

**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 : P01) PREM PRAKASH
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI. PRAVIN LIKHAR, MINES MANAGER
Official with
Designation
- (iv) Date of Inspection : 08-MAR-22
- (v) Prev.inspection date : 03-SEP-21

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
 MP modif under 17(3) MCR 2016 25-MAR-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	14 Trial Pits in non forest area (28 Ha in 111 Area) in 2020-21	14 Trial Pits in non forest area (28 Ha in 111 Area) in 2020-21	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Exploration by Lessee, Total Expenditure- 28000/-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Nil
1e	Balance reserve as on 01/04/20	-	Cat.111- 953770 te	As reported in submitted AR-2020-21
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	Pit No.3 & 6	Pit No.3 & 6	1860791N-1860535N & 383462E-383104E (Reef) 1860900N-1860664N & 383462E-383234E (Float)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil : 0 Overburden : 1 Mineral : 1	Topsoil : 0 Overburden : 1 Mineral : 1	-
2c	Stripping ratio or ore to OB ratio	1:0.80	1:0.76	Te:m3
2d	Quantity of topsoil generation in m3	Nil	Nil	-

2e	Quantity of overburden generation in m3	58423 m3	56000 m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	As such not much development work is required as bauxite is out-cropping and table-top kind of deposit formation is there.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 Numbers	02 Numbers	-
3b	Quantity of ROM mineral production proposed	72999.480 MT	72996.000 MT	-
3c	Recovery of sailable/usable mineral from ROM production	30% in float & 100% in reef tentative	Approx. 30% in float & 100% in reef	-
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	-
3f	Quantity of sub grade mineral generation.	Nil	Nil	-
3g	Grade of sub grade mineral generation	Nil	Nil	-
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	drilling & blasting frequency is very less	-
3k	Provision of mining machineries in mineral benches	HEMMs	Excavator 0.9 m3 -4 No .Rock Breaker -02 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	16.19 Ha proposed for the plan period upto to 2022-23	3.09 Ha. approx.. in 2020-21	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.80	1:0.76	Ratio in Tonne : cubic meter
3o	Total area put in use under different heads at the end of year	About 49.18 Ha proposed up to 2022-23	About 41.3 Ha Up to 31/03/2021	As per AR-2020-21
3p	Production of ROM mineral during the last five year period as applicable	2016-2017 :- 73000 MT 2017-2018 :- 72755 MT 2018-2019 :- 71113 MT 2019-2020 :- 72804 MT 2020-2021 :- 72999 MT	2016-2017 :- 73000 MT 2017-2018 :- 72700 MT 2018-2019 :- 71112 MT 2019-2020 :- 72800 MT 2020-2021 :- 72996 MT	Production carried out given as reported in Annual Returns and approved Mining Plans
3q	General remarks of inspecting officers on method of mining etc.	-	-	Method of mining being followed is opencast with shovel-tipper combination.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil ,OB and Mineral Reject proposed	Separate dumping of top soil, OB and Mineral Reject being carried out	-

4b	Location of topsoil, OB and mineral reject dumps	Topsoil OB and Mineral Reject Dumps in separate location	No OB dumped during Year. OB/waste used for backfilling.	-
4c	Number of dumps within lease area and outside of lease area	0	0	OB/waste used for backfilling.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	0	0	OB/waste used for backfilling.
4e	Number of active and alive dumps.	0	0	OB/waste used for backfilling.
4f	Number of dead dumps.	0	0	-
4g	Number of dumps established.	0	0	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes .Proposed 720 m X0.5Mx1m	200mX0.5mX1m 200mX0.5mX1m 320mX0.5mX1m	Retaining wall and garland drains at 3 different places in back-filling area
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall - 720m Garland drain- 720 m	Constructed	-
4j	Number of settling ponds	0	Constructed- 2 Nos.	-
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.	Nil	Backfilling being done after full excavation of mineral.	-
5b	Area under backfilling of mined out area	2.78 Ha	2.78 Ha during 2020-21	As reported during inspection.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	No topsoil handled	-
5d	Total area fully reclaimed and rehabilitated	Nil	16.850 Ha	Cumulative area Reclaimed by backfilling and plantation as reported in AR-2020-21
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Backfilling being carried out after full extraction of mineral. About 17 Ha reported reclaimed by back filling and plantation has been done over the same.

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	For the year 2020-21
6b	Area available for rehabilitation (ha) .	2.78 Ha	2.78 Ha	-
6c	afforestation done (ha).	2.37 Ha	2.37 Ha	-
6d	No. of saplings planted during the year	3000 plants	2000 plants	-
6e	Cumulative no .of plants	-	-	-
6f	Any other method of rehabilitation	-	41159 plants Coir matting for stabilization of bench slopes and backfilled area	Less plantation reported due to Covid-19 pandemic restrictions
6g	Cost incurred on watch and care during the year	-	0.5 lakh	-

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	278mX100mX1m	278mX100mX1m	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.78 Ha	2.78 Ha	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	2.37 Ha	2.37 Ha	-
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	Not proposed	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	Periodical monitoring being carried out. environmental parameters were within the permissible limit.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Backfilling and planation being carried out at mined out area.

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 minerals	Onsite processing for grade wise segregation of minerals being done by crushing and screening	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	By mobile crushing and screening plants.	-
7c	Different grade of mineral sorted out at mines.	40-45 % Al2O3 45-50 % 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	-	-	Grade wise sorting of mineral being carried out within the lease area by Mechanical means through Mobile Crushing & Screening plants.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil is not proposed in plan.	No top soil handled.	-
8b	Concurrent use or storage of topsoil	Separate storage and use of topsoil not proposed in plan	No top soil handled.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden, waste rock, rejects and fines not proposed in plan	Waste generated is used for back filling.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	overburden, waste rock to be used for backfilling	Waste generated is used for back filling.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed for reclamation by back filling and plantation.	Reclamation of mined out land being done by back filling, coir matting and plantatio	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	Cumulative plantation of 41159 nos. reported carried out over 16.850 Ha . area	-
8g	Survival rate	-	95 %	-
8h	Water sprinkling on roads to control airborne dust	Proposed	Being carried out by Water tankers- 2 Nos.	-
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 = February 2022 AR Submitted up to = 2020-21	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Pravin V. Likhar, Mining Engineer in charge- Sagara S., Geologist in charge- NIL	Manager- Pravin V. Likhar, Mining Engineer in charge- Sagara S., Geologist in charge- K.Prasad Kumar	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by O/C mining- 30.028 Ha Covered under current working- 3.09 Ha Reclaimed/Rehabilitated- 16.850 Ha cumulative Used for waste disposal- 2.5 Ha Occupied by building, roads etc- 5.5 Ha	Already exploited & abandoned by O/C mining- 30.028 Ha Covered under current working- 3.09 Ha Reclaimed/Rehabilitated- 16.850 Ha cumulative Used for waste disposal- 2.5 Ha Occupied by building, roads etc- 5.5 Ha	As per Annual Return 2020-21 submitted
9d	Scrutiny of Annual return on afforestation	2000 plants	2000 plants	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject- Nil	Mineral Reject- Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- Nil, Grade-wise stock : Below 40%- 52 MT 40% to 45% - 3952 MT 45% to 50% - 36492 MT	ROM stock- Nil, Grade-wise stock : Below 40%- 52 MT 40% to 45% - 3952 MT 45% to 50% - 36492 MT	As per Annual Return 2020-21 submitted

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price: for 40% to 45% Al2O3 is Rs. 1000 per Tonne Ex-mine price for 45% to 50% Al2O3 is Rs. 1469.12 per Tonne production cost : 834.66 Rs./M.T.	Ex-mine price: for 40% to 45% Al2O3 is Rs. 1000 per Tonne Ex-mine price for 45% to 50% Al2O3 is Rs. 1469.12 per Tonne production cost : 834.66 Rs./M.T.	As per Annual Return 2020-21 submitted
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs. 1227438	Value of Fixed Assets - Rs. 1227438	As per Annual Return 2020-21 submitted
9k	Scrutiny of Annual return on mining machineries	Excavator 0.9 m3 -4 No., Mobile Crusher -1 no., TIPPER-5nos.	Excavator 0.9 m3 -4 No., Mobile Crusher -1 no., TIPPER-5nos.	As per Annual Return 2020-21 submitted

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

Date :

(PREM PRAKASH)

Indian Bureau of Mines