

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

MCDR inspection REPORT

Goa regional office

Mine file No : MAH/KLP/BX-11/GOA

Mine code : 07MSH13013

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Pravin V. Likhari, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 26-NOV-19
- (v) Prev.inspection date : 20-MAY-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RINGEWADI (576.12)**
- (b) **Registration NO.** : **IBM/718/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **MAHARASHTRA**
- District : **KOLHAPUR**
- Village : **BRUMBAL**
- Taluka : **SHAHUWADI**
- Post office : **BRUMBAL**
- Pin Code : **415101**
- FAX No. : **0231-2662501**
- E-mail : **minerals_shivram@yahoo.com**
- Phone : **0231-2662501, 9423041249**
- (f) **Police Station** : **SHAHUWADI**
- (g) **First opening date** : **07-OCT-03**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **C/o Dongale and Sons, 1325/111 E Ward,
Shivaji Udyamnagar, Karveer
KOLHAPUR-416008**
3. (a) **Lease Number** : **MSH0302**
- (b) **Lease area** : **576.12**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **20-APR-53**
4. **Mineral worked** : **BAUXITE** **Main**

5. Name and Address of the

Lessee : SHIVRAM MINERALS
C/o Dongale and
Sons,1325/111E Ward Shivaji
Udyamnagar, Karveer
KOLHAPUR MAHARASHTRA
Phone:
FAX :

Owner : SANDEEP PANDURANG DONGALE
C/o Dongale and Sons,
1325/111 E Ward, Shivaji
Udyamnagar, Karveer
KOLHAPUR MAHARASHTRA
Phone: 0231-2662501, 9
FAX : 0231-2662501

Mining Engineer

Name : Pravin Vasantryao Likhar, Full Time
Qualification : BE Mining
Appointment/ : 03-MAR-16 08-APR-17
Termination date

Geologist

Name : Rajan Patil, Full Time
Qualification : M.Sc. (Geology)
Appointment/ : 01-SEP-12
Termination date

Geologist

Name : Amar Ramchandra Rane, Full Time
Qualification : MSc Geology
Appointment/ : 03-MAR-16 04-FEB-17
Termination date

Geologist

Name : Ravindrakumar Bhujangrao Salve, Full Tim
Qualification : MSc Geology
Appointment/ : 01-MAR-15 02-MAR-16
Termination date

Manager

Name : Amrendra Kumar singh
Qualification : BE Mining With II nd Class cert.
Appointment/ : 01-FEB-15
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	18-APR-02
		Modif.of approved Mining Plan	22-JUN-06
		Mining Scheme rule 12 MCDR1988	01-FEB-08
		Modif.of approved Mining Plan	28-APR-08
		Mining Scheme rule 12 MCDR1988	09-NOV-12
		MP modif under 17(3) MCR 2016	28-JUL-16
		MP modif under 17(3) MCR 2016	21-FEB-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Proposal revised in the MMP approved on 30.02.2018 as 19 nos. of pits for 2018-19	19 pits carried out and form k submitted.	19 trails pits as proposed in the 2018-19 were carried out and form K also submitted to this office.
1b	Exploration over lease area for geological axis 1 or 2	19 trails pits	19 trails pits	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	In house	In house done	Trail pits carried out by deploying equipments used for operation.
1d	Balance area to be explored to bring Geological axis in 1 or 2	194.72 ha	19 pits of spacing 100m x100m were carried out in the year 2018-19.	as per approved MMP
1e	Balance reserve as on 01/04/20		as on 1.4.2019 Reserve :-68,63,612 tons Resource :-5,49,290 tons	as per the annual returns.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Reef Ore:- 1861900N- 1861482N 383193E- 383146E Float Ore:- 181128N- 1860883N 383439E- 383212E	Observed as per the proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	no top soil and overburden benches are proposed.	Mineral bench of height about 6m	
2c	Stripping ratio or ore to OB ratio	1:0.70	1:0.84	
2d	Quantity of topsoil generation in m3	No proposal	NIL	

2e	Quantity of overburden generation in m3	54747 M3	90000 tons	actual as per the AR 2018-19.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		No proposal/achievement for top soil. The mines developement is consting on rib and float ore deposits.The Overbuden /SB as generated are used for backfilling.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 (1 Pit in insitu & Pit in float)	1 (Pit in insitu & Pit in float)	
3b	Quantity of ROM mineral production proposed	71113 T	71112 T	
3c	Recovery of sailable/usable mineral from ROM production	Recovery % : 100%	Recovery % : 100%	
3d	Quantity of mineral reject generation	No proposal	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	No proposal	NIL	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

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	Yes	Tes	100 mm dia drillhole m/c used & NONEL technique used for Blasting.
3k	Provision of mining machineries in mineral benches	Yes	yes	HEMM deployed in mineral
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Separate benches are formed as per approved MMP.
3m	Total area covered under excavation/pits	34.66 Ha. upto Plan period 2022-23	About 27.11 Ha.	Cumulative figures. Proposed as per approved MMP & achieved as per AR 2018-19.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.70	1: 0.8	
3o	Total area put in use under different heads at the end of year	49.18 Ha. proposed up to FY 2022-23	Area of excavation: 27.11 Ha Reclaimed & rehabilitated: 11.7 Ha Iwaste disposal: 2.5 Ha Road plant etc: 5.0ha	Achieved figures as per AR 2018-19.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 73000 T 2015-16 - 73000 T 2016-17 - 73000 T 2017-18 - 73000 T 2018-19 - 71113 T	2014-15 - 54450 T 2015-16 - 1500 T 2016-17 - 73000 T 2017-18 - 72700T 2018-19 - 71112 T	
3q	General remarks of inspecting officers on method of mining etc.		Method of Mining proposed and being adopted mechanized method with deployment of HEMM.	

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 proposed	Presently mining activities are in little in rib ore and mainly in float bearing area, where soil is leveled after exploitation of bauxite boulders simultaneously.
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Not achieved	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 and The backfilled areas are being scientifically vegetated through afforestation.
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	OB/waste used for backfilling
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	NIL	
4e	Number of active and alive dumps.	No proposal	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Nil	NIL	
4j	Number of settling ponds	NIL	NIL	The run-off mine is channelised towards constructed settling tanks and silt check dams.

4k	Specific comments of inspecting officer on waste dump management	There is no such dumps are proposd/made during the year, all the reject or waste (after recovering by screening) are being utilised for backfilling of mined out voids and The backfilled areas are being scientifically vegetated through afforestation.
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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.	Yes	Yes	The area is taken up for restoration only after removal of entire bauxite in the specific area.
5b	Area under backfilling of mined out area	1.5 Ha	2.5 Ha	During the year 2018-19, 4800 saplings have been planted to cover 2.5 Ha.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	No proposal	
5d	Total area fully reclaimed and rehabilitated		About 11.7 Ha	Cumulative area reclaimed & rehabilitated as per the AR 2018-19.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The area is taken up for restoration/reclamation only after removal of entire bauxite in the specific area.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	yes	For the year 2018-19
6b	Area available for rehabilitation (ha) .	1.5 Ha	2.5 Ha	
6c	afforestation done (ha).	1.5 ha	2.5 Ha	
6d	No. of saplings planted during the year	2500No.s	4800No.s	
6e	Cumulative no .of plants		About 33159 Nos.	
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	1.5 ha	1.5 ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.5 ha	1.5 ha	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.5 ha	2.5ha	
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.	NIL	NIL
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
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Compliance of Environmental monitoring.	The monitoring is carried out as per the schedule through authenticate agency and reports are maintained.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP compliance are observed in order.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	+44% Al2O3 & > 10% SiO2 +30% Al2O3 & +10% SiO2	+44% Al2O3 & > 10% SiO2 +30% Al2O3 & +10% SiO2	ROM has been sorted by crushing / screening.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	

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		Above threshold value minerals are being used after blending.

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 voids and The backfilled areas are being scientifically vegetated through afforestation.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation	yes	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		About 33159 nos.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	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 satis factory	Mines office area has also been developed with aesthetic beauty by planting the different species of plants.

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 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	Notice appointment for geologist was not reported. Violation issued.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area of excavation: 27.11 Ha Reclaimed & rehabilitated: 11.7 Ha Iwaste disposal: 2.5 Ha Road plant etc: 5.0ha	Observed in fileds and found in order.	
9d	Scrutiny of Annual return on afforestation	4800nos. with 80% survival rate	Observed during inspection.	
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 - 52.76 T 40-45 %Al2O3- 12070.13 T 45- 50 %Al2O3- 10.895 T	ROM stock - Nil Garde wise Closing stock Below 40%Al2O3 - 52.76 T 40-45 %Al2O3- 12070.13 T 45- 50 %Al2O3- 10.895 T	Observed during inspection.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Below 40%Al2O3 - 383.99T 40-45 %Al2O3- 409.99T 45- 50 %Al2O3- 1225.00T 50- 55 %Al2O3- 1226.00 T Cost of production - 1016.40T	Sample invioce checked	Found satisfactory.
9h	Scrutiny of Annual return on fixed assets	Value of fixed Asset in Rs 1941794/-	Furnished	Asset value of machinery deployed from third party were excluded.
9k	Scrutiny of Annual return on mining machineris	Back hoe 4 nos Crusher 1 no. Tipper 5 nos. wheel loader 2 nos water tanker 2 nos.	Back hoe 4 nos Crusher 1 no. Tipper 5 nos. wheel loader 2 nos water tanker 2 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 45(7)(a)	09-DEC-19				
MCDR17 Rule 46(a)	09-DEC-19	06-FEB-20			

Date :

(SURESH PRASAD)

Indian Bureau of Mines