

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-192/HYD

Mine code : 38APR11163

- (i) Name of the Inspecting : **M015**) **MANISH K. MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 14/12/2017
- (v) Prev.inspection date : 24/03/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **YANAKANDLA (343.22 HA)**
- (b) **Registration NO.** : **IBM/12134/2012**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : **ANDHRA PRADESH**
District : **KURNOOL**
Village : **YANAKANDLA**
Taluka : **KURNOOL**
Post office : **BANAGANAPALLE**
Pin Code : **518124**
FAX No. : **085151-200507**
E-mail : **jayabharatreddy.n @myhomeg**
Phone : **08515-200508**
- (f) Police Station : **BANAGANAPALLI**
- (g) First opening date : **12/03/2012**
- (h) Weekly day of rest : **SUN**
2. Address for : **UENKANDLA (VILLAGE&POST)**
correspondance : **BANAGANAPALLE MANDALAM**
JURNOOL DIST ,ANDHRAPRADESH-PINCODE 518124
3. (a) Lease Number : **APR3286**
- (b) Lease area : **343.22**
- (c) Period of lease : **20**
- (d) Date of Expiry : **02/01/2032**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : M/S.SREE JAYAJOTHI CEMENTS LTD
KURNOOL ANDHRA PRADESH
Phone:
FAX :

Owner : Sri. J.Ramu Rao
My Home Inds.Ltd. 9 th
Floor, Block-3, My Home Hub
Madhapur, Hyderabad
HYDERABAD TELANGANA
Phone:
FAX :

Agent : D.S.N.V.PRASAD
BOINCHERUVUPALLI VILLAGE
KURNOOL DISTRICT KURNOOL
ANDHRA PRADESH
Phone: 08522-249952
FAX : 08522-249920

6. Date of approval of Mining : Modif.of approved Mining Plan 19/05/2015
Plan/Scheme of Mining MP modif under MCR 1960 08/03/2016

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 | - | G1 level of exploration Yanakandla-94.27 hectare patapadu block-38.34 hectare G2 level of exploration Yanakandla-20.19 hectare patapadu block-32.61 hectare G3 level of exploration Yanakandla-NIL hectare patapadu block-4.21 hectare Non mineralised 140.11 hectare | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NA | NA | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | | Yanakandla block - 114.46 hectare explored, 13.49 hectare is balance . since this area lies in pink limestone and safety barrier zone , no exploration was taken. Pathapady Block: No exploration required, Erragudi block- No exploration proposed as the existing boreholes proved it to be highly siliceous. | |
| 1e | Balance reserve as on 01/04/20 | | balance reserves (111/121/122)as on 31.12.2015= 42.77 million tonnes reserves as on 1.04.2017= | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | |

Development :

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

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| 2a | Location of development w.r.t.lease area | One major pit was proposed in Yanakandla along with opening of faces in Pathapadu block by moving the old dumps. | Undertaken as proposed | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | No OB and no top soil is there in yanakandla mine and pathapadu mine area. | No OB and no top soil is there in yanakandla mine and pathapadu mine area. | |
| 2c | Stripping ratio or ore to OB ratio | NA | NA | |
| 2d | Quantity of topsoil generation in m3 | NA | NA | - |
| 2e | Quantity of overburden generation in m3 | - | - | However the waste generation reported is due to development of sump in the non pay zone area i.e. pink limestone in the bottom of the deposit. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|-------------------------|---------|
| 3a | Number of pit proposed for production | One major pit was proposed in Yenakandla along with opening of faces in pathapadu block by miving the old dumps. | Undertaken as proposed. | |
| 3b | Quantity of ROM mineral production proposed | 2.7 MT of Limestone was proposed | 1.495 mT of lmestone | |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% recovery | 100% recovery | |

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| 3d | Quantity of mineral reject generation | 51000 MT of lower lithonui i.e, pink siliceous limestone was proposed for sump development | 174026 MT of lower lithounit i.e, pink siliceous limestone was undertaken for sump development |
| 3e | Grade of mineral rejects generation and threshold value declared. | Limestone with more than 18% silica | As per proposal mineral more than threshold is generated. |
| 3f | Quantity of sub grade mineral generation. | NA | NA |
| 3g | Grade of sub grade mineral generation | NA | NA |
| 3h | Manual / Mechanised method adopted for segregating from ROM | NA | Entire mineral in Yanakandla and Pathapadu block has so far been used |
| 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 | drilling blasting with 115mm dia drill m/s was proposed | undertaken accordingly. |
| 3k | Provision of mining machineries in mineral benches | excavator-tipper combination proposed | undertaken accordingly. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | | Yes |
| 3m | Total area covered under excavation/pits | 36 hect. | 36 hect. |
| 3n | Ore to OB ratio for the pit/mine during the year. | - | 1:0- |

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|----|--|--|--|
| 3o | Total area put in use under different heads at the end of year | 58.35 ha. | Approx. 30 ha |
| 3p | Production of ROM mineral during the last five year period as applicable | Year prod in million tonnes 2012-13 - 3.0 mt 2013-14 - 2.99 mt 2014-15 - 3.0 mt 2015-16 - 2.70 mt 2016-17 - 2.70 mt | Year prod in million tonnes 2012-13 - 1.05 mt 2013-14 - 1.16 mt 2014-15 - 1.32 mt 2015-16 - 1.56 mt 2016-17 - 1.49 mt |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--------------------------------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Seperate dumpng of mineral reject generation was proposed in the lower pink limestone area for sump development. | Undertaken accordingly. | |
| 4b | Location of topsoil, OB and mineral reject dumps | Dumping was proposed at location N10200-E14500 | Done at the same location | |
| 4c | Number of dumps within lease area and outside of lease area | 02 | 02 | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | - | Dumping are on non mineralized zone. | |
| 4f | Number of dead dumps. | - | 0 | |
| 4g | Number of dumps established. | - | No dump has been stabilized | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No proposal | Not undertaken | |

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|----|--|-------------|----------------|
| 4i | Length of Retaining wall or garland drain all along dumps | No proposal | not undertaken |
| 4j | Number of settling ponds | - | 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. | No proposa; | Area is not mature | |
| 5b | Area under backfilling of mined out area | - | - | - |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No top soil is there. | No top soil is generated. | |
| 5d | Total area fully reclaimed and rehabilitated | - | - | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | Even for plantation top soil is obtained from outside. | - | |

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). | - | Submitted on 27-06-2017. | |

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|----|--|---------------------------------|---------------------------------------|---|
| 6b | Area available for rehabilitation (ha) . | No proposal worked out benches. | in Area is not mature for the purpose | |
| 6d | No. of saplings planted during the year | No proposal worked out benches. | in Area is not mature for the purpose | |
| 6e | Cumulative no .of plants | No proposal worked out benches. | in Area is not mature for the purpose | |
| 6f | Any other method of rehabilitation | No proposal worked out benches. | in Area is not mature for the purpose | |
| 6g | Cost incurred on watch and care during the year | - | -- | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | - | Area is not mature for the purpose | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | - | Not applicable | - |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area | - | Area is not mature for the purpose | - |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | - | Area is not mature for the purpose | - |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | - | --- | |

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|----|---|---------|---------|---|
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | 500 | 615 | |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | 0.60 ha | 0.65 ha | |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | - | - | - |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Done | Done | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | - | - | |

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 No -
of inspecting
officer on
Mineral
conservation and
beneficiation
issues

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No top soil is there in the lease area. | NA | |
| 8b | Concurrent use or storage of topsoil | NA | NA | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Mineral reject dump is thre on the grid line N10200-E14500 | It is on the non mineralised/pink limestone area. | |
| 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) | As per the last approved document 2.05 ha area was under green belt and additional 3.85 ha area was proposed to be brought under plantation 2020-21. | Area under plantation as present is about 3 ha. | |

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|----|--|---|---------------------|
| 8g | Survival rate | - | 85% |
| 8h | Water sprinkling on roads to control airborne dust | - | Undertaken proposed |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---------|
| 9a | Status of submission of Monthly and Annual returns | MR Submitted upto November 2017 AR submitted upto july 2017. | | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | - | Geologist (P Ganesh Narendra Reddy) appointed under Rule 55 is changed on 01.10.2017 | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Approx. 29.09 broekn by pit Waste dump 2.005 Infra road - 2.85 ha Plantation 2.74 ha | As per submission | |
| 9d | Scrutiny of Annual return on afforestation | 615 saplings with 75% survival in the ML area | saplings have been planted | |
| 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 | 1495000 MT | same as reported | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | - | Rs 312 PMT reported by the lessee | |
| 9h | Scrutiny of Annual return on fixed assets | - | - | |

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| 9k | Scrutiny of Annual return on mining machineries | - | machinery deployed as proposed |
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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 |
| | | | |

Date :

(MANISH K. MAINDIRATTA)

Indian Bureau of Mines