual Return submitted for FY 2021-22 |
| 3p | Production of ROM mineral during the last five year period as applicable | 2017-18= 3,68,000 tonnes 2018-19 = 3,68,000 tonnes 2019-20 = 3,68,000 tonnes 2020-21 = 3,68,000 tonnes 2021-22 = 3,68,000 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 2021-22=3,67,954.91 tonnes | Production figure of ROM mineral during last five-year period is given as reported in Annual Returns & approved Mining Plans |

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| 3q | General remarks of inspecting officers on method of mining etc. | - | - | Mechanized open cast mining method being followed with Excavator & dumper combination |
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Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | 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 = 6 Out side Lease = 0 | Lease area = 6 Out Side Lease =0 | - |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | None | None | - |
| 4e | Number of active and alive dumps. | 5 (WML) | 5 (WML) | - |
| 4f | Number of dead dumps. | 01 | 01 | - |
| 4g | Number of dumps established. | - | 06 | Old Dumps |
| 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 | 350 mts. | 350 mts. | - |
| 4j | Number of settling ponds | NIL | 8 nos. | - |
| 4k | Specific comments of inspecting officer on waste dump management | - | - | Waste dumping has been carried out as approved in Mining Plan |

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. | NA | NA | - |
| 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. |

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 | Not Applicable | - |
| 6c | afforestation done (ha). | Not proposed | Not Applicable | - |
| 6d | No. of saplings planted during the year | Not proposed | Not Applicable | - |
| 6e | Cumulative no .of plants | Not proposed | Not Applicable | - |

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|----|--|--------------|----------------|---|
| 6f | Any other method of rehabilitation | Not proposed | Not Applicable | - |
| 6g | Cost incurred on watch and care during the year | Not proposed | Not Applicable | - |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | Not proposed | Not Applicable | - |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | Not proposed | Not Applicable | - |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area | Not proposed | Not Applicable | - |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | Not proposed | Not Applicable | - |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | Not proposed | Not Applicable | - |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | 14000 | 26460 | (2021-22) Plantation of 14,160 nos. carried out in 5.6 Ha as proposed in Mining Plan. Additional 12300 saplings were reported planted in gap filling Total plantation reported done as 26460 nos. |

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| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | 5.60 Ha | 5.60 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. |

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 | - |
| 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 | Dry Crushing/ Screening | Dry Crushing/ Screening | - |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | - | - | Dry Crushing/Screening being carried out for Grade wise sorting of ore |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Not proposed | Not Applicable | - |
| 8b | Concurrent use or storage of topsoil | Not proposed | Not Applicable | - |
| 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 111092 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 FY 2021-22 = 26460 plants Cumulative = 111092 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 | - |

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| 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 = July 2022 AR Submitted for FY 2021-22 | - |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer - Mr. Digvijay Pednekar 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: 31.041 Ha Reclamation/Rehabilitated: - 0 Waste disposal: 30.408 Ha Buildings, roads: 5.101 Ha Others (Mineral storage, Env. Works): 6.524 Ha | Covered under O/C: 31.041 Ha Reclamation/Rehabilitated: - 0 Waste disposal: 30.408 Ha Buildings, roads: 5.101 Ha Others (Mineral storage, Env. Works): 6.524 Ha | As per Annual Return submitted for FY 2021-22 |
| 9d | Scrutiny of Annual return on afforestation | 26460 plants | 26460 plants | As per Annual Return submitted for FY 2021-22 |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | NIL | - | - |

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| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM: 27216.83 Tonnes Below 55% Lumps: 3483.29 Tonnes 55-58% Lumps: 10552.21 Tonnes 58-60% Lumps: 139.74 Tonnes 55-58% Fines: 1808.47 Tonnes 58-60% Fines: 2142.14 Tonnes | ROM: 27216.83 Tonnes Below 55% Lumps: 3483.29 Tonnes 55-58% Lumps: 10552.21 Tonnes 58-60% Lumps: 139.74 Tonnes 55-58% Fines: 1808.47 Tonnes 58-60% Fines: 2142.14 Tonnes | As per Annual Return submitted for FY 2021-22 |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Grade % Fe Lumps Ex-Mine Price (Rs.) 55-58% 1904.09 58%-60% 2899.98 Grade % Fe Fines Ex-Mine Price (Rs.) Below 55-58% 1597.52 58%-60% 3042.31 Cost of Production = 1495.90 Rupees | Grade % Fe Lumps Ex-Mine Price (Rs.) 55-58% 1904.09 58%-60% 2899.98 Grade % Fe Fines Ex-Mine Price (Rs.) Below 55-58% 1597.52 58%-60% 3042.31 Cost of Production = 1495.90 Rupees | As per Annual Return submitted for FY 2021-22 |
| 9h | Scrutiny of Annual return on fixed assets | Value of Fixed Assets = 49649637 Rupees | Value of Fixed Assets = 49649637 Rupees | As per Annual Return submitted for FY 2021-22 |

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|----|--|---|---|---|
| 9k | Scrutiny of Annual return on mining machineries | Sr.No. HP/Cu.Mtr Type of Machine 1 410 HP Dozer 2 183 HP Dozer 3 2.450 CuM Back Hoe 4 1.500 CuM Back Hoe 5 2.800 CuM Wheelloader 6 8.000 CuM Tipper 7 35.00 Tonne Dumper 8 25.00 CuM Dumper 9 9000.00 Litres Water Tanker 10 400.000 Others 11 1.700 CuM Wheelloader 12 5000 LMN Pumps (NonElect) 13 8333 LMN Pumps (Electrical) | 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 |

Date :**(PREM PRAKASH)**

Indian Bureau of Mines