

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

Review and updation of Mining Plan REPORT

Bangalore regional office

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

Mine code : 38KAR17001

- (i) Name of the Inspecting : **A101**) **ARUN KUMAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 09/05/2018
- (v) Prev.inspection date :

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,ar**
- Phone** : **08282-273208,271667,996860!**
- (f) **Police Station** : **Bhadravathi**
- (g) **First opening date** : **01/04/1983**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **VISL**
correspondance **BHADRAVATI, 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	24	Nil	Mine is temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017
1b	Exploration over lease area for geological axis 1 or 2	No proposal	G1- 21.517 ha G4-18.603 ha	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Available	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Balance area of 18.603 Ha to be explored.
1e	Balance reserve as on 01/04/20	-	10264000 tons as on 01/04/2018	High CaO (+45) Low CaO (+35/-45)
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Mine is not working & temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No.1	Nil	Mine is temporarily discontinued
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	-
2c	Stripping ratio or ore to OB ratio	1:0.05	nil	-

2d	Quantity of topsoil generation in m3	Nil	Nil	-
2e	Quantity of overburden generation in m3	5000 tons	Nil	Mine is temporarily discontinued
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine is not working & temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	-
3b	Quantity of ROM mineral production proposed	1,00,000 Tons	3,500 Tons	Mine is temporarily discontinued from 01.05.2017
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	-
3f	Quantity of sub grade mineral generation.	14,000 Tons	Nil	Only 3500 tons production, hence no sub grade mineral generated
3g	Grade of sub grade mineral generation	35 to 45% of CaO	Nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Excavator tipper combination	-

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	All the blasted material are transported to the captive plant.No crushing & screening unit within the ML area.
3j	Provision of drilling and blasting in mineral benches	Yes	Nil	DTH Drilling 110mm dia with Wet drilling
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator - 01,Water Tanker - 01,Jeep - 01,Compressor with Drill machine - 01,Wheel Loader - 01,Tipper - 15	Nil	On the date of inspection no equipments was available in the mines
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	21.3 Ha	21.3 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	Nil	-
3o	Total area put in use under different heads at the end of year	Mining-21.3 Ha,OB dump-2.75 Ha,Infrastructure & roads-1.0Ha, Green belt-5.80 Ha	Opencast working-21.30 Ha,Reclaimed/rehabilitated-3.00 Ha, waste disposal-3.75 Ha,Infrastructure-4.05 Ha,others-8.02 Ha(2016-17)	-
3p	Production of ROM mineral during the last five year period as applicable	2013-14-100000 2014-15-100000 2015-16-100000 2016-17-100000 2017-18-100000	2013-14-8000 2014-15-24900 2015-16-28600 2016-17-32000 2017-18-3500	Mine is temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017

3q	General remarks - of inspecting officers on method of mining etc.	-	Mine is not working & temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017
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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)	Yes	Nil	-
4b	Location of topsoil, OB and mineral reject dumps	Northwestern side of the lease boundary	Nil	-
4c	Number of dumps within lease area and outside of lease area	WML-01 OML-Nil	WML-01 OML-Nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	-
4e	Number of active and alive dumps.	01	01	-
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	Nil	Nil	-
4j	Number of settling ponds	Nil	Nil	-

4k	Specific comments of inspecting officer on waste dump management	Mine is not working & temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017.
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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	Nil	-
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 proposal 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(2016-17)	-
6b	Area available for rehabilitation (ha) .	NA	nil	-

6c	afforestation done (ha).	Nil	Nil	-	
6d	No. of saplings planted during the year	3000 No	2000 Nos(2016-17)	-	
6e	Cumulative no .of plants	Na	Nil	-	
6f	Any other method of rehabilitation	NA	nil	-	
6g	Cost incurred on watch and care during the year	Not available	Nil	-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	nil	-	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	nil	-	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	nil	-	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	nil	-	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	nil	-	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	To make the pit as water reservoir	Nil		The deposit is not yet exhausted ,Rehabilitated waste land by afforestation

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular Monitoring proposed	Regularly air,water & noise are monitored	Parameters within the limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mine is not working & temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	nil	Low CaO % is blended with high CaO & is fed to the captive steel plant
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	nil	-
7c	Different grade of mineral sorted out at mines.	NA	nil	-
7d	Any beneficiation process at mines	No such proposal	Nil	-

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mine is not working & temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	nil	No top soil is generated since the working were proposed within the broken area.
8b	Concurrent use or storage of topsoil	NA	nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, proposed	Separate stacking of OB done	-
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)	No proposal	nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposal 3000 Nos in 1 Ha area	2000 Nos @80 % Survival inside the ML area(2016-17)	-
8g	Survival rate	90%	90%	-

8h	Water sprinkling on roads to control airborne dust	Yes	nil	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Mine is not working & temporarily discontinued with effect from 01.05.2017 due to expiry of forest clearance on 30.04.2017

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Online M.R. Submitted up to April 2018 Online A.R. Submitted up to 2016-2017		AR is due on 1st JULY for 2017-18
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer & Mining Manager-C Anil Kumar Reddy Geologist-K Mahalingam	Geologist was not available	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Opencast working-21.30 Ha, Reclaimed/rehabilitated-3.00 Ha, waste disposal-3.75 Ha, Infrastructure-4.05 Ha, others-8.02 Ha	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	WML-2000 Nos - @80 % Survival	Appears to be correct	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Rejects-Nil	Nil	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	OB- 1136.475 tons Production- 32000.00 tons Dispatch- 30796.730 tons CB- 2339.745 tons	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price=cost of production=Rs 242/ton	Appears to be correct as it is a captive mine	-
9h	Scrutiny of Annual return on fixed assets	Rs.700156000/-	Appears to be correct	-
9k	Scrutiny of Annual return on mining machineries	Hydraulic Excavator -01, Compressor & Drill machine - 01,	Appears to be correct	-

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

Date :**(ARUN KUMAR)**

Indian Bureau of Mines