

**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 : 04-DEC-20
- (v) Prev.inspection date : 25-NOV-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
		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	No	No	
1b	Exploration over lease area for geological axis 1 or 2	22 Trial Pits proposed	22 Trial Pits carried out	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		75000/- reported by mine management	Expenditure incurred against digging PTP
1d	Balance area to be explored to bring Geological axis in 1 or 2	No	No	Area covered
1e	Balance reserve as on 01/04/20		Reserve under 111 category:- 777610 tones	As per the AR 2019-20
1f	General remarks of inspecting officers on geology, exploration etc		Reserve balance on float ore only. Trail pits as proposed are completed.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Float Area A1/A2/A4	Float Area A1/A2/A4	Float ore mining operations.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Float ore mining operations.	Float ore mining operations.	Mixed Benches in OB Soil in Float workings
2c	Stripping ratio or ore to OB ratio	1 : 0.71	1 : 0.68	Ore: OB::Te: m3
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	171970 (m3)	163660(m3) density 1.5 T/cum	Used for Back filling in Float area

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Entire mining operations are proposed/carried out in the float ore area.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Pits	2 Pits	Working in two locations.
3b	Quantity of ROM mineral production proposed	240000 Tonnes	238070 Tonnes	Float Ore mining
3c	Recovery of sailable/usable mineral from ROM production	68.5% in Float ore	70% in Float ore	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Below 30% Al2O3	Below 30% Al2O3	THV limit
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
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.	No proposal	nil	
3j	Provision of drilling and blasting in mineral benches	No proposal	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	Float ore Mining	Float ore Mining	Around 2.5 m.
3m	Total area covered under excavation/pits	11.67 HA	7.4 HA	Area covered under current opencast working
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.71	1 : 0.68	Ore : OB::Te: m3
3o	Total area put in use under different heads at the end of year		7.4 HA -Area covered under current opencast working	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 300000 2016-17 350000 2017-18 350000 2018-19 156000 2019-20 240000	Figures are in Tonnes 2015-16 276605 2016-17 239375 2017-18 95525 2018-19 150750 2019-20 238070	Figures are as per the Annual returns and approved Mining Plan.
3q	General remarks of inspecting officers on method of mining etc.		Mining operations are proposed in Float Ore. Observed float ore Mining followed by backfilling of mined out area.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	Over Burden used for Backfilling mined out area	

4b	Location of topsoil, OB and mineral reject dumps	Back Filled areas N1862940-1863040 E380620-380740 N1863200-1863280 E380160-380200 N1863200-1863280 E380160-380200 N1863540-1864560 E380320-380380	Back Filled areas N1862940-1863040 E380620-380740 N1863200-1863280 E380160-380200 N1863540-1864560 E380320-380380	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	02	02	Dead Old / inactive Dumps.
4g	Number of dumps established.	02	02	Dead Old / inactive Dumps.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall constructed at Toe of Dump	Retaining wall constructed at Toe of Dump	
4i	Length of Retaining wall or garland drain all along dumps	658m	658m	maintenance
4j	Number of settling ponds		12	
4k	Specific comments of inspecting officer on waste dump management		No any active dump formation are proposed/ achieved. Over Burden used for Backfilling 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 proposed after Full extraction of Mineral	Back filling is done only after Full extraction of Mineral	
5b	Area under backfilling of mined out area	11.67 HA	7.4 HA	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	Overburden is used for Stabilizing of Back filled areas and Plantation purpose
5d	Total area fully reclaimed and rehabilitated		34 HA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Back filling are proposed after Full extraction of Mineral and being carried out for reclamation.	

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	Yes. Submitted thro Mail dtd 25-05-2020
6c	afforestation done (ha).	11.6789 HA	5.8HA	
6d	No. of saplings planted during the year	14000Saplings	7460Saplings	As their still scope for mining Float ore in the proposed workings of the year 2019-20, So Reclamation & rehabilitation activity not carried out in total area.
6f	Any other method of rehabilitation	NIL	NIL	Back filling followed by plantation
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	11.6789 HA	5.8HA	As their still scope for mining Float ore in the proposed workings of the year 2019-20, So Reclamation & rehabilitation activity not carried out.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	11.6789 HA	5.8HA	As their still scope for mining Float ore in the proposed workings of the year 2019-20, So Reclamation & rehabilitation activity not carried out.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	11.6789 HA	5.8HA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Carried out Quarterly Monitoring	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Backfilling & planation of mined out area area carried out as per the proposal. However, due to better recovery of ore area R&R are observed as less for the year 2019-20.
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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	Dry Crushing & Screening with Mobile Screening Plant	
7c	Different grade of mineral sorted out at mines.		< 40 % Al2O3 40- 45 % Al2O3 45-50% Al2O3	
7d	Any beneficiation process at mines .	Dry Crushing & Screening with Mobile Screening Plant	Dry Crushing & Screening with Mobile Screening Plant	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Float ore mining for optimum recovery of ore are observed and processing of ore are through dry Crushing & Screening with Mobile Screening Plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Top Soil	No Top Soil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	Overburden are used for concurrent backffing the mined out area

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste/Rejected fines proposed for Land Restoration in the Mined out area	Rejected fines used for Land Restoration in the Mined out area	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Rejected fines used for Land Restoration in the Mined out area	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal for back filling and Plantation in the mined out area.	Being carried out by back filling and Plantation in the mined out area.	Restoration by Plantation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		7460 nos. of sapling planted in the year 2019-20	Information as per the AR 2019-20
8g	Survival rate		75%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water Sprinkling are observed to be carried out on haul roads with in mines, Transport Roads	Reported by using 3 nos. of water Tankers, also Green Mat provided to control air borne dust at villages
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Satisfactory developments on aesthetic beauty in and around mines area are observed.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to = Oct -2020 AR Submitted up to =FY 2019-20	

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	Appointed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	Covered on O/C working :7.4 Ha Reclaimed & rehabilitated:34.0 Ha Waste disposal:3.5 Ha Road plant etc: 2.0ha	
9d	Scrutiny of Annual return on afforestation		7460 nos. of sapling planted in the year 2019-20	
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 stock - Nil Garde wise Closing stock Below 40%Al2O3 - nil 40-45 %Al2O3- 50070.355 T, Below 40%Al2O3 - nil 40-45 %Al2O3- 50070.355 T, 45- 50 %Al2O3- 26354.495 T	ROM stock - Nil Garde wise Closing stock Below 40%Al2O3 - nil 40-45 %Al2O3- 50070.355 T, 45- 50 %Al2O3-26354.495 T	Observed during the inspection.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	40-45 %Al2O3- 667.90 Rs/T, 45- 50 %Al2O3- 920.00 Rs/T, Cost of production - 603.49 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 2019-20
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 35(2)	22-DEC-20			

Date :

(SURESH PRASAD)

Indian Bureau of Mines