

**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 : **S41** ) **Y M SIVA PRASAD**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri Ravinder Reddy, Mines Manager.  
Official with  
Designation
- (iv) Date of Inspection : 17/08/2018
- (v) Prev.inspection date : 31/10/2017

**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                                            | N I L                                                     | N I L                                                                                        |                                                          |
| 1b     | Exploration over lease area for geological axis 1 or 2              | 3 Bore holes proposed with a total meterage of 90 meters. | Exploration of bore holes completed.                                                         |                                                          |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | Not mentioned.                                            | Rs. 12 lakhs incurred towards exploration. Exploration work carried out by M/s B.S.Envitech. |                                                          |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | N I L                                                     | N I L                                                                                        | Total mineralised area has been explored under G1 scale. |
| 1e     | Balance reserve as on 01/04/20                                      | 0.33 million tonnes                                       | 0.26 million tonnes.                                                                         |                                                          |
| 1f     | General remarks of inspecting officers on geology, exploration etc  | -----                                                     | -----                                                                                        | Total mineralised area has been explored G1 scale.       |

## Development :

| Sl.No. | Item                                                           | Proposals                          | Actual work                        | Remarks |
|--------|----------------------------------------------------------------|------------------------------------|------------------------------------|---------|
| 2a     | Location of development w.r.t. lease area                      | North west side of the lease area. | North west side of the lease area. |         |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | Ore bench - one.                   | Ore bench - one.                   |         |
| 2c     | Stripping ratio or ore to OB ratio                             | 1 : 0.74                           | 1 : 0.20                           |         |
| 2d     | Quantity of topsoil generation in m3                           | No proposals                       | N I L                              |         |
| 2e     | Quantity of overburden generation in m3                        | 18700 cum.                         | 7740 cum.                          |         |

## 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                                                          | 239205 tonnes.                                    | 70000 tonnes                                                                                                      |         |
| 3c     | Recovery of sailable/usable mineral from ROM production                                              | 100%                                              | 100%                                                                                                              |         |
| 3d     | Quantity of mineral reject generation                                                                | N I L                                             | N I L                                                                                                             |         |
| 3f     | Quantity of sub grade mineral generation.                                                            | No proposals                                      | There is no generation of sub grade mineral.                                                                      |         |
| 3j     | Provision of drilling and blasting in mineral benches                                                | Proposed.                                         | Deep hole drilling and blasting is carried out in mineral benches.                                                | NONE    |
| 3k     | Provision of mining machineries in mineral benches                                                   | Proposal of using machineries in mineral benches. | Machineries are used in mineral benches.                                                                          |         |
| 3l     | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 10 meters bench height.                           | 10 meters bench height and width is more than the bench height is maintained. It is suitable formethod of mining. |         |
| 3m     | Total area covered under excavation/pits                                                             | 9.21 ha                                           | 7.32 ha.                                                                                                          |         |
| 3n     | Ore to OB ratio for the pit/mine during the year.                                                    | 1 : 0.74                                          | 1 : 0.20                                                                                                          |         |
| 3o     | Total area put in use under different heads at the end of year                                       | 19.49 ha                                          | 13.19 ha.                                                                                                         |         |

|    |                                                                          |                                                                                                                                                |                                                                                                                                      |                                                                                                      |
|----|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 3p | Production of ROM mineral during the last five year period as applicable | 2013-14 = 3,46,770 tonnes.<br>2014-15 = 2,99,938 tonnes<br>2015-16 = 1,26,968 tonnes<br>2016-17 = 1,40,545 tonnes<br>2017-18 = 2,39,205 tonnes | 2013-14 = 60,000 tonnes<br>2014-15 = 80,000 tonnes<br>2015-16 = 30,000 tonnes<br>2016-17 = 50,000 tonnes<br>2017-18 = 70,000 tonnes. |                                                                                                      |
| 3q | General remarks of inspecting officers on method of mining etc.          | -----                                                                                                                                          | ----                                                                                                                                 | As on date of inspection, pit was under water logged and no mining operations are being carried out. |

## Solid Waste Management - Dumping:

| Sl.No. | Item                                                             | Propasals                 | Actual work                                                                 | Remarks |
|--------|------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------|---------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Proposed.                 | Yes. Seperate dumping site is maintained at earmarked area, within M Larea. |         |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | North side of lease area. | North side of lease area.                                                   |         |
| 4c     | Number of dumps within lease area and outside of lease area      | One dump within M L.      | One dump within M L.                                                        |         |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)            | Beyond UPL.               | Beyond UPL.                                                                 |         |
| 4e     | Number of active and alive dumps.                                | One active dump.          | One active dump.                                                            |         |
| 4f     | Number of dead dumps.                                            | N I L                     | N I L                                                                       |         |
| 4g     | Number of dumps established.                                     | N I L                     | N I L                                                                       |         |

|    |                                                                    |                                                    |                                                       |                                                       |
|----|--------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Retaining wall proposed to a length of 530 meters. | Retaining wall is being constructed in phased manner. |                                                       |
| 4i | Length of Retaining wall or garland drain all along dumps          | 530 meters.                                        | 200 meters.                                           |                                                       |
| 4j | Number of settling ponds                                           | N I L                                              | N I L                                                 |                                                       |
| 4k | Specific comments of inspecting officer on waste dump management   | -----                                              | -----                                                 | Retaining wall is being constructed in phased manner. |

#### 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. | N I L     | N I L       |                                                     |
| 5b     | Area under backfilling of mined out area                                                      | N I L     | N I L       |                                                     |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | N I L     | N I L       |                                                     |
| 5d     | Total area fully reclaimed and rehabilitated                                                  | N I L     | N I L       |                                                     |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    | -----     | -----       | Pit is not matured for backfilling and reclamation. |

#### Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).                               | Annual report on PMCP is to be submitted as per statute. | Lessee has submitted Annual report on PMCP for the year 2017-18 to this office. |
| 6b | Area available for rehabilitation (ha) .                                                                   | N I L                                                    | N I L                                                                           |
| 6c | afforestation done (ha).                                                                                   | N I L                                                    | N I L                                                                           |
| 6d | No. of saplings planted during the year                                                                    | N I L                                                    | N I L                                                                           |
| 6f | Any other method of rehabilitation                                                                         | N I L                                                    | N I L                                                                           |
| 6g | Cost incurred on watch and care during the year                                                            | N I L                                                    | N I L                                                                           |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | N I L                                                    | N I L                                                                           |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | N I L                                                    | N I L                                                                           |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area       | N I L                                                    | N I L                                                                           |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | N I L                                                    | N I L                                                                           |

|    |                                                                                                   |                                                 |                                                                                             |      |
|----|---------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------|------|
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.          | N I L                                           | N I L                                                                                       |      |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation                          | 2325 saplings                                   | 2500 saplings.                                                                              |      |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)              | N I L                                           | N I L                                                                                       |      |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation             | N I L                                           | N I L                                                                                       |      |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | Quarterlr environmental monitoring is proposed. | Quarterlr environmental monitoring is carried out and reports are being submitted to I.B.M. |      |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | NONE                                            | NONE                                                                                        | NONE |

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Mineral Conservation:

| Sl.No. | Item                                                            | Propasals       | Actual work | Remarks                                                    |
|--------|-----------------------------------------------------------------|-----------------|-------------|------------------------------------------------------------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area    | N I L           | N I L       | No grade wise sorting is done.Total ROM is being utilised. |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical. | Not applicable  | N I L       |                                                            |
| 7c     | Different grade of mineral sorted out at mines.                 | Not applicable. | N I L       |                                                            |

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|----|----------------------------------------------------------------------------------------|-------|-------|--------------------------------------------------------------|
| 7d | Any beneficiation process at mines                                                     | N I L | N I L |                                                              |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | ----- | ----- | No beneficiation is required as total ROM is being utilised. |

## Environment:

| Sl.No. | Item                                                                                                        | Propasals       | Actual work    | Remarks |
|--------|-------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)                                                       | N I L           | N I L          |         |
| 8b     | Concurrent use or storage of topsoil                                                                        | Not applicable. | N I L          |         |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | OB dump.        | OB dump.       |         |
| 8d     | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | N I L           | N I L          |         |
| 8e     | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | N I L           | N I L          |         |
| 8f     | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | 2320 saplings   | 2500 saplings. |         |
| 8g     | Survival rate                                                                                               | Not mentioned.  | 75%            |         |

|    |                                                                                    |                                        |                                                                                                 |                                                           |
|----|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 8h | Water sprinkling on roads to control airborne dust                                 | Water tanker with a capacity of 12 KL. | Water tanker with a capacity of 1K KL is deployed for water sprinkling to arrest airborne dust. |                                                           |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | -----                                  | -----                                                                                           | The area in and around the mine is with aesthetic beauty. |

#### Compliance of Rule 45:

| Sl.No. | Item                                                                                          | Propasals                                                               | Actual work                                                                                  | Remarks |
|--------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------|
| 9a     | Status of submission of Monthly and Annual returns                                            | Lessee has to submit Monthly returns and Annual return as per statute.. | Lessee has submitted Monthly returns and Annual return for the year 2017-18 through On-Line. |         |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Mining Engineer : Shri. M.Ravinder Reddy. Geologist : Shri S.Thrupati.  | Mining Engineer : Shri. M.Ravinder Reddy. Geologist : Shri S.Thrupati.                       |         |
| 9c     | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area coverd under pits : 7.32 ha. Area covered under Dump : 0.60 ha.    | Area coverd under pits : 7.32 ha. Area covered under Dump : 0.60 ha.                         |         |
| 9d     | Scrutiny of Annual return on afforestation                                                    | 2000 saplings                                                           | 2000 saplings.                                                                               |         |
| 9e     | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | N I L                                                                   | N I L                                                                                        |         |
| 9f     | Scrutiny of Annual return on ROM stock and/or graded ore                                      | N I L                                                                   | N I L                                                                                        |         |
| 9g     | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Cost of production = Rs.528.37/-                                        | Cost of production = Rs.528.37/-                                                             |         |

|    |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|----|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 9h | Scrutiny of Annual return on fixed assets       | Rs.1864431679/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rs.1864431679/-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 9k | Scrutiny of Annual return on mining machineries | AIR COMPRESSOR 7.000 CUM/MN 1 Non Electrical Opencast<br>PUMPS (ELEC.) 3000.000 L/MN 2 Electrical Opencast<br>PUMPS (ELEC.) 2500.000 L/MN 2 Electrical Opencast<br>PUMPS (ELEC.) 1000.000 L/MN 2 Electrical Opencast<br>PUMPS (ELEC.) 1000.000 L/MN 2 Electrical Opencast<br>BLAST HOST DRILL 100.000 MM 1 Non Electrical Opencast<br>BLAST HOST DRILL 150.000 MM 4 Non Electrical Opencast<br>DOZER 320.000 HP 3 Non Electrical Opencast<br>SHOVEL (HYDRAULIC) 3.700 CUM 3 Non Electrical Opencast<br>SHOVEL (HYDRAULIC) 2.700 CUM 4 Non Electrical Opencast<br>SHOVEL (HYDRAULIC) 0.900 CUM 1 Non | AIR COMPRESSOR 7.000 CUM/MN 1 Non Electrical Opencast<br>PUMPS (ELEC.) 3000.000 L/MN 2 Electrical Opencast<br>PUMPS (ELEC.) 2500.000 L/MN 2 Electrical Opencast<br>PUMPS (ELEC.) 1000.000 L/MN 2 Electrical Opencast<br>BLAST HOST DRILL 100.000 MM 1 Non Electrical Opencast<br>BLAST HOST DRILL 150.000 MM 4 Non Electrical Opencast<br>DOZER 320.000 HP 3 Non Electrical Opencast<br>SHOVEL (HYDRAULIC) 3.700 CUM 3 Non Electrical Opencast<br>SHOVEL (HYDRAULIC) 2.700 CUM 4 Non Electrical Opencast<br>SHOVEL (HYDRAULIC) 0.900 CUM 1 Non |  |

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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 :

(Y M SIVA PRASAD)

Indian Bureau of Mines