

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

MCDR inspection REPORT

Goa regional office

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

Mine code : 07MSH13008

- (i) Name of the Inspecting : P01) PREM PRAKASH
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. G.R.Nagaraja, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 21-MAY-19
- (v) Prev.inspection date : 06-MAY-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 : 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-NOV-14
 Termination date

Manager

Name : Shri Amrit Sable
 Qualification : Diploma in Mining & mine Survrying & I s
 Appointment/ : 11-APR-13
 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

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	21 TP proposed in grid of about 200 m x 200 m in year 2018-19	21 Trial Pits carried out in grid of about 200 m x 200 m	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Exploration by own arrangement; expenditure of Rs. 75,000/- reported	Expenditure in digging PTP
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	-	22 TP proposed in grid of about 200 m x 200 m for year 2019-20
1e	Balance reserve as on 01/04/20	Reserve (111) as on 1/11/2018 - 751840 te	Updated reserve (111) as on 01/04/2019 - 627090 te	
1f	General remarks of inspecting officers on geology, exploration etc		Exploration work has been carried out as envisaged in approved Modified Mining plan.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Float Area working as proposed in Development plan	Float Area working carried out as proposed in Development plan	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Mixed Benches, Float workings only	Mixed Benches, Float workings only	
2c	Stripping ratio or ore to OB ratio	1 : 0.59	1 : 0.54	Te : m3
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	93152 (m3)	82150 (m3) (TF 1.5 T/CUM)	Quantity given as reported during inspection; Annual return for 2018-19 has not been submitted till the date of inspection, Due dt. of submission up to 1st july 2019.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Float Area working /Development has been carried out as per approved Modified Mining plan.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Float workings proposed at earmarked places	Float workings carried out at earmarked places	
3b	Quantity of ROM mineral production proposed	156000 MT (78000 m3)	150750 MT (75375 m3)	Quantity given as reported in monthly returns of 2018-19
3d	Quantity of mineral reject generation	100%	100%	
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	Mechanised (Crushing/screeing)	Mechanised (Crushing/screening)	

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	No	No	
3k	Provision of mining machineries in mineral benches	Excavators with Haul Trucks	Excavators with Haul Trucks	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	yes, About 2.5m height of benches being maintained in Float Workings	
3m	Total area covered under excavation/pits	18 Ha. Additional area proposed for excavation/mining up to 2019-20	About 5.5 Ha utilized for excavation in the year 2018-19.	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.59	1 : 0.54	
3o	Total area put in use under different heads at the end of year	75.70 Ha. area proposed up to 2019-20.	About 62 Ha utilized Up to the year 2018-19.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 300000 2015-16 300000 2016-17 300000 2017-18 300000 2018-19 156000	2014-15 285500 2015-16 276605 2016-17 239375 2017-18 95525 2018-19 150750	Production Quantity given as reported in Annual Returns and for 2018-19 as reported in Monthly Returns for 2018-19
3q	General remarks of inspecting officers on method of mining etc.		Open cast float workings being carried out with 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 proposed	Separate Stacking/backfilling of O.B./waste carried out. Top soil & Mineral Rejects were not generated.	
4b	Location of topsoil, OB and mineral reject dumps	Generation of Topsoil and Mineral Rejects are not proposed. OB/waste proposed for backfilling	OB/waste used for backfilling.	
4c	Number of dumps within lease area and outside of lease area	Lease area = 02 Non Lease area = 0	Lease area = 02 Non Lease area = 0	Dead Old Dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	none	OB/waste used for backfilling.	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	02	02	
4g	Number of dumps established.	02	02	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall to be constructed at Toe of Dump	Retaining wall constructed at Toe of Dumps. However, it was observed that waste dumping/reclamation carried out during 2017-18 in Pit-2 was not terraced and stabilized by doing plantation and also not protected as envisaged in MMP. Violation issued for the same.	
4i	Length of Retaining wall or garland drain all along dumps	Nil	About 650 m Length of Retaining Garland Drain along the Dump & Float area constructed so far.	
4j	Number of settling ponds	Nil	2 Nos. existing	
4k	Specific comments of inspecting officer on waste dump management		OB/waste 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 done after Full extraction of Mineral	
5b	Area under backfilling of mined out area	6.32 HA	About 5.20HA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	-	-	About 4.1 Ha reported rehabilitated by plantation during the year.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Backfilling being carried out after full extraction of mineral. Overburden is being used for restoration or rehabilitation of mined out area	

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).	-	Not submitted till the date of inspection for year 2018-19, due date of submission is up to 1st july 2019.	
6b	Area available for rehabilitation (ha) .	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	6.3261(Float area) 0.2366(Plateau area)	5.2 HA area back-filled	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	5.2 ha.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	2000 nos. (F) 285 Nos. (P)	5920 nos
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	-	Coir Matting done in around 800 m2 area.
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
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring of Environmental Parameters Proposed	Quarterly monitoring being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Against approved total plantation of 7845 nos. of saplings over back-filled area in year 2018-19, 5920 saplings only reported planted. Violation issued for the same.

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; By Mobile Crushing & Screening plants	Mechanical; By Mobile Crushing & Screening plants	
7c	Different grade of mineral sorted out at mines.	yes	< 40 % Al2O3 40- 45 % Al2O3 45-50% Al2O3	
7d	Any beneficiation process at mines	None	None	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Grade wise sorting of mineral being carried out within the lease area by Mechanical dry processing through Mobile Crushing & Screening plants.	

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	OB/waste proposed for backfilling	OB/waste being used for backfilling	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed for reclamation by backfilling & plantation	Being Done by Back filling , Coir matting and Plantation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	in year 2018-19, 5920 saplings reported planted
8g	Survival rate	-	About 70 %
8h	Water sprinkling on roads to control airborne dust	yes	Yes, 3 Numbers of Water Tankers are used for dust suppression on roads.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines area observed to be good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = April 2019 AR Submitted up to = Fy 2017 - 2018	A.R. 2018 - 19 yet to be submitted till the date of inspection, due date of submission is up to 1st july 2019.	Scrutiny of Annual return submitted for year 2017-18 was already carried out during last inspection of mine on 02.11.2018.

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)	04-JUN-19				
MCDR17 Rule 45(7) (a)	04-JUN-19				

Date :

(PREM PRAKASH)

Indian Bureau of Mines