# INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### MCDR inspection REPORT

#### Goa regional office

Mine file No : KNT/BJP.LST-65/GOA Mine code : 38KAR26045

(i) Name of the Inspecting : KQ3 ) G. S. KANNAN

Officer and ID No.

(ii) Designation : Junior Mining Geologist

(iii) Accompaning mine : Shri.S.R.Mathod, Lessee

Official with Designation

(iv) Date of Inspection : 17-OCT-18
(v) Prev.inspection date : 25-APR-14

PART-I : GENERAL INFORMATION

1. (a) Mine Name : LOKAPUR (9 AC 5 GU)ML2405

(b) Registration NO. :

(c) Category : B Manual
(d) Type of Working : Opencast

(e) Postal address

State : KARNATAKA
District : BAGALKOT
Village : LOKAPUR
Taluka : MUDHOL
Post office : LOKAPUR
Pin Code : 587122

FAX No. : 08350-240563

E-mail : rkt.rkm60@yahoo.com

Phone : 08350-340038

(f) Police Station : Lokapur
(g) First opening date : 18-JUN-03

(h) Weekly day of rest : TUE

2. Address for : Shri S.R.Mathad

correspondance At and po-Lokapur-587122

Tq-Mudhol, Dist-Bagalkot

3. (a) Lease Number : KAR1360
(b) Lease area : 3.69
(c) Period of lease : 20

(d) Date of Expiry : 01-JUN-23

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : SURESH RUDRAIAH MATHAD

P.O. LOKAPUR TALUKA-MUDHOL DISTRICT-BAGALKOT BAGALKOT

KARNATAKA

Phone: 08350-340038

FAX :

: S.R.MATHAD Owner

> At Po-Lokapur Tq-Mudhol BAGALKOT KARNATAKA Phone: 08350-340038

FAX :

MP review under 17(1) MCR 2016 25-JAN-18	6.	Date of approval of Mining Plan/Scheme of Mining	÷	Fresh under rule 22 MCR1960 Modif.of approved Mining Plan Modif.of approved Mining Plan Mining Scheme rule 12 MCDR1988 Mining Scheme rule 12 MCDR1988 MP review under 17(1) MCR 2016	28-APR-03 12-APR-06 20-NOV-07 27-JAN-10 24-SEP-13 25-JAN-18
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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

### Exploration:

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	6 Core Boreholes has been drilled during previous scheme period	
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1	Geological axis - 1	6 - Core boreholes was carried out in the lease area for Geological axis - 1, during previous scheme period
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	3 DTH with 90 meters and 6 DDH with 165 meters has been drilled upto 2017-2018. Total expenditure towards exploration is 2.5 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	Exploration was carried out at 100m X 100m grid interval. Entire area has been explored and under G-2.
1e	Balance reserve as on 01/04/20	As on 01.04.2018 Proved Mineral Reserves (111) = 1088575 tons Pre- Feasibility Mineral Resources (221) = 935400 Tons.	As on 01.04.2018  Proved Mineral Reserves (111) = 1088575 tons  Pre-Feasibility Mineral  Resources (221) = 935400  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

# 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 AA'- CC'	Working has been carried out as per the proposal.	Mine is not Working from April 2018, for want of Statuary Clearances.
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: 0.05	1 : 0.23	
2d	Quantity of topsoil generation in m3	No Proposal	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 3250 tons	9500 tons of waste has been achieved.	Due to Morrum bands, the intercalated waste has been excess than proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 3250 tons of intercalated waste from 2 benches	Achieved 9500 tons of intercalated waste from 2 benches	Mine is not Working from April 2018, for want of Statuary Clearances.

# Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	-	Development and production are carried out in single pit.	
3b	Quantity of ROM mineral production proposed	The total target of ROM Production was 68253 tons during 2017- 2018.	44140 tons of 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.	reject- No Proposal.	Mineral reject- No Proposal. Threhold 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 Benefication Study is Proposed	Only Manual Picking of Ore from Intercalated Waste
3j	Provision of drilling and blasting in mineral benches	Spacing - 0.80m Burden - 0.70m Depth - 1.50m It is Proposed to drill by Jack Hammer	As per proposal the Drilling & Blasting are done

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3k
  Provision of
                     Jack Hammer - Jack Hammer - 1
    mining
                                    Tracker Compressor - 1
    machineries in Tracker
                                    Tractors - 4
    mineral benches Compressor - 1 Tippers - 1
                     Tractors - 4
                     Tippers - 1
31
  Whether height
                     Bench height
                                    Bench Height is more
    of benches in
                     of 3m was
                                    than proposal.
                   proposed in
    overburden and
    mineral suitable Mineral.
    for method of
    mining proposed
    in MP/SOM
3m
   Total area
                     2.80 hect area 2.50 hect areas are
    covered under
                     is proposed
                                    under Pit only.
    excavation/pits for Pit during
                     2017-2018
3n
  Ore to OB ratio 1:0.05
                                    1:0.23
    for the pit/mine
    during the year.
   Total area put
                   Land use
                                    Land use Pattern as on
30
                    Pattern as on 01.04.2018.
    in use under
    different heads 01.04.2018. Mines = 2.80 hect
                     Mines = 2.80 Infra = 0.010 hect
    at the end of
                                    Road = 0.010 hect
    year
                     hect
                     Infra = 0.010 Green Belt = 0.188 hec
                     hect
                     Road = 0.010
                     hect
                     Green Belt =
                     0.185 hec
3р
   Production of
                     2017-2018 =
                                    2017-2018 = 44140 \text{ tons}
                                    2016-2017 = 58998 tons
    ROM mineral
                     65003 tons
    during the last 2016-2017 =
                                    2015-2016 = 58998 tons
    five year period 58913 tons
                                    2014-2015 = 35800 tons
    as applicable
                     2015-2016 =
                                    2013-2014 = 19000 tons
                     58998 tons
                     2014 - 2015 =
                     60763 tons
                     2013-2014 =
                     46828 tons
3g General remarks Manual Mining Manual Mining
    of inspecting
    officers on
    method of mining
     etc.
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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)	Proposed for Intercalated waste	Dumping has been done as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	Proposed to dump along the lease boundary within 7.5m safety barrier		
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	
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	of Bund has	Achieved along the lease boundary	
4 ј	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Nil	Nil	

## Solid Waste Management - Backfilling:

SI.No. Item Propasals Actual work Remarks		Item		Actual work	
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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.	Not Submitted for the year 2017-2018	Violation has pointed out under Rule 26 (2)
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Total 50 saplings were proposed during last year 2017-2018.	50 Saplings has been planted	280 plants has been planted during 2013-2018 in 0.188 hect

6e	Cumulative no .of plants	Total 50 saplings were proposed during last year 2017-2018.	50 Saplings has been planted	280 plants has been planted during 2013-2018 in 0.188 hect
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	0.60 Lakhs	0.70 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) Afforestati on on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
61	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	280 plants has been planted during 2013-2018 in 0.188 hect
бn	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.037 hect	0.037 hect	
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposal	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:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	68253 tons ROM/ 65003 tons Saleable Ore	53640 tons ROM/ 44140 tons Saleable Ore	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual	

7с		51%	Cao = $+40 - 51\%$ Mgo = $3.0 - 5.0\%$ Sio2 = $4.0 - 12.0\%$
7d	Any beneficiation process at mines .	_	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)	proposal for	Nil, Topsoil generation is not there for 2017 - 2018.	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed Safety bund for intercalated waste along the 7.5m safety zone along the lease boundary.	Safety Bund has been formed	

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 280 plants has been planted during 2013-2018 in 0.188 hect
8g	Survival rate	80%	80%	
8h	on roads to	sprinkling Yes, it is Daily Water tan ads to proposed for spraying water ol airborne water roads side to c sprinkling on haul roads.		
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	Monthly and	up to = August	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.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	2.500Hect Office = 0.020 Hect	Land use pattern 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	Cumulatively 280 plants has been planted during 2013-2018
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		±	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production Rs.292/- per tons	Nil	
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled Properly	
9k	Scrutiny of Annual return on mining machineries	Machineries details given	As available in field	

# Details of violations observed during current inspection and compliance position of violation pointed out $\ensuremath{\mathsf{C}}$

Violation observed				Show couse position		
Rule 1	NO.	Issued on	Compliance o	n Rule	NO.	Issued on Compliance on
MCDR17	Rule 11(1)	02-NOV-18				
MCDR17	Rule 26(2)	02-NOV-18				
MCDR17	Rule 28(1)	02-NOV-18				
MCDR17	Rule 33	02-NOV-18				

Date: (G. S. KANNAN)

Indian Bureau of Mines