

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-72/GOA

Mine code : 38KAR26052

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri.V.R.B.Patil
Official with
Designation
- (iv) Date of Inspection : 17-DEC-18
- (v) Prev.inspection date : 27-MAY-14

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SHRI GURUDEV (ML 2407)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BAGALKOT
Village : JALIKATTI
Taluka : MUDHOL
Post office : LOKAPUR
Pin Code : 587122
FAX No. :
E-mail : atmanandminerals@gmail.com
Phone : 08350-340256
- (f) Police Station : LOKAPUR
- (g) First opening date : 18-JUL-03
- (h) Weekly day of rest : TUE
2. Address for : SHRI GURUDEV ATMANAND MINERALS
correspondance : At & po- Lokapur (Jalikatti)
Tq-Mudhol, Dist-Bagalkot-587122
3. (a) Lease Number : KAR1362
(b) Lease area : 4.88
(c) Period of lease : 20
(d) Date of Expiry : 24-JUN-23
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : VENKAPPA RAMAPPA B. PATIL
 At-Lokapur Po-Lokapur Tq-
 Mudhol BAGALKOT KARNATAKA
 Phone:08350-340256 (O)
 FAX :

Owner : V.R.B.PATIL, SHRI GURUDEV ATMANAND MINERALS
 At & Po-Lokapur tq-Mudhol
 BAGALKOT KARNATAKA
 Phone: 08350-240256
 FAX :

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	26-MAR-03
Plan/Scheme of Mining		Modif.of approved Mining Plan	19-SEP-05
		Mining Scheme rule 12 MCDR1988	05-NOV-09
		Modif.of approved Mining Plan	26-APR-10
		Mining Scheme rule 12 MCDR1988	07-NOV-13
		MP modif under 17(3) MCR 2016	15-MAR-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 DTH boreholes are proposed in previous Scheme period.	9 Core Boreholes has been drilled during previous scheme period 2017-2018	Form-I & J submitted
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1	Geological axis - 1	9 - Core boreholes were carried out in the lease area for Geological axis - 1, during previous scheme period with 365 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.	9 boreholes were drilled during 2017-2018. Total Rs. 4.85 lakhs was spent on exploration.	2 DTH and 9 DDH with 365 meters has been drilled upto 2017-2018. Total expenditure towards exploration is 4.85 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 carried out at 100m X 100m grid interval.	Entire area has been explored and under G-1.
1e	Balance reserve as on 01/04/20	As on 01.04.2018 Proved Mineral Reserves (111) = 2040852 tons Pre-Feasibility Mineral Resources (221) = 748211 Tons.	As on 01.04.2018 Proved Mineral Reserves (111) = 2040852 tons Pre-Feasibility Mineral Resources (221) = 748211 Tons. Inferred Mineral Resources (333) = 48763 Tons	Hence there is no mining activity from April 2018; R & R has not been changed.

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	During 2017-2018, there was proposal to work in between cross section BB'-DD'	Working has been carried out as per the proposal.	Mining plan has been modified from 2018-2019 to 2022-2023.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed separate benches in OB & Mineral.	Working has been carried out as per the proposal.	Mine is not Working from April 2018, for want of Statuary Clearances.
2c	Stripping ratio or ore to OB ratio	1 : 0.11	1 : 0.10	
2d	Quantity of topsoil generation in m3	No Proposal for 2017-2018	Nil, there is no topsoil generation	
2e	Quantity of overburden generation in m3	OB waste is only Intercalated waste. During 2017-2018 it is proposed 5555 m3 / 11111 tons	1002 Cu.m/ 2005 tons of waste have been achieved.	Development quantity is less against planned, as environmental clearance is yet to be obtained for increase in production capacity.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 11111 tons of intercalated waste from 2 benches	Achieved 2005 tons of intercalated waste from 1 benches	Mine is not Working from April 2018, for want of Statuary Clearances.

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 100003 tons during 2017-2018.	20000 tons of Limestone	Production quantity is less against planned, as environmental clearance is yet to be obtained for increase in production capacity.
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
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	Mechanised (A-OTFM)	Mechanised (A-OTFM)	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Benefication Study is Proposed	Only Manual Picking of Ore from Intercalated Waste	Crusher has been installed for sizing and screening of ore

3j	Provision of drilling and blasting in mineral benches	Spacing - 1.35m Burden - 1.20m Depth - 3.00m 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	Jack Hammer - 1 Tracker Compressor - 1 Tractors - 1 Tippers - 1	Mine is not Working from April 2018, for want of Statuary Clearances. No mining machineries were observed in mines during the day of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2017-2018, Bench height of 3m was proposed in Mineral.	Bench Height is more than proposal during 2017-2018.	In the approved mining plan (2018-2019 to 2022-2023) the bench height has been proposed for 6m
3m	Total area covered under excavation/pits	2.60 hect area is proposed for Pit during 2017-2018	2.50 hect areas are under Pit only.	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.11	1 : 0.10	
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2018. Mines = 2.60 hect Dump = 0.05 hect Mineral stock = 0.10 hect Infra = 0.04 hect Road = 0.12 hect Safety Zone = 0.82 hect	Land use Pattern as on 01.04.2018. Mines = 2.50 hect Dump = 0.05 hect Mineral stock = 0.10 hect Infra = 0.04 hect Road = 0.12 hect Safety Zone = 0.82 hect	

3p	Production of ROM mineral during the last five year period as applicable	2017-2018 = 100003 tons 2016-2017 = 100000 tons 2015-2016 = 100002 tons 2014-2015 = 100000 tons 2013-2014 = 100002 tons	2017-2018 = 20000 tons 2016-2017 = 19988 tons 2015-2016 = 19896 tons 2014-2015 = 19867 tons 2013-2014 = 8566 tons	Production quantity is less against planned, as environmental clearance is yet to be obtained for increase in production capacity.
3q	General remarks of inspecting officers on method of mining etc.	Mechanised (A-OTFM)		

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	Dumping has been not done as per proposal	Violation has pointed out under Rule 11 (1)
4b	Location of topsoil, OB and mineral reject dumps	Waste dump has been proposed in Northern side of the lease area	No Dumping in the proposed area due to non-working during 2018-2019	Mine is not Working from April 2018, for want of Statuary Clearances.
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)	Outside UPL	Outside UPL	Proposed for 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.	Formation of Bund has been proposed along the Lease boundary in 2018-2019	Bund has been not formed as per proposal	Mine is not Working from April 2018, for want of Statuary Clearances.
4i	Length of Retaining wall or garland drain all along dumps	106m Formation of Bund has been proposed during 2018-2019	Nil	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	Nil	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	No Backfilling	

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 on or before 1st July every year.	Submitted for the year 2017-2018	Submitted data are mismatching. So Violation has pointed out under Rule 26 (2)
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.02 hect	0.02 hect	
6d	No. of saplings planted during the year	50 saplings	50 saplings	
6e	Cumulative no .of plants	250 proposed from 2013-2014 to 2017-2018	820 saplings are planted from 2013-2014 to 2017-2018	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
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)Afforestati 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	Total 50 saplings were proposed during last year 2017-2018.	50 Saplings has been planted	820 plants has been planted during 2013-2018.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.02 hect	0.02 hect	
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.	Nil	Nil	

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	111114 tons ROM/ 100003 tons Saleable Ore	22000 tons ROM/ 20000 tons Saleable Ore	Production quantity is less against planned, as environmental clearance is yet to be obtained for increase in production capacity.
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)	There is proposal for separately remove and utilised of topsoil during 2018-2019	Topsoil generation is not there for 2018 - 2019.	Violation has pointed out under Rule 11 (1)
8b	Concurrent use or storage of topsoil	Storage	Nil	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed temporary dump for intercalated waste in the northern side of lease area.	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	At present there is no proposal for restoring.	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 per year	Lessee has planted 50 plants during 2017-2018	Cumulatively 820 plants has been planted during 2013-2018
8g	Survival rate	60%	60%	
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	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR Submitted up to = November 2018 AR Submitted up to = 2017-2018	Both Annual & Monthly returns are submitting in online system.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No Mining Engineer, Geologist	Only Mines mate is working as Permit Manager	It is advised to appoint mining engineer/ Geologist. Violation has been issued under Rule 55(1)(3)(iii)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining = 3.05Hect Dump = 0.123 Hect Safety Zone = 0.60 Hect	Land use pattern are not as per approved Review of Mining plan. Area under pit 2.50 hect.	
9d	Scrutiny of Annual return on afforestation	Lessee has planted 50 saplings during 2017-2018	Lessee has planted 50 saplings during 2017-2018	
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	2435 tons of BF Grade and 10944 tons of cement grade has been stocked	Mine has produced 20000 tons of Production during 2017-2018.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production Rs.306/- per tons	Nil	
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled Properly	

9k Scrutiny of Machineries As available in field
Annual return on details given
mining
machineries

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)	01-JAN-19			
MCDR17	Rule 26(2)	01-JAN-19			
MCDR17	Rule 33	01-JAN-19			
MCDR17	Rule 45(5) (k	01-JAN-19			
MCDR17	Rule 55(1) (3)	01-JAN-19			

Date :

(G. S. KANNAN)

Indian Bureau of Mines