

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-7A/HYD

Mine code : 38APR14023

- (i) Name of the Inspecting : **RA15**) **Rajesh Kumar Das**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri Hari Prasad,DGM (Mine)
Official with
Designation
- (iv) Date of Inspection : 11/02/2016
- (v) Prev.inspection date : 10/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SITAPURAM LEASE- II**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : **TELANGANA**
- District : **NALGONDA**
- Village : **DONDAPADU**
- Taluka : **KODAD**
- Post office : **DONDAPADU**
- Pin Code : **508246**
- FAX No. : **08683235229**
- E-mail : **svclspm@zcltd.com**
- Phone : **08683235333**
- (f) Police Station : **SITAPURAM**
- (g) First opening date : **10/03/1993**
- (h) Weekly day of rest : **SUN**
2. Address for : **SITAPURAM,DONDAPADU**
correspondance **MELLACHERVU MANDAL**
NALGONDA DISTRICT-508246
3. (a) Lease Number : **APR0068**
- (b) Lease area : **776.49**
- (c) Period of lease : **20**
- (d) Date of Expiry : **02/05/2005**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : ZUARI CEMENT
 HALL 10TH MAIN ROAD
 JEEVANBHEEMANAGAR BANGLORE
 URBAN KARNATAKA
 Phone:0805207610
 FAX :0805207622

Owner : KRISHNA SRIVATSAVA
 ZUARI CEMENT LTD
 JEEVANBHEEMA NAGAR
 BANGALORE BANGALORE
 KARNATAKA
 Phone: 080-5207610
 FAX : 080-5207622

Agent : N. SITA RAMA RAO
 ZUARI CEMENT LIMITED (SRI
 VISHNU CEMENT WORKS)
 DONDAPADU, NALGONDA DIST.
 NALGONDA TELANGANA
 Phone: 08683 - 235333
 FAX : 08683 - 235229

Mining Engineer

Name : Y.MADHU BABU,Full Time
 Qualification : B.TECH MINING ENGG
 Appointment/ : 02/01/2009
 Termination date

Geologist

Name : V.B.K.PRABHAKARA RAO,Full Time
 Qualification : M.SC (GEO)
 Appointment/ : 19/01/1995
 Termination date

Manager

Name : D.SESHA REDDY
 Qualification : MSC(GEOLOGY) FCC
 Appointment/ : 14/10/2002
 Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 30/07/2010
 Plan/Scheme of Mining Renewal under rule 24 MCR1960 13/09/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	57 nos core drilling proposed in 2014-15	Nil	Violation pointed out.
1b	Exploration over lease area for geological axis 1 or 2		No exploration done last year not present year against the proposal.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year			
1d	Balance area to be explored to bring Geological axis in 1 or 2			
1e	Balance reserve as on 01/04/20	46.356 million tons	46.61 million tons	Due to less production.
1f	General remarks of inspecting officers on geology, exploration etc		The exploration proposed 47 nos core bore holes in 2013-14, 57 nos in 2014-15 & 80 nos in 2015-15 but exploration stion not started.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N9350-N9620 & E9615-E9840	As per the proposal within area proposed broadly.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No OB generation & mineral bench proposed 8 meter height.	As per the proposal.	
2c	Stripping ratio or ore to OB ratio	No OB generation	NA	
2d	Quantity of topsoil generation in m3	3200 m3	top soil generation negligible.	
2e	Quantity of overburden generation in m3	Nil	Nil	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

Pit development as per proposal and bench height kept 8 meter.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	one pit	
3b	Quantity of ROM mineral production proposed	200003 MT	200000 MT(dispatch)	2014-15 production reported 226779 MT but dispatch 200000 MT
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.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	

3j	Provision of drilling and blasting in mineral benches	Deep hole drilling with 115 mm dia. and blasting proposed with ANFO and slurry explosive.	As per the proposal.
3k	Provision of mining machineries in mineral benches	Drill machine- 115 mm dia, Excavator- 4 m ³ , compressor- 550 cfm, Dumper- 35 ton, Water tanker- 12 kl	broadly as per proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The is no OB bench proposed and minera bench height kept 8 meter avg.	The method of mining suitable as per proposal.
3m	Total area covered under excavation/pits	8.759 ha. upto 31.03.2017, 2014-15 0.8819 ha.	5.75 ha upto 31.03.2015
3n	Ore to OB ratio for the pit/mine during the year.	No OB generation	
3o	Total area put in use under different heads at the end of year		Working pit 5.75 ha., Roads & building- 8.04 ha. & afforestation- 4.5 ha.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 200003 MT, 2014-15: 200003 MT, 2015-16: 200025 MT as per present SOM	2011-12: 210000 MT, 2012-13: 90000 MT, 2013-14: 50000 MT, 2014-15: 200000 MT, 2015-16: 122000 MT (upto Jan'2016)
3q	General remarks of inspecting officers on method of mining etc.		The mine is working with opencast method having bench height of 7.5-8 meter with single bench in ore in systematic manner.

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)	top soil dump location,N8740 -8960 & E9975-10180	Top soil generation is negligible therefore no top soil dump observed.
4b	Location of topsoil, OB and mineral reject dumps	N 8740-8960 & E9975-10180	No top soil dump observed.
4c	Number of dumps within lease area and outside of lease area	No major dump proposal except top soil.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA
4e	Number of active and alive dumps.		Nil
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.	NA	NA
4i	Length of Retaining wall or garland drain all along dumps	NA	NA
4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management		No waste generation and ROM directly feeded to crusher.

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.	NA		

5b	Area under backfilling of mined out area	NIL	NIL	area not matured for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		No backfilling activity observed.	

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).		Not submitted.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.610 ha.	1 acre	
6d	No. of saplings planted during the year	915 nos saplings	320 nos.	
6e	Cumulative no .of plants		5800 nos.	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	400000 Rs	380000 Rs	
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
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring.	As per proposal.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	
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		The ROM from mine directly feed into crusher and no waste generation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	3200 m3 top soil.	Negligible and used for afforestation.	
8b	Concurrent use or storage of topsoil		Used for afforestation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	NO OB,Waste,reject generation.
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)		5800 nos saplings	
8g	Survival rate		80%	
8h	Water sprinkling on roads to control airborne dust	water tanker of 12 kl for water spraying.	As per proposal.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		No adverse impact due to mining on aethetic beauty.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	As per rule MR and AR submitted AR submitted upto 2014-15 & MR Jan'16
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-Sri N Hariprasad Rao, Mining Engineer-A Mahipal Reddy, Geologist- V.B.K.Prabhakar Rao
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits-6.7 ha., Buildings & roads-8.04 ha. plantation-4.5 ha.
9d	Scrutiny of Annual return on afforestation	320 nos saplings within lease at the 81 % survival.
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	32324 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine & production cost-133.25 Rs, Sale value nil as the limestone used for captive use.
9h	Scrutiny of Annual return on fixed assets	Fixed asset value furnished nil
9k	Scrutiny of Annual return on mining machineries	Excavator(hydraulic)-4 m3(i nos) & Dumper-31.75 ton(2 nos)

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)	18/02/2016				
Rule 23E(2)	18/02/2016				

Date :**(Rajesh Kumar Das)**

Indian Bureau of Mines