

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BGM/LST-20/GOA

Mine code : 38KAR02026

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri R.S.Joshi, Lessee's representative.
Official with
Designation
- (iv) Date of Inspection : 31/07/2019
- (v) Prev.inspection date : 24/08/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAMAKERI (ML2438)**
- (b) **Registration NO.** : **IBM/539/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELGAUM
Village : KAMAKEERI
Taluka : RAMDURG
Post office : KAMKERI
Pin Code :
FAX No. : 08350-240171
E-mail : sudhaminerals@gmail.com
Phone : 08350-240171
- (f) Police Station : Lokapur
- (g) First opening date : 08/03/2004
- (h) Weekly day of rest : TUE
2. Address for : M/s Sudha Minerals
correspondance : At-Kamakeri, Tq- Ramadurg
Dist-Belgaum, Karnataka
3. (a) Lease Number : KAR1385
- (b) Lease area : 4.08
- (c) Period of lease : 20
- (d) Date of Expiry : 16/01/2024
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : RAMANNA SIDDAPPA PUJARI
 POST - JADAR ARLIKATTI,
 TALUKA - MUDHOL, DISTRICT -
 BAGALKOT BAGALKOT KARNATAKA
 Phone:08350-340407

FAX :

Owner : RAMANNA S. PUJARI
 M/s Sudha Minerals Mudhol
 Road, At & Po-Lokapur Tq-
 Mudhol, Dist-Bagalkot
 BAGALKOT KARNATAKA
 Phone: 08350-240407 (R

FAX :

Geologist

Name : A.Shivram,Part Time

Qualification : Msc, Geology

Appointment/ : 01/07/2016

Termination date

Manager

Name : Shri Gopal Pujari

Qualification : Mine Mate certificate holder

Appointment/ : 25/11/2011

Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	30/10/2003
Plan/Scheme of Mining		Modif.of approved Mining Plan	03/01/2006
		Modif.of approved Mining Plan	20/11/2007
		Mining Scheme rule 12 MCDR1988	19/08/2008
		Mining Scheme rule 12 MCDR1988	22/01/2014
		MP modif under 17(3) MCR 2016	20/02/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2 Core Borehole Proposed in for the year 2018-2019.	No Boreholes has drilled	Violation has pointed out under Rule 11(1)
1b	Exploration over lease area for geological axis 1 or 2	2.52 hectares under G- 1, 0.60 hectares under G-2 and 1.00 hectares unexplored	2.10 hectares under G- 1, 0.60 hectares under G-2 and 1.42 hectares unexplored	6 - Core boreholes were drilled in the lease area for Geological axis - 1, during Previous scheme period.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	1 Lakhs	Nil	6 DDH with 120 meters has been drilled upto 2017-2018. Total expenditure towards exploration is 1.80 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.60 hectares under G-2 and 1.00 hectares unexplored	0.60 hectares under G-2 and 1.42 hectares unexplored	Exploration was carried out at 100m X 100m grid interval. 2 boreholes are proposed for 2018-2019 to convert unexplored area to G-1
1e	Balance reserve as on 01/04/20	As on 01.04.2019 Proved Mineral Reserves (111) = 222973 tons Feasibility Mineral Resources (211) = 245621 Tons.	As on 01.04.2019 Proved Mineral Reserves (111) = 252909 tons Feasibility Mineral Resources (211) = 245621 Tons.	

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	Entire Lease is having same Geology and Mineralogy is changes from place to place. Hence borehole has to be drilled at closer interval to get quantity and quality and to find contact zone of Limestone & Dolomite
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During 2018-2019, there was proposal to work in between Sections B-B' & C-C'	Working has been not carried out as per the proposal.	Violation has pointed out under Rule 11(1)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed separate benches in OB & Mineral. Topsoil bench is 0.50m height and Limestone Bench is 3m height	Working has been not carried out as per the proposal.	Violation has pointed out under Rule 11(1)
2c	Stripping ratio or ore to OB ratio	1 : 0.05	1 : 0.05	
2d	Quantity of topsoil generation in m3	No top soil has been Proposal	Nil, there is no topsoil generation	

2e	Quantity of overburden generation in m3	OB waste is only Intercalated waste. During 2018-2019 it is proposed 2628 tons	1000 tons of waste has been achieved.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 2628 tons of intercalated waste from 2 benches	Achieved 1000 tons of intercalated waste.	Basic Field observation are 0.1 to 0.5m Topsoil, upto 9m work out pit for Limestone, Simultaneously Dolomite also in limestone pit

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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 52564 tons during 2018-2019.	21000 tons of ROM Limestone	
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	
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	Manual
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 - 0.90m Depth - 1.50m It is Proposed to drill by Jack Hammer and blasting by using Slurry & ANFO	Spacing - 1.00m Burden - 0.90m Depth - 1.50m As per proposal the Drilling & Blasting are done
3k	Provision of mining machineries in mineral benches	Jack Hammer - 2 Tracker Compressor - 1 Tippers - 3 Water tanker - 1	Jack Hammer - 2 Tracker Compressor - 1 Tippers - 3 Water tanker - 1
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 3m was proposed in Mineral.	Bench Height 3 - 4 m.
3m	Total area covered under excavation/pits	2.10 hect area is proposed for Pit during 2018-2019	1.950 hect areas are under Pit only.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.05

3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2019. Mines = 2.10 hect Office = 0.10 hect Road = 0.20 hect Green Belt = 0.90 hect	Land use Pattern as on 01.04.2019. Mines = 1.950 hect Office = 0.10 hect Road = 0.20 hect Green Belt = 0.90 hect
3p	Production of ROM mineral during the last five year period as applicable	2018-2019 = 52564 tons 2017-2018 = 24995 tons 2016-2017 = 25014 tons 2015-2016 = 25013 tons 2014-2015 = 24997 tons	2018-2019 = 21000 tons 2017-2018 = 24990 tons 2016-2017 = 12200 tons 2015-2016 = 8600 tons 2014-2015 = 11900 tons
3q	General remarks of inspecting officers on method of mining etc.	Manual Mining	Manual Mining

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	As per proposal waste has utilized for road maintenances.	
4b	Location of topsoil, OB and mineral reject dumps	No Proposal	Nil	Waste materials has proposed for utilized for road maintained
4c	Number of dumps within lease area and outside of lease area	Lease area = Nil Non Lease area = Nil	Lease area = Nil Non Lease area = Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil
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	Bund has formed as per proposal
4i	Length of Retaining wall or garland drain all along dumps	Formation of Bund has been proposed along the Lease boundary	Bund has formed as per proposal
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Waste materials are used for strengthen the road and 7.5m safety barrier

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).	0.05 hect	0.05 hect	
6d	No. of saplings planted during the year	Total 100 saplings were proposed during last year 2018-2019.	Lessee has planted 100 saplings inside lease area during 2018-2019.	
6e	Cumulative no .of plants	350 saplings from 2013-2019	350 saplings from 2013-2019	350 plants has been planted inside the lease area from 2013-2019 (250 plants upto 2013-2018, 100 plants on 2018-2019)
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	0.96 Lakhs	1.25 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	Total 100 saplings were proposed during last year 2018-2019.	Lessee has planted 100 saplings inside lease area during 2018-2019.	Cumulatively 350 plants has been planted inside the lease area from 2013-2019 (250 plants upto 2013-2018, 100 plants on 2018-2019)

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.05 hect	0.05 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	Plantation is made along the 7.5m safety zone and lessee is taking care of plantation by regular monitoring

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	52564 tons ROM/ 49936 tons Saleable Ore	21000 tons ROM/ 20000 tons 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% Sio2= - 4% Mgo = 0.5-5.5%	Cao = +47% Sio2= - 4% Mgo = 0.5-5.5%	
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	Crusher has been installed for sizing and screening of ore
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is No proposal for separately remove and utilised of topsoil	Nil, Topsoil generation is not there for 2018 - 2019.	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Nil	Waste materials has proposed for utilized for road maintained
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)	100 saplings per year	Lessee has planted 100 plants during 2018-2019 inside the lease area	Cumulatively 350 plants has been planted inside the lease area from 2013-2019 (250 plants upto 2013-2018, 100 plants on 2018-2019)
8g	Survival rate	80%	80%	
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
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.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer has been not appointed. Part time Geologist is appointed.	Only Mines mate is working as Permit Manager	It is advised to appoint mining engineer. Violation has been issued under Rule 55(1)(3)(iv)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining = 1.950 Hect Office = 0.10 hect Road = 0.20 hect	Landuse Pattern is filled as per approved Mining Plan	

9d	Scrutiny of Annual return on afforestation	100 Plants has been proposed	Lessee has planted 100 saplings inside lease area during 2018-2019. With Survival Rate of 80%
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	1505 tons has been stocked with Cao=+47% Grade.	Mine has produced 20000 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	Air compressor are shown	Manual Mining no mining machineries are observed.

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		21/08/2019	
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