

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KRM/LST-1/HYD

Mine code : 38APR09001

- (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 : 16/08/2018
- (v) Prev.inspection date : 30/10/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BASANTNAGAR**
- (b) **Registration NO.** : **IBM/245/2011**
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : **TELANGANA**
- District : **KARIMNAGAR**
- Village : **BASANTNAGAR**
- Taluka : **RAMAGUNDAM**
- Post office : **BASANTNAGAR**
- Pin Code : **505187**
- FAX No. : **08728-228160**
- E-mail : **kesocoid@cal3.vsnl.net.in**
- Phone : **08728-228135**
- (f) **Police Station** :
- (g) **First opening date** : **01/01/1965**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **BASANTHNAGAR**
RAMAGUNDAM TALUKA
KARIMNAGAR DISTRICT
3. (a) **Lease Number** : **APR0033**
- (b) **Lease area** : **412.87**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **17/08/2026**
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 : Tridib Kumar Das, Whole time Director
 Kesoram Industries Ltd. 5A
 & B, Amaravati, 63, Purna
 Das Road Kolkata-700029
 KOLKATA WEST BENGAL
 Phone:
 FAX :

Agent : Ch.S.Nageswara Rao, Plant Head
 Kesoram Cement,
 Basantnagar(PO)
 Ramagundam(M) Telangana
 KARIMNAGAR TELANGANA
 Phone: 08728-228135
 FAX : 08728-228160

Geologist
 Name : B.SADASIVA RAO, Full Time
 Qualification : M.Sc
 Appointment/ : 04/07/2008
 Termination date

Manager
 Name : M.Ravindar Reddy, DGM (MInes)
 Qualification : B.E.Mining
 Appointment/ : 31/08/2014
 Termination date

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|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 27/06/2000 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 01/02/2005 |
| | | Renewal under rule 24 MCR1960 | 09/10/2006 |
| | | Mining Scheme rule 12 MCDR1988 | 23/08/2012 |
| | | MP modif under 17(3) MCR 2016 | 08/03/2017 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|----------------------|---------------------------------------|---------|
| 1a | Backlog of previous year | Nil | Nil | None |
| 1b | Exploration over lease area for geological axis 1 or 2 | Nil | Total area covered under Gq category. | None |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Rs. 8,60,000/- | 12,00,000/- (For total exploration) | None |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | Nil | None |
| 1e | Balance reserve as on 01/04/20 | 12.28 Million tonnes | 11.43 Million Tonnes | Nil |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|--|---------|
| 2a | Location of development w.r.t.lease area | Section Lines y-y' & v-v' in H Block, N-N' in G Block, E-E', F-F' & G-G' IN E & I Blocks and R-R' & P-P' in F Block | E-E', F-F' & G-G' IN E & I Blocks and R-R' & P-P' in F Block | None |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | OB-9 benches Ore - 2 benches | OB-9 benches Ore - 2 benches | None |
| 2c | Stripping ratio or ore to OB ratio | 1:2.02 | 1:2.58 | None |
| 2d | Quantity of topsoil generation in m3 | No proposal | Nil | None |

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|----|---|---------------|--------------|--|
| 2e | Quantity of overburden generation in m3 | 13,38,278 cum | 8,77,923 cum | None |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | - | - | Development work is being carried out more than the proposed due to steep dipping. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|------------------|--|---------|
| 3a | Number of pit proposed for production | 5 pits | 5 pits | None |
| 3b | Quantity of ROM mineral production proposed | 16,55,765 tonnes | 8,50,000 tonnes | None |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% | 100% | None |
| 3d | Quantity of mineral reject generation | N proposal | Nil | None |
| 3e | Grade of mineral rejects generation and threshold value declared. | N IL | N I L | |
| 3f | Quantity of sub grade mineral generation. | N I L | N I L | |
| 3g | Grade of sub grade mineral generation | Not Applicable | N I L | |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No proposals | N I L | |
| 3j | Provision of drilling and blasting in mineral benches | Proposed | Deep hole drilling and blasting is carried out in mineral benches. | NONE |

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|----|--|---|--|------|
| 3k | Provision of mining machineries in mineral benches | Proposal of using of machineries in mineral benches. | Machineries are used in mineral benches. | None |
| 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 and it is suitable for method of mining. | None |
| 3m | Total area covered under excavation/pits | 116.15 ha. | 116.15 ha. | None |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1 : 1.69 | 1 : 1.4 | NONE |
| 3o | Total area put in use under different heads at the end of year | 257.18 HA. | 257.78 HA. | None |
| 3p | Production of ROM mineral during the last five year period as applicable | 2013-14 = 1793072 TONNES 2014-15 = 1739481 tonnes 2015-16 = 1775445 tonnes 2016-17 = 973215 tonnes 2017-18 = 1655765 tonnes | 2013-14 = 1050000 tonnes 2014-15 = 770000 tonnes 2015-16 = 815000 tonnes 2016-17 = 820000 tonnes 2017-18 = 850000 tonnes | |
| 3q | General remarks of inspecting officers on method of mining etc. | NONE | NONE | NONE |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Proposed | 4 waste dumps observed within lease area. | |
| 4b | Location of topsoil, OB and mineral reject dumps | North west, North East and South West sides of the lease area. | North west, North East and South West sides of the lease area. | None |

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|----|--|--------------------------|---|------|
| 4c | Number of dumps within lease area and outside of lease area | 4 Dumps | 03 Active dumps | None |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Beyond UPL | Beyond UPL | None |
| 4e | Number of active and alive dumps. | 5 Dumps | All 05 are active dumps | None |
| 4f | Number of dead dumps. | Nil | Nil | None |
| 4g | Number of dumps established. | 02 | 02 dumps are established. | None |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Retaining Wall proposed. | Retaining wall is constructed. | None |
| 4i | Length of Retaining wall or garland drain all along dumps | 100m x L x 1m W x 1m H | 100m x L x 1m W x 1m H retaining wall constructed at Toe of g@ dump yard. | |
| 4j | Number of settling ponds | No proposal | Nil | |
| 4k | Specific comments of inspecting officer on waste dump management | None | None | None |

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 | Nil |
| 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 |

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|----|--|-----|-----|-----|
| 5d | Total area fully reclaimed and rehabilitated | Nil | Nil | Nil |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | Nil | Nil | Nil |

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). | Annual report is to be submitted as per statuate. | Lessee has submitted yearly report for the year 2017-18. | None |
| 6b | Area available for rehabilitation (ha) . | Nil | Nil | Nil |
| 6c | afforestation done (ha). | 1.26 ha | 1.30 ha | None |
| 6d | No. of saplings planted during the year | 1890 saplings | 2000 saplings | None |
| 6e | Cumulative no .of plants | 1890 saplings | 2000 saplings | None |
| 6f | Any other method of rehabilitation | No proposal | Nil | None |
| 6g | Cost incurred on watch and care during the year | Not mentioned | Nil | None |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | Nil | Nil | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | Nil | Nil | Nil |

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|----|---|--|---|------|
| 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 | 1890 saplings | 2000 saplings | None |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | Nil | Nil | Nil |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Nil | Nil | None |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Quarterly enviromental monitoring is proposed. | Quarterly enviromental monitoring is being carried out and reports are submitted to this office.. | None |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | |

Mineral Conservation:

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

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|----|--|---------------|---------------|------------------------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | 850000 tonnes | 850000 tonnes | Total ROM is being sent to crusher |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | NA | NA | None |
| 7c | Different grade of mineral sorted out at mines. | NA | NA | None |
| 7d | Any beneficiation process at mines | NA | NA | None |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | None | None | None |

Environment :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------|--|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Proposed | Very small quantity of soil is generated and utilised for plantation purpose | None |
| 8b | Concurrent use or storage of topsoil | Proposed | Very small quantity of soil is generated and utilised for plantation purpose | None |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Proposed | Separate dumps are maintained. | None |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No proposals | Nil | Nil |

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|----|---|---|---|--|
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Nil | Nil | Nil |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 1890 saplings | 2000 saplings | none |
| 8g | Survival rate | 80% | 75% | None |
| 8h | Water sprinkling on roads to control airborne dust | Water tanker is with a capacity of 12 KL is proposed. | Water tanker is with a capacity of 12 KL is deployed for water sprinkling on hauls roads to arrest air born dust. | None |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | None | None | The area in and around the mine is with aeasthetic beauty. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---------|
| 9a | Status of submission of Monthly and Annual returns | Monthly and Annual returns are to be submitted to this office as per statute. | Monthly and Annual returns are submitted through on line to this office | None |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mines Manager and Mining Engineer Shri M Ravinder Reddy, Geologist | Mines Manager and Mining Engineer Shri M Ravinder Reddy, Geologist | None |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area under pits: 116.150 ha Reclaimed area 39.93 ha Dumps 76.10 ha | Area under pits: 116.150 ha Reclaimed area 39.93 ha Dumps 76.10 ha | |

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|----|---|--|--|-------------------------------|
| 9d | Scrutiny of Annual return on afforestation | 2000 saplings with in ML and 5400 outside Mining area. | 2000 saplings with in ML and 5400 outside Mining area. | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Nil | None |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | 850000 tonnes | 850000 tonnes | Total ROM is send to crusher. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Cost of production is Rs. 528.37/- | Cost of production is Rs. 528.37/- | |
| 9h | Scrutiny of Annual return on fixed assets | Rs. 144295808/- | Rs. 144295808/- | |

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|----|--|--|--|------|
| 9k | Scrutiny of Annual return on mining machineries | AIR COMPRESSOR 7.000 CUM/MN 1 Non Electrical Opencast PUMPS (ELEC.) 3000.000 L/MN 2 Electrical Opencast PUMPS (ELEC.) 2500.000 L/MN 2 Electrical Opencast PUMPS (ELEC.) 1000.000 L/MN 2 Electrical Opencast BLAST HOST DRILL 100.000 MM 1 Non Electrical Opencast BLAST HOST DRILL 150.000 MM 4 Non Electrical Opencast DOZER 320.000 HP 3 Non Electrical Opencast SHOVEL (HYDRAULIC) 3.700 CUM 3 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.700 CUM 4 Non Electrical Opencast SHOVEL (HYDRAULIC) 0.900 CUM 1 Non | AIR COMPRESSOR 7.000 CUM/MN 1 Non Electrical Opencast PUMPS (ELEC.) 3000.000 L/MN 2 Electrical Opencast PUMPS (ELEC.) 2500.000 L/MN 2 Electrical Opencast PUMPS (ELEC.) 1000.000 L/MN 2 Electrical Opencast BLAST HOST DRILL 100.000 MM 1 Non Electrical Opencast BLAST HOST DRILL 150.000 MM 4 Non Electrical Opencast DOZER 320.000 HP 3 Non Electrical Opencast SHOVEL (HYDRAULIC) 3.700 CUM 3 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.700 CUM 4 Non Electrical Opencast SHOVEL (HYDRAULIC) 0.900 CUM 1 Non | NONE |
|----|--|--|--|------|

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