

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-58/GOA

Mine code : 38KAR26025

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/SHRI. H.G.SHREEPADA, MINE OWNER & ARJUN KOLACHI, PE
Official with
Designation
- (iv) Date of Inspection : 29-JUN-21
- (v) Prev.inspection date : 13-MAR-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAGANPUR (ML 2358)**
- (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 : LOKAPUR
- Pin Code : 587122
- FAX No. :
- E-mail :
- Phone : 08350-240068
- (f) **Police Station** :
- (g) **First opening date** : 05-JUL-02
- (h) **Weekly day of rest** : TUE
2. **Address for correspondance** : Naganpur Limestone Mine of Shri H.G.Shripad
At-Naganapur, Tq- Mudhol
Dist- Bagalkot
3. (a) **Lease Number** : KAR1451
- (b) **Lease area** : 2.42
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 02-JUL-22
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : H. G. SHRIPAD
M/s Ashirwad Minerals
"Parimala", Vidyagiri,
Mahantesh Road, BAGALKOT
KARNATAKA
Phone:
FAX :

Owner : H.G.SHRIPAD
PARIMALA MAHANTESH
VIDAYAGIRI BAGALKOT
BAGALKOT KARNATAKA
Phone: 08354--233258
FAX : NIL

Mining Engineer

Name : MANJUNATH PRASAD, Full Time
Qualification : Dip. in Mining And Surveying
Appointment/ : 15-SEP-03
Termination date

Geologist

Name : Shri Suresh Khot, Part Time
Qualification : Msc Geology
Appointment/ : 01-AUG-14
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	06-FEB-06
		Mining Scheme rule 12 MCDR1988	20-NOV-07
		Mining Scheme rule 12 MCDR1988	10-SEP-12
		MP modif under 17(3) MCR 2016	06-APR-17
		MP modif under 17(3) MCR 2016	27-JAN-20

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 over the ML area.	G1: 2.43 Ha. G2: Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil during 2020-21	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	G1 achieved for entire ML area.	
1e	Balance reserve as on 01/04/20		Total Reserve: 1.1 million tonnes of Limestone (UNFC Cat. 111)	As on 01.04.2021
1f	General remarks of inspecting officers on geology, exploration etc			Entire ML area was explored by the lessee under G1 level by drilling with 4 nos. of core boreholes drilled in 2015 and 5 nos. of DTH boreholes drilled in 2019. Total meterage drilled was 250m.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1788330 N to 1788500 N, E 537550 E to 537650 E	1788330 N to 1788500 N, E 537550 E to 537650 E	No change in location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Separate benches in ore maintained.	
2c	Stripping ratio or ore to OB ratio	No OB handling proposal in 2020-21.	Nil since no OB generated during 2020-21	

2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	No proposal	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No proposal for waste removal/OB handling was proposed in 2020-21. Entire ML is mineralised; hence proposals are given for handling of Limestone ROM only.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed.	Single pit.	Dimension of pit: 160m x 120m x 25m.
3b	Quantity of ROM mineral production proposed	70,000 tonnes of Limestone ROM	44,500 tonnes of Limestone ROM	
3c	Recovery of sailable/usable mineral from ROM production	100% recovery of ROM proposed.	100% recovery of ROM.	
3d	Quantity of mineral reject generation	No proposal	Nil during 2020-21	
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 such proposals are given	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. Jack Hammers: 2 nos. Compressor: 2 nos. Water Tanker: 1 no.	Hydraulic Shovel: 1 No. Tipper: 1 no. Jack Hammers: 2 nos. 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	5m bench height proposed.	Average height 5m is maintained	
3m	Total area covered under excavation/pits	1.95 Ha. at the end of F.Y. 2021-22.	1.92 Ha. so far.	
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil	No OB generation during 2020-21.
3o	Total area put in use under different heads at the end of year	Area under mining: 1.95 Ha. Infrastructure s & Road: 0.3 Ha.	Area under mining: 1.92 Ha. Infrastructures & Road: 0.3 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 70,000 2017-18: 70,000 2018-19: 70,000 2019-20: 70,000 2020-21: 70,000 (in tonnes)	2016-17: 70,000 2017-18: 70,000 2018-19: 55,000 2019-20: 35,000 2020-21: 44,500 (in tonnes)	

3q	General remarks of inspecting officers on method of mining etc.	Production during 2020-21 was less w.r.t. proposal due to low market demand.
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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)	No proposal	Not applicable.	There are no separate waste dumps, top soil and mineral reject stocks within ML area.
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Not applicable	
4c	Number of dumps within lease area and outside of lease area	No proposal	No dump is located within or outside the 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	Not applicable.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable	
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		No proposal for waste removal/OB handling was proposed in 2020-21. Entire ML is mineralised; hence proposals are given for handling of Limestone ROM only.
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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)	No proposal	Nil	
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).	No proposal	So far 0.06 Ha. along the 7.5m safety barrier zone.
6d	No. of saplings planted during the year	50nos. proposed.	50 nos. planted at outside ML area during 2020-21.
6e	Cumulative no .of plants	Not specified.	Apprx. 200 nos. along the 7.5m safety barrier zone.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	Rs. 2,500/- during 2020-21	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.	Environmental monitoring is carried out periodically and parameters are found within stipulated limit	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Violation of rule 26(2) was issued to the lessee dated 14/07/21 due to 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 & grade wise 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.	
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO.	Cement and BF grade Limestone.	
7d	Any beneficiation process at mines	No proposal	Nil expect crushing and dry screening of ROM.	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM/ grade wise mineral being dispatched from the mine after sizing and sorting of ore. 23,700 tonnes of Cement grade Limestone and 50 tonnes of BF grade Limestone were dispatched 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)	No proposal	No top soil generation during 2020-21.	Top soil is not available in the ML area.
8b	Concurrent use or storage of topsoil	No proposal	Not applicable.	Top soil was earlier used for plantation along the safety barrier zone.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Not applicable.	
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)	Proposed during conceptual stage	Not applicable as of now.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx. 200 nos. along the 7.5m safety barrier zone.	There is no non-mineralized area is available within the lease hold area for afforestation, therefore 50 nos. of plantation was carried out outside the ML area during 2020-21
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 is less due to small 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 July 2021 & A.R. Submitted up to 2020-2021	AR for 2020-21 was submitted on 15.07.2021.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Arjun H. Kolachi. Information are furnished as Nil in respect of Mining Engineer and Geologist .	Manager: Shri Arjun H. Kolachi. 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: 1.93 Infrastructure and Road: 0.35 (in Ha.)	Area under mining: 1.92 Ha. Infrastructure & Road: 0.3 Ha.	

9d	Scrutiny of Annual return on afforestation	50 nos.	50 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 BF grade Limestone: 591.07 tonnes & Cement Grade Limestone: 21491.24 tonnes.	Actual was also same at that time as per mine dispatch register.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex- Mine Prices for BF grade Limestone and Cement Grade Limestone are reported as: Rs. 683/tonne & Rs. 384/tonne respectively. Production Cost: Rs. 293.60/ 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. 275,000/-	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. Jack Hammers: 2 nos. Compressor: 1 no. Water Tanker: 1 no.	No change

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 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