

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST/17/BNG

Mine code : 38KAR10003

- (i) Name of the Inspecting : **256**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Rajesh Garg , AVP MINES
Official with
Designation
- (iv) Date of Inspection : 25/11/2015
- (v) Prev.inspection date : 09/02/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **INJEPALLI (ML 2417 AND 2475)**
- (b) **Registration NO.** : **IBM/245/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : GULBARGA
- Village : INJEPALLI
- Taluka : SEDAM
- Post office : SEDAM
- Pin Code : 585222
- FAX No. : 08441-276139
- E-mail : mines@vasavadattacement.com
- Phone : 08441-276005,EXT.406/524
- (f) Police Station : Sedam
- (g) First opening date : 09/12/1982
- (h) Weekly day of rest : SUN
2. Address for : SRI. K.C.JAIN
correspondance M/S VASAVADATTA CEMENTS, SEDAM
GULBARGA DIST KARNATAKA - 585 222.
3. (a) Lease Number : KAR0099
- (b) Lease area : 897.86
- (c) Period of lease : 20
- (d) Date of Expiry : 04/09/2023
4. Mineral worked : SHALE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : VASAVADATTA CEMENTS
 SEDAM, GULBARGA, GULBARGA
 KARNATAKA
 Phone:08441-676005,676277,676256
 FAX :08441-676139,676408

Owner : K.C.JAIN
 CRYSTAL TOWER, 10-3-316/2,
 2nd/3rd FLOOR,Above Andhara
 Bank Masab Tank Hyderabad
 HYDERABAD TELANGANA
 Phone:
 FAX :

Agent : Rajesh Garg
 GULBARGA KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : Rajesh garg,Full Time
 Qualification : BE Mining
 Appointment/ : 16/12/2009
 Termination date

Geologist

Name : B.S.VINAYAKA,Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ : 15/04/2013
 Termination date

Manager

Name : RAVINDRA LAGVANKAR
 Qualification :
 Appointment/ : 09/02/2006
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	13/02/1992
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	24/09/1996
		Renewal under rule 22 MCR1960	27/11/2002
		Fresh under rule 22 MCR1960	20/07/2004
		Mining Scheme rule 12 MCDR1988	11/08/2006
		Modif.approved Mining Scheme	22/04/2010
		Mining Scheme rule 12 MCDR1988	04/01/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	--	--	--
1b	Exploration over lease area for geological axis 1 or 2	No's: 25No's Range: 40-50Mtr Total: 1250Mtr's	No's: 31 No's Range: 28-55Mtr Total: 1518Mtr's.	Total area covered under G1 is 360.14Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	Synergy Geo Tech Pvt Ltd, Nagpur. Expenditure: Approx:47Lakhs	--
1d	Balance area to be explored to bring Geological axis in 1 or 2	115 Ha.	147.77Ha.	G1: 284.52Ha. G2: 253.20Ha.
1e	Balance reserve as on 01/04/20	(01.04.2012) Limestone Shale Reserves: 299.15 11.30 Resources: 239.11 72.88 Total 538.26 84.18	(01.04.2015) Limestone Shale Reserves : 286.85 11.30 Resources: 237.94 72.88 Total : 524.79 84.18	
1f	General remarks of inspecting officers on geology, exploration etc			Proposed exploration has been carried out but particulars of boreholes drilled are not being maintained properly. Violation has been pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit-A (NE-Corner, Section-ML. 0.00 to ML. 13.5) Pit-B (SW Corner, Section ML-0.0 & 3.0)	Pit - A (NW 4.5 to 13.5) No Handling	There is no OB. The top cover is consisting of BC Soil. It is used for making bund along lease boundary and for green belt development. Development is not adhered to the proposals thus violation is been pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	1	1	Top bench is consisting of BC Soil that is used for making bund along lease boundary and for green belt development.
2c	Stripping ratio or ore to OB ratio	1:0.027	1:0.062 (upto Oct'15)	
2d	Quantity of topsoil generation in m3	195749	117828 (up to Oct; 15)	
2e	Quantity of overburden generation in m3	--	--	There is no OB.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development is very less than the proposals but maintained stripping ratio on higher side due to lesser production. The dev. work has been extended beyond the proposed area thus the violation has been pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2Pits	2Pits	The only Pit has been divided into Two by a Road to reduce the haul distances.

3b	Quantity of ROM mineral production proposed	Lst: 11.03 Million Tons Shale: 0.66 Million Tons	Lst: 3.04 Million Tons Shale: 0 (Up to Oct; 2015)	Production is less than 50% for last 05 years consistently thus violation has been pointed out.
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	NA
3d	Quantity of mineral reject generation	NA	NA	NA
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NA
3f	Quantity of sub grade mineral generation.	NA	NA	NA
3g	Grade of sub grade mineral generation	NA	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NA
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	Deep Hole Drilling and Blasting
3k	Provision of mining machineries in mineral benches	Yes	Yes	Fully Mechanized 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	138.61 Ha. (up to 2015-16)	136.74Ha Up to Oct; 15	Area of excavation

3n	Ore to OB ratio for the pit/mine during the year.	1:0.027 (2015-16)	1:0.062 (upto Oct'15)	
3o	Total area put in use under different heads at the end of year	Excavation: :138.61Ha. Bunds : 11.437 Infrastructure : 4.95Ha. Green Belt: 27.60Ha.	Excavation : 136.74Ha. Bunds : 17.52 Infrastructure : 4.58 Green Belt : 27.29Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2011-12: 11.99 2012-13: 09.25 2013-14: 09.30 2014-15: 09.20 2015-16: 11.69	2011-12: 04.24 2012-13: 04.36 2013-14: 04.36 2014-15: 04.75 2015-16: 03.04 (upto Oct;15)	

3q	General remarks of inspecting officers on method of mining etc.			The development work has been extended beyond the proposed area and not adhered to the proposals despite the <50% production thus the violation is pointed out.
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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	Yes	No Overburden / mineral Rejects generation
4b	Location of topsoil, OB and mineral reject dumps	Bund formation along NW of the lease boundary.	Soil bund is at NW of lease boundary.	No Overburden / mineral Rejects generation
4c	Number of dumps within lease area and outside of lease area	Bunds along lease boundary.	Bunds along lease boundary.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	--	--	--
4e	Number of active and alive dumps.	--	--	--
4f	Number of dead dumps.	--	--	--
4g	Number of dumps established.	--	--	--
4h	Whether Retaining wall or garland drain all along dumps are there.	No	Yes	Garland drains are made along the bund
4i	Length of Retaining wall or garland drain all along dumps	--	--	--
4j	Number of settling ponds	--	--	--
4k	Specific comments of inspecting officer on waste dump management			Waste dump management is being carried out satisfactorily by way of utilising the top soil for the creation of bunds & plantation.

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	No	There is no OB for backfilling. The generated top soil used for bund formation along the lease boundary
5b	Area under backfilling of mined out area	NO	NO	There is no OB for backfilling. The generated top soil used for bund formation along the lease boundary

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NO	NO	There is no OB for backfilling. The generated top soil used for bund formation along the lease boundary
5d	Total area fully reclaimed and rehabilitated	NO	NO	There is no OB for backfilling. The generated top soil used for bund formation along the lease boundary
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There is no OB for backfilling. The generated top soil is utilised for bund formation along the lease boundary

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).	Yes	Submitted on 16.06.2015	
6b	Area available for rehabilitation (ha) .	NO	NO	
6c	afforestation done (ha).	There is no proposal for reclamation or rehabilitation	--	
6d	No. of saplings planted during the year	--	--	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA

6p	Compliance of environmental monitoring (core zone and buffer zone)	NA	NA	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Regular monitoring is to be done.	Regular monitoring is being carried out on quarterly basis.	There is no waste land available within ML area for rehabilitation however regular monitoring is being carried out on quarterly basis in core & buffer zone.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no generation of Sub-Grade Mineral so beneficiation is not applicable

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	0.19 Million M3	0.12 Million M3	Up to Oct; 2015
8b	Concurrent use or storage of topsoil	100 % Soil is being utilized for making bund and Afforestation.	100 % Soil is used for bund formation and Afforestation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Fresh plantation 7500 nos WML(2.5 ha) Gap plantation 7500 nos .	Fresh plantation 6816 nos WML(2.74 ha)- upto Oct 2015 Gap plantation 13951 nos(Cumulative plants 135225 WML & 373227 OML) .	
8g	Survival rate	60 %	60 %	
8h	Water sprinkling on roads to control airborne dust	Provision for water sprinkling is to be made.	Permanent water sprinkler are provided on haul road & view point, NIVIS Dust suppression system & Two Water tankers provided with rain gun and pressurized sprinkler arrangements.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Removal of Top Soil & Plantation work and other parameters are been carried out satisfactorily. Environment monitoring data are not mainted in bound page register thus violation has been pointed out.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return in (Form-F8) submitted up to Oct; 2015. Annual return in (Form-H8) submitted for 2014-15.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : 16.12.2009 Agent : 15.07.2009. Manager : 09.02.2006 Geologist : 15.04.2013		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern as on 01.04.2015 Current (O/C)Workings 131.13 Dumps 17.52 Roads/Infrastr ucture 4.58 Others (Green Belt Infra) 26.58		

9d	Scrutiny of Annual return on afforestation	1184 No's fresh plants over an area of 0.60 Ha & 2666 for gap filling during 2014-15 Survival rate is 80 %	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	905822 ton limestone stock was balance as on 1 st April 2015.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production Cost Rs.120.81 (Lst) Limestone. Rs.106.97 for Shale. Ex-Mines Price Rs. 114.72 (2014-15)	
9h	Scrutiny of Annual return on fixed assets	1827.08 Lakhs	
9k	Scrutiny of Annual return on mining machineries	Hydraulic excavator 6 nos, Loader -2 nos, Dumpers - 22 nos Dozer - 02 nos Drills - 3 nos Water tanker - 3nos Service equipments - 8nos.	Monthly returns & Annual Return are scrutnised and found to be in order.

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)	09/12/2015				
Rule 48	09/12/2015				
Rule 59	09/12/2015				

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines