

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/GNR/LST-50/HYD

Mine code : 38APR07066

- (i) Name of the Inspecting : C\$10) Ch.Suseela
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : SRI.S.PRASAD, MINES MANAGER OF K C P LST DEPOSIT-I
Official with
Designation
- (iv) Date of Inspection : 30/10/2018
- (v) Prev.inspection date : 16/11/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : KCP LIMESTONE DEPOSIT-II
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : GUNTUR
- Village : MANDADI BLOCK II RF
- Taluka : DURGI
- Post office : DURGI
- Pin Code : 522612
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 08/07/2016
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** :
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S K.C.P.LTD
MACHERLA CEMENT UNIT
MACHERLA GUNTUR ANDHRA
PRADESH
Phone:
FAX :

6. Date of approval of Mining :
Plan/Scheme of Mining

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 | NIL | 7 Core Bore Holes 20.046 ha | Proposed 7 core bore holes in 2018-19 |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | 2.80 lakhs | NRDCS, Hyderabad Rs.2.97 lakhs | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NIL | NIL | Total ML area has been explored under G1 scale |
| 1e | Balance reserve as on 01/04/20 | 2858717 (111) tonnes | 34,96,634 tonnes | |
| 1f | General remarks of inspecting officers on geology, exploration etc | _____ | _____ | Total mineralised area has been explored under G1 scale. It is a bedded type sedimentary deposit belongs to palnad basin. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--|---|---|
| 2a | Location of development w.r.t.lease area | Section A-A', 160 to 144 MRL B B' C C' 164 to 152 MRL N 1816311 to N 1816587 E332757 to E 333118 | 160 to 144 MRL N1816680 to 1816420 E 332850 to 333120 | There is a site deviation hence violation of Rule 11(1) was pointed out to the party. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Only mineral benches | One in OB Two in Ore | |
| 2c | Stripping ratio or ore to OB ratio | 1: 0.025 | 1: 0.035 | |
| 2d | Quantity of topsoil generation in m3 | 6015 cu.m | 10,000 cu.m | Violation of Rule 11(1) was pointed out to the party. |

| | | | | |
|----|---|-------|-------|---|
| 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 | _____ | _____ | There is a deviation in the development of the pit. Hence violation of Rule 11(1) was pointed out to the party. |

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 | 585201 tonnes | 410000 tonnes | |
| 3c | Recovery of sailable/usable mineral from ROM production | 99 % | 99% | |
| 3d | Quantity of mineral reject generation | NIL | NIL | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not Applicable | Not Applicable | |
| 3f | Quantity of sub grade mineral generation. | NIL | NIL | |
| 3g | Grade of sub grade mineral generation | Not applicable | Not applicable | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Not applicable | Not applicable | Total ROM is being fed to the crusher |
| 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 | Yes, Deep Hole blasting | Yes, Deep Hole blasting | |
| 3k | Provision of mining machineries in mineral benches | Back Hoe, 5 Tippers, Compressor, Rock Drill | Back Hoe, 5 Tippers, Compressor, Rock Drill | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes, 6 m ht | OB-7 m ht Ore- 6-6.5 m ht | |
| 3m | Total area covered under excavation/pits | 4.85 ha | 4.833 ha | |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.025 | 1:0.024 | |
| 3o | Total area put in use under different heads at the end of year | 4.85 ha | 5.403 ha | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2016-17-- 589716 tonnes 2017-18-- 585201 tonnes | 2016-17--127000 tonnes 2017-18--410000 tonnes | The mining lease executed on 18.6.2016 and the mining operations commenced w.e.f 5.7.2016 |
| 3q | General remarks of inspecting officers on method of mining etc. | _____ | _____ | The mining operations are being carried out in open cast method of mining using HEMM. The top layer consists of calcareous shale with murrum and the thickness of the top layer increases with the advancement of the pit towards South & West |

Solid Waste Management - Dumping:

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

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|----|--|----------------|---|--|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | NIL | There is a top soil dump in the grid of E 332990 to E 333085 and N 1816690 to N 1816770 | In the Approved Mining Plan, there was a proposal of 4,378 m3 and 6,014 m3 of top soil generation during the year 2016-17 and 2017-18 respectively and it will be used for plantation. However, there was a generation of about 19,000 m3 top soil as on 1.4.2018 and was dumped in NE corner of ML area covering an extent of 0.57 ha . Hence a violation of Rule 11(1) was issued to the party . |
| 4b | Location of topsoil, OB and mineral reject dumps | NIL | E 332990 to E 333085 and N 1816690 to N 1816770 | |
| 4c | Number of dumps within lease area and outside of lease area | No Proposal | One dump within the lease area | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | NIL | Beyond UPL | |
| 4e | Number of active and alive dumps. | NIL | One Dump | |
| 4f | Number of dead dumps. | NIL | NIL | |
| 4g | Number of dumps established. | NIL | NIL | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | NIL | NIL | |
| 4i | Length of Retaining wall or garland drain all along dumps | Not Applicable | Not Applicable | |
| 4j | Number of settling ponds | NIL | NIL | |

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|----|--|-------|-------|--|
| 4k | Specific comments of inspecting officer on waste dump management | _____ | _____ | There is no waste generation in mineral benches. |
|----|--|-------|-------|--|

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 proposal | NIL | |
| 5b | Area under backfilling of mined out area | N.A | N.A | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | N.A | N.A | |
| 5d | Total area fully reclaimed and rehabilitated | N.A | N.A | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | _____ | _____ | _____ |

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 | Submitted | |
| 6b | Area available for rehabilitation (ha) . | NIL | NIL | |
| 6c | afforestation done (ha). | NIL | NIL | |

| | | | | |
|----|--|---------------|-----------------------------|---|
| 6d | No. of saplings planted during the year | NIL | NIL | |
| 6e | Cumulative no .of plants | NIL | NIL | |
| 6f | Any other method of rehabilitation | NIL | NIL | |
| 6g | Cost incurred on watch and care during the year | NIL | NIL | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | NIL | NIL | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | NIL | NIL | |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area | NIL | NIL | |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NIL | NIL | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | NIL | NIL | |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | 880 Nos (WML) | 150 Nos -WML 500 Nos-OML | Plantation made in 7.5 m barrier zone. Violation of Rule 11(1) was pointed out to the Lessee. |

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|----|---|---|--|
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | NIL | NIL |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | NIL | NIL |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Environmental parameters are to be monitored quarterly. | Environmental parameters are being monitored quarterly and the reports are submitted to IBM. |
| 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 | No proposal | NIL | Total ROM is being fed to the crusher to get required size ie., <90 mm |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Not Applicable | Not Applicable | |
| 7c | Different grade of mineral sorted out at mines. | Not Applicable | Not Applicable | |
| 7d | Any beneficiation process at mines | NIL | NIL | |
| 7e | General remarks 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) | Yes, top soil | Yes, top soil | Part of the quantity is used for plantation and the rest is dumped in North East side of ML |
| 8b | Concurrent use or storage of topsoil | For Plantation | Dumped at NE side of ML | Violation of Rule 11(1) was pointed out to the party. |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | NIL | NIL | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | NIL | NIL | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | NIL | NIL | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 880 Nos. | 150 Nos | |
| 8g | Survival rate | NIL | 80% | |
| 8h | Water sprinkling on roads to control airborne dust | There was a proposal of water sprinkling on Roads. | Water sprinkling on Roads is being carried out with 12 KL water tanker. | |

8i General remarks _____
of inspecting _____
officer on _____
aesthetic beauty _____
in and around _____
mines area _____

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|--|
| 9a | Status of submission of Monthly and Annual returns | Online Monthly and Annual Returns are being submitted in time | Online Monthly and Annual Returns are being submitted in time | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Sri. Ch.Tirumala Reddy, Mining Engineer, Sri. M. Ajith Babu, Geologist, Sri. V.Venkata Ramana, Mines Manager | Sri. Ch.Tirumala Reddy, Mining Engineer, Sri. M. Ajith Babu, Geologist, Sri. V.Venkata Ramana, Mines Manager | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area under Pits-4.833 ha, waste dump-0.57 ha, Reclaimed area -NIL | Area under Pits-4.833 ha, waste dump-0.57 ha, Reclaimed area -NIL | |
| 9d | Scrutiny of Annual return on afforestation | WML-150 Nos, OML-500 Nos | WML- 880 Nos. | Violation of Rule 11(1)was pointed out to the party. |
| 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 | Ex. Mine price-Rs.324/- , COP-Rs.324/- | Ex. Mine price-Rs.324/-, COP-Rs.324/- | |
| 9h | Scrutiny of Annual return on fixed assets | Rs. 474 million | Rs. 474 million | Includes plant, machinery, buildings and all the mining leases of the company. |

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|----|--|--|--|
| 9k | Scrutiny of Annual return on mining machineries | Back Hoe, 5 tippers, Air compressor, Rock Drill | Back Hoe, 5 tippers, Air compressor, Rock Drill |
|----|--|--|--|

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 |
| MCDR17 | Rule 11(1) | 12/11/2018 | | | |

Date :**(Ch.Suseela)**

Indian Bureau of Mines