

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/GNR/LST-49/HYD

Mine code : 38APR07065

- (i) Name of the Inspecting : **DP09**) **D.P.Ravi kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : S/Shri Saik Saida, Mining Engineer and M.Raja Sekhar,
Official with
Designation
- (iv) Date of Inspection : 19/03/2024
- (v) Prev.inspection date : 16/03/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KCP LIMESTONE DEPOSIT-I**
- (b) **Registration NO.** : **IBM/680/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : GUNTUR
Village : MANDADI BLOCK II RF
Taluka : VELDURTHY
Post office : MANDADI
Pin Code : 522426
FAX No. : 08642-222350
E-mail : mines.macherla@kcp.co.in
Phone : 08642222303
- (f) Police Station : Veldurthy
- (g) First opening date : 08/07/2016
- (h) Weekly day of rest : SUN
2. Address for : The KCP Ltd
correspondance Macherla-522426
Guntur district, AP
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 :

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

Mining Engineer

Name : V.Ravi Kanth,Full Time
 Qualification : B.Tech(Mining)
 Appointment/ : 12/03/2018
 Termination date

Geologist

Name : P.Manohar Reddy,Full Time
 Qualification : M.Sc(Geology)
 Appointment/ : 06/03/2019
 Termination date

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| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 06/02/2015 |
| Plan/Scheme of Mining | : | MP modif under 17(3) MCR 2016 | 09/04/2019 |
| | : | MP review under 17(1) MCR 2016 | 20/11/2020 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|-------------------------------------|---|---|
| 1a | Backlog of previous year | 2022-23- No pending for exploration | No exploration undertaken during 2022-23. | Nil |
| 1b | Exploration over lease area for geological axis 1 or 2 | No proposal | Nil | Entire lease area was covered under G1 level of exploration. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | No proposal during the year 2022-23 | Nil | Entire mining lease area is covered under G1 level of exploration |
| 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 | Entire mining lease area is covered under G1 level of exploration |
| 1e | Balance reserve as on 01/04/20 | | Proved Mineral Reserves as on 01/04/2023= million tonnes | Nil |

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| 1f | General remarks of inspecting officers on geology, exploration etc | horizontal with gentle dips of 2° to 5° towards SSE or South. They show series of strike and dip joints which dip at 60o vertical. Limestone deposition is uniform in the leasehold as deciphered from the intensive exploration conducted. There are no structural deformations/disturbance s like folds, faults etc. The entire lease area has been explored in G1 scale by 7 core holes. | The formations are near horizontal with gentle dips of 2° to 5° towards SSE or South. They show series of strike and dip joints which dip at 60o vertical. Limestone deposition is uniform in the leasehold as deciphered from the intensive exploration conducted. There are no structural deformations/distu rbance s like folds, faults etc. The entire lease area has been explored in G1 scale by 7 core holes. |
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Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---------|
| 2a | Location of development w.r.t.lease area | 2022-23 working was proposed in N-1816442 - N-1816530 E-329327 E-329599 | Work done within the proposed co-ordinates. | Nil |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Only mineral benches proposed | Onfy mineraf benches developed | Nil |
| 2c | Stripping ratio or ore to OB ratio | 01:0.61 | 01: 0.57 | Nil |
| 2d | Quantity of topsoil generation in m3 | No proposals. | Nil | Nil |

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| 2e | Quantity of overburden generation in m3 | 18790 cum of OB to be generated during the year 2022-23 | 16150 cum OB was generated. | Nil |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | The lessee is carrying the development as per the approved mining plan document. | The lessee is carrying the development as per the approved mining plan document. |

Exploitation:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|--------------|---------|
| 3a | Number of pit proposed for production | One pit | One pit | Nil |
| 3b | Quantity of ROM mineral production proposed | Proposed 100137 tonnes of limestone during the year 2022-23. | 70000 tonnes | Nil |
| 3c | Recovery of sailable/usable mineral from ROM production | 99% | 100% | Nil |
| 3d | Quantity of mineral reject generation | No proposal | Nil | Nil |
| 3e | Grade of mineral rejects generation and threshold value declared. | None | None | None |
| 3f | Quantity of sub grade mineral generation. | No sub grade mineral generation anticipated in during 2022-23. | Nil | Nil |
| 3g | Grade of sub grade mineral generation | Not applicable | Nil | Nil |

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| 3h | Manual / Mechanised method adopted for segregating from ROM | No proposal of any segregation of ROM | Not applicable | None |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No such study was proposal to be carried out during the year 2022-23 | No study done. | Nil |
| 3k | Provision of mining machineries in mineral benches | Back hoe - 1(1.7 cu m),Tipper (17 cum)- 3,Compressor- 1, Rock Drill (115 mm)-1 | The same was noticed during the inspection. | Nil |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | It \$ras proposed to maintain the bench height of 7.5 meters | Bench height is being maintained as 7 m. Digging height of the excavators are compatibfe with bench height. | Nil |
| 3m | Total area covered under excavation/pits | 2.69 ha proposed 2.6 ha proposed | 0.95 ha | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1.0: 0.61 | 1.0: 0.57 | Nil |
| 3o | Total area put in use under different heads at the end of year | 2.6 ha | 1.388 ha | Due to want of statutory clearances, the mine was not worked from september 2019 and during 2020-21. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19 : 99,188 MT 2019-20 : 1,00,000 MT 2020-21 = 1,00,150 T 2021-22 = 1,00,137 T 2022-23=100150 T | 2018-19= 5000 T 2019-20 = Nil 2020-21 = Nil 2021-22 = Nil 2022-23=70000 TONNES. | Nil |

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| 3g | General remarks of inspecting officers on method of mining etc. | The measure made by the lessee in the approved document for exploitation being implemented. | The measure made by the lessee in the approved document for exploitation being implemented. Further, due to want of statutory clearances, the mine was not worked from September 2019 and during 2020-21. |
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Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Seperate dumping for topsoll proposed | Seperated topsoil dumping done | Nil |
| 4b | Location of topsoil, OB and mineral reject dumps | OB proposed in the south side of thre mining pit. | The same was observed during the inspection. | Nil |
| 4c | Number of dumps within lease area and outside of lease area | One Waste dump | One Waste Dump noticed within the lease area. | Nil |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Within UPL, the dump is proposed | The same was noticed noring the inspection. | Nil |
| 4e | Number of active and alive dumps. | One active dump | One active dump. | Nil |
| 4f | Number of dead dumps. | Nil | Nil | Nil |
| 4g | Number of dumps established. | No proposal | Nil | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Nil | Nil | Nil |

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| 4i | Length of Retaining wall or garland drain all along dumps | None | None | None |
| 4j | Number of settling ponds | No proposals | Nil | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | None | None | The dump management is being maintained as per the approved proposals. |

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 | Nil |
| 5b | Area under backfilling of mined out area | No proposal | Nil | Nil |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No proposal | Nil | Nil |
| 5d | Total area fully reclaimed and rehabilitated | No proposal | This is new mine and no area is used for Backfilling. | This is new mine and no area is used for Backfilling. |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | None | This is New Mine and no area is used for Backfilling | This is New Mine and no area is used for Backfilling |

Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | Annual report on PMCP for the year 2022-23 to be submitted. | Annual report on PMCP submitted during the year 2022-23 | Nil |
| 6b | Area available for rehabilitation (ha) . | No proposal for rehabilitation of worked out benches | Not applicable | Nil |
| 6c | afforestation done (ha). | 0.12 ha | 0.12 ha | Nil |
| 6d | No. of saplings planted during the year | 300 saplings. | 300 saplings | Nil |
| 6e | Cumulative no .of plants | 1500 saplings | 1000 saplings | Nil |
| 6f | Any other method of rehabilitation | No such proposal is made in the approved document | Not applicable | Nil |
| 6g | Cost incurred on watch and care during the year | ---- | Rs.3,00000/- (As informaed by the lessee) | Nil |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No proposal | Nil | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No proposal | Nil | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | No proposal of afforestation on backfilled area | Not applicable | Nil |

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| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No proposal for rehabilitation by making water reservoir during the year 2022-23 | Not applicable | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | No proposal of reclamation and rehabilitation during the year 2022-23 | Not applicable | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | 0.12 ha proposed to be afforested during the year 2022-23 | The same is noticed during the inspection | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | 300 saplings to be planted during the year 2022-23 | 300 sapplings planted durng the year 2022-23 | Nil |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | No proposal of rehabilitation during the year 2022-23 | Not applicable | Nil |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | It was proposed to carry out monitoring of environmental parameters. | same was being done. | Nil |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | Environment monitoring, Plantation is being done in the lease area | Environment monitoring, Plantation is being done in the lease area | Environment monitoring, Plantation is being done in the lease area |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 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 | Entire RoM utilised for captive plant |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | No proposal | Nil | Nil |
| 7c | Different grade of mineral sorted out at mines. | No proposal | No proposal | Entire RoM utilised for captive plant |
| 7d | Any beneficiation process at mines | No beneficiation was proposed. | Not applicable | 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. | No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant. |

Environment:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|---|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Proposed to remove and utilize topsoil separately | Topsoil removed separately and utilised for plantation. | Nil |
| 8b | Concurrent use or storage of topsoil | It was proposed to be utilised for plantation. | Utilised for plantation | Nil |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | No proposal | Nil | Nil |

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| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No proposal | Nil | Nil |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposal for Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Not applicable | Nil |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 300 sapplings to be planted during the year | 300 sapplings planted during the year | The mining area is part of Forest land. Kandlagutta extension reserved forest, and Mandadi reserved forest area are within the 10 km radius, all these are open forests with mainly thorny bushes, dense to open scrub with only few scattered trees. |
| 8g | Survival rate | No such proposal in approved document | About 85% survival is there | Nil |
| 8h | Water sprinkling on roads to control airborne dust | It was proposed to control dust suppression by water sprinkling. | same was noticed during the inspection | No comments to offer. |

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| 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 with in to improve the aesthetic beauty of mine. | Plantation is being done all along the Mining Lease boundary and with in to improve the aesthetic beauty of mine. |
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Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---------|
| 9a | Status of submission of Monthly and Annual returns | To be submitted within timelines | Submitted within time | Nil |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining engineer =Shri Sk. Saida, Geologist : Shri M. Rajasekhar, Manager = Shri S. Prasad | Above competent persons were employed and confirmed during the inspection. | Nil |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area covered under current workings= 0.950 ha., area used for waste disposal=0.120 ha, area used for green belt, and other pupose=0.318 ha | Area covered under current workings= 0.950 ha., area used for waste disposal=0.120 ha, area used for green belt, and other pupose=0.318 ha. | Nil |
| 9d | Scrutiny of Annual return on afforestation | 300 nos of saplings. | The same is noticed during the inspection. | Nil |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Nil | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Nil | Nil | Nil |

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| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Cost of production=Rs 259.32/- | Cost of production=Rs 259.32/- | Nil |
| 9h | Scrutiny of Annual return on fixed assets | Not mentioned in the Annual return 2022-23. | Fixed asset could not be verified. | None |
| 9k | Scrutiny of Annual return on mining machineries | Back Hoe - 0.90 m3 Tippers - 3, Air Compressor 450 m3 /MN, Rock Drill - 115mm Water Tankar -12 K | Back Hoe - 0.90 m3 Tippers - 3, Air Compressor - 450 m3 /MN, Rock Drill - 115mm Water Tankar -12 K | Nil |

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) | 08/04/2024 | | | |
| MCDR17 | Rule 12(4) | 08/04/2024 | | | |

Date :

(D.P.Ravi kumar)

Indian Bureau of Mines