

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

**MCDR INSPECTION REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KRM/LST-5/HYD

**Mine code :** 38APR09002

- (i) Name of the Inspecting : **C\$10** ) **Ch.Suseela**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri. M.Ravinder Reddy, Mines Head & Sri. B.Sadasiva R  
Official with  
Designation
- (iv) Date of Inspection : 08/03/2017
- (v) Prev.inspection date : 30/01/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **THKKALAPALLY**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : **TELANGANA**  
District : **KARIMNAGAR**  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : **08728-228160**  
E-mail : **communication@kesoramcement**  
Phone : **08728-228121**
- (f) Police Station : **BASANTHNAGAR**
- (g) First opening date : **01/02/2004**
- (h) Weekly day of rest : **SUN**
2. Address for : **BASANTH NAGAR**  
correspondance : **KARIMNAGAR**  
**505187**
3. (a) Lease Number : **APR2269**
- (b) Lease area : **122.28**
- (c) Period of lease : **20**
- (d) Date of Expiry : **23/12/2022**
4. Mineral worked : **LIMESTONE** Main

## 5. Name and Address of the

Lessee : KESORAM CEMENT  
 KESORAM CEMENT P.O.  
 BASANTHNAGAR KARIMNAGAR  
 DIST. KARIMNAGAR TELANGANA  
 Phone:  
 FAX :040 4657472

Owner : M/S KESORAM CEMENT  
 9/1 RN MUKHERJI ROAD  
 KALKATTA KOLKATA WEST  
 BENGAL  
 Phone:  
 FAX :

Agent : Ch. S. Nageswara Rao  
 Kesoram Cement Basantnagar  
 KARIMNAGAR TELANGANA  
 Phone: 08728228135  
 FAX : 08728228160

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26/07/2002
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	21/04/2009
	:	Mining Scheme rule 12 MCDR1988	01/04/2015

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	12 Boreholes proposed with a depth of 397 m	13 boreholes proposed with a depth of 426.50 m	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rs. 8,60,000/-	B.S.Envitech, Hyderabad Rs.12 lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	2.49 Million tonnes	2.41 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Total mineralised area has been explored.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northwestern side	Northwestern side as proposed in the Scheme of Mining	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Top Soil No OB One Ore Bench	No Top Soil No OB One Ore Bench	
2c	Stripping ratio or ore to OB ratio	1:0.35	1:0.08	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	24195 m3	NIL	Because of less production than the proposed,development work was also reduced. Mainly the workings are restricted inside the pit.

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	126,968 MT	30,000 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.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Applicable	Not Applicable	
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	Provided	

3k	Provision of mining machineries in mineral benches	Excavator, Rock Breaker, Dumper	Excavator, Rock Breaker, Dumper	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height is 10 m which is suitable for the excavation proposed by the machinery	Bench height is 10 m and the excavators used are suitable for it.	
3m	Total area covered under excavation/pits	7.30 ha	7.30 ha	
3n	Ore to OB ratio for the pit/mine during the year.	0.35	0.08	
3o	Total area put in use under different heads at the end of year	13.36 ha	13.36 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12--3,48,900 t, 2012-13--3,49,860 t, 2013-14--3,46,770 t, 2014-15--2,99,938 t, 2015-16--1,26,968 t	2011-12--80,000 t, 2012-13--90,000 t, 2013-14--60,000 t, 2014-15--80,000 t, 2015-16--30,000 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Mining operations are being carried out as per the approved proposals.

## 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, OB and Top Soil	
4b	Location of topsoil, OB and mineral reject dumps	OB-North West side of ML Top Soil-North East side of ML	OB-North West side of ML Top Soil-North East side of ML	

4c	Number of dumps within lease area and outside of lease area	Two- One OB dump and one top soil dump	Two- One OB dump and one top soil dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the UPL	Out side the UPL	
4e	Number of active and alive dumps.	TWO	TWO	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	Not Applicable	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed in 2014-15 over an extent of 0.05 ha and 0.16 ha respectively	Not done	Violation of Rule 11(1) has been pointed out to the party.
4i	Length of Retaining wall or garland drain all along dumps	800m & 530m respectively	NIL	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	_____

#### 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	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	

5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	_____

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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	YES	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
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	NIL	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2430	2500	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.62 HA	1.5 HA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Afforestation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Complied	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	_____

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 Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM is being dispatched	ROM is being dispatched
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable	Not Applicable
7c	Different grade of mineral sorted out at mines.	Not Applicable	Not Applicable
7d	Any beneficiation process at mines	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____

## Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	2400 m3	NIL	Workings are restricted within the pit
8b	Concurrent use or storage of topsoil	Plantation	Used for plantation and dumping in the designated area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, One OB dump and One Top soil dump	Yes, One OB dump and One Top soil dump	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Not applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Not matured for reclamation
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2430 in 1.62 ha	So far 5000 saplings were planted with an area of 2.0 ha	
8g	Survival rate	_____	75%	
8h	Water sprinkling on roads to control airborne dust	Dedicated water tanker of 12 KL capacity for water sprinkling	Water tanker of 12 KL capacity deployed for water sprinkling	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	The area in and around the ML is greenary with huge plantation.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Online monthly and annual returns submitted up to date	Online monthly and annual returns submitted up to date	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri. M.Ravinder Reddy, Mines Manager & Mining Engineer Sri.B. Sadasiva Rao, Geologist	Sri. M.Ravinder Reddy, Mines Manager & Mining Engineer Sri.B. Sadasiva Rao, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Pit--7.32 ha Reclaimed area--NIL Area under dump--0.60 ha	Area under Pit--7.32 ha Reclaimed area--NIL Area under dump--0.60 ha	

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9d	Scrutiny of Annual return on afforestation	2430 within ML 1000 Outside ML	2430 within ML 1000 Outside ML	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	30,000 MT	30,000 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production- Rs.531.74	Cost of Production- Rs.531.74	Captive Mine
9h	Scrutiny of Annual return on fixed assets	66.29 crores	66.29 crores	
9k	Scrutiny of Annual return on mining machineries	Excavator-7, Rock Breaker-1, Dumper-19, Drilling Machine-4, Dozer-3	Excavator-7, Rock Breaker-1, Dumper-19, Drilling Machine-4, Dozer-3	

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**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 :**

**(Ch.Suseela)**

Indian Bureau of Mines