

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

MCDR INSPECTION REPORT

Goa regional office

Mine file No : KNT/BGM/LST-26/GOA

Mine code : 38KAR02032

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri.M.S.Chekkennavar, Mines Owner
Official with
Designation
- (iv) Date of Inspection : 05/09/2016
- (v) Prev.inspection date : 19/09/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **YADWAD LIMESTONE MINE (M.**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : BELGAUM
Village : Yadwat
Taluka :
Post office : Yadwat
Pin Code : 591136
FAX No. : 08334 279687
E-mail : chekkennavarminerals@gmail
Phone : 9449248221
- (f) Police Station : YADWAD
- (g) First opening date : 23/04/2010
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE & P.O YADWAD
correspondance TQ: GOKAK
DIST: BELGAUM
3. (a) Lease Number : KAR1591
(b) Lease area : 4.85
(c) Period of lease : 20
(d) Date of Expiry : 14/01/2030
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : CHEKKENAVAR MINERALS
AT & P.O. YADWAD, TQ: GOKAK
BELGAUM KARNATAKA
Phone:
FAX :

Owner : SHRI MALLAPPA S.CHEKKENAVAR
M/S CHEKKENAVAR MINERALS AT
&P.O. YADWAD,TQ:GOKAK DIST:
BELGAUM BELGAUM KARNATAKA
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 07/07/2008
Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 08/06/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 Core Borehole with 180m in 2015-2016	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-2	No Drilling has Carried out
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Private Consultancy	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire Lease area	Nil	
1e	Balance reserve as on 01/04/20	As on 01/04/2016 111 = 294840 Tons 331 = 216140 Tons 333 = 1038303 Tons	As on 01/04/2016 111 = 313051Tons 331 = 216140 Tons 333 = 1038303 Tons	
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Geological the are is more disturbed with clay. Additional Exploration is need to find the Quality & Quantity of Ore body.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1794204-1795284 E-521254-521527	N-1795180-1795200 E-521400-521500	Southern side of the Working Pit
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Two benches for Minerals	Only sinlge bench with 4-6m height	

2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.19
2d	Quantity of topsoil generation in m3	4212 tons	3000 tons
2e	Quantity of overburden generation in m3	2122 tons	3214 tons
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Deposit is more complex in first bench with intermix of clay and ore.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Pits	2 Pits	Actually 3 pit are present, 2 pits has merged to single pit.
3b	Quantity of ROM mineral production proposed	29711 tons	16500 tons	
3c	Recovery of sailable/usable mineral from ROM production	90%	80%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	1486 tons	Nil	
3g	Grade of sub grade mineral generation	+35% -40% CaO	Nil	

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.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Spacing= 1.5m Depth = 1.5m Spacing = 1.5m	Spacing= 1.5m Depth = 1.5m Spacing = 1.5m
3k	Provision of mining machineries in mineral benches	Jack Hammer, Compressor, Tractor Trailer	Jack Hammer, Compressor, Tractor Trailer
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m height	4-6m height
3m	Total area covered under excavation/pits	1 hect	1 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.19
3o	Total area put in use under different heads at the end of year	As on 01/04/2016 Area under Mining = 1.0 hect Topsoil Storage = 0.15 hect OB Dump = 0.08 hect Mineral Storage = 0.23 hect Mines Road = 0.02 hect Afforestation = 0.21 hect	As on 01/04/2016 Area under Mining = 1.0 hect Topsoil Storage = 0.15 hect OB Dump = 0.20 hect Mines Road = 0.02 hect Afforestation = 0.21 hect

3p	Production of ROM mineral during the last five year period as applicable	2015-2016 = 29711 tons 2014-2015 = 35288 tons 2013-2014 = 30744 tons 2012-2013 = 29232 tons 2011-2012 = 25200 tons	2015-2016 = 16500 tons 2014-2015 = 11500 tons 2013-2014 = 20000 tons 2012-2013 = 16417 tons 2011-2012 = 7098 tons
3q	General remarks of inspecting officers on method of mining etc.	Manual Method of Mining	Manual Method of Mining

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate Dumping is proposed for Topsoil, OB, Mineral Rejects	Topsoil, OB, Mineral Rejects are seperately dumped	
4b	Location of topsoil, OB and mineral reject dumps	Topsoil on Eastern Side of the Lease area OB will be dumped as Saftey Barrier all along Lease boundary	Topsoil on Eastern Side of the Lease area OB formed as Saftey Barrier all along Lease boundary	
4c	Number of dumps within lease area and outside of lease area	Within Lease area: Topsoil , OB, Subgrade Mineral - Single Dump individually	Within Lease area: Topsoil , OB, Subgrade Mineral - Single Dump individually	There is no Dump outside the Lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB Dump proposed outside the UPL	OB Dump is outside the UPL	

4e	Number of active and alive dumps.	Active Dump - One Alive Dump - One	Active Dump - One Alive Dump - One
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	2011-2012	2011-2012
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed for the Length of 125m/- year	As per proposed achieved
4i	Length of Retaining wall or garland drain all along dumps	Proposed for the Length of 125m/- year	Achieved
4j	Number of settling ponds	Nil	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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	

5d	Total area fully reclaimed and rehabilitated	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Nil

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).	To be Submit with 30th July of every year	Not Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.09 hect	0.10 hect	
6d	No. of saplings planted during the year	50/- year	30 Planted	
6e	Cumulative no .of plants	500 from Opening of Mines	280 so far planted	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	25000/- year	15000/-	
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	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
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 has been carried out	Bi-annually survey has been carried out
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	29711 Tons Grade + 45%	16500 Tons Grade + 45%	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Sub Grade = +35% Cao	Sub Grade = +35% Cao	
7d	Any beneficiation process at mines	Sizing & Sorting	Sizing & Sorting	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil Dump is proposed	Topsoil dump is formed on Eastern Side of Lease area
8b	Concurrent use or storage of topsoil	Storage in Topsoil Yard and utilised for afforestation	Storage in Topsoil Yard and utilised for afforestation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for OB, Subgrade Minerals	Separate dumps for OB, Subgrade Minerals
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	As on 01/04/2016 Area under Mining = 1.0 hect Topsoil Storage = 0.15 hect OB Dump = 0.08 hect Mineral Storage = 0.23 hect Mines Road = 0.02 hect Afforestation = 0.21 hect	As on 01/04/2016 Area under Mining = 1.0 hect Topsoil Storage = 0.15 hect OB Dump = 0.20 hect Mines Road = 0.02 hect Afforestation = 0.21 hect
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 plants / year	30 plants on 2015-2016
8g	Survival rate	80%	70%

8h	Water sprinkling on roads to control airborne dust	Water tanker is proposed	Water tanker is spraying all along the Mines road
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		plan undulating with rocky outcrops. Lands are Degraded by Mining

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted Regularly	Submitting in Online	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No Appointment	Proposal has been given for appointment of Mining Engineer, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining = 0.60 hect Waste Dump = 0.080 hect Infrastructure = 0.04 hect Green belt = 0.470 hect	As on 01/04/2016, the Landuse pattern as follows Area under Mining = 1.0 hect Topsoil Storage = 0.15 hect OB Dump = 0.20 hect Mines Road = 0.02 hect Afforestation = 0.21 hect	The details given is mismatching with field & approved plan.
9d	Scrutiny of Annual return on afforestation	265 plants	265 plants is cumulative only and last year only 30 plants has been planted.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	There is no Mineral Rejects	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	16500 tons	Production details are correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price = Rs.384/- ton Production cost = Rs.241/- ton	Ex.Mine Price is vary from buyer to buyer
9h	Scrutiny of Annual return on fixed assets	9.6 Lakhs for Land cost	Same to Market value
9k	Scrutiny of Annual return on mining machineries	Air Comperssor - 1	Due to Manual Mining, no there Machinery is 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
Rule 13(1)	26/09/2016				
Rule 23E(2)	26/09/2016				
Rule 27(4)	26/09/2016				
Rule 42(1)(b)(ii)	26/09/2016				
Rule 63	26/09/2016				

Date :

(G. S. KANNAN)

Indian Bureau of Mines