

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Goa regional office

Mine file No : KNT/BGM/LST-1/GOA

Mine code : 38KAR02010

- (i) Name of the Inspecting : **J003**) **JANGID G K**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri B.M.Nyamagoudar and Shri Mudkavi, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 09/12/2014
- (v) Prev.inspection date : 29/08/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **YADWAD (ML 1922)**
- (b) Category : A Other than Fully Mech.
- (c) Type of Working : Opencast
- (d) Postal address
State : KARNATAKA
District : BELGAUM
Village : YADWAD
Taluka : GOKAK
Post office :
Pin Code :
FAX No. :
E-mail : basaveshwarminerals@gmail.com
Phone : 08334-279656, 9448225980
- (e) Police Station : YADWAD
- (f) First opening date : 01/05/1984
2. Address for correspondence : Shri A.L.Nyamagoda, B. G. K. Sangha
392B, Main Road, Post- Yadwad
Taluka- Gokak, Dist- Belgaum -591136
3. (a) Lease Number : KAR0004
(b) Lease area : 16.19
(c) Period of lease : 20
(d) Date of Expiry : 17/11/2023
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : B. G. K. SANGH
 Village- YADWAD, Taluka -
 GOKAK BELGAUM KARNATAKA
 Phone:
 FAX :

Owner : A.L.NYAMAGONDAR
 B.G.K.Sangha, 392/B, Main
 Road, Post-Yadwad Taluka-
 Gokak BELGAUM KARNATAKA
 Phone: 08334-279656, 0
 FAX :

Manager Name : V. B. MUDAKAVI Qualification : Foreman Certificate holder Appointment/ : 03/09/2010 Termination date

6. Date of approval of Mining : 06/05/2014
 Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS

1. Details about Average employment :

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Plant	0	0
Supervisory	1	310
Managerial	1	310
Ministrial	0	0
CONTRACT		
Others	0	0
Workers	8	310

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Health	0.00	0.00	0.00		
Water supply	0.00	0.30	0.00		
Medical facility	0.00	0.10	0.00		
Sanitation	0.00	0.00	0.00		
Safety	0.00	0.10	0.00		
Housing	0.00	0.00	0.00		
Sub total	0.00	0.50	0.00		
Infrastructure					
Electricity	0.00	0.00	0.50		
Public transport	0.00	0.00	0.20		
Roads	0.00	0.00	0.40		
Communication	0.00	0.00	0.10		
Sub total	0.00	0.00	0.50		
Training	0.00	0.00	0.00		
Sports activities	0.00	0.00	0.00		
Employment	0.00	0.00	45.00		
Recreation	0.00	0.00	0.00		
Others	0.00	0.00	0.00		
Environment management	0.00	0.00	0.80		
Total	0.00	0.00	47.50		

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

Mine was last inspected on 29.08.2013 and violation of rule 29, 42(i)(c)(ii) and 45(5)(b) was issued and subsequently complied. No Violation of MCDR was issued after current inspection, as scheme of mining was recently approved in May 2014 and there is no major violation.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

Suspension of mining operations under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988 is not recommended.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

- a.Type of prospecting and exploration i.e. pitting, drilling : Additional exploration was not proposed in approved SOM expired on 2013-14. Additional exploration was not carried out after approval of SOM.
- b.Total area covered : Additional exploration was not proposed during 2013-14. Additional exploration was not carried out after approval of SOM.

B. Working (Rule 13)

- a.Number and size of each pit (LxWxH) : There were three separate pits and proposal was made for development in rectangular boxes for next five-year period. Every year 60m X 40m area was proposed. Development and production activities are confined in eastern Pit-2 and Northern Pit-3 during last five years. Pit-1 is water submerged. The size of the pits are Pit-1 of 200m X 100m X 15m, Pit-2 of 175M x 140M x 8M and Pit-3 of 135M x 100M x 5M.
- b.Bench size(LxWxH)length can be defined as regular/irregular : Regular one bench of 3m height and 5m width was proposed in pits. There are three pits and Pit-2 & Pit-3 are working. Five benches in water submerged Pit-1 and one-two benches in pit-2 & Pit-3 of 2-5m height are there.
- c.Ore to waste ratio pit wise if possible otherwise for mine : Ore to waste ratio pit wise was estimated as 1:0.1. Pit wise ore to waste ratio during the year was 1:0.1 and it is mostly intruded clay.
- d.Total area covered under excavation/pits : The yearly area proposed for development under pit-2 & Pit-3 was 60m X 40m. The area proposed under pits was 5.85ha at the end of 2013-14. The area covered under three pits is around 6.25ha as on date of inspection.

C. Waste disposal (Rule 13)

- a.Location of dumps : Waste dumping was proposed towards south-east side of lease area. Topsoil and waste is dumped & used for plantation near office area located towards north-west side of lease area.
- e.Yearly generation of waste quantity. : Yearly 3960t waste generation was anticipated. The waste generated during the year was 450m³.

- b.Method of dumping whether advancing/retreat : Advancing method of dumping was proposed with 12m height. Topsoil and waste is dumped & levelled for plantation near office area located towards north-west side of lease area.
- c.Total area covered under waste dump. : Additional 0.45ha area under waste, 0.10ha under topsoil and 0.28ha under subgrade mineral was proposed during five-year scheme period. Yearly proposals were not made. Additional area was not used and waste has been dumped & levelled for plantation.
- d.No.and size of each waste dump with No of steps/lift/bench : One waste dump of 90m X 50m X 12m was proposed during five-year year period. Topsoil and waste is dumped & levelled near office premises located towards north-west side of lease area and it is used for plantation.

D. Production

- b.Year wise production of last five year. : Target from 2009-10 to 2013-14 was 40,000t, 40,000t, 40,000t, 40000t & 40000t. Actual production from 2009-10 to 2013-14 was 39950t, 1562t, 39924t, 39312t & 39312t. Boundary pillars were found intact at corner pillars.

D. Reserve

- a.Reserve position as per latest MP/MS and at the time of inspection. : Reserves: Proved - 913251t, Probable - 2455488t & possible 100500t as per approved scheme of mining. Balance reserves are Proved - 4449942t & possible 3107412t as per recent approved scheme of mining as on 01.04.2014.

RESERVE POSITION AS ON 01/04/2014

LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	4449942	Above Cement grade
Probable		
Possible	3107412	
Total	7557354	+50% CaO

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

Mineral	Production	Unit
LIMESTONE	39312	TON

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

- Efforts for improving low grade and sub grade mineral. : Lessee has installed Mini cement plant at Yadwad about 3-4kms from lease. Limestone is being sold to M/s Sesa Sterlite Limited at Goa.
- Efforts for improving percentage of recovery of ore. : Recovery of limestone is above 95%. Lessee is installing own mini cement plant and limestone will be used for captive purpose.

Mineral Rule 15

- Percentage of recovery of ore pitwise w.r.t. ROM and total material : Recovery Percentage of ore pitwise w.r.t. ROM and total material is almost 95% with reject of clayey material during crushing & screening,
- Number of benches in ore and waste. : One-two benches in mineral limestone of 3-5m height are there in working pits 1 & 2, whereas water logged Pit-1 is having five benches. There is no OB and negligible topsoil above limestone.

Sub/grd mineral/fines (Rule16)

- Qty of yearly generation and total qty available during inspection with grade : ROM production - 39312t during 2013-14 and closing mineral stock - 3851.70t B.F. & cement grade.
- Number and size of each stack : Two stacks of lumps near pit and three stacks of crushed material were observed.
- Location of stacking. : Crushed limestone of different sizes is lying near crusher.
- Separate stacking from waste : ROM material is crushed & screened within lease area. Low cement grade limestone was stacked and lying near crusher.
- Total area covered for stacking : Area covered under mineral stack (lumps-0.01ha and fines 0.02ha) and it is within pits.

Exploration data as on 31/03/ 2014

No. of Boreholes	No. of Pits	No. of Trenches
0	0	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

Overburden/waste removed (in m3) :	2624
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Utilisation of Sub Grade Mineral and Mineral Rejects

	Generated	Utilised	Stacked	(In Ton.)
<u>LIMESTONE</u>				
Sub Grade Mineral ->	0	0	0	
Mineral Rejects ->	0	0	0	

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : The topography of the area is almost flat.
- b. Aesthetic environment : There is no significant features of aesthetic importance, except seasonal nalah.
- c. Soil and land use pattern : There is a thin block cotton soil in the area, which is manually scrapped & used for plantation. The landuse pattern is as follows: Area under pit-6.25ha, area under dump 0.75ha.
- d. Agriculture : The crops of surgarcane, onion, wheat & jawar is obtained from the surrounding area.
- e. Forest(flora and fauna) : There is no forest land inside and within core zone of lease.
- f. Vegetation : There is a scanty vegetation however, plantation has been carried out by the lessee in the NW part of lease area and outside lease area in adjoining lease.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : There is no public building,monuments, place of worship & place of tourist interest in the area.

B Water environment.

- a. Surface water : There is no any surface water body in the lease area, however one seasonal river is there outside the lease area in the western direction of the area.
- b. Ground water : The mining is carried out above the ground water level and there is no impact on ground water. Pit-1 was filled with rainy water.
- c. Quality of water : The ground water of the area is potable.

C. Air environment

- a. Noise : Manual mining operations are there without deephole drilling & blasting. Small dia J/H blasting and crushing operations creates some noise and it is monitored through external agency as per EC.
- b. Air : There is no adverse impact on quality of air.
- c. Climatic condition : The maximum temp. during the summer reaches to 43 degree celcius & minimum temp during winter is around 13 degree Celcius.

D. Socio economic environment

- a. Social and demographic profile. : The main occupation of the people of the area is agriculture.
- b. Recommending health and safety. : There is no any occupational dieseas reported in the recent past in the area.
- c. Human settlement : There is no habitation within the lease area.
- d. Recreational facility. : Tthe recreational facility is available at Yadwad town which is about 5-8Kms from the lease area.

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

<u>Water Management</u>					
Season	Station type	Station name	Parameter	Value	
				Actual	Excess

<u>Air data for excess parameters</u>					
Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u> <u>2013 - 2014</u>					
Within lease area			Outside lease area		
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate
.2	40	80	1.5	150	90

Area in Hect.

<u>TOP SOIL MANAGEMENT</u>		
<u>Quantity as on 31/03/2014</u>		
Cumulative quantity in tonne		
Generated	Utilised	Balance
250	250	0

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

The annual return submitted for 2013-14 is found in order.

Cost of operation (in Rs.) : 294

Reserves : 2897886t proved was incorrect. It should be 2871800t.

Production : 21472t as per MR and 24238t as per annual return.

Pit mouth value (in Rs/t.) : 390

Stock (in T) : 15611.81t cement grade and 6630.91t B F grade.

Land use pattern & fixed assets (a) Area covered under current (O/C) Working - 5.0ha is incorrect, it should be 2.25ha, (b) Use for waste disposal including top soil dump is nil, it should be 0.1ha, (c) Used for any other purpose (crusher Plant.) is also on higher side 0.4ha. It should be 0.05ha.

PART - III : PERFORMANCE OF MINE OWNER
(In case of lease expiring within 2 years - as per guidelines)

a. Compliance of terms and conditions of lease deed.

ML Number 2428 over 16.19 ha in Non -forest area. The period of lease is for 20 years and date of expiry is 28.12.2023.

b. Compliance of the provisions of MCDR, 88 and advise given.

Letter Number and Date of approval of Mining Plan for renewal over 32.01ha was MP/MAN-507(KNT)/GOA/2003-04 dated 14.07.2003 for the six-year period from 2003-04 to 2008-09.

Letter Number and date of approval for scheme of mining is MSH/MAN-173(KNT)/GOA/2009-10 dated 07.07.2009 for the five-year period from 2009-10 to 2013-14.

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

None at present.

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

None at present.

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

None at present.

Date :

(JANGID G K)

Indian Bureau of Mines