

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

**Review and upadation of Mining Plan REPORT**

**Hyderabad regional office**

**Mine file No :** AP/GNR/LST-44/HYD

**Mine code :** 38APR07051

- (i) Name of the Inspecting : M029 ) MADHU SUDHAN YADAV M  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.Venkataramana, Gen. Manager, Sri. S. Prasad, Mine  
Official with  
Designation
- (iv) Date of Inspection : 26-OCT-22
- (v) Prev.inspection date : 24-JAN-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : TERALA(49.18 HA)
- (b) **Registration NO.** : IBM/680/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : GUNTUR
- Village : TERALA
- Taluka : MACHERLA
- Post office : MACHERLA
- Pin Code : 522426
- FAX No. : 08642222350
- E-mail : it.macherla@kcp.co.in
- Phone : 08642222303
- (f) **Police Station** : Macherla
- (g) **First opening date** : 08-DEC-09
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : TERALA VILLAGE  
DURGI MANDAL  
GUNTUR DISTRICT
3. (a) **Lease Number** : APR2597
- (b) **Lease area** : 49.18
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 11-DEC-28
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : M/S.KCP LTD  
 MACHERLA AT&PO GUNTUR  
 ANDHRA PRADESH  
 Phone:08642222303  
 FAX :08642-222350

Owner : DR.V.L.DUTT,C&MD  
 2,P.V. CHERIAN CRESCENT,  
 CHENNAI,TAMIL NADU.  
 CHENNAI CITY TAMIL NADU  
 Phone: 4466772600  
 FAX : 4466772620

Agent : B V P S Chowdhary  
 M/s KCP Cements Macherla-  
 522426 Andhra Pradesh  
 GUNTUR ANDHRA PRADESH  
 Phone: 08642-222303  
 FAX : 08642-222350

Manager  
 Name : S.PRASAD  
 Qualification : DIPLOMA IN MINING  
 Appointment/ : 18-JAN-10  
 Termination date

|                               |   |                                |           |
|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 20-OCT-14 |
| Plan/Scheme of Mining         | : | MP review under 17(1) MCR 2016 | 23-FEB-18 |



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

## Exploration :

| Sl.No. | Item  | Proposals   | Actual work   | Remarks  |
|--------|---|-------------|---|--|
| 1a     | Backlog of previous year  | No proposal | Nil   |  |
| 1b     | Exploration over lease area for geological axis 1 or 2              | No proposal | Nil   |  |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | No proposal | Nil   |  |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | No proposal | Entire mining lease area is covered under G1 level of exploration |  |
| 1e     | Balance reserve as on 01/04/20                                      | ----        | Proved Mineral Reserves as on 01/04/2022 - 1.25 million tonnes    |  |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |             |   | Entire mining lease area is covered under G1 level of exploration. |

## Development :

| Sl.No. | Item   | Proposals                                   | Actual work  | Remarks |
|--------|--|---|--|---------|
| 2a     | Location of development w.r.t.lease area                       | E334536-<br>E334805<br>N1816619-<br>1816758 | Work done within the proposed co-ordinates.                                |         |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | Only mineral benches proposed               | Only mineral benches developed   |         |
| 2c     | Stripping ratio or ore to OB ratio                             | No proposal                                 | Nil  |         |
| 2d     | Quantity of topsoil generation in m3                           | 2021-22 - 1842 cu.m                         | No record maintained for topsoil generation. Violation issued as per rule. |         |

2e Quantity of overburden generation in m3 No proposal Nil

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc Plans and sections not updated. Violation issued as per rule.

### Exploitation:

| Sl.No. | Item  | Proposals           | Actual work         | Remarks |
|--------|---|---------------------|---------------------|---------|
| 3a     | Number of pit proposed for production                             | One                 | One                 |         |
| 3b     | Quantity of ROM mineral production proposed                       | 2021-22 - 302750 Te | 2021-22 - 270000 Te |         |
| 3c     | Recovery of sailable/usable mineral from ROM production           | 100%                | 100%                |         |
| 3d     | Quantity of mineral reject generation                             | No proposal         | Nil                 |         |
| 3e     | Grade of mineral rejects generation and threshold value declared. | Not applicable      | Nil                 |         |
| 3f     | Quantity of sub grade mineral generation.                         | No proposal         | Nil                 |         |
| 3g     | Grade of sub grade mineral generation                             | Not applicable      | Nil                 |         |
| 3h     | Manual / Mechanised method adopted for segregating from ROM       | No proposal         | Nil                 |         |



|    |  |   |  |
|----|--|---|--|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.      | No proposal   | Nil  |
| 3j | Provision of drilling and blasting in mineral benches  | Drilling and blasting is proposed in the mineral benches. | Wagon drill being used for drilling with a blast hole dia of 115 mm & depth of 8 m, spacing of 5 meters and burden of 3 meters. Blasting with ANFO & slurry explosives with NONELS as initiating system. |
| 3k | Provision of mining machineries in mineral benches   | Excavator and dumper combination was proposed.            | During inspection. it was observed that wagon drills, dumpers & excavators are being used for drilling. loading & transportation of ore to crushing plant .  |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | It was proposed to maintain the bench height of 7 meters  | Bench height is being maintained as 7 m. Digging height of the excavators are compatible with bench height.  |
| 3m | Total area covered under excavation/pits   | Area covered under mining till 2022-23 - 17.79 Ha         | Are covered under mining till 201-22- 12.86 Ha   |
| 3n | Ore to OB ratio for the pit/mine during the year.  | No proposal   | Nil  |

3o Total area put in use under different heads at the end of year

|                              |                      |
|------------------------------|----------------------|
| Area degraded till 2022-23 - | Pit - 12.86 Ha       |
| Pit -17.79 Ha                | Waste dump - 1.24    |
| Waste dump -                 | Green belt - 3.29 Ha |
| 1.85 Ha                      |                      |
| Road - 1.01 Ha               |                      |
| Infrastructure - 0.1 Ha      |                      |
| Green belt -                 |                      |
| 4.15 Ha                      |                      |

3p Production of ROM mineral during the last five year period as applicable

|           |           |           |
|-----------|-----------|-----------|
| 2017-18 - | 2017-18 - | 400000 Te |
| 400050 Te | 2018-19 - | 390000 Te |
| 2018-19 - | 2019-20 - | 400050 Te |
| 401350 Te | 2020-21 - | 245000 Te |
| 2019-20 - | 2021-22 - | 230000 Te |
| 400132 Te |           |           |
| 2020-21 - |           |           |
| 400400 Te |           |           |
| 2021-22 - |           |           |
| 302750 Te |           |           |

3q General remarks of inspecting officers on method of mining etc.

Mining pit development is in initial stage. Mechanised method of mining has been adopted.

#### Solid Waste Management - Dumping:

| Sl.No. | Item   | Proposals   | Actual work  | Remarks |
|--------|--|---|--|---------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Separate dumping for topsoil proposed                           | Separated topsoil dumping done                               |         |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | Topsoil dumping proposed in the Northern part of the mining pit | Dumping done in the northern part of the pit as per proposal |         |
| 4c     | Number of dumps within lease area and outside of lease area      | One dump within the lease area                                  | One dump within the lease area                               |         |



|    |  |   |   |   |
|----|--|---|---|---|
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | Outside UPL   | Outised UPL   |   |
| 4e | Number of active and alive dumps.                                  | One   | One   |   |
| 4f | Number of dead dumps.  | Nil   | Nil   |   |
| 4g | Number of dumps established.                                       | No proposal   | Nil   |   |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Garland drain and retaining bund proposed around the dump | Garland drain and retaining bund not constructed as per proposal. Violation issued as per rule. |   |
| 4i | Length of Retaining wall or garland drain all along dumps          | Retaining wall - 500 m<br>Garland drain - 500 m           | Garland drain and retaining bund not constructed as per proposal. Violation issued as per rule. |   |
| 4j | Number of settling ponds   | No proposal   | Nil   |   |
| 4k | Specific comments of inspecting officer on waste dump management   |   |   | Retaining wall and garland drain not constructed as per proposal. Violation issued as per rule. |

#### Solid Waste Management - Backfilling:

| Sl.No. | Item  | Proposals   | Actual work | Remarks |
|--------|---|-------------|-------------|---------|
| 5a     | Status of part or full extraction of mineral from mined out area before starting backfilling. | No proposal | Nil         |         |
| 5b     | Area under backfilling of mined out area  | No proposal | Nil         |         |

|    |   |             |     |  |
|----|---|-------------|-----|--|
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No proposal | Nil |  |
| 5d | Total area fully reclaimed and rehabilitated  | No proposal | Nil |  |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc.                |             |     | The pit is not mined out upto its ultimate pit limit to start backfilling. |

#### 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). | To be submitted in time | Submitted  |         |
| 6b     | Area available for rehabilitation (ha) .                                     | No proposal             | Nil  |         |
| 6c     | afforestation done (ha).   | 2021-22 - 0.56 Ha       | Data/register for affrestation not maintained. Violation issued as per rule. |         |
| 6d     | No. of saplings planted during the year                                      | 2021-22 - 300 Nos.      | 2021-22 - 450 Nos. (Reported by the lessee)                                  |         |
| 6f     | Any other method of rehabilitation   | No proposal             | Nil  |         |
| 6g     | Cost incurred on watch and care during the year                              | No proposal             | Nil  |         |



|    |  |             |     |
|----|--|-------------|-----|
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | No proposal | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | No proposal | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area         | No proposal | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | No proposal | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.                  | No proposal | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation                                  | No proposal | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)                      | No proposal | Nil |

|    |   |   |  |   |
|----|---|---|--|---|
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation             | No proposal   | Nil  |   |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | Quarterly environmental monitoring of core and buffer zone. | Quarterly environmental monitoring carried out during 2021-22 and all the parameters are within the permissible limit. |   |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. |   |  | No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities. |

#### Mineral Conservation:

| Sl.No. | Item  | Proposals                                   | Actual work                           | Remarks |
|--------|---|---|---------------------------------------|---------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area    | Entire ROM to be utilised for captive plant | Entire ROM utilised for captive plant |         |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical. | No proposal                                 | Nil                                   |         |
| 7c     | Different grade of mineral sorted out at mines.                 | Not applicable                              | Nil                                   |         |
| 7d     | Any beneficiation process at mines                              | No proposal                                 | Nil                                   |         |



|    |  |   |
|----|--|---|
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant. |
|----|--|---|

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**Environment:**

| Sl.No. | Item  | Propasals  | Actual work  | Remarks |
|--------|---|--|--|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)   | Proposed to remove and utlise topsoil seperately | Topsoil removed seperately and utilised for plantation |         |
| 8b     | Concurrent use or storage of topsoil  | To be utilised for plantation                    | Utilised for plantation                                |         |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | No proposal                                      | Nil  |         |
| 8d     | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | No proposal                                      | Nil  |         |
| 8e     | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposal                                      | Nil  |         |

|    |  |  |   |  |
|----|--|--|---|--|
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 0.56 Ha and 300 Nos. of saplings                   | 0.5 Ha and 450 Nos. of saplings                 |  |
| 8g | Survival rate  | No proposal  | 94%   |  |
| 8h | Water sprinkling on roads to control airborne dust                                       | Water Tankers to be provided for dust suppression. | Water tankers is provided for dust suppression. |  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area       |  |   | Plantation is being done all along the Mining Lease boundary and within to improve the aesthetic beauty of mine. |

#### Compliance of Rule 45:

| Sl.No. | Item  | Proposals   | Actual work   | Remarks   |
|--------|---|---|---|---|
| 9a     | Status of submission of Monthly and Annual returns  | Annual returns and monthly returns submitted  | Delay submission of monthly returns in Jan'22 and Feb'22. Violation issued as per rule.             |   |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Manager - Sri. S. Prasad<br>Mining Engineer - Sri. Sai Krishna                                      | Manager - Sri. S. Prasad<br>Mining Engineer - Sri. Sai Krishna                                      | Advised to update the Geologist information in the returns portal |
| 9c     | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pit - 12.86 Ha<br>Waste disposal - 1.24 Ha<br>Infrastructure - 0.46 Ha<br>Mineral Storage - 3.29 Ha | Pit - 12.86 Ha<br>Waste disposal - 1.24 Ha<br>Infrastructure - 0.46 Ha<br>Mineral Storage - 3.29 Ha |   |
| 9d     | Scrutiny of Annual return on afforestation  | 450 Nos.  | 450 Nos. (Reported by the lessee)   |   |



|    |   |   |  |
|----|---|---|--|
| 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                    | Nil   | Nil  |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Cost of Production - Rs.253.10/-  | Rs.253.10/-  |
| 9h | Scrutiny of Annual return on fixed assets                                   | The value of fixed assets reported by the lessee in annual returns is Rs.23636101/-                           | Fixed asset could not be verified.   |
| 9k | Scrutiny of Annual return on mining machineries                             | Backhoe- 1 No.<br>Tipper - 4 Nos.<br>Drilling machine - 1 No.<br>No.<br>Water Tanker - 1 No.<br>Dozer - 1 No. | Backhoe- 1 No.<br>Tipper - 4 Nos.<br>Drilling machine - 1 No.<br>Water Tanker - 1 No.<br>Dozer - 1 No. |

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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 |
| 11(1) of MDD 1954  |                         |                     |                         |
| 22(2)              | "                       |                     |                         |
| 31(4)              | "                       |                     |                         |
| 34(A)              | "                       |                     |                         |
| 54                 | "                       |                     |                         |

Date : 12/12/2022

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines