

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **SP01**) **SURESH PRASAD**
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 : 25-NOV-19
- (v) Prev.inspection date : 21-MAY-19

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 : 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-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	21TP in grid of about 200m x200m in the year 2018-19	21TP carried out in grid of about 200m x200m.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		By own arrangement and expenditure reported as 75,000/-	Expenditure in digging TP
1d	Balance area to be explored to bring Geological axis in 1 or 2			22TP proposed in grid of about 200m x200m. for the year 2019-20.
1e	Balance reserve as on 01/04/20	Reserve(111) as on 1/11/2018 751840te	Updated reserve (111)as on 1/4//2019 - 627090 te	Achieved as per AR 2018-19
1f	General remarks of inspecting officers on geology, exploration etc		Exploration work has been carried out as envisaged in approved MMP.	

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 working only.	Mixed benches, float working 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	82000m3(TF 1.5)	Achieved as per the AR 2018-19.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Working/ development of faces were carried out in float area as proposed in approved MMP.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Float working as proposed	Float working carried out in earmarked places	
3b	Quantity of ROM mineral production proposed	156000T	150750T	Figures as per the approved MMP & AR 2018-19.
3c	Recovery of sailable/usable mineral from ROM production	Recovery % : 100%	Recovery % : 100%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	NIL	NIL	This quantity is Included in ROM
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	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	Yes	Yes	Excavator with Haul truck
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	About 2m height of benches are maintained in Float working.
3m	Total area covered under excavation/pits	18Ha. Additional area proposed for excavation/mining upto 2019-20.	5.2 ha area utilized in the year 2018-19	Achieved as given in the AR 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. proposed up to FY 2019-20	72.9 Ha total area put to use till 2018-19.	Achieved figures as per AR 2018-19.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 300000 T 2015-16 - 300000 T 2016-17 - 300000 T 2017-18 - 300000 T 2018-19 - 156000 T	2014-15-285500 T 2015-16 -276605T 2016-17-239375 T 2017-18 -95525T 2018-19-150750 T	Figures are as per the approved MP & reported in the AR's.
3q	General remarks of inspecting officers on method of mining etc.		Working adopted, mechanized method with deployment of Shovel dumper combinations.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	YES No mineral reject proposed	YES. No mineral reject achieved.	Presently mining activities are mainly in float bearing area.

4b	Location of topsoil, OB and mineral reject dumps	No proposal for Top soil & MR, OB proposed for backfilling	OB are utilized for backfilling of mined out voids	There is no such dumps are made during the year, all the reject or waste (after recovering by screening) are being utilised for backfilling of mined out voids
4c	Number of dumps within lease area and outside of lease area	Lease area = 02 Non Lease area = NIL	Lease area = 02 Non Lease area = 0	Dead old dump
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	OB are utilised for backfilling	
4e	Number of active and alive dumps.	NIL	NIL	
4f	Number of dead dumps.	02	02	
4g	Number of dumps established.	NIL	NOT APPLICABLE	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes. along toe of the dump	maintained	
4i	Length of Retaining wall or garland drain all along dumps	NIL	About 650m length of garland drain along the along dump and float area constructed.	
4j	Number of settling ponds	NIL	NOT APPLICABLE	The run-off mine is channelised towards constructed settling tanks and silt check dams.
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
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Yes	Yes	The area is taken up for restoration only after fully extraction of minerals.
5b	Area under backfilling of mined out area	6.32 Ha	About 5.2 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	
5d	Total area fully reclaimed and rehabilitated		28.200Ha cumulative	As per the AR 2018-19
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Backfilling is being carried out after fully exhaustion of the minerals and for reclamation 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).	yes	Has been filed	For the year 2018-19
6b	Area available for rehabilitation (ha) .	11.68 Ha	5.8 Ha	Figures for the year 2019-20.
6c	afforestation done (ha).	11.68 Ha	7.4 Ha	Figures for the year 2019-20.
6e	Cumulative no .of plants		36730 No.s	
6f	Any other method of rehabilitation	Backfilling with subsequent plantation.	Backfilling with subsequent plantation.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	11.67ha	7.4 Ha	Figures for the year 2019-20.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	11.67ha	7.4 ha	Figures for the year 2019-20.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	11.67 ha	7.4 Ha	Figures for the year 2019-20.
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.		Re-Grassing 1.6 ha	Figures for the year 2019-20.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Compliance of Environmental monitoring.	The monitoring is carried out as per the schedule through MOEF approved third party and reports are maintained.	Complied
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Reclamation and Rehabilitation work were not achieved as per the proposal in approved MMP. Hence, Violation issued.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	+44% Al ₂ O ₃ & > 10% SiO ₂ +30% Al ₂ O ₃ & +10% SiO ₂	+44% Al ₂ O ₃ & > 10% SiO ₂ +30% Al ₂ O ₃ & +10% SiO ₂	ROM has been sorted by crushing / screening.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Bauxite & cement grade bauxite	Bauxite & cement grade bauxite	
7d	Any beneficiation process at mines .	Dry Screening	Dry Screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Mineral conservation and beneficiation process are observed to be satisfactory.	

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not achieved	Presently mining activities are mainly to float bearing area, where soil is leveled after exploitation of bauxite boulders simultaneously
8b	Concurrent use or storage of topsoil	No proposal	Not achieved	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil-	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of overburden, & waste for backfilling of mined out area.	All the OB , & waste are being utilised for backfilling of mined out voids and The backfilled areas are being scientifically vegetated through afforestation.	Complied
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation	Phased restoration, reclamation and rehabilitation	Complied
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The vegetation is generally limited to slopes that to strewed and stunted due to lack of plant nutrients in the soil	5920nos. for the year 2018-19.	As per AR 2018-19.
8g	Survival rate		About 70%	
8h	Water sprinkling on roads to control airborne dust	Dust suppression	Water tanker mounted trucks are being used for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Observed and found Satisfactory	

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = Oct 2019 AR Submitted up to = 2018-2019	MR Submitted up to = Oct 2019 AR Submitted up to = 2018-2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Manager - 1 Geologist - 1	Mining Engineer & Manager - 1 Geologist - 1	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered on O/C working :5.2 Ha Reclaimed & rehabilitated:28 .2 Ha Waste disposal:3.5 Ha Road plant etc: 2.0ha	Covered on O/C working :5.2 Ha Reclaimed & rehabilitated:28.2 Ha Waste disposal:3.5 Ha Road plant etc: 2.0ha	
9d	Scrutiny of Annual return on afforestation	5920 nos.	Not sufficient planation towards the R&R as observed in the field.	Violation issued
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Not Applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock - Nil Garde wise Closing stock Below 40%Al2O3 - nil 40-45 %Al2O3- 12146.46 T 45- 50 %Al2O3- 27354.495 T	ROM stock - Nil Garde wise Closing stock Below 40%Al2O3 - nil 40-45 %Al2O3- 12146.46 T 45- 50 %Al2O3- 27354.495 T	Observed during inspection.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	40-45 %Al2O3- 437 Rs/T 45- 50 %Al2O3- 991.0 Rs/T Cost of production - 684.73 Rs/T	Sample invioce checked	Found satisfactory.
9h	Scrutiny of Annual return on fixed assets	Value of fixed Asset in Rs 775141/-	Value of fixed Asset in Rs 775141/-	As per AR 2018-19
9k	Scrutiny of Annual return on mining machineries		Back hoe 8nos Crusher 2 no. Tipper10 nos. wheel loader 2 nos water tanker 4 nos.	

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)	09-DEC-19	06-FEB-20			

Date :

(SURESH PRASAD)

Indian Bureau of Mines