

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP.LST-65/GOA

Mine code : 38KAR26045

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : **SHRI. SURESH R.MATHAD, MINE OWNER**
Official with
Designation
- (iv) Date of Inspection : 03-FEB-22
- (v) Prev.inspection date : 12-DEC-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LOKAPUR (9 AC 5 GU)ML2405**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BAGALKOT
- Village : LOKAPUR
- Taluka : MUDHOL
- Post office : LOKAPUR
- Pin Code : 587122
- FAX No. : 08350-240563
- E-mail : rkt.rkm60@yahoo.com
- Phone : 08350-340038
- (f) **Police Station** : Lokapur
- (g) **First opening date** : 18-JUN-03
- (h) **Weekly day of rest** : TUE
2. **Address for** : Shri S.R.Mathad
correspondance At and po-Lokapur-587122
Tq-Mudhol, Dist-Bagalkot
3. (a) **Lease Number** : KAR1360
- (b) **Lease area** : 3.69
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 01-JUN-23
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : SURESH RUDRAIAH MATHAD
P.O. LOKAPUR TALUKA-MUDHOL
DISTRICT-BAGALKOT BAGALKOT
KARNATAKA
Phone:08350-340038
FAX :

Owner : S.R.MATHAD
At Po-Lokapur Tq-Mudhol
BAGALKOT KARNATAKA
Phone: 08350-340038
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	28-APR-03
Plan/Scheme of Mining		Modif.of approved Mining Plan	12-APR-06
		Modif.of approved Mining Plan	20-NOV-07
		Mining Scheme rule 12 MCDR1988	27-JAN-10
		Mining Scheme rule 12 MCDR1988	24-SEP-13
		MP review under 17(1) MCR 2016	25-JAN-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2020-21	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed	G1: 3.69 Ha. G2: Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1	G1 achieved.	
1e	Balance reserve as on 01/04/20		1.055 million tonnes of Limestone (UNFC Cat. 111)	As on 01.04.2021. Limestone quality: +34% to 49.18% CaO.
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralized area was explored by the lessee under G1 level by drilling with 6 nos. of core boreholes drilled during 2016-17; total meterage drilled was 165m.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1788060 N to 1788200 N, E 539230 E to 539500 E	1788060 N to 1788200 N, E 539230 E to 539500 E	No change
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Separate benches in ore maintained.	No OB benches; waste is mainly consists of intercalated waste within ROM.
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.15	

2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	1579 m3	750 m3	BD 2.0 tonne/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No deviation in respect of mine development was observed during the course of inspection dated 03.02.2022; recovery of saleable ore was comparatively lower during 2020-21 due to generation of more intercalated waste within ROM.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed.	Single pit.	Dimension of pit: 250m x 100m x 8m.
3b	Quantity of ROM mineral production proposed	60,000 tonnes of Limestone	9,878 tonnes.	
3c	Recovery of sailable/usable mineral from ROM production	95%	85%	Recovery was comparatively lower in 2020-21 due to generation of more intercalated waste within ROM.
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects 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	Manual mining proposed	Manual mine	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Proposed to drill by jack hammer and blasting using slurry and UNFO	No change.	
3k	Provision of mining machineries in mineral benches	Jack Hammers: 2 nos. Compressor: 1 no. Water Tanker: 1 no.	Jack Hammers: 1 no. Compressor: 1 no. Water Tanker: 1 no.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m proposed.	Average height 3m is maintained	
3m	Total area covered under excavation/pits	2.63 Ha. at the end of F.Y. 2022-23	2.54 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.05	1: 0.15	
3o	Total area put in use under different heads at the end of year	Area under mining: 2.63 Ha. Infrastructure & Road: 0.02 Ha.	Area under mining: 2.54 Ha. Infrastructure & Road: 0.02 Ha.	Area utilization proposals mentioned as per the approved RMP dated 25.01.2018.
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 59,000 2017-18: 65,000 2018-19: 60,000 2019-20: 60,000 2020-21: 60,000 (in tonnes)	2016-17: 58,998 2017-18: 44,140 2018-19: 18,130 2019-20: 13,588 2020-21: 9,878 (in tonnes)	

3q General remarks of inspecting officers on method of mining etc.

As stated by the lessee, production during 2020-21 was less than proposal due to low market demand and Covid 19 pandemic.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed for construct safety bund along the ML boundary and for mine road repairing works.	Waste was utilized for construction of safety bund along lease boundary and for mine road repairing works.	
4b	Location of topsoil, OB and mineral reject dumps	No such proposals given.	Nil	
4c	Number of dumps within lease area and outside of lease area	No proposal	No waste dump within ML area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable.	
4e	Number of active and alive dumps.	No proposal	Nil	
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.	Construction of safety bund along lease boundary proposed.	Safety bund constructed.	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable.	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management			Waste was utilized for construction of safety bund along lease boundary and for mine road repairing works. No waste dump is present within ML area.
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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.	No proposal	Nil as the mine pit was not matured for backfilling.	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of top soil proposed.	No top soil generation	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine pit was not matured for backfilling since mineral persists at the bottom of mine workings.

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 F.Y. 2020-21 dated 02.08.2021.	

6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	0.037 Ha. during 2020-21.	0.25 Ha. along the safety barrier area so far.
6d	No. of saplings planted during the year	50 nos. during 2020-21	50 nos. within ML area & 200 nos. outside ML area.
6e	Cumulative no .of plants	No proposal	Apprx. 400 nos. within ML.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	Rs .5,000/-	Rs. 5,000/-
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	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	Carried out on half yearly basis and parameters are found within stipulated limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mine was working manually and impact on environment is negligible.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed after sizing and sorting.	ROM dispatch after manual sizing and sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting proposed.	Manual sorting of ROM.	
7c	Different grade of mineral sorted out at mines.	Proposed for all +35% CaO.	Cement grade Limestone dispatch reported during 2020-21.	
7d	Any beneficiation process at mines	No proposal	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	15,780 tonnes of Cement grade Limestone dispatched is reported from the mine during 2020-21.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	No top soil generation during 2020-21.	Top soil was earlier stacked along the 7.5m safety barrier zone for plantation.
8b	Concurrent use or storage of topsoil	Proposed for afforestation.	Nil	Top soil earlier used for plantation along the safety barrier zone.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Temporary dumping proposed for intercalated waste only.	No change	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit is not matured for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Apprx. 400 nos. saplings were planted within ML so far along the safety barrier, covering 0.25 Ha. area.	
8g	Survival rate	Not specified.	60 to 70%	

8h	Water sprinkling on roads to control airborne dust	Proposed.	Water tanker arrangement for water sprinkling on mine roads has been made.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area is good and impact on environment due to mining operation is very less due to small manual scale mining operation.

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 Feb. 2022 & A.R. Submitted up to 2020-2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Ganesh S. Lamani Information is furnished as nil in respect of Mining Engineer & Geologist.	Manager: Shri Ganesh S. Lamani Mining Engineer: Shri Girish Ballari. Geologist: Shri Yogesh M. Kutre.	Notices of appointments in respect of Mining Engineer & Geologist are submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 2.54 Ha. Infrastructure & Road: 0.02 Ha. (in Ha.)	Area under mining: 2.54 Ha. Infrastructure & Road: 0.02 Ha. (in Ha.)	
9d	Scrutiny of Annual return on afforestation	250 nos.	50 nos. within ML area and 200 nos. outside ML area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation during 2020-21	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore closing Stock of Cement grade Limestone: 22,588.86 tonnes	Actual was also same at that time. 15, 779.55 tonnes of Cement grade Limestone dispatched is reported form the mine during 2020-21.	Opening stock of Cement grade Limestone was 28,490.53 tonnes for F.Y. 2020-21.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Prices for Cement Grade Limestone: Rs. 435/tonne. Production Cost: Rs. 329.85/ tonne	Some of the invoices were checked during inspection and sale value given was found correct.	IBM registration nos. in respect of all Buyers/Consignee are not mentioned in the Annual Return of 2020-21 and submitted monthly returns up to the month of Jan-22. Violation of Rule 45(7) is issued dated 15.02.22.
9h	Scrutiny of Annual return on fixed assets	Net closing balance is furnished as Rs. 266,266/-	Net closing balance and estimated market value are mentioned in AR.	
9k	Scrutiny of Annual return on mining machineries	Jack Hammer: 1 no. Compressor: 1 no. Water Tanker: 1 no.	Jack Hammer: 1 no. Compressor: 1 no. Water Tanker: 1 no.	

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
MCDR17	Rule 27(1)	15-FEB-22			
MCDR17	Rule 35(2)	15-FEB-22			
MCDR17	Rule 45(7)(a)	15-FEB-22			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines