

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

**MCDR inspection REPORT**

**Goa regional office**

**Mine file No :** KNT/BJP/LST-102/GOA

**Mine code :** 38KAR26086

- (i) Name of the Inspecting : VT01 ) VIDYADHAR V.TARI  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : SHRI. G.HARENDRA, PART TIME GEOLOGIST  
Official with  
Designation
- (iv) Date of Inspection : 30-JUN-21
- (v) Prev.inspection date : 21-APR-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : NAGANPUR LST & DOL MINE
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BAGALKOT
- Village : NAGANPUR
- Taluka : MUDHOL
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 03-JAN-11
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** :
3. (a) **Lease Number** : KAR1665
- (b) **Lease area** : 4.85
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 02-JAN-31
4. **Mineral worked** : DOLOMITE Associated  
LIMESTONE Main

## 5. Name and Address of the

Lessee : SOMALINGESHWARA STONE POWDER IND.  
 VILLAGE- NAGANPUR, P.O.-  
 LOKAPUR, MUDHOL BAGALKOT  
 KARNATAKA  
 Phone:  
 FAX :

Owner : C.M.DESAI  
 BAGALKOT KARNATAKA  
 Phone:  
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	05-NOV-09
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	09-AUG-16
		MP review under 17(1) MCR 2016	31-MAR-20
		MP review under 17(1) MCR 2016	20-JUL-20

## 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 so far drilled 2 DTH holes during the year 2014-15 and 06 Core Boreholes in the year 2018-19 in the mining lease area
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal is given for the year 2020-21.	Nil	-
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 Stage
1e	Balance reserve as on 01/04/20	-	Total Reserves of Limestone is 0.35 Million Tonnes and Dolomite is 1.15 Million Tonnes	As on 01.04.2021
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No exploration proposal is given for the year 2020-21. Entire lease area is covered under Geological axis 1 or 2

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposal is given in the existing pit as shown over Pit Layout Plan for 2020-21.	No Change	-

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	Separate benches are found to be maintained	-
2c	Stripping ratio or ore to OB ratio	1:0.05 in the year 2020-21	1:0.05	Combined for Limestone & Dolomite
2d	Quantity of topsoil generation in m3	Nil	Nil	No proposal for top soil generation during 2020-21
2e	Quantity of overburden generation in m3	1050 tons of intercalated waste in the year 2020-21	350 tons	BD 2.0 tonne/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Overburden / Waste is mainly intercalated waste within Limestone and Dolomite bands (5% by volume).

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits (East and West Blocks)	No change. Two pits are located at the Eastern and Western side of M.L.Area.	-
3b	Quantity of ROM mineral production proposed	Limestone - 4995 tons and Dolomite - 19950 tons during 2020-21	Limestone - 4500 Tons and Dolomite - Nil during 2020-21	-
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	-
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	Nil 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	Manual	Manual	-
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	Drilling & blasting is proposed	Jack Hammer drilling & blasting by using slurry explosives	-
3k	Provision of mining machineries in mineral benches	Jack Hammer: 2 Nos. Tractor mounted Compressor: 2 Nos. Tractor Trailer: 2Nos. Water Tanker: 1 No	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 3m	During the course of inspection, it was observed that at places, height of the benches were 4m and above.	Violation of Rule 11(1) is pointed out to lessee.
3m	Total area covered under excavation/pits	2.460 Ha*	1.350 Ha	* As per the approved RMP (plan period ending 2024-25)
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.05	-
3o	Total area put in use under different heads at the end of year	Total 3.270 Ha. as per the approved RMP (plan period ending 2024-25)	Total 2.062 Ha. at the start of plan period i.e., 2020-21	-

3p	Production of ROM mineral during the last five year period as applicable	Limestone 16-17 = 20000 Tons 17-18 = 20000 Tons 18-19 = 20000 Tons 19-20 = 20000 Tons 20-21 = 4995 Tons Dolomite 16-17 = 60000 Tons 17-18 = 60000 Tons 18-19 = 60000 Tons 19-20 = 60000 Tons 20-21 = 19950 Tons	Limestone 16-17 = Nil 17-18 = 4000 Tons 18-19 = Nil 19-20 = 3500 Tons 20-21 = 4500 Tons Dolomite 16-17 = 3000 Tons 17-18 = 8700 Tons 18-19 = 2000 Tons 19-20 = Nil 20-21 = Nil	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	During the year 2020-21, it was proposed that the existing benches will be rectified for systematic method of mining at common boundary with M.L.No.2425. However, during the course of inspection it was observed that at places, height of the benches were 4m and above. Violation of Rule 11(1) is pointed out to lessee.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Disposal of intercalated waste is proposed for formation of bund along 7.5m safety zone and strengthening of mine roads within lease area	No change	-
4b	Location of topsoil, OB and mineral reject dumps	OB/Waste proposed for formation of bund along 7.5m safety zone and strengthening of mine roads within lease area.	No change	-
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	-
4e	Number of active and alive dumps.	Nil	Nil	-
4f	Number of dead dumps.	Nil	Nil	-
4g	Number of dumps established.	Nil	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Bund of Length - 100m x Width - 7.5m x Height - 2m proposed all along safety zone	Constructed as proposed	-
4i	Length of Retaining wall or garland drain all along dumps	Bund of Length - 100m x Width - 7.5m x Height - 2m proposed all along safety zone	Constructed as proposed	-
4j	Number of settling ponds	Nil	Nil	-

4k	Specific comments of inspecting officer on waste dump management	-	-	No deviation in respect of dump management was observed.
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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.	Backfilling is not proposed	Nil	Mining pits are not matured for backfilling
5b	Area under backfilling of mined out area	Nil	Nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Generation of topsoil during 2020-21 is Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Backfilling / Reclamation has not been envisaged since mineral has not been exhausted from any part of the lease area.

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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).	Before 1st July every year	Not Submitted for 2019-20 and 2020-21	Violation in this regard is pointed out to lessee.
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	-

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6c	afforestation done (ha).	0.10 Ha	100 plants reported to be planted during 2020-21 within lease area all along 7.5m safety barrier with 50% survival rate	-
6d	No. of saplings planted during the year	100 plants proposed	100 plants reported to be planted during 2020-21 within lease area all along 7.5m safety barrier with 50% survival rate	-
6e	Cumulative no .of plants	500 plants during plan period	Appx. 450 nos. planted as reported by the lessee	-
6f	Any other method of rehabilitation	No proposal	Not applicable	-
6g	Cost incurred on watch and care during the year	Rs.2500/-	Rs.17500/- as reported by lessee.	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Not applicable	-
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	100 plants reported to be planted during 2020-21 within lease area all along 7.5m safety barrier with 50% survival rate	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	-	All along mining lease.boundary in 7.5m. safety zone	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-	By plantation	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring is done by private consultant	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 carried out in accordance with the approved Review and Updation of Mining Plan.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise mineral dispatch is proposed after manual sizing and sorting.	Gradewise mineral dispatch is proposed after manual sizing and sorting.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Gradewise mineral sorting is done

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7c	Different grade of mineral sorted out at mines.	Yes	Different grade of mineral sorted out at mines	-
7d	Any beneficiation process at mines .	No any beneficiation process is proposed	Nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	During 2020-21, BF Grade limestone / mineral was dispatched after manual sizing and sorting as per the requirement

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	No topsoil is generated during 2020-21	-
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste is not proposed	Generated intercalated waste is used for formation of bund along 7.5m safety zone and strengthening of mine roads within lease area.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	-

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	During 2020-21, 100 plants reported to be planted within lease area all along 7.5m safety barrier.	-
8g	Survival rate	Not specified	50%	-
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling by water tanker is being carried out on regular basis	-
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. Impact on environment due to mining operation is less due to small scale manual mining operations.

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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 May'2021 & A.R. for the year 2020-21 is submitted	Submitted within time limit.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil information is furnished for Mining Engineer	No Part time Mining Engineer is found appointed	Violation of Rule 55(1)(c)(ii) of MCDR'2017 is pointed out to lessee.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under O/C Working = 1.350 Used for Waste Disposal = 0.10 Road, Buildings, Infrastructure = 0.010 Other purpose (Safety Zone) = 0.700 Work done under PMCP during the year = 0.098	Covered under O/C Working = 1.350 Used for Waste Disposal = 0.10 Road, Buildings, Infrastructure = 0.010 Other purpose (Safety Zone) = 0.700 Work done under PMCP during the year = 0.098	As per the Annual Return submitted for FY 2020-21

9d	Scrutiny of Annual return on afforestation	100 plants proposed	100 plants reported to be planted during 2020-21 with 50% survival rate	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Mineral reject not generated during 2020-21	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	BF Grade Limestone = 10069.400 Tons	BF Grade Limestone = 10069.400 Tons	As per the Annual Return submitted for FY 2020-21
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Price of Limestone is reported as Rs.450.00 per tonne and Production Cost is Rs. 350.60 per tonne	Ex- Mine Price of Limestone is reported as Rs.450.00 per tonne and Production Cost is Rs. 350.60 per tonne	As per the Annual Return submitted for FY 2020-21
9h	Scrutiny of Annual return on fixed assets	-	-	-
9k	Scrutiny of Annual return on mining machineries	Mining machinery details furnished	Air Compressor = 2 Nos. Tractor / Jeep = 1 No. Water Tanker = 1 No	As per the Annual Return submitted for FY 2020-21

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**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 11(1)	16-JUL-21	02-DEC-21				
MCDR17	Rule 26(2)	16-JUL-21	02-DEC-21				
MCDR17	Rule 55(1)(3)	16-JUL-21	02-DEC-21				

**Date :**

(VIDYADHAR V.TARI)

Indian Bureau of Mines