

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-56/GOA

Mine code : 38KAR26023

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/SHRI. V.R.MATHAD, LESSEE'S SON AND GANESH LAMBANI,
Official with
Designation
- (iv) Date of Inspection : 29-JUN-21
- (v) Prev.inspection date : 16-FEB-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAGANPUR (2357)**
- (b) **Registration NO.** : **IBM/864/2011**
- (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. : 08350-240563
- E-mail : rkt.rkm60@gmail.com
- Phone : 08350-240563
- (f) **Police Station** : Lokapur
- (g) **First opening date** : 03-JUL-02
- (h) **Weekly day of rest** : TUE
2. **Address for correspondance** : Naganapur Limestone mine of Shri R.K. Mathad
At-Lokapur---587122
Tq-Mudhol, Dist-- Bagalkot
3. (a) **Lease Number** : KAR1450
- (b) **Lease area** : 4.2
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 02-JUL-22
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : R.k.Mathad
 The Crescent Enterprises
 PO>:Lokapur,Tq.:Mudhol
 Distt.:Bagalkot. BAGALKOT
 KARNATAKA
 Phone:(08354) 40038
 FAX :

Owner : R.K.Mathad
 The Crescent Enterprises
 PO.:Lokapur,Tq.:Mudhol,
 Distt.:Bagalkot BAGALKOT
 KARNATAKA
 Phone: (08350) 240038
 FAX :

Mining Engineer

Name : GIRISH BELLARI,Part Time
 Qualification : B.Tech.(Mining), First Class Mine Mgr. C
 Appointment/ : 01-DEC-12
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18-JUN-02
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	12-APR-06
	:	Mining Scheme rule 12 MCDR1988	20-NOV-07
	:	Mining Scheme rule 12 MCDR1988	10-SEP-12
	:	MP modif under 17(3) MCR 2016	27-DEC-16

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 during 2020-21	
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed.	G1: 4.43 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		Total reserve: 1.078 million tonnes of Limestone (UNFC Cat. 111)	As on 01.04.2021
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 in 2016-17; total meterage drilled was 180m.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1788430 N to 1788460 N, E 537780 E to 538100 E	1788430 N to 1788460 N, E 537780 E to 538100 E	No change in location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore proposed.	Separate benches in OB and ore maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.11	Nil	No OB/Waste was removed during 2020-21.
2d	Quantity of topsoil generation in m3	No proposal	Nil	

2e	Quantity of overburden generation in m3	2221 m3	Nil	BD 2.5 tonne/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Waste is mainly consists of interstitial clay within Limestone bands (10% by volume). No waste generation is reported during 2020-21.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two nos. of pits proposed.	Two nos. of pits developed.	Dimension of pits Pit 1: 200m x 80m x 10m and Pit 2: 90m x 60m x 7m
3b	Quantity of ROM mineral production proposed	50,000 tonnes of Limestone	300 tonnes of Limestone in 2020-21.	Violation of rule 11(1) was issued to the lessee dated 14/07/21 for less production of Limestone.
3c	Recovery of sailable/usable mineral from ROM production	90% proposed	100%	No intercalated waste generation in 2020-21.
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	Mechanised mining proposed	Mechanised mining	

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	Hydraulic Shovel: 1 No. Tipper: 2 nos. Compressor: 2nos. Rock breaker: 1 no. Water Tanker: 1no.	Hydraulic Shovel: 1 No. Tipper: 1 no. Compressor: 1no. Rock breaker: 1 no. Water Tanker: 1no.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	4m bench height proposed.	Average 4m of bench height maintained	
3m	Total area covered under excavation/pits	2.83 Ha. at the end of F.Y. 2021-22.	2.14 Ha. so far.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	Nil	No OB generation in 2020-21.
3o	Total area put in use under different heads at the end of year	Area under mining: 2.83 Ha. Dump: 0.17 Ha. Infrastructure & Road: 0.28 Ha. Green belt: 1.15 Ha.	Area under mining: 2.14 Ha. Dump: 0.03 Ha. Infrastructure & Road: 0.27 Ha. Green belt: 1.5 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 50,000 2017-18: 50,000 2018-19: 50,000 2019-20: 50,000 2020-21: 50,000 (in tonnes)	2016-17: 50,000 2017-18: 38,050 2018-19: Nil 2019-20: 6,450 2020-21: 300 (in tonnes)	

3q	General remarks of inspecting officers on method of mining etc.	50,000 tonnes of Limestone ROM production has been proposed during F.Y. 2020-21, against which only 300 tonnes of Limestone ROM production has been reported. Violation of rule 11(1) was issued to the lessee dated 14/07/21 for less production of Limestone ROM.
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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)	Disposal of waste is proposed for strengthening of mine haul roads, safety bund construction and for temporary dumping.	No top soil and waste generated during 2020-21.	Waste was earlier utilized for strengthening of mine haul roads and for safety bund construction.
4b	Location of topsoil, OB and mineral reject dumps	Temporary waste dumping proposed at south western side of the ML area.	Nil during 2020-21	
4c	Number of dumps within lease area and outside of lease area	1no. of waste dump within ML	1 no. of small waste dump located at north-eastern side, near BP-4.	Constructed before 2017-18, extent 0.03 Ha. only.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed within UPL	Old dump was located within UPL	Proposed for re-handling and backfilling of mined out pit in conceptual stage.
4e	Number of active and alive dumps.	01 active dump	Nil	
4f	Number of dead dumps.	01 no.	01 no.	
4g	Number of dumps established.	No proposal	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	Yes proposed.	Retaining wall along the old dump was constructed.	Waste was earlier utilized for strengthening of mine haul roads and for safety bund construction as per proposal.
4i	Length of Retaining wall or garland drain all along dumps	200 m of retaining wall upto the end of F.Y. 2021-22.	Not applicable since temporary dumping was not started. 40m of retaining wall along the old dump was constructed.	
4j	Number of settling ponds	No proposal.	Nil	
4k	Specific comments of inspecting officer on waste dump management			Disposal of waste was proposed for strengthening of mine haul roads, safety bund construction and for temporary dumping. However, temporary dumping was not commenced since generated waste was earlier utilized for strengthening of mine haul roads as per proposal.

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 in 2020-21.	Earlier top soil was utilized for plantation purpose.

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.	Not submitted for F.Y. 2020-21 on or before 1st July, 2021.	Violation of rule 26(2) was issued to the lessee dated 14/07/21.
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	Cumulative area of 1.15 Ha. proposed.	So far 1.5 Ha. green belt developed.	
6d	No. of saplings planted during the year	50 nos.	50 nos. within ML planted.	
6e	Cumulative no .of plants	200 nos. up to 2020-21	Apprx. 300 nos. within ML.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs. 12,000/- per year	No change.	
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 to be carried out periodically.	Environmental monitoring was not found to be carried out periodically.	Violation of rule 11(1) was issued to the lessee dated 14/07/21.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Violations of rules 11(1) and 26(2) were issued to the lessee dated 14/07/21 for not carrying out regular environment monitoring and for non-submission of Annual Report on PMCP.

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 sizing and sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical sizing and sorting.	Mechanical sizing and sorting by crusher (20 TPH).	
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO.	No change.	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			992.19 tonnes of Cement grade Limestone dispatch reported from the mine during 2020-21.

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 utilized for plantation along the 7.5m safety barrier zone.
8b	Concurrent use or storage of topsoil	Proposed for afforestation.	Nil during 2020-21.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Temporary dumping proposed for OB/waste only.	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pits are not matured for backfilling.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed in conceptual stage.	Not applicable at present.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx. 300 nos. saplings were planted within ML so far. Total area covered under green belt 1.5 ha.	
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 around the mining area is good and impact on environment due to mining is less due to small scale of 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 July 2021 & A.R. Submitted up to 2020-2021	AR submitted on 04.08.2021.	Violation of rule 45(5)(c)(i) was issued to the lessee dated 14/07/21.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Manager: Sashidhar Y.M. Geologist: Nil	No Mining Engineer and Geologist were found appointed during the time of inspection.	Violation of rule 55(1) (3) was issued to the lessee dated 14/07/21.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining: 2.14 Infrastructure and Road: 0.269 Green Belt: 1.5 (in Ha.)	Area under Mining: 2.14 Ha. Dump: 0.03 Ha. Infrastructure & Road: 0.27 Ha. Green belt: 1.5 Ha.	

9d	Scrutiny of Annual return on afforestation	50 nos.	50 nos. along the safety barrier zone.
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 BF grade Limestone: 49.5 tonnes & Cement Grade Limestone: 6864.42 tonnes.	Actual was also same at that time as per mine dispatch register. 992.19 tonnes of Cement grade Limestone dispatch reported during 2020-21.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Price for Cement grade Limestone reported as: Rs. 720/tonne. Production Cost: Rs. 313.60/ tonne	Some of the invoices were checked during inspection and sale value given was found correct.
9h	Scrutiny of Annual return on fixed assets	Net closing balance is furnished as Rs. 50,000/-	Net closing balance and estimated market values are mentioned in AR.
9k	Scrutiny of Annual return on mining machineries	Hydraulic Shovel: 1 no. Tipper: 1 no. Compressor: 1no. Rock breaker: 1 no. Water Tanker: 1no.	No change.

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 11(1)	14-JUL-21			
MCDR17	Rule 26(2)	14-JUL-21			
MCDR17	Rule 35(2)	14-JUL-21			
MCDR17	Rule 45(5)(c)	14-JUL-21			
MCDR17	Rule 55(1)(3)	14-JUL-21			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines