

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 Officer and ID No. : **(NKK) NARESH KUMAR KATARIYA**
- (ii) Designation : Regional Controller of Mines
- (iii) Accompanying mine Official with Designation : SHRI. PRAVIN LIKHAR, MINES MANAGER
- (iv) Date of Inspection : 23.12.2024
- (v) Prev. inspection date : 25.02.2023

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 correspondence : 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 MINERALSC/o Dongale and Sons,1325/111E Ward Shivaji Udyamnagar, Karveer KOLHAPUR MAHARASHTRA Phone:
- Owner : SANDEEP PANDURANG DONGALE
C/o Dongale and Sons,
1325/111 E Ward, Shivaji
Udyamnagar, Karveer
KOLHAPUR MAHARASHTRA
0231-2662501, 9
0231-2662501
- Mining Engineer Name : Pravin Vasantrao Likhar, Full Time
- Qualification : BE Mining
- Appointment/ : 03-MAR-16
- Termination date
- Geologist Name : M.M. Hagalambe
- Qualification :
- Appointment/ :
- 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
RMP under 17(2) MCR 2016 06-JUN-23

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.	G1 proposed	G1: 156.05 Ha.	The total ML area executed as

			Established non-mineralized area: 87.67 Ha.	per the lease deed is 243.72Ha.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserves as on <u>01.04.2024</u>	1638093.4 MT	1650093 MT	
1f	General remarks of inspecting officer of geology, exploration etc.	of Mineralized area measuring 156.05 Ha. has been explored under G1 stage. 87 nos. of trial pits have been dug by the lessee in the ML area so far (depth 3m each).		

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Float working RL 994-952 1861449N- 1862048N 383091E - 382653E (Pit 1) Reef working RL 1000-992 1860649N- 1860551N 383446E- 383418E (Pit 5)	Float working RL 994-952 1861449N- 1862048N 383091E - 382653E (Pit 1) Reef working RL 1000-992 1860649N- 1860551N 383446E- 383418E (Pit 5)	Pit -1 is in the Float area & Pit5 is in the Reef area
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Overburden - 1 Mineral- 1	Overburden - 1 Mineral- 1	Single bench in ore is maintained
2c	Stripping ratio or ore to OB ratio	1:1.06	1:1.2	
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	68810 m3	49500 m3	B.D 1.5 tonnes/m3
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The location of the development work observed deviated from the proposal during inspection; a violation of rule 11(1) of MCDR,2017 issued.		

Exploitation :

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Pit 1 and 5 is proposed for production (Single pit)	Pit 1 and 5	
3b	Quantity of ROM mineral production proposed	72,999 tonnes	61,000 tonnes	
3c	Recovery of salable/usable mineral from ROM production	100% proposed in Reef Bauxite and 30% proposed in Float ore Bauxite.	100% recovery in Reef Bauxite and approx.70% in Float ore Bauxite.	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Not applicable.	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	

3j	Provision of drilling & blasting in mineral benches	Proposed.	Drilling & blasting in mineral benches is carried out.	
3k	Provision of mining machineries in mineral benches	Proposed with hydraulic excavators and dumpers combination	Hydraulic excavators, and dumpers combination adopted.	Mobile crushing - 100TPH & Screening - 100TPH for processing.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m bench height proposed.	An average bench height of 5 to 6m is maintained.	
3m	Total area covered under excavation/pits	3.23 Ha.	2.52 Ha.	Violation pointed out.
3n	Ore to OB ratio for the pit/mine during the year	1:1.52	1:0.62	
3o	Total area put in use under different heads at the end of year	Area under mining activities: 49.78 Ha.	Area under mining activities: 49.1 Ha. (Including reclaimed area)	Actual land utilization is mentioned as per the submitted AR. Proposals are given as per the approved Mod. MP at the end of F.Y. 2023-24.
3p	Production of mineral during last five-year period, as applicable	ROM 2019-2020 - 72804MT 2020-2021- 72999MT 2021-2022- 72880MT 2022-2023- 72980MT 2023-2024 - 72999MT	2019-2020 - 72800MT 2020-2021- 72996MT 2021-2022- 72500MT 2022-2023- 72500MT 2023-2024 - 61000MT	
3q	General remarks of inspecting officer on method of mining etc.	A total of 49,500 m ³ of waste was reported to be removed during the year against the proposal of 68,810 m ³ . The stripping Ratio was found distorted during FY 2023-24. A violation under rule 11(1) of MCDR, 2017 was issued for the same.		

Solid Waste Management-Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Backfilling of mined-out pits proposed in Float ore areas.	Backfilling of mined-out areas has been carried out	No topsoil and mineral reject generation during 2023-24.
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active & alive dumps	No proposal	Nil	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps stabilized	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed.	Retaining wall and garland drain constructed around the backfilled areas.	
4i	Length of Retaining wall or garland drain all along dump	80m of retaining wall and 200m of garland drain proposed during 2023-24.	80m of retaining wall and 200m of garland drain constructed along the backfilled areas.	
4j	Number of settling ponds	01 no. proposed.	01 no. constructed.	
4k	Specific comments of inspecting officer on waste dump management.	Topsoil is being utilized for plantation purposes along the safety zone areas and non-mineralised areas.		

Solid Waste Management-Backfilling :

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Back filling is done after full excavation of the mineral	
5b	Area under backfilling of mined out area	3.23Ha	2.52 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No topsoil generation	No topsoil generation	
5d	Total area fully reclaimed & rehabilitated	34.447 Ha	33.767 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Generated intercalated waste has been utilized for backfilling of mined-out areas. Reclamation by means of plantation is carried out over the backfilled area.		

Progressive Mine Closure Plan :

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Proposed	Submitted	For the year 2023-24
6b	Area available for rehabilitation (ha)	3.5Ha	3.23	Plantation on progress.
6c	Afforestation done (ha)	3.23Ha	3.23Ha	
6d	No. of saplings planted during the year	3500 plants	6000 plants	
6e	Cumulative no. of plants	-	58000 plants	
6f	Any other specific method of rehabilitation	-		

6g	Cost incurred on watch & care during the year	-	3 Lakh	Watering plants, Fertilizer and supervision
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	297mX118mX3m	280mX91mX3m	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	3.23 Ha	2.52 Ha	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	3.23 Ha	2.52 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	No wasteland proposed	No wasteland worked / Rehabilitated	-
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (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 & buffer zone)	Monitoring of environmental parameters proposed	Quarterly monitoring updated	Environmental monitoring is carried out periodically and

parameters
are found
within
stipulated
limit

6q General remarks of inspecting officer on PMCP compliance & progressive closure operations Afforestation activities were executed as per the proposal on the reclaimed area.

Mineral Conservation :

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	On-site grade-wise processing of minerals	On-site processing for grade wise segregation of minerals by crushing & screening	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	mechanical	By mobile crushing & screening plant	
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 & beneficiation issues	of Grade wise soring of ROM was carried out by dry crushing and screening using mobile plant.		

Environment :

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation.	No top soil generation.	
8b	Concurrent use or storage of topsoil	-.	-	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dump of overburden, or waste. No mineral rejects.	Overburden/Waste generated is utilized simultaneously for backfilling of mined-out area
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not in proposal	Overburden/Waste generated is utilized simultaneously for backfilling of mined-out area
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation by backfilling and plantation.	Reclamation is done by backfilling & plantation. 6000 saplings done during 2023-24.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not in proposal	Baseline information about year-wise plantation done
8g	Survival rate	-	8 %
8h	Water sprinkling on roads to control airborne dust	Water tankers- 1 Nos.	Water tankers- 1 Nos.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine area is good	

Compliance of Rule 45 :

S.N.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	M. R. Submitted up to = October 2024 A.R. Submitted up to = 2023-24	Found in order.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer: Shri Pravin V. Likhar. Geologist: Shri Prasadkumar	Manager & Mining Engineer: Shri Pravin V. Likhar. Geologist: Shri M.M. Hagalambe	& Notice of appointments in respect of Mining Engineer and Geologist were submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Already exploited & abandoned by O/C mining- 42.680 Ha Covered under current working- 2.520 Ha Reclaimed/Rehabilitated- 33.767 Ha Used for waste disposal- 0.0 Ha Occupied by building, roads, etc- 4.949 Ha	Found as per AR.
9d	Scrutiny of Annual return on afforestation	Yes	33.767Ha (Cumulative) 6000 plants planted on 2.52 Ha area in the year 2023-24	Found in order at Annual Return 2023-24 submitted
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Furnished as Nil	Found in order	No mineral reject generation during 2023-24.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Grade wise Production 40% to 45% - 58500 MT 45% to 50% - 2500 MT	Actual was also same at that time.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value of 40% to 45% Al ₂ O ₃ for 36456.585 MT is Rs. 42362552 Sale value of 45% to 50% Al ₂ O ₃ for 6237.645 MT is	Found as per AR	Some of the invoices were checked during inspection and sale value given

Rs. 10229738
 Ex-mine price
 for 40% to 45%
 Al2O3 is Rs.
 1162 per Tonne
 Ex-mine price
 for 45% to 50%
 Al2O3 is Rs.
 1640 per Tonne
 production cost
 1061.87
 Rs./M.T.

was found
 correct.

- 9i Scrutiny of Annual return on fixed assets Closing balance of the fixed assets is reposted as Rs. 829847 /- Mentioned in the AR.
- 9k Scrutiny of Annual return on mining machineries Excavator -4 (0.9 CUM) Rock Breaker -02 Mobile Crusher-1 (100 T/H) Tipper- 5 (3.5CUM) Water tanker-2 (10000 Litre) Wheel Loader-2 (1.7 CUM) No change.

Details of violations observed during current inspection and compliance position of violation pointed out					
<u>Violation observed</u>			<u>Show cause position</u>		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
11(1)	11.02.2025				

(Naresh Kumar Katariya)

Indian Bureau of Mines