

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

Mining Plan Modification REPORT

Goa regional office

Mine file No : MAH/KLP/Bx-9/GOA

Mine code : 07MSH13008

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SHRI. V.P.NAVARE, TQP**
Official with
Designation
- (iv) Date of Inspection : 02/11/2018
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GIRGAON**
- (b) **Registration NO.** : **IBM/778/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : MAHARASHTRA
- District : KOLHAPUR
- Village : GIRGAON
- Taluka : SHAHAWADI
- Post office : YELWANJUGAI
- Pin Code : 415101
- FAX No. : 0831-2429968
- E-mail : pkulkarni2007@yahoo.co.in
- Phone : 0831-2427187, 9880025007
- (f) Police Station : SHAUWADI
- (g) First opening date : 20/12/2002
- (h) Weekly day of rest : SUN
2. Address for : Bharatesh Construction Company
correspondance : 34/35, Corporation Complex,
Goa-Ves, Hindwadi, Belgaum-590011
3. (a) Lease Number : MSH0243
- (b) Lease area : 71.42
- (c) Period of lease : 30
- (d) Date of Expiry : 04/02/3032
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : BHARTESH CONSTRUCTION COMPANY
 Shop No-34, Corp. Complex
 Goaves, Hindwadi, BELGAUM
 KARNATAKA
 Phone:0831-2427187
 FAX :0831-2429968

Owner : SURENDRA T KODACHWAD
 SHOP NO-34/35, CORPORATION
 COMPLEX GOA-VES, HINDWADI
 BELGAUM KARNATAKA
 Phone: 0831-2427187
 FAX : 0831-2429968

Agent : KRISHNA SHATTUPPA PATIL
 SANDEEP NIWAS,H.NO. 785 5TH
 MAIN, 1ST CROSS,GANESH RD.
 VAIBHAV NAGAR,BELGAUM
 BELGAUM KARNATAKA
 Phone: 0831 - 2471597 ,2427187
 FAX : 0831 - 2429968

Manager

Name : Rajeev Kumar
 Qualification : BE Mining
 Appointment/ : 17/11/2014
 Termination date

Manager

Name : Shri Amrit Sable
 Qualification : Diploma in Mining & mine Survrying & I s
 Appointment/ : 11/04/2013
 Termination date

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|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 07/12/2000 |
| Plan/Scheme of Mining | | Modif.of approved Mining Plan | 17/10/2002 |
| | | Mining Scheme rule 12 MCDR1988 | 16/09/2005 |
| | | Mining Scheme rule 12 MCDR1988 | 28/03/2012 |
| | | Modif.approved Mining Scheme | 23/01/2015 |
| | | Mining Scheme rule 12 MCDR1988 | 20/04/2015 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|------------------------------------|--|---|
| 1a | Backlog of previous year | 20 trial pits proposed for 2015-16 | 20 trial pits | Float working area |
| 1b | Exploration over lease area for geological axis 1 or 2 | Nil | around 20Ha | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | -- | In house pitting | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | nil | nil | |
| 1e | Balance reserve as on 01/04/20 | | 946980 tons (as on 1.4..2018 UNFC (111)) | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | Exploration was only proposed in 2015-16 by pitting; mostly float ore type deposit. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--|---|---|
| 2a | Location of development w.r.t.lease area | Float working/excavation proposed at various location within lease area and marked over Development plan | Float ore working/excavation and reclamation for the year 2016-17 and 2017-18 approved between coordinates N 1862800 - N1863400 and E379500 - E379900 and also in 2017-18 approved between co-ordinates N 1863600 - N1863800 and E379900 - E38100 have not been carried out | Modification of the SOM submitted for rectification of deviation. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Yes | Yes | |
| 2c | Stripping ratio or ore to OB ratio | 00 | 00 | float Ore working |

| | | | | |
|----|---|-------------|------------|---|
| 2d | Quantity of topsoil generation in m3 | 200000 (m3) | 55000(m3), | Reported used for rehabilitation of reclaimed area |
| 2e | Quantity of overburden generation in m3 | nil | nil | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | Lessee has submitted Modification to the approved SOM for rectification of deviation. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|------------------------------------|--|---------------------------|
| 3a | Number of pit proposed for production | Float working | Float working | |
| 3b | Quantity of ROM mineral production proposed | 1,50,000 m3 (3,00,000 te@2 t/m3 | 95,525 te | Achieved quantity is less |
| 3c | Recovery of sailable/usable mineral from ROM production | 75% | 70% | In float Ore as reported. |
| 3d | Quantity of mineral reject generation | 25,000 | Nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Below 28%Al2O3 | 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 | Mechanised | Dry screening and crushing in mobile unit. | |

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|----|--|---|--|---|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | | nil | |
| 3j | Provision of drilling and blasting in mineral benches | Nil | Nil | |
| 3k | Provision of mining machineries in mineral benches | Excavator & Haul trucks. | Excavator & Haul trucks. | |
| 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 | About 12 Ha covered in 2017-18 | about 5 Ha. covered in 2017-18 | |
| 3n | Ore to OB ratio for the pit/mine during the year. | 00 | 00 | Float Mining |
| 3o | Total area put in use under different heads at the end of year | | Already exploited & abandoned by opencast(O/C) mining-57 Ha Covered under current Mining-5.0Ha Reclaimed/ Rehabilitated-23 Ha Waste disposal- 3.5 ha | Data as per the annual returns 2017-18. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2013-14- 3,00,000Te 2014-15- 3,00,000Te 2015-16 - 3,00,000Te 2016-17 - 3,00,000Te 2017-18 - 3,00,000 Te | 2013-14- 2,88,190Te 2014-15- 2,85,500Te 2015-16 - 2,76,605Te 2016-17 - 2,39,375Te 2017-18 - 95,525 Te | |
| 3q | General remarks of inspecting officers on method of mining etc. | | | Mostly float ore working carried out. |

| 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 | | NA | Topsoil being used for rehabilitation of worked out area and Plantation |
| 4c | Number of dumps within lease area and outside of lease area | one within | one within | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | | | Some old dumps are there near to pit |
| 4e | Number of active and alive dumps. | Nil | Nil | Some old dumps are there near to pit |
| 4f | Number of dead dumps. | nil | nil | Some old dumps are there near to pit |
| 4g | Number of dumps established. | Nil | Nil | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Nil | Nil | |
| 4j | Number of settling ponds | | | 01 Existing |
| 4k | Specific comments of inspecting officer on waste dump management | | | No surface dumping being carried out. Topsoil being used for rehabilitation of worked out area and Plantation. |

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 | Being carried out after Full extraction. | |
| 5b | Area under backfilling of mined out area | | About 5 ha | |

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|----|---|-----|---|---|
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Yes | Topsoil being used for reclamation / plantation purpose. | |
| 5d | Total area fully reclaimed and rehabilitated | -- | About 18 ha. area Fully reclaimed by back-filling & plantation. | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Back filling being done after extraction of mineral |

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 for the FY 2017-18. | |
| 6b | Area available for rehabilitation (ha) . | 12 HA | 5 Ha | |
| 6c | afforestation done (ha). | 2000 nos. | 5480 nos. | |
| 6d | No. of saplings planted during the year | 2000nos. | 5480 nos | |
| 6e | Cumulative no .of plants | | About 23,350 nos. | |
| 6g | Cost incurred on watch and care during the year | -- | Rs. 1,50000 per annum | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | -- | 415X120X2 (Approx) | |

| | | | | |
|----|---|------|---|---|
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | 12ha | 5.0Ha | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | | monitoring of ambient air & water quality and noise level carried out and report shown. | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | Backfilling and rehabilitation work after exhaustion of mineral is being in partcticed. |

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. | -- | <40% Al2O3, 40 - 45% Al2O3, 45 - 50% Al2O3, | |
| 7d | Any beneficiation process at mines | No | No | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | Only dry processing of mineral i.e. Crushing & Screening being carried out. |

Environment:

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

| | | | | |
|----|---|-----------------------------|--|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | yes | yes | Topsoil/sub soil is being utilized for backfilling /plantation) |
| 8b | Concurrent use or storage of topsoil | yes | Concurrently used | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | -- | No OB was generated, ore stacked separately | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | | yes | Lateritic soil /subsoil is used for land restoration in the mined out area. |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | back filling and plantation | Being done by back filling and plantation | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 2000nos. | 5480 nos. of planation reported carried out this year | |
| 8g | Survival rate | | 70-75 % | |
| 8h | Water sprinkling on roads to control airborne dust | yes | 03 Number of water tankers are used for dust suppression on roads. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | satisfactory |

Compliance of Rule 45:

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

| | | |
|----|---|---|
| 9a | Status of submission of Monthly and Annual returns | Submitted AR 2017-18 and Monthly returns |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Furnished |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | furnished |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | available graded ore stock. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Cost of production- 632.94Rs/T |
| 9h | Scrutiny of Annual return on fixed assets | furnished |
| 9k | Scrutiny of Annual return on mining machineries | Shovel - 08 nos Hydraulic Wheel loader and tipper, water tanker etc. |

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) | 12/11/2018 | | | |
| MCDR17 | Rule 45(7)(a) | 12/11/2018 | | | |

Date :

(SURESH PRASAD)

Indian Bureau of Mines