

**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.LIKHAR, MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 05-DEC-20
- (v) Prev.inspection date : 26-NOV-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 : C/o Dongale and Sons, 1325/111 E Ward,
correspondance 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	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	14 Trial Pits in non forest area	14 Trial Pits in non forest area	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration by self	Trial pits by digging with the help of excavator.	
1d	Balance area to be explored to bring Geological axis in 1 or 2		118.72 Ha (in 111 Area)	
1e	Balance reserve as on 01/04/20		Updated reserve as on 01/04/2020 3,87855 MT	
1f	General remarks of inspecting officers on geology, exploration etc		Trials pits of 14 nos. were also proposed in the year 2020-21; which is observed under progress.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No. 6	Pit No. 6	1862046N-1861900N & 383146E-382986E (Reef) RL: 998.69 to 982.42 1861014N- 1860776N & 383212E-383211E (Float) RL:989.29 to 941.78
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil: 0, Overburden: 1 Mineral: 01,	Topsoil: 0, Overburden: 1 Mineral: 01,	Most part of operation is under float ore deposit except working within 7.5 m of boundary.
2c	Stripping ratio or ore to OB ratio	1:0.65	1:0.61	45,000 m3 of waste handled.

2d	Quantity of topsoil generation in m3	Nil	Nil	No top soil generation
2e	Quantity of overburden generation in m3	60326 m3	45000 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Most part of operation is under float ore deposit and waste as generated are used for backfilling of mined out area.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 Numbers	02 Numbers	Pit No. 3 & Pit No. 6
3b	Quantity of ROM mineral production proposed	72804.700 MT	72800.00 MT	With 100 % recovery in reef & 30 % recovery in float area.
3c	Recovery of sailable/usable mineral from ROM production	30 % in Float & 100% in Reef	30 % in Float & 100% in Reef	
3d	Quantity of mineral reject generation	No proposal	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	THV 30%Al2O3
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	Mechanised	Mechanised	Dry screening and crushing

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	Excavator 0.9 m3 -2 No. Rock Breaker - 1 No.	Excavator 0.9 m3 -3No. Rock Breaker -1 No.	Mobile Crushing - 100 tph & Screening -100 tph for processing.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	15.63 Ha for the scheme period 2017-18 to 2022-23	5.64 Ha For the year 2019-20	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.82	1:0.61	
3o	Total area put in use under different heads at the end of year	At the end of approved MMP period 122.99 Ha	39.7 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	5,49,452.5 MT for the scheme period 2017-18 to 2022-23	72800.00 MT (during 2019-20)	MT- Matric Tonnes
3q	General remarks of inspecting officers on method of mining etc.		Method of mining is excavation by shovel and tippers combinations mainly on float ore and reef ore mainly along boundary.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate Dumping of Topsoil, OB and Mineral Rejects proposed	Separate Stacking of O.B. & Mineral Rejects is maintained.	
4b	Location of topsoil, OB and mineral reject dumps	No topsoil and Mineral Rejects are proposed. Over burden used for backfilling	No topsoil and Mineral Rejects are achieved. Over burden used for backfilling.	Waste Handled: 50,000 m ³
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Non Lease area = 0	Lease area = 1 Non Lease area = 0	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	Backfilling is done in float mined out area.
4e	Number of active and alive dumps.	Backfilling proposal	Backfilling done in mined out area.	Backfilling done in mined out area.
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes. Proposed 720 m x 0.5m x 1 m	200mx0.5mx1m 200mx0.5mx1m 320mx0.5mx1m	Retaining wall and garland drains at 3 different places on backfilled area for water channeling.
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall - 720 m Garland drain - 720 m	Retaining Wall - 720 m Garland drain - 720 m	
4j	Number of settling ponds	Nil	Constructed - 2 Nos.	
4k	Specific comments of inspecting officer on waste dump management		No proposal for formation of waste dump and waste material being dumped for backfilling the 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.	Backfilling after full extraction of mineral	Backfilling is done after fully extraction of mineral	
5b	Area under backfilling of mined out area	2.37 Ha	2.37 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	No Topsoil handled.	
5d	Total area fully reclaimed and rehabilitated		14.07 Ha	Achieved figure as per the AR 2019-20.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mined out area are being reclaimed by back filling and plantation.	

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).	Proposed	Submitted	
6b	Area available for rehabilitation (ha) .	1.5 Ha	1.5Ha	
6c	afforestation done (ha).	1.5 Ha	1.5Ha	
6d	No. of saplings planted during the year	2,000 plants	6000 plants	Fresh & gapfilling
6e	Cumulative no .of plants		39,159 plants	
6f	Any other method of rehabilitation	NIL	NIL	Coir matting for stabilization of dump & bench slopes for plantation

6g	Cost incurred on watch and care during the year		Rs 0.5 lakh	As per the information submitted by Mines Manager.
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	1.5 Ha	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	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)	Monitoring of Environmental Parameters Proposed	Quarterly monitoring updated till February 2020	Observed within limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mined out area are being reclaimed by back filling and plantation.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Onsite Grade wise Processing of mineral.	Onsite processing for grade wise Segregation of mineral by crushing & screening.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	By Mobile Crushing & Screening plants	
7c	Different grade of mineral sorted out at mines.	45 - 50% Al2O3, 50 - 55% Al2O3,	40 - 45% Al2O3, 45 - 50% Al2O3,	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Onsite processing for grade wise Segregation of mineral by crushing & screening.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No topsoil handled.	

8b	Concurrent use or storage of topsoil	No proposal	No topsoil handled.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for OB/Waste/Rejects proposed.	Waste generated is being used for backfilling	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste is proposed for backfilling.	Waste generated is used for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed for reclamation by backfilling & plantation	Reclamation of disturbed land is done by backfilling, coir matting & plantation.	Plantation of 6000 nos. done during year 2019-20
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		6000 nos.	During the year 2019-20
8g	Survival rate		90 %	
8h	Water sprinkling on roads to control airborne dust	Water Tankers: 02 Nos.	Water Tankers: 02 Nos.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Reclamation & rehabilitation being carried out by backfilling and plantation. Further, disturbed land is observed to be treated by backfilling with coir matting & plantation.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		MR Submitted up to = September- 2020, AR Submitted up to = 2019-2020	Violation issued for MR. Further, it is understood that IBM login for Shivram Minerals was not in operational due to login issue of ID & Password.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Manager - 1 Geologist - Nil	Mining Engineer & Manager - 1	Violation issued for appointment of Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	Covered on current O/C working : 2.94 Ha Reclaimed & rehabilitated: 14.07 Ha Waste disposal: 2.5 Ha Road, buildings etc: 5.20ha	Observed in the field for R&R practices after backfilling of mined out area.
9d	Scrutiny of Annual return on afforestation	6000 nos.	6000 nos. of sapling of plantation reported for the year 2019-20.	Plantation observed in the field.
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% Al ₂ O ₃ - 52.76 te 40-45 %Al ₂ O ₃ - 9953.130 T, 45- 50 %Al ₂ O ₃ - 8010.895 T	ROM stock - Nil Garde wise Closing stock Below 40% Al ₂ O ₃ - 52.76 te 40-45 %Al ₂ O ₃ - 9953.130 T, 45- 50 %Al ₂ O ₃ - 8010.895 T	Quantity Observed during the inspection.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	40-45 %Al ₂ O ₃ - 1000.0 Rs/T, 45- 50 %Al ₂ O ₃ - 1432.0 Rs/T, Cost of production - 867.91 Rs/T	Sample invoice checked	Found satisfactory.
9h	Scrutiny of Annual return on fixed assets	Value of fixed Asset in Rs 1636583/-	Value of fixed Asset in Rs. 1636583/-	As per AR 2019-20

9k	Scrutiny of	Back hoe 8nos	Back hoe 8nos
	Annual return on	Crusher 4 no.	Crusher 4 no.
	mining	Tipper 05 nos.	Tipper 05 nos.
	machineries	wheel loader 2 nos	wheel loader 2 nos
		watertanker 2 nos.	water tanker 2 nos.

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
MCDR17	Rule 35(2)	22-DEC-20			
MCDR17	Rule 45(5)(e)	22-DEC-20			
MCDR17	Rule 46(a)	22-DEC-20			

Date :

(SURESH PRASAD)

Indian Bureau of Mines