

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/SMG/LST/1/BNG

Mine code : 38KAR17001

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : S/shri K. Mahalingam, Agent & D.G.M and Anil Kumar, M
Official with
Designation
- (iv) Date of Inspection : 29/05/2015
- (v) Prev.inspection date : 27/02/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BADIGUND**
- (b) **Registration NO.** : **IBM/5662/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : SHIMOGA
Village : BHADRAVATI
Taluka : BHADRAVATI
Post office : BHADIGUND
Pin Code :
FAX No. : 08282-291291,271621(ext.20:
E-mail : vislminesdept@gmail.com
Phone : 08282-273208,271667
- (f) Police Station : Bhadravathi
- (g) First opening date : 01/04/1983
- (h) Weekly day of rest : SUN
2. Address for : BHADRAVATI,
correspondance SHIMOGA,
KARNATAKA-577301.
3. (a) Lease Number : KAR0110
- (b) Lease area : 40.12
- (c) Period of lease : 20
- (d) Date of Expiry : 31/03/2023
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : VISL
 BHADRAVATI, SHIMOGA,
 SHIMOGA KARNATAKA
 Phone:08282-271621 - 9 (10 LINES)
 FAX :

Owner : VISL
 BHADRAVATI, SHIMOGA,
 SHIMOGA KARNATAKA
 Phone: 08282-66620
 FAX : 08282-66432,666

Agent : K.MAHALINGAM
 Dy GENERAL MANAGER, MINES &
 RM SAIL/VISL, BHADRAVATHI
 CHIKMAGALUR KARNATAKA
 Phone:
 FAX :

Geologist

Name : K. Mahalingam, Full Time
 Qualification : M.Sc (Geology)
 Appointment/ : 15/04/2008
 Termination date

Manager

Name : C. Anil Kumar Reddy
 Qualification : Dip. in Mining Engineering, GJE, FCC
 Appointment/ : 15/04/2004
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	03/04/1992
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	30/12/1997
		Renewal under rule 22 MCR1960	28/04/2003
		Modif.of approved Mining Plan	25/10/2007
		Mining Scheme rule 12 MCDR1988	27/06/2008
		Mining Scheme rule 12 MCDR1988	25/06/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 exploratory boreholes	Nil	The violation has been pointed out.
1b	Exploration over lease area for geological axis 1 or 2	05 exploratory boreholes.	Nil	The violation has been pointed out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	12 lakhs rupees.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified for the year 2014-15	Nil	During the Scheme period i.e., upto 31.03.2018, 12 ha. area is proposed to be covered.
1e	Balance reserve as on 01/04/20	-	-	22120834 tonnes as on 01/04/2015(Total resources)
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The lessee has not carried out the exploration as proposed. The violation has been pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1	Pit-1	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	NIL	
2c	Stripping ratio or ore to OB ratio	1:0.75	1:0	
2d	Quantity of topsoil generation in m3	nil	Nil	

2e	Quantity of overburden generation in m3	34090 cu.m	nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The mining operations are being carried out slowly due to closure of the Steel Plant.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	1,00,000 tonnes	26,729tonnes	The production during the year 2014-15.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	The low grade CaO will be blended with the high grade ore to feed the plant which takes +45 CaO as cut off.
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	
3f	Quantity of sub grade mineral generation.	22000 tonnes	nil	
3g	Grade of sub grade mineral generation	35% to 45% CaO	nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

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	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Tata Hitachi-1 Tippers-8	Tata Hitachi-1 Tippers-8	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	21.3ha	21.3ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.75	1:0	
3o	Total area put in use under different heads at the end of year	Not specified	32.0ha	
3p	Production of ROM mineral during the last five year period as applicable	2010-11: 101000t 2011-12: 101000t 2012-13: 101000t 2013-14: 100000t 2014-15: 100000t	2010-11: 27998t 2011-12: 44801t 2012-13: 30460t 2013-14: 9427t 2014-15: 26729t	Deviation is more than 50% on negative side.
3q	General remarks of inspecting officers on method of mining etc.	-	-	There is no change in method of mining.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Northwestern side of the lease area.	Northwestern side of the lease area.	
4c	Number of dumps within lease area and outside of lease area	One within the lease area.	One within the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side	Out side	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Proposed	50ft	The construction of retaining wall is under progress.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	-	-	The construction of retaining wall is under progress.

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 proposals	Nil	

5b	Area under backfilling of mined out area	No proposals	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	Nil	
5d	Total area fully reclaimed and rehabilitated	No Proposals	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No proposals since the mineral is not yet exhausted.

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).	-	Submitted.	
6b	Area available for rehabilitation (ha) .	No specific proposals	Nil	The mined out area is around 21.3 ha.This area is still active.Hence no proposals given.
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	
6e	Cumulative no .of plants	Nil	Nil	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	

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	To make the pit as water reservoir.	Nil	The deposit is not yet exhausted and the pit is active.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	no specific proposals	Rehabilitated waste land by afforestation.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	no specific proposal	The waste land of 5.8ha was rehabilitated by afforestation.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular Monitoring	Regularly air,water and noise are monitored.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	After complete exploitation of mineral, the pit can be converted into a water reservoir to cater the wild inhabitants

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Nil	The subgrade mineral is categorised as low CaO % which is blended proportionately along with high CaO and the same will be fed to the captive steel Plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The excavated ROM is transported from the mine site to captive steel plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	nil	No top soil generated, since the workings are proposed within the broken area.
8b	Concurrent use or storage of topsoil	nil	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	yes	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no proposal	nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2250 saplings	2000 teak saplings	
8g	Survival rate	85%	90%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on road by water tanker.	Water sprinkling on road by water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	There is no change in aesthetic beauty in and around the mining lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted upto April, 2015 AR submitted for the year 2014-15	-	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	-	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	
9d	Scrutiny of Annual return on afforestation	Given	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	-
9h	Scrutiny of Annual return on fixed assets	Given	-
9k	Scrutiny of Annual return on mining machineries	Given	-

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 13(1)	05/06/2015	14/08/2015			
Rule 29	05/06/2015	14/08/2015			

Date :

(K.SRINIVAS)

Indian Bureau of Mines