

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-88/GOA

Mine code : 38KAR26069

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri. L.S.Hiremath, Lessee
Official with
Designation
- (iv) Date of Inspection : 30/07/2019
- (v) Prev.inspection date : 16/10/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHIKKALAGUNDI (2574)**
- (b) **Registration NO.** : **IBM/5355/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BAGALKOT
Village : CHIKKALGUNDI
Taluka : BILAGI
Post office : CHIKKALGUNDI
Pin Code :
FAX No. :
E-mail : bm2574@gmail.com
Phone : 9972090609
- (f) Police Station : Biligi
- (g) First opening date : 05/03/2008
- (h) Weekly day of rest : FRI
2. Address for : SHRI L.S.HIREMATH
correspondance : GANIGARA GALLI
AT & PO-LOKAPUR-587122, TQ-MUDHOL, DIST-BAGALKOT
3. (a) Lease Number : KAR1583
- (b) Lease area : 4
- (c) Period of lease : 20
- (d) Date of Expiry : 03/02/2028
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : LINGANAND S HIREMATH
GANIGARA GALLI LOKAPUR TQ-
MUDHOL BAGALKOT KARNATAKA
Phone:9448225799
FAX :

Owner : LINGANAND S HIREMATH
GANIGARA GALLI AT & PO-
LOKAPUR TQ-MUDHOL BAGALKOT
KARNATAKA
Phone:
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29/01/2007
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	10/04/2012
	:	MP modif under 17(3) MCR 2016	06/02/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	3 Core Borehole Proposed in Previous Scheme period.	4 DDH has drilled with 120m during 2016-2017	
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1	Geological axis - 1	4 - Core boreholes were drilled in the lease area for Geological axis - 1, during Previous scheme period. Entire lease area 1.62 Hectares has explored under G-1.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	4 DDH with 120 meters has been drilled upto 2016-2017. Total expenditure towards exploration is 1.5 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-1.
1e	Balance reserve as on 01/04/20	As on 01.04.2019 Proved Mineral Reserves (111) = 396495 tons Pre-Feasibility Mineral Resources (221) = 590612 Tons.	As on 01.04.2019 Proved Mineral Reserves (111) = 412945 tons Pre-Feasibility Mineral Resources (221) = 590612 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	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 2018-2019, there was proposal to work in between Section A-A' to C-C'	Development is at the proposed area	
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 carried out as per the proposal.	
2c	Stripping ratio or ore to OB ratio	1 : 0.10	1 : 0.10	
2d	Quantity of topsoil generation in m3	No topsoil has been Proposed	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 2222 tons	1084 tons of waste has been achieved.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 2222 tons of intercalated waste from 1 benches	Achieved 1084 tons of intercalated waste.	

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 20000 tons during 2018-2019.	10840 tons of Limestone	
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	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 - 0.90m Burden - 1.0m Depth - 1.50m It is Proposed to drill by Jack Hammer and blasting by using Slurry & ANFO	Spacing - 0.90m Burden - 1.0m Depth - 1.50m As per proposal the Drilling & Blasting are done
3k	Provision of mining machineries in mineral benches	Jack Hammer - 1 Tracker Compressor - 1 Tippers - 2 Water tanker - 1	Jack Hammer - 1 Tracker Compressor - 1 Tippers - 2 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	1.00 hect area is proposed for Pit during 2018-2019	1.00 hect areas are under Pit only.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.10	1 : 0.10
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2019. Mines = 1.00 hect Dump = 0.10 hect Road = 0.01 hect Green Belt = 0.34 hect	Land use Pattern as on 01.04.2019. Mines = 1.00 hect Dump = 0.10 hect Road = 0.01 hect Green Belt = 0.34 hect

3p	Production of ROM mineral during the last five year period as applicable	2018-2019 = 22222 tons 2017-2018 = 22222 tons 2016-2017 = 22222 tons 2015-2016 = 22222 tons 2014-2015 = 22222 tons	2018-2019 = 11924 tons 2017-2018 = 12710 tons 2016-2017 = 6667 tons 2015-2016 = 10610 tons 2014-2015 = 9935 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	Dumping has been done as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	E-547514-547577/ N-1797043-1797076	Dumping has been in proposed area during 2018-2019	
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)	Within UPL	Within 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.	Parapet wall and Garland drainage has been proposed	Garland drainage & Terracing wall has been formed as per proposal
4i	Length of Retaining wall or garland drain all along dumps	30m parapet wall and garland drainage has been proposed	Garland drainage & Terracing wall has been constructed
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	Parapet wall and Garland drainage has been proposed	Garland drainage & Terracing wall has been constructed along lease boundary

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	Backfilling has done on existing pit on Eastern side of lease area	Violation has pointed out under Rule 11 (1)
5b	Area under backfilling of mined out area	No Proposal	Backfilling has done on safety barrier	
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	Backfilling has done on existing pit on Eastern side of lease area	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	The mine was not worked upto the proved depth and no backfilling was proposed	Backfilling has done on existing pit on Eastern side of lease area	Violation has pointed out under Rule 11 (1)

 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 2018-2019	Violation has pointed out under Rule 26 (2)
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Proposed 0.02 hect in 2018-2019	0.03 hect achieved in 2018-2019	
6d	No. of saplings planted during the year	50 saplings for 2018-2019	130 saplings achieved during 2018-2019	
6e	Cumulative no .of plants	50 nos proposed on 2018-2019	130 nos achieved on 2018-2019	520 plants has been planted inside the lease area (270 plants upto 2016-2017, 250 plants on 2017-2018 & 2018-2019)
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	0.25 Lakhs	0.35 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 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 2018-2019.	Lessee has planted 130 saplings inside lease area and 30 outside lease area during 2018-2019.	520 plants has been planted inside the lease area (270 plants upto 2016-2017, 250 plants on 2017-2018 & 2018-2019)
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.02 hect	0.03 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.	50 saplings proposed for 2018-2019	Cumulatively 520 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	22222 tons ROM/ 20000 tons Saleable Ore	11924 tons ROM/ 10840 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 = +40 - 43% Mgo = 5 - 6% Sio2 = 7 -10%	Cao = +40 - 43% Mgo = 5 - 6% Sio2 = 7 -10%	
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
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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)	One Dump for OB	Dump has been formed as per proposal	
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.	Backfilling has done on existing pit on Eastern side of lease area	Violation has pointed out under Rule 11 (1)
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 130 plants during 2018-2019 inside the lease area	Cumulatively 520 plants has been planted
8g	Survival rate	80%	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
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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.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer/ Mining Geologist has been not appointed	Only Mines mate is working as Permit Manager	It is advised to appoint mining engineer/ Mining Geologist. 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 = 0.90 Hect Dump = 0.021 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 130 saplings inside lease area and 30 outside lease area during 2018-2019. With Survival Rate of 60%	
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	19906 tons has been stocked with Cao=+50% Grade.	Mine has produced 10840 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 details are nil	Manual Mining no mining machineries are used.

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

Date :

(G. S. KANNAN)

Indian Bureau of Mines