

**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 : VT01) VIDYADHAR V.TARI
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : S/SHRI. SACHIN PATIL, LESSEE'S REP. G.R.NAGARAJ, MM &
Official with
Designation
- (iv) Date of Inspection : 10-MAY-22
- (v) Prev.inspection date : 02-NOV-18

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-DEC-02
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : Bharatesh Construction Company
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-FEB-32
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 : SHRI PRAKASH KULKARNI,
 Shop No 34-35, Corporation
 Complex, GoaVes, Hindawadi,
 Belgaum 590001. BELGAUM
 KARNATAKA
 Phone: 0831-2427187
 FAX : 0831-2429968

Geologist

Name : GIRISH A.PATIL,Full Time
 Qualification : MSc. GEOLOGY
 Appointment/ : 01-SEP-13
 Termination date

Manager

Name : G.R.NAGARAJA
 Qualification : AMIE (MINING)
 Appointment/ : 13-JUN-18
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	07-DEC-00
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	17-OCT-02
	:	Mining Scheme rule 12 MCDR1988	16-SEP-05
	:	Mining Scheme rule 12 MCDR1988	28-MAR-12
	:	Modif.approved Mining Scheme	23-JAN-15
	:	Mining Scheme rule 12 MCDR1988	20-APR-15
	:	Modif.approved Mining Scheme	06-DEC-18
	:	MP review under 17(1) MCR 2016	07-FEB-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Lessee has so far carried our exploration in the form of 43 trial pits covering entire area during 2018-19 to 2019-20.
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Nil	The area is covered under G1 level of exploration
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	-
1e	Balance reserve as on 01/04/20	-	498055 Tons	As per Annual Return submitted for the FY 2021-22
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Exploration work is carried out earlier in the form of trial pits. Balance reserves are within the mining lease area and in the form of float ore.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During FY 2021-22 Float Ore working proposed between co-ordinates N1864348-1863277 & E379316-380165	Float ore working is being carried out	-

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Mixed Benches, Float workings only	Mixed Benches, Float workings only	Mixed Benches in OB/ Soil and in Float workings
2c	Stripping ratio or ore to OB ratio	1: 0.75	1:0.69	Tons/m3
2d	Quantity of topsoil generation in m3	Nil	Nil	No top soil is encountered
2e	Quantity of overburden generation in m3	180000 m3	115431 m3 ; (173147 te @ 1.5 t/m3	Used for Back filling of Float area
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Deposit is only float ore. Working is being carried out to win float ore.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	During FY 2021-22 Float Ore working proposed between co-ordinates N1864348-1863277 & E379316-380165	Float ore working is being carried out	-
3b	Quantity of ROM mineral production proposed	240000 tons	167900 tons	Production quantity achieved was less due to Corona COVID Pandemic situation as reported during inspection
3c	Recovery of sailable/usable mineral from ROM production	40% in Float ore	55-60% in Float ore	-
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	Nil	Nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	-
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	Mobile Screen & Crushing Unit. Excavator with Haul Trucks	Mobile Screen & Crushing Unit, Excavator with Haul Trucks	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2.5 m bench height	Bench height of about 2.5m are being maintained in Float workings	-
3m	Total area covered under excavation/pits	15 ha	Covered under current O/C Working = 3.642 ha.	As per Annual Return submitted for the FY 2021-22
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.75	1:0.69	Tons/m3
3o	Total area put in use under different heads at the end of year	Around 86 Ha. upto end of plan period i.e. FY 2024-25.	Already exploited and abandoned by O/C= 71.437 ha. Covered under current O/C Working = 3.642 ha. Reclaimed = 21.00 ha. Other purpose (waste dump) = 0.255 ha.	As per Annual Return submitted for the FY 2021-22

3p	Production of ROM mineral during the last five year period as applicable	2017-18: 300000 2018-19:156000 2019-20: 240000 2020-21: 240000 2021-22: 240000 (In tonnes)	2017-18: 95525 2018-19: 150750 2019-20: 238070 2020-21: 161600 2021-22:167900 (In 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.	-	-	Opencast float working is being carried out by using shovel-dumper combination.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB/waste (Temporary) is proposed	Encountered intercalations/waste, screened waste fines, used for backfilling mined out area. Topsoil & Mineral reject were not generated.	-
4b	Location of topsoil, OB and mineral reject dumps	OB/waste is proposed for backfilling	Encountered intercalations/waste, screened waste fines, used for backfilling mined out area	-
4c	Number of dumps within lease area and outside of lease area	Within lease area = 01 Outside lease area = Nil	Within lease area = 01 Outside lease area = Nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil. OB/waste to be used for backfilling	OB/waste is used for backfilling	-
4e	Number of active and alive dumps.	Nil	Nil	-
4f	Number of dead dumps.	01	01	-
4g	Number of dumps established.	01	01	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	-	-

4i	Length of Retaining wall or garland drain all along dumps	-	-	-
4j	Number of settling ponds	01	05	-
4k	Specific comments of inspecting officer on waste dump management	-	-	The overburden/ waste generated is being utilized for backfilling of mined out area

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.	Back filling is proposed only after complete extraction of ore & demineralization.	Back filling is done only after complete extraction of ore & demineralization.	-
5b	Area under backfilling of mined out area	5.38 Ha.	2.66 Ha.	As reported during the inspection, area backfilled is less due to less generation of intercalation / fines and covid 19.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Generation and utilization of topsoil is not proposed	Nil	No topsoil is available during 2021-22
5d	Total area fully reclaimed and rehabilitated	-	11.80 As per submitted Annual report on PMCP for FY 2021-22	Cumulative area of 21.00 Ha. As per Annual Return submitted for the FY 2021-22
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Overburden / waste is being used for restoration & rehabilitation of mined out area. Backfilling is being carried out after full extraction of ore & demineralization.

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) .	5.38 Ha.	2.66 Ha.	As per submitted Annual report on PMCP for FY 2021-22
6c	afforestation done (ha).	5.38 Ha.	1.60 Ha.	As per submitted Annual report on PMCP for FY 2021-22
6d	No. of saplings planted during the year	4500 Saplings	4000 Saplings with 75% survival rate	As per Annual Return submitted for the FY 2021-22
6e	Cumulative no .of plants	-	45930 nos. of saplings	-
6f	Any other method of rehabilitation	-	Organic manure i.e. Cow dung, Goat droppings etc. is reported to be collected and used during plantation	-
6g	Cost incurred on watch and care during the year	-	-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	5.38 Ha.	2.66 Ha.	As reported during the inspection, area backfilled is less due to less generation of intercalation / fines and covid 19.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	-	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	4500 Saplings	4000 Saplings with 75% survival rate	As per Annual Return submitted for the FY 2021-22

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	-	-	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	-	-	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	-	-	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	-	-	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-	-	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Environmental Monitoring is being done periodically and the parameters are within permissible limit	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Overburden / waste is being used for restoration & rehabilitation of mined out area. During FY 2021-22, 173147 tons of overburden / waste is reported used for backfilling of mined out and demineralized area / voids.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	Dry Crushing & Screening with Mobile Screening Plant	-
7c	Different grade of mineral sorted out at mines.	Yes	Yes	-
7d	Any beneficiation process at mines	Only Dry Crushing & Screening	Only Dry Crushing & Screening of Float ore is being carried out.	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Mineral processing is being carried out by only Dry Crushing & Screening 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	Nil	-
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	-
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	Proposed for backfilling	OB/Intercalated Screened waste fines generated is used for Back filling / covering voids	-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed by backfilling and plantation	Phased restoration, reclamation and rehabilitation of affected land after Float Ore Mining is being carried out by backfilling and plantation	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	Lessee has carried out cumulative plantation of 45930 sapplings upto 31.03.2022.	As per submitted Annual report on PMCP for FY 2021-22 lessee has carried out plantation of 4000 sapplings covering area of 1.60 Ha. on backfilled / reclaimed area.
8g	Survival rate	-	75%	As per Annual Return submitted for the FY 2021-22
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on mine roads by using water tankers is being carried out	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	-	Water tankers/sprinklers are deployed for dust suppression. Aesthetic beauty in and around mines observed to be good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	-	Monthly Return Submitted up to April 2022, Annual Return Submitted for FY 2020-2021	Lessee has submitted Annual Return for FY 2021-22 online on 14.06.2022
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	G.R.Nagaraja - Manager / Mining Engineer in charge. Girish Patil - Geologist	G.R.Nagaraja - Manager / Mining Engineer in charge. Girish Patil - Geologist	As per Annual Return submitted for FY 2021-22

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area already exploited & abandoned= 71.437 Ha. Covered under O/C Working = 3.642 Ha. Reclaimed / Rehabilitated = 21.00 Ha. Other purpose (Waste Dump) = 0.255 Ha.	Area already exploited & abandoned= 71.437 Ha. Covered under O/C Working = 3.642 Ha. Reclaimed / Rehabilitated = 21.00 Ha. Other purpose (Waste Dump) = 0.255 Ha.	As per Annual Return submitted for FY 2021-22
9d	Scrutiny of Annual return on afforestation	4000 Nos. (WML = 4000 Nos.) with 75% survival rate	4000 Nos. (WML = 4000 Nos.) with 75% survival rate	As per Annual Return submitted for FY 2021-22
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	ROM Closing Stock - Nil, Processed Ore Closing Stock: Al2O3 40-45% - 8702.585 T Al2O3 45-50% - 5762.105 T	ROM Closing Stock - Nil, Processed Ore Closing Stock: Al2O3 40-45%-8702.585 T Al2O3 45-50%- 5762.105 T	As per Annual Return submitted for FY 2021-22
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price- Al2O3 40-45% - Rs.675.19 Al2O3 45-50% - Rs.855.43 Sale Value- Al2O3 40-45% - Rs.142623314 Qty- 211235.330 Al2O3 45-50% - Rs.17615263 Qty- 20592.390 Cost of Production- Rs.609.95	Ex Mine Price- Al2O3 40-45% - Rs.675.19 Al2O3 45-50% - Rs.855.43 Sale Value- Al2O3 40-45% - Rs.142623314 Qty- 211235.330 Al2O3 45-50% - Rs.17615263 Qty- 20592.390 Cost of Production- Rs.609.95	As per Annual Return submitted for FY 2021-22
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs. 504036.00	Value of Fixed Assets - Rs. 504036.00	As per Annual Return submitted for FY 2021-22

9k	Scrutiny of Annual return on mining machineries	Crusher = 02 (120THP) Wheel Loaders = 02 (1.6 CUM) Hydraulic Shovel = 08 (0.9 CUM) Tippers = 10 (3.6 CUM) Water Tanker = 04 (8000 Lit.)	HEMMs detail as furnished are deployed	As per Annual Return submitted for FY 2021-22
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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 :

(VIDYADHAR V.TARI)

Indian Bureau of Mines