

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

Review and updation of Mining Plan REPORT

Goa regional office

Mine file No : KNT/BJP/LST-73/GOA

Mine code : 38KAR26051

- (i) Name of the Inspecting : **VT01**) **VIDYADHAR V.TARI**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : S/SHRI. G.HARENDRA, TQP AND SHANKER BALEKAI, MINES MA
Official with
Designation
- (iv) Date of Inspection : 20-NOV-23
- (v) Prev.inspection date : 12-DEC-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAGANPUR (ML2425)**
- (b) **Registration NO.** : **IBM/5621/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BAGALKOT**
- Village : **NAGANPUR**
- Taluka : **MUDHOL**
- Post office : **LOKAPUR**
- Pin Code : **587122**
- FAX No. : **---**
- E-mail : **virakthmath@gmail.com**
- Phone : **9448316697**
- (f) **Police Station** : **Lokapur**
- (g) **First opening date** : **01-JAN-04**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **At & Po-Lokapur**
Tq-Mudhol
Dist-Bagalkot, Karnataka
3. (a) **Lease Number** : **KAR1376**
- (b) **Lease area** : **2.78**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **28-SEP-53**
4. **Mineral worked** : **DOLOMITE** Associated
LIMESTONE Main

5. Name and Address of the

Lessee : RAJESWARI M. VIRAKTAMATH
 P.O.LOKAPUR TALUKA- MUDHOL
 BAGALKOT KARNATAKA
 Phone:(08350) 340034
 FAX :

Owner : SMT. RAJESWARI M. VIRAKTAMATH
 At & Po-- Lokapur Tq-Mudhol
 BAGALKOT KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : SHRI. PEAPULLY MURALI MOHAN,Part Time
 Qualification : B.E. (MINING)
 Appointment/ : 25-AUG-21
 Termination date

Geologist

Name : SHRI. G.HARENDRA,Part Time
 Qualification : MSc. (GEOLOGY)
 Appointment/ : 01-AUG-21
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29-APR-03
Plan/Scheme of Mining		Modif.of approved Mining Plan	16-JAN-08
		Mining Scheme rule 12 MCDR1988	13-FEB-09
		Mining Scheme rule 12 MCDR1988	07-NOV-13
		MP review under 17(1) MCR 2016	09-MAY-18
		MP modif under 17(3) MCR 2016	18-SEP-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Nil	Lessee has drilled 06 Core Boreholes for total meterage of 180m. during 2017-18 and 02 Core Boreholes for total meterage of 60m.in the mining lease area during 2020-21. Entire area is covered under G1 level of exploration
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal is given for the year 2022-23.	Nil	Entire lease area is covered under G1 level of exploration
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	The entire lease area is explored under G1 level of exploration
1e	Balance reserve as on 01/04/20		Total Reserves of Limestone is 0.24 million tonnes	As on 01.04.2023
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area is explored by lessee and covered under G1 level of exploration by drilling 06 Core Boreholes for total meterage of 180m. during 2017-18 and 02 Core Boreholes for total meterage of 60m.in the mining lease area during 2020-21.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N.1788372 to N.1788414 E.536789 to E.536866 and N.1788338 to N1788365 E.536828 to E.536849	Nil	There was no production of Limestone. However, 3000 t of Dolomite has been produced during F.Y.2022-23
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed	Nil	
2c	Stripping ratio or ore to OB ratio	1:0.04	Nil	There was no production of Limestone during F.Y.2022-23
2d	Quantity of topsoil generation in m3	Nil	Nil	No proposal for top soil generation during the F.Y.2022-23
2e	Quantity of overburden generation in m3	202.5 m3 of intercalated waste	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There was no production of Limestone. However, 3000 t of Dolomite has been produced during F.Y.2022-23

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One single pit	No change.	
3b	Quantity of ROM mineral production proposed	10,000 tonnes of Limestone and 30,000 tonnes of Dolomite	3,000 tonnes of Dolomite	
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	Not proposed	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	Not proposed	Nil	
3g	Grade of sub grade mineral generation	Not proposed	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.	No such proposal is given	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting is proposed	Jack Hammer drilling & blasting by using slurry explosives	
3k	Provision of mining machineries in mineral benches	By deploying excavator and tipper.	No Change	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches proposed is 5m	No Change	Average height of 5m. is maintained
3m	Total area covered under excavation/pits	1.785 Ha. as per the approved RMP (plan period ending 2022-23)	1.785 Ha. as per submitted Annual Return	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04	Nil	There was no production of Limestone during F.Y.2022-23
3o	Total area put in use under different heads at the end of year	Total 2.647 Ha. as per the approved RMP (plan period ending 2022-23)	O/C working = 1.785 Ha. Building, Road = 0.61 Ha. Dump = 0.054 Ha.	As per Annual Return for FY. 2022-23

3p	Production of ROM mineral during the last five year period as applicable	2018-2019=10000 Tons 2019-2020=10000 Tons 2020-2021=10000 Tons 2021-2022=10000 Tons 2022-2023=10000 Tons	2018-2019 = 8000 Tons 2019-2020 = Nil 2020-2021 = 11900 Tons 2021-2022 = Nil 2022-2023 = Nil
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3q	General remarks of inspecting officers on method of mining etc.	Mine is proposed and reportedly operated with jack hammer drilling and blasting by using slurry explosives and deploying excavator and tipper.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Waste is proposed for temporary dumping separately and to be used for bund formation and road repairs.	No change	
4b	Location of topsoil, OB and mineral reject dumps	Waste dumping is proposed in south western side of the mining lease area.	No change	
4c	Number of dumps within lease area and outside of lease area	One within lease area	No change	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste dumping is proposed within UPL	No change	

4e	Number of active and alive dumps.	One active dump	No change	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Constructed	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall and garland drain of 200 mts. each has been proposed during the entire plan period ending F.Y.2022-23	Retaining wall and garland drain of 75 mts. each was reportedly constructed along dump.	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			By and large no deviation in respect of dump management was observed.

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.	Backfilling is not proposed	Nil	Mining pit is not matured for backfilling. Mineral is not exhausted from the pit.
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of top soil is proposed	Nil	Generation of topsoil during 2022-23 is Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Since mineral has not been exhausted from pit, backfilling / reclamation is not envisaged.
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st July every year	Submitted for 2022-23	
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	Mineral is not exhausted from the pit
6c	afforestation done (ha).	Nil	0.05 Ha.	Plantation proposed outside mining lease area on northern side
6d	No. of saplings planted during the year	100 plants	80 plants	
6e	Cumulative no .of plants	360 plants proposed upto 2022-23 as per approved proposal.	630 nos. planted as reported by the lessee.	As per the Annual Report on PMCP F.Y. 2022-23.
6f	Any other method of rehabilitation	No proposal	Not applicable	
6g	Cost incurred on watch and care during the year	Rs. 2500/-	Rs. 2500/- in 2022-23	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	Mineral is not exhausted from the pit
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Not applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Environmental monitoring is carried out on half yearly basis through approved agency and parameters are found within stipulated limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance and progressive closure is found to be satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM/Mineral dispatch is proposed after manual sizing and sorting.	No change	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	ROM/Mineral sorting is done manually
7c	Different grade of mineral sorted out at mines.	Yes	No change, different grade of mineral is sorted out at mines	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			During 2022-23, 812.64 t of BF Grade limestone was dispatched after manual sizing and sorting as reported in Annual Return.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	No topsoil is generated during 2022-23	The topsoil generated earlier was used for plantation all along the 7.5m safety barrier zone.
8b	Concurrent use or storage of topsoil	Concurrent use of top soil is proposed	Nil during 2022-23	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Temporary dumping of waste is proposed	No change	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Apprx. 630 sapplings have been reported to be planted by the lessee.	
8g	Survival rate	Not specified	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling by water tanker is being carried out on mine haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mining area appears to be good. Plantation is observed on 7.5m safety zone boundary.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to October'2023 & A.R. for the year 2022-23 is submitted	Submitted within time limit.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mining Engineer, Geologist and Manager is furnished as Nil	As per the notice in "Form-H" dated 25.08.2021 S/shri. Peapully M.Mohan and G.Harendra have been appointed as part time M.E. and Geologist respectively.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under O/C working = 1.785 Ha. Building, Road = 0.61 Ha. Dump = 0.054 Ha.	Covered under O/C working = 1.785 Ha. Building, Road = 0.61 Ha. Dump = 0.054 Ha.	As per the Annual Return submitted for FY 2022-23
9d	Scrutiny of Annual return on afforestation	100 plants proposed outside M.L.area	50 plants reported to be planted within lease area all along 7.5m. safety barrier.	
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 closing stock=Nil Closing stock of graded ore:- BF grade = 10086.01 T and Cement grade = 1901.65 T	ROM closing stock=Nil Closing stock of graded ore:- BF grade = 10086.01 T and Cement grade = 1901.65 T. However, 812.64 T of BF grade limestone is reported to be dispatched during 2022-23	As per the Annual Return submitted for FY 2022-23
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Price of BF Grade is reported as Rs.357.50 per tonne and Production Cost is Rs. 329 per tonne	Ex- Mine Price of BF Grade is reported as Rs.357.50 per tonne and Production Cost is Rs. 329 per tonne	As per the Annual Return submitted for FY 2022-23
9h	Scrutiny of Annual return on fixed assets	Furnished	Value of fixed asset is reported to be Rs.21,00,000/-	As per the Annual Return submitted for FY 2022-23
9k	Scrutiny of Annual return on mining machineries	Mining machinery details furnished	Mining machinery details furnished	

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 :

(VIDYADHAR V.TARI)

Indian Bureau of Mines