

**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 : **257**) **Prashant S Hegde**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri C. Anil Kumar Reddy, AGM-Mines & mine officials
Official with
Designation
- (iv) Date of Inspection : 18/12/2019
- (v) Prev.inspection date : 29/05/2015

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. : 08282-273208
E-mail : vislminesdept@gmail.com
Phone : 08282-271767
- (f) Police Station : Bhadravathi
- (g) First opening date : 01/04/1983
- (h) Weekly day of rest : SUN
2. Address for : Visvesvaraya Iron & Stell Plant / M/s SAIL
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 :08282-273208

Owner : Vivek Gupta, Director (RM & L), SAIL
 M/s STEEL AUTHORITY OF
 INDIA LTD Corporate Office
 ISPAT BHAWAN, LODHI ROAD,
 DELHI DELHI
 Phone: 011-24367481-86
 FAX : 011-24367015

Agent : R.Vishwanathan
 AGM(Mines), SAIL/VISL
 Bhadravathi SHIMOGA
 KARNATAKA
 Phone: 9480828943
 FAX : 08282-273208

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

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	03/04/1992
		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
		MP review under 17(1) MCR 2016	04/07/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 nos of Core BHs with 400 total meterage.	NIL	Mining operation was temp. discontinued w.e.f. 1/5/2017 due to pending forest clearance.
1b	Exploration over lease area for geological axis 1 or 2	G-1: 28 Ha	G-1: 14 Ha G-2: 5 Ha G-3: 9 Ha	Non-working.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NIL	Non-working
1d	Balance area to be explored to bring Geological axis in 1 or 2	14 Ha	NIL	Non-working
1e	Balance reserve as on 01/04/20	-----	10.167 million tonnes (CaO: +35 %)	Based on last approved RMP dated 4/7/18.
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	(i) 53 nos of core BHs with 4235 total metergae drilled so far. (ii) 24 nos of core BHs with 960 total meterage proposed during present plan period upto 2021-22 for completion entire potentially mineralised area and (iii) Mining operation was temp. discontinued w.e.f. 1/5/2017 due to pending forest clearance.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit No: 1of sections: AA', BB', & LL' (N-1050 to N-950 & E-1000 to 1200)	NIL	Non-working
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and minerals.	Separate benches in OB and minerals.	NIL
2c	Stripping ratio or ore to OB ratio	1: 0	NIL	No development proposals.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	NIL	NIL	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	Mining operation was temp. discontinued w.e.f. 1/5/2017 due to pending forest clearance and also shutdown of blast furnace.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One (Pit No.: 1)	NIL	Non-workiiing mine.
3b	Quantity of ROM mineral production proposed	100,380 tonnes	NIL	NIL
3c	Recovery of sailable/usable mineral from ROM production	100 %	NIL	Non-working.
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL

3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	NIL	Non-working.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	DTH drilling of 110 mm dia. with hole depth 5.5m and wet drilling.	NIL	Non-working.
3k	Provision of mining machineries in mineral benches	Yes, Excavators & tippers	NIL	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height: 6 m and width: 6 to 10 m	Bench height: 6 m and width: 6 to 10 m	NIL
3m	Total area covered under excavation/pits	21.3 Ha	21.3 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0	NIL	No development proposed.
3o	Total area put in use under different heads at the end of year	Pit: 21.3 Ha Dumps: 2.5 Ha Raod: 0.75 Ha	Pit: 21.3 Ha Dumps: 2.5 Ha Road: 0.75 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 100,000 2015-16: 100,000 2016-17: 100,000 2017-18: 100,000 2018-19: 100,380	2014-15: 24,900 2015-16: 28,600 2016-17: 32,000 2017-18: 3,500 2018-19: NIL	NIL

3q	General remarks of inspecting officers on method of mining etc.	-----	-----	Mining operation was temp. discontinued w.e.f. 1/5/2017 due to pending forest clearance and also shutdown of blast furnace.
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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)	NIL	NIL	No waste/ top soil generation proposals.
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	NIL
4c	Number of dumps within lease area and outside of lease area	4 nos of dumps within ML.	4 nos of dumps within ML.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Located outside UPL.	Located outside UPL.	NIL
4e	Number of active and alive dumps.	One nos	One nos	NIL
4f	Number of dead dumps.	3 nos	3 nos	NIL
4g	Number of dumps established.	3 nos.	3 nos.	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	----- --	-----	Waste dump management was carried out as per approved RMP.

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	Existing pits were not matured for back-filling as ore not exhausted so far.
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-----	-----	Existing pits were not matured for back-filling as ore not exhausted so far.

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).	1st July of every year	Submitted.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL	NIL
6e	Cumulative no .of plants	NIL	NIL	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	2 lakhs	1 lakhs	Non-working mine.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	Existing pits were not matured for back-filling as ore not exhausted so far.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 nos	2000 nos	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.6 Ha	0.6 Ha	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation.	Afforestation.	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Season-wise environmental monitoring proposed.	Season-wise environmental monitoring was carried out by their own Lab. and all parameter were within the limit.	Non-working Mine.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	Mining operation was temp. discontinued w.e.f. 1/5/2017 due to pending forest clearance and also shutdown of blast furnace. PMCP implementation is being carried out as per the proposals.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM will be directly dispatch to their own captive Iron and Steel plant at Bhadravathi by road.	NIL	Non-working mine.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	NIL	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL
7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	There is no mineral conservation issue. Presently mine is non-working and also blast furnace shout-down.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top soil generation.
8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	No waste generation proposals.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Existing pits were not matured for back-filling as ore not exhausted so far.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 saplings proposed during year 2018-19.	2000 saplings carried out during year 2018-19 with cum. plantation of 32,600 nos.	NIL
8g	Survival rate	80 %	80 %	NIL
8h	Water sprinkling on roads to control airborne dust	Yes	Water tanker provided.	Presently Non-working mine.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	Aesthetic beauty in and around mines area is good as PMCP proposals is being implemented.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	----- -----	Submission of ARs and MRs are regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME and MM: C. ANIL KUMAR REDDY Geologist: NIL	Actual also same.	Non-working mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits: 21.3 Ha Dumps: 3 Ha Road & Infra.: 1.75 Ha	Actual also same.	NIL
9d	Scrutiny of Annual return on afforestation	2000 nos saplings OML.	Actual also same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Actual also same.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: NIL Ore stock: 1405 tonnes	Actual also same.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price and cost of production : NIL	Actual also same non-working mine.	NIL
9h	Scrutiny of Annual return on fixed assets	Rs 5,26,565	Actual appear to the same.	NIL
9k	Scrutiny of Annual return on mining machineries	BACK HOE (1.600 CUM): 1 nos	Actual also same	NIL

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 :

(Prashant S Hegde)

Indian Bureau of Mines