

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

MCDR inspection REPORT

Goa regional office

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

Mine code : 38KAR26051

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri S Balekai, Mine Mate.
Official with
Designation
- (iv) Date of Inspection : 03/08/2019
- (v) Prev.inspection date : 25/05/2017

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 : 01/01/2004
- (h) Weekly day of rest : SUN
2. Address for : At & Po-Lokapur
correspondance : Tq-Mudhol
Dist-Bagalkot, Karnataka
3. (a) Lease Number : KAR1376
- (b) Lease area : 2.56
- (c) Period of lease : 20
- (d) Date of Expiry : 28/09/2023
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 :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29/04/2003
Plan/Scheme of Mining		Modif.of approved Mining Plan	16/01/2008
		Mining Scheme rule 12 MCDR1988	13/02/2009
		Mining Scheme rule 12 MCDR1988	07/11/2013
		MP review under 17(1) MCR 2016	09/05/2018
		MP modif under 17(3) MCR 2016	18/09/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 Core boreholes are proposed during 2018-2019	Against proposal no boreholes are drilled during 2018-2019	Violation has been pointed out under Rule 11(1)
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1	Geological axis - 1	6 - Core boreholes were carried out in the lease area for Geological axis - 1, during previous scheme period with 180 meterage.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were used for Exploration in the past.	No Boreholes has been drilled during 2018-2019 against proposal	6 DDH with 180 meters has been drilled upto 2017-2018. Total expenditure towards exploration is 2.10 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed out at 100m X 100m grid interval.	Exploration was not carried out at 100m X 100m grid interval.	Entire area has been explored and under G-1. Additional 2 boreholes have proposed for to prove the contact zone.
1e	Balance reserve as on 01/04/20	As on 01.04.2019 Proved Mineral Reserves (111) = 252563 tons Feasibility Mineral Resources (211) = 155016 Tons.	As on 01.04.2019 Proved Mineral Reserves (111) = 254563 tons Feasibility Mineral Resources (211) = 155016 Tons.	It is proposed to produced 10000 tons of Limestone during 2018-2019 against that only 8000 have been achieved.

1f	General remarks of inspecting officers on geology, exploration etc	It is part of Kaladgi basin which belongs to Upper Cuddapag system	The deposit is litho unit of Lokapur sub group of Bagalkot group which belongs to Kaladgi Super group	Geologically the top most area is more disturbed by Murram with Limestone
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2018-2019 working proposal was in between section A-A' to D-D'	2018-2019, Working was carried out as per the proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal for separate benches in Topsoil & OB.	Benches are developed only in ore.	
2c	Stripping ratio or ore to OB ratio	1 : 0.04	1 : 0.04	
2d	Quantity of topsoil generation in m3	7 tons of Topsoil has proposed during 2018-2019	5 Tons of topsoil generation in 2018-2019	Topsoil has been utilized for planation.
2e	Quantity of overburden generation in m3	OB waste is only Intercalated waste. During 2018-2019 it is proposed 405 tons	250 tons of waste generation in 2018-2019	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 405 tons of intercalated waste for 2018-2019 for Limestone	250 tons of waste generation in 2018-2019 for Limestone	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Development and production was proposed in Pit-1.	Development and production are carried out in single pit.
3b	Quantity of ROM mineral production proposed	The total target of ROM Production was 10405 tons during 2018-2019. Processed ore is 10000 tons	ROM 8250 tons/ Processed ore 8000 tons
3c	Recovery of sailable/usable mineral from ROM production	96%	96%
3d	Quantity of mineral reject generation	There is no Mineral Reject generation	There is no Mineral Reject generation
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	No Sub Grade Generation
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	There is No Generation of Subgrade Mineral
3h	Manual / Mechanised method adopted for segregating from ROM	Manual Method	Manual Method
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Only Manual Picking of Ore from Intercalated Waste

3j	Provision of drilling and blasting in mineral benches	Spacing - 1.00m Burden - 0.900m Depth - 1.50m It is Proposed to drill by Jack Hammer and blasting by using Slurry & ANFO	As per proposal the Drilling & Blasting are done
3k	Provision of mining machineries in mineral benches	Jack Hammer - 2 Tracker Compressor - 1 Excavator - 1 Tractors - 1 Tippers - 2	As per proposal machineries are available
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2018-2019, Bench height of 5m was proposed in Mineral.	Bench height is from 3 to 5m
3m	Total area covered under excavation/pits	1.450 hect area is proposed for Pit during 2018-2019	1.435 hect areas are under Pit only.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.04	1 : 0.04
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2019. Mines = 1.450 hect Dump = 0.54 hect Safety Zone = 0.546 hect Road = 0.066 hect	Land use Pattern as on 01.04.2019. Mines = 1.435 hect Dump = 0.54 hect Safety Zone = 0.546 hect Road = 0.066 hect

3p	Production of ROM mineral during the last five year period as applicable	2018-2019 = 10000 tons 2017-2018 = 10000 tons 2016-2017 = 10000 tons 2015-2016 = 10000 tons 2014-2015 = 10000 tons	2018-2019 = 8000 tons 2017-2018 = 10000 tons 2016-2017 = 10000 tons 2015-2016 = 4000 tons 2014-2015 = 4500 tons
3q	General remarks of inspecting officers on method of mining etc.	Semi Mechanized Method	Semi Mechanized Method

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 Intercalated waste 2018-2019 as temporary dumping	No dumping has been done as per proposal	Violation has pointed out under Rule 11 (1)
4b	Location of topsoil, OB and mineral reject dumps	Temporary dumping has been proposed in Southern side of the lease area nearer to BP-1	No dumping has been done as per proposal	Violation has pointed out under Rule 11 (1)
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Non Lease area = Nil	Lease area = 1 Non Lease area = Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Inside UPL	Inside UPL as Temporary dumping	
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.	Toe wall and Garland drainage has been proposed along the dump	Against proposal no toe wall and garland drainage has been formed.	Violation has pointed out under Rule 11 (1)
4i	Length of Retaining wall or garland drain all along dumps	50m length of Toe wall and garland drainage has been proposed during 2018-2019 for dump area.	Against proposal no toe wall and garland drainage has been formed.	Violation has pointed out under Rule 11 (1)
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Temporary dumping has been proposed in Southern side of the lease area nearer to BP-1. 50m length of Toe wall and garland drainage has been proposed during 2018-2019 for dump area.	Nil	

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 for Back filling	No backfilling done	
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.	No Backfilling	The mine was not worked upto the proved depth and no backfilling was proposed.

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).	It should be submitted on or before 1st July every year.	Not Submitted for the year 2018-2019.	Violation has pointed out under Rule 26 (2)
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Proposed 0.05 hect in 2018-2019	0.05 hect achieved in 2018-2019	
6d	No. of saplings planted during the year	50 saplings proposed for 2018-2019	50 saplings achieved during 2018-2019	
6e	Cumulative no .of plants	300 nos proposed from 2013-2014 to 2018-2019	Cumulatively 190 nos achieved from 2013-2014 to 2018-2019	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	1.5 Lakhs	1.3 Lakhs	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	50 saplings proposed for 2018-2019	50 saplings achieved during 2018-2019
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.05 hect in 2018-2019	0.05 hect achieved in 2018-2019

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private agency.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	50 saplings proposed for 2018-2019	Cumulatively 190 nos achieved from 2013-2014 to 2018-2019	Lessee is conducting environmental monitoring and all are within permissible limit

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	10405/ ROM 10000/ Saleable Ore	8250/ ROM 8000/ Saleable Ore	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	CaO = +47% MgO = 0.5 - 1.5% SiO2 = 4.0 %	CaO = +47% MgO = 0.5 - 1.5% SiO2 = 4.0 %	
7d	Any beneficiation process at mines .	Manually sorting and sizing proposed	Manually sorting and sizing is being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Lessee is using all the ore by blending with high grade ore. As per buyers specification	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	7 tons of Topsoil has proposed during 2018-2019	5 Tons of topsoil generation in 2018-2019	Topsoil has been utilized for planation.
8b	Concurrent use or storage of topsoil	Concurrent Use	Concurrent Use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Temporary dumping has been proposed in Southern side of the lease area nearer to BP-1	No dumping has been done as per proposal	Violation has pointed out under Rule 11 (1)
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	It is proposed for Temporary dumping	Nil	
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)	50 saplings proposed per year	Lessee has planted 50 plants during 2018-2019 inside the lease area	Cumulatively 190 nos achieved from 2013-2014 to 2018-2019
8g	Survival rate	70%	75%	
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Daily Water tanker is spraying water on mines roads side to control airborne dust.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	Surrounding area beyond lease area is greenery
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = June 2019 AR Submitted up to = 2018-2019	Both Annual & Monthly returns are submitting in online system. Annual return for 2018-2019 has submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	No Mining Engineer, Geologist. Only Mines mate is working as Permit Manager	It is advised to appoint mining engineer/ Geologist. Violation has pointed out under Rule 55(1)(3)(iii)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2019. Mines = 1.435 hect Dump = 0.54 hect Safety Zone = 0.546 hect Road = 0.066 hect	Landuse Pattern is filled as per approved Mining Plan	
9d	Scrutiny of Annual return on afforestation	50 Plants has been proposed	Lessee has planted 50 saplings inside lease area during 2018-2019. With Survival Rate of 75%	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	There is no Mineral Rejects Generation	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	14585 tons has been stocked with BF Grade and 1901 tons in Cement Grade	Mine has produced 8000 Tons of Production during 2018-2019
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production & Ex. Mine Price has shown	Some invoice has been checked and matching
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled
9k	Scrutiny of Annual return on mining machineries	Machineries detail given	As available in field

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)	06/08/2019			
MCDR17	Rule 26(2)	06/08/2019			
MCDR17	Rule 33	06/08/2019			
MCDR17	Rule 35(2)	06/08/2019			
MCDR17	Rule 55(1)(3)	06/08/2019			

Date :

(G. S. KANNAN)

Indian Bureau of Mines