

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

**MCDR inspection REPORT  
Hyderabad regional office**

**Mine file No :** AP/RR/LST-1/HYD

**Mine code :** 38APR23001

- (i) Name of the Inspecting : **AP03** ) **A.Prabhakar Rao**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : SINHA MINES MANAGER  
Official with  
Designation
- (iv) Date of Inspection : 27/10/2017
- (v) Prev.inspection date : 20/02/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KARANKOTE**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TELANGANA
- District : RANGAREDDY
- Village : KARANKOTE
- Taluka : TANDUR
- Post office : CCI TANDUR
- Pin Code : 501158
- FAX No. : 08411-247218
- E-mail : miningccitandur@mail.com
- Phone : 08411-247223
- (f) Police Station : KARANKOTE
- (g) First opening date : 12/01/1983
- (h) Weekly day of rest : SUN
2. Address for : CEMENT CORPORATION OF INDIA,  
correspondance TANDUR CEMENT FACTORY,  
TANDUR, R.R. DIST.
3. (a) Lease Number : APR0069
- (b) Lease area : 255.15
- (c) Period of lease : 20
- (d) Date of Expiry : 21/01/1994
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : CEMENT CORPORATION OF INDIA LTD  
 CORE-V,SCOPE COMPLEX  
 7,LODHI ROAD,NEW DELHI  
 110003 ADILABAD TELANGANA  
 Phone:  
 FAX :

Owner : SRI B.V.N. PRASAD DIRECTOR (HUMANRESOURCES)  
 S/O  
 SRIB.G.K.MURTHY,CCILTDCORE  
 5 SCOPE COMPLEX,7-LODI  
 ROAFD NEW DELHI DELHI DELHI  
 Phone:  
 FAX : (011)24364555,2

Agent : VIVEK KUMAR  
 TANDUR CEMENT FACTORY CCI  
 TANDUR RANGAREDDY  
 TELANGANA  
 Phone: (08411)247221/223  
 FAX : (08411)247243

Mining Engineer  
 Name : P.K.SINHA,Full Time  
 Qualification : B.TECH(MINING)  
 Appointment/ : 12/01/2008  
 Termination date

Manager  
 Name : PANKAJ KUMAR SINHA  
 Qualification : B.TECH MINING, FCC  
 Appointment/ : 12/01/2008  
 Termination date

|                               |   |                                |            |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Renewal under rule 22 MCR1960  | 19/11/2004 |
| Plan/Scheme of Mining         |   | Mining Scheme rule 12 MCDR1988 | 12/10/2012 |
|                               |   | MP modif under 17(3) MCR 2016  | 30/09/2016 |

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

## Exploration :

| Sl.No. | Item  | Proposals | Actual work   | Remarks  |
|--------|---|-----------|---|--|
| 1a     | Backlog of previous year  | None      | None  | Except in small area in Souyh West entire lease has been explored at G1 level                      |
| 1b     | Exploration over lease area for geological axis 1 or 2              | -         | Except in small area in Souyh West entire lease has been explored at G1 level | -  |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | -         | -   | Forty three DTH HOLES grid interval 200mx200m total 860 metewrage proposed during the year 2017-18 |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | -         | -   | -  |
| 1e     | Balance reserve as on 01/04/20                                      | -         | 184.32808 M.T   | -  |
| 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                       | Development proposed for removal of soil between W 20 to E100& N1150 to N1'200 I9N 2016-17 | Poor development has been done in 2016-17 so far.However in 2015-16 43437.5 cubic meters of top soil has been generated |         |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | Proposed   | Seperate benches are there  |         |
| 2c     | Stripping ratio or ore to OB ratio                             | No O.B   | NO O.B.   |         |

|    |   |                     |  |   |
|----|---|---------------------|--|---|
| 2d | Quantity of topsoil generation in m3  | 194610 CUBIC METERS | 2015-16=947375 TONNES, 2016-17=686708 TONNES | - |
| 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 | -                   | -  | - |

### Exploitation:

| Sl.No. | Item  | Propasals  | Actual work   | Remarks |
|--------|---|--|---|---------|
| 3a     | Number of pit proposed for production                             | 1  | 1   |         |
| 3b     | Quantity of ROM mineral production proposed                       | 2015-16= lapsed period, 2016-17=1500000 tonnes, 2017-18=1497510 tonnes | 2015-16=947375 tonnes, 2016-17=800000 tonnes, 2017-18=365000 tonnes (till 26.10.2017) |         |
| 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. | NIL  | NIL   |         |
| 3f     | Quantity of sub grade mineral generation.                         | NIL  | NIL   |         |
| 3g     | Grade of sub grade mineral generation                             | NIL  | NIL   |         |
| 3h     | Manual / Mechanised method adopted for segregating from ROM       | --   | 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  | PROPOSED   | PROVIDED  |
| 3k | Provision of mining machineries in mineral benches   | PROPOSED   | PROVIDED  |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | --   | Height of bench is suitable for the method of minng   |
| 3m | Total area covered under excavation/pits   | -  | Irregular pit of 950mx800mx23m  |
| 3n | Ore to OB ratio for the pit/mine during the year.  | No o.b   | No .O.B   |
| 3o | Total area put in use under different heads at the end of year                                       | --   | Total 112 hectars   |
| 3p | Production of ROM mineral during the last five year period as applicable                             | 2011-12=999360T<br>2012-13=1007160T<br>2013-14=998400T<br>2014-15=lapsed<br>2015-16=lapsed<br>2016-17=1497750T | 2011-12=820000T<br>2012-13=698070T<br>2013-14=810000T<br>2014-15=950000T<br>2015-16=947375T<br>2016-17=800000 tonnes<br>2017-18=365000tonnes(till 26.10.2017) |
| 3q | General remarks of inspecting officers on method of mining etc.                                      | NIL  | NIL   |

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Solid Waste Management - Dumping:

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

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|    |  |                                   |   |
|----|--|-----------------------------------|---|
| 4a | Separate dumping -<br>of topsoil, OB<br>and mineral<br>rejects (Rule<br>32,33) |                                   | Proposed Separate dump in<br>SW corner of the lease<br>area |
| 4b | Location of<br>topsoil, OB and<br>mineral reject<br>dumps                      | SW corner<br>of the lease<br>area | SW corner of the lease<br>area                              |
| 4c | Number of dumps<br>within lease<br>area and outside<br>of lease area           | ONE                               | ONE   |
| 4d | Location of<br>dumps w.r.t.<br>ultimate pit<br>limit (Rule 16)                 | As per the<br>proposal            | dump is on the area<br>proved for presence of<br>mineral    |
| 4e | Number of active -<br>and alive dumps.   |                                   | ONE   |
| 4f | Number of dead<br>dumps.   | NIL                               | NIL   |
| 4g | Number of dumps<br>established.  | NIL                               | NIL   |
| 4h | Whether<br>Retaining wall<br>or garland drain<br>all along dumps<br>are there. | NO PROPOSAL                       | NIL   |
| 4i | Length of<br>Retaining wall<br>or garland drain<br>all along dumps             | NO PROPOSAL                       | NIL   |
| 4k | Specific<br>comments of<br>inspecting<br>officer on waste<br>dump management   | NIL                               | NIL   |

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Solid Waste Management - Backfilling:

| Sl.No. | Item  | Proposals    | Actual work  | Remarks |
|--------|---|--------------|--|---------|
| 5a     | Status of part<br>or full<br>extraction of<br>mineral from<br>mined out area<br>before starting<br>backfilling. | No proposals | As the mineral is not<br>exhausted therefore no<br>backfilling is done |         |
| 5b     | Area under<br>backfilling of<br>mined out area  | NIL          | NIL  | NIL     |

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|    |   |     |     |               |
|----|---|-----|-----|---------------|
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | NIL | NIL | NIL           |
| 5d | Total area fully reclaimed and rehabilitated  | NIL | NIL | NA at present |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc.                | NIL | NIL | NIL           |

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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). | -            | Not submitted  |         |
| 6b     | Area available for rehabilitation (ha) .                                     | -            | Worked benches are not matured at present for the rehabilitation   |         |
| 6c     | afforestation done (ha).   | No proposals | NIL  |         |
| 6d     | No. of saplings planted during the year                                      | --           | Worked benches are not mature at present or the rehabilitation no plantation is being undertaken at worked benches 575 no.s sapplings were planted on 0.28hect near mines office and 15000 sapplings were plated on 7.50 hect outside the M.L.areaout side |         |
| 6e     | Cumulative no .of plants   | --           | 28081 sapplings over 15.34 hect in side the M.L.asrea,133285 sapplings were planted over 57.43 hect planted as on the date of inspection   |         |
| 6f     | Any other method of rehabilitation   | -            | Worked benches are not matured at present for the rehabilitation   |         |

|    |   |  |
|----|---|--|
| 6g | Cost incurred on watch and care during the year -   | -  |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D - | No part of 6the lease area is mature for backfilling |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings -           | Not applicxable at present                           |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area -        | Not applicable                                       |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir -   | Not applicable                                       |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. -                    | Not applicable                                       |



|    |   |   |   |   |
|----|---|---|---|---|
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation              |   | Regular plantation is being undertaken near mines office ,lease boundary 2015-16=500 sapplings(0.25 he4ct))within the M.L.area,2016-17=500 sapplings over 0.28 hect wit6hin the M.L.area AS on date of inspectioncumulative plantation 28081 over an area of 15.34hect within the M.L.area 133285 sapplings over an area of 57.43 hect out side the M.L.area carriedout by the lessee |   |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)  | - | Regular plantation is being undertaken near mines office ,lease boundary 2015-16=500 sapplings(0.25 he4ct))within the M.L.area,2016-17=500 sapplings over 0.28 hect wit6hin the M.L.area AS on date of inspectioncumulative plantation 28081 over an area of 15.34hect within the M.L.area 133285 sapplings over an area of 57.43 hect out side the M.L.area carriedout by the lessee |   |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | - | Regular plantation is being undertaken near mines office ,lease boundary 2015-16=500 sapplings(0.25 he4ct))within the M.L.area,2016-17=500 sapplings over 0.28 hect wit6hin the M.L.area AS on date of inspectioncumulative plantation 28081 over an area of 15.34hect within the M.L.area  | - |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                    | - | undertaken regularly  | - |

|    |   |     |     |     |
|----|---|-----|-----|-----|
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | NIL | NIL | NIL |
|----|---|-----|-----|-----|

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Mineral Conservation:

| Sl.No. | Item   | Propasals | Actual work | Remarks |
|--------|--|-----------|-------------|---------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | NA        | NA          | NA      |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | NA        | NA          | NA      |
| 7c     | Different grade of mineral sorted out at mines.  | NA        | NA          | NA      |
| 7d     | Any beneficiation process at mines   | NA        | NA          | NA      |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues | NIL       | NIL         | NIL     |

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Environment:

| Sl.No. | Item  | Propasals | Actual work                                | Remarks |
|--------|---|-----------|--|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32) | -         | Seperately and used ror plantation purpose |         |
| 8b     | Concurrent use or storage of topsoil                  | -         | Storage of top soil                        | -       |

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|    |   |     |  |     |
|----|---|-----|--|-----|
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | NA  | NA   | NA  |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | NA  | NA   | NA  |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | NA  | NA   | NA  |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | -   | -Plantation is done along haul road, In some parts of barrier zone etc |     |
| 8g | Survival rate   | -   | about 50%  | -   |
| 8h | Water sprinkling on roads to control airborne dust  | -   | Carried out as per the proposals                                       |     |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          | NIL | NIL  | NIL |

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Compliance of Rule 45:

| Sl.No. | Item   | Proposals | Actual work  | Remarks |
|--------|--|-----------|--|---------|
| 9a     | Status of submission of Monthly and Annual returns | -         | Monthly returns upto November 2017, Annual Return for year 2016-17 submitted by the lessee |         |

|    |   |   |  |     |
|----|---|---|--|-----|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           |   | Manager P.K.SINHA<br>8. Mining Engineer in charge P.K.SINHA<br>9. Geologist in charge AJIT SHUKLA  |     |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | - | Covered under (O/C) operations==73.00hect,Reclamated /Rehabilitated area=11.00hect , Area occupied by plant building residential quarter welfare building=32.60 hect,            | -   |
| 9d | Scrutiny of Annual return on afforestation  | - | 575 no.s sapplings were planted on 0.28hect near mines office survival rate 40% and 15000 sapplings were plated on 7.50 hect outside the M.L.areaout side with survival rate 60% |     |
| 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                                      | - | ROM PRODUCTION=800000.000 TONNES   |     |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | - | -  | -   |
| 9h | Scrutiny of Annual return on fixed assets   | - | -  |     |

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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 :**

**(A.Prabhakar Rao)**

Indian Bureau of Mines