

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

Mining Plan Modification REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-25/HYD

Mine code : 38APR14035

- (i) Name of the Inspecting : **K007**) **SHAIVAL KARTIKEYA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri D. Kalyana Chakravarthy, General Manager (Mines
Official with
Designation
- (iv) Date of Inspection : 09-JUN-23
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHAVANIPURAM - II**
- (b) **Registration NO.** : **IBM/1029/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : **TELANGANA**
- District : **NALGONDA**
- Village : **MAHAMKALIGUDEM**
- Taluka : **HUZUR NAGAR**
- Post office : **JANPAHAD**
- Pin Code : **508218**
- FAX No. : **08683-229502**
- E-mail : **mines@deccancements.com**
- Phone : **08683-229529**
- (f) Police Station : **PALAKAVEEDU**
- (g) First opening date : **07-AUG-00**
- (h) Weekly day of rest : **SUN**
2. Address for : M/s Deccan Cements,
correspondance Mahamkaligudem,Mandal:palakaveedu
Suryapet District,Telangana State
3. (a) Lease Number : **APR1389**
- (b) Lease area : **73.93**
- (c) Period of lease : **50**
- (d) Date of Expiry : **08-FEB-50**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : M/S DECCAN CEMENT LIMITED
 DECCAN CHAMBERS 6-3-666/B,
 SOMAJGUDA HYDERABAD
 HYDERABAD TELANGANA
 Phone:3310168, 3310552, 3310561, 3310599
 FAX :(91) 040-3318366

Owner : P. VENUGOPALA RAJU
 DECCAN CHAMBERS 6-3-666/B
 SOMAJGUDA HYDERABAD
 NALGONDA TELANGANA
 Phone: 3310168 3310552
 FAX : 0403318366

Agent : S.VENKATESWARULU
 SAGAR CEMENTS LTD
 MATTAMPALLY VILLAGE AND
 MANDAL NALGONDA DISTRICT
 NALGONDA TELANGANA
 Phone: 08683247029
 FAX : 08683247041

Mining Engineer

Name : D KALYAN CHAKRAVARTHY,Full Time
 Qualification : M.Tech
 Appointment/ : 08-FEB-12
 Termination date

Geologist

Name : A RAMBABU,Full Time
 Qualification : M.Sc.
 Appointment/ : 02-SEP-11
 Termination date

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|---|---|--------------------------------|-----------|
| 6. Date of approval of Mining Plan/Scheme of Mining | : | Modif.of approved Mining Plan | 14-MAY-02 |
| | | Modif.of approved Mining Plan | 24-JUL-03 |
| | | Mining Scheme rule 12 MCDR1988 | 13-SEP-06 |
| | | Modif.approved Mining Scheme | 25-APR-07 |
| | | Mining Scheme rule 12 MCDR1988 | 07-SEP-10 |
| | | MP modif under MCR 1960 | 31-AUG-15 |
| | | MP modif under 17(3) MCR 2016 | 02-APR-18 |
| | | MP review under 17(1) MCR 2016 | 15-NOV-19 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|---|--|
| 1a | Backlog of previous year | F.Y. 2021-22 to 2024-25: 35 nos. of boreholes up to depth of mineralization. | F.Y. 2022-23: 35 nos. of core boreholes have been drilled with cumulative depth of 988.00 meters. | The entire lease area has been explored under G1 level. |
| 1b | Exploration over lease area for geological axis 1 or 2 | To know the depth persistency of the mineralized zone 35 nos. of boreholes have proposed up the depth of mineralization. | 35 nos. of boreholes have drilled up the depth of mineralization. | - |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Not mentioned in the approved document. | M/s Natural Resources Development Co-operative Society Limited, Hyderabad Expenditure: Rs. 33,97,102/- | - |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | To know the depth persistency of the mineralized zone 35 nos. of boreholes have proposed up the depth of mineralization. | 35 nos. of boreholes have drilled up the depth of mineralization. | - |
| 1e | Balance reserve as on 01/04/20 | Balance reserves as on 01.04.2023 Under (111): 4.299 Million Tonnes Under (211): 3.026 Million Tonnes | Balance reserves as on 01.04.2023 Under (111): 4.615 Million Tonnes Under (211): 3.026 Million Tonnes | Average grade of limestone CaO: 46.93% SiO ₂ : 11.56% |

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| 1f | General remarks of inspecting officers on geology, exploration etc | The crescent shaped Cuddapah sedimentary basin is situated in the eastern part of the Dharwar Craton in the combined southern Andhra Pradesh. The area is a part of Proterozoic Paland sub-basin which in turn occurs at the northern end of the crescent of the main basin. Carbonate rocks belonging to the Narji limestone formation of Kurnool group (Cuddapah Super-group) occurs in force in the area situated to the north of the Krishna river in the Nalgonda district. | The Kurnool Group overlies the rocks of the Cuddapah Supergroup which has an Archaean basement comprising Peninsular Gneissic Complex with small to large enclaves of greenstone belts. The Cuddapah Supergroup is separated from the basement rocks with a major unconformity known as Eparachean unconformity. In the lease area towards the eastern boundary outcrops of limestone manifesting assorted colours viz, buff, cream, light grey, green, gyeish green, chocolate brown etc. occurs. | These limestone beds are grouped and cheistended as variageted limestone. This litho-units occurs immediately overlying the steel grey limestone. This depositional features is characteristic of the entire Palnad basin in Nalgonda District (Telangana), North of Krishna River. Outcrops of steel grey to dark grey limestone occur in force in the rest of the lease area. |
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Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---------------------------------|
| 2a | Location of development w.r.t.lease area | In between local co-ordinates N1520 to N1700 and W0128 to W0010 | Production and development is being done irregularly in several places without any approved proposal. | Deviation has been pointed out. |

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| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Topsoil: 01 no. OB/Waste: 01 no. Minerals: 04 nos. | Topsoil: 01 no. OB/Waste: 01 no. Minerals: 04 nos. | - |
| 2c | Stripping ratio or ore to OB ratio | 1 : 0.0 | 1 : 0.0 | No OB/waste has been generated during F.Y. 2022-23. |
| 2d | Quantity of topsoil generation in m3 | No proposal. | Nil. | No topsoil has been generated during F.Y. 2022-23. |
| 2e | Quantity of overburden generation in m3 | No proposal. | Nil. | No OB/Waste has been generated during F.Y. 2022-23. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|--|
| 3a | Number of pit proposed for production | 01 no. | 01 no. | - |
| 3b | Quantity of ROM mineral production proposed | 300150.00 Metric Tonnes | 110000.000 Metric Tonnes | Less production has been done. Deviation has been pointed out. |
| 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. | No proposal. | Nil. | - |
| 3f | Quantity of sub grade mineral generation. | No proposal. | Nil. | - |
| 3g | Grade of sub grade mineral generation | No proposal. | Nil. | - |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised crushing and screening have been proposed. | Mehanised crushing and screening is being done. | - |

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| 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 | Diameter: 115.0 mm Spacing: 5.0 m Burden: 3.0 m Depth: 7.7 m | Diameter: 115.0 mm Spacing: 5.0 m Burden: 3.0 m Depth: 7.7 m | - |
| 3k | Provision of mining machineries in mineral benches | <ol style="list-style-type: none"> 1. Excavator 04 nos. with 2.1 CuM (01 no.), 1.8 CuM (01 no.) and 1.7 CuM (02 nos.) bucket capacity. 2. Dumpers 10 nos. with 35 Tonnes (02 nos.), 12 CuM (08 nos.) capacity. 3. Loader 01 no. With with 2.0 CuM bucket capacity. 4. Air Compressor 03 nos. with 445 CFM capacity. 5. Wagon Drill 04 nos. with 115 mm bit diameter. 6. Rock Breaker 01 no. with 30 Tonnes capacity. 7. Water Tanker 01 no. with 6 Kilo Liter capacity. 8. Explosive Van 01 no. with 3310 KG capacity. | <ol style="list-style-type: none"> 1. Shovel 01 no. with 1.5 CuM bucket capacity. 2. Dumpers 02 nos. with 35 Tonnes capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01 no. with 450 CuM/Mn capacity. 5. Blast Host Drill 01 no. with 115 mm bit diameter. 6. Explosive Van 01 no. with 3.310 Tonnes capacity. 7. Water Tanker 01 no. with 12000 Liters capacity. | Due to less production and development, less machineries have been deployed. |

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| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Topsoil: Nil. OB/Waste: Nil. Mineral/Ore: 6.0 m to 8.0 m | Topsoil: Nil. OB/Waste: Nil. Mineral/Ore: 6.0 m to 8.0 m | - |
| 3m | Total area covered under excavation/pits | 65.074 Ha. up to end of F.Y. 2024-25 | 63.74 Ha. up to end of F.Y. 2022-23 | - |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1 : 0.0 | 1 : 0.0 | No OB/waste has been generated during F.Y. 2022-23. |
| 3o | Total area put in use under different heads at the end of year | Pit: 65.074 Ha. Waste/reject- Nil. Others- 5.628 Ha. Up to end of F.Y. 2024-25 | Pit: 63.74 Ha. Waste/reject- Nil. Others- 1.888 Ha. Up to end of F.Y. 2022-23 | - |
| 3p | Production of ROM mineral during the last five year period as applicable | Yr. 2018-19: 1200544.00 Metric Tonnes Yr. 2019-20: 1200195.00 Metric Tonnes Yr. 2020-21: .00 300150.00 Metric Tonnes Yr. 2021-22: 300150.00 Metric Tonnes Yr. 2022-23: 300150.00 Metric Tonnes | Yr. 2018-19: 1202800.00 Metric Tonnes Yr. 2019-20: 320000.00 Metric Tonnes Yr. 2020-21: .00 185000.00 Metric Tonnes Yr. 2021-22: 289500.00 Metric Tonnes Yr. 2022-23: 110000.00 Metric Tonnes | Less production during F.Y. 2022-23 has been pointed out. |
| 3q | General remarks of inspecting officers on method of mining etc. | | | Mining has been carried out through the opencast method with fully mechanized means using conventional drilling and blasting. |

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) | No proposal has been given in the approved document for dumping of waste and stacking of mineral/ore as no OB/Waste and topsoil will be generated during plan period. | 25566.00 Tonnes of cement grade limestone has been stacked in between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210 without any approved proposal. | Deviation has been pointed out. |
| 4b | Location of topsoil, OB and mineral reject dumps | Topsoil: Nil. OB/Waste: Nil. Mineral/Ore: Nil. | Topsoil: Nil. OB/Waste: Nil. Mineral/Ore: 01 no. | - |
| 4c | Number of dumps within lease area and outside of lease area | No proposal. | 01 no. of cement grade limestone stock has been made in between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210 without any approved proposal.. | Deviation has been pointed out. |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | No proposal. | 01 no. of cement grade limestone stock has been made within ultimate pit limit. | -do- |
| 4e | Number of active and alive dumps. | No proposal. | Nil. | - |
| 4f | Number of dead dumps. | No proposal. | Nil. | - |
| 4g | Number of dumps established. | No proposal. | Nil. | - |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No proposal. | Nil. | - |
| 4i | Length of Retaining wall or garland drain all along dumps | No proposal. | Nil. | - |
| 4j | Number of settling ponds | No proposal. | Nil. | - |
| 4k | Specific comments of inspecting officer on waste dump management | | | Nil. |

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 | 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 | 0.166 Ha. area will be utilized for plantation of 415 nos. of saplings at 7.5 m barrier zone. | 0.17 Ha. area has been utilized for plantation of 446 nos. of saplings at 7.5 m barrier zone. | - |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Nil. |

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). | As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year. | Annual report on PMCP for F.Y. 2021-22 has been submitted before due date. | Given information has been cross verified during inspection. |
| 6b | Area available for rehabilitation (ha) . | No proposal. | Nil. | - |
| 6c | afforestation done (ha). | No proposal. | Nil. | - |
| 6d | No. of saplings planted during the year | No proposal. | Nil. | - |
| 6e | Cumulative no .of plants | No proposal. | Nil. | - |

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|----|--|--------------|----------|---|
| 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 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 | 415 nos. | 446 nos. | - |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | 0.166 Ha. | 0.17 Ha. | - |

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| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | By plantation. | By plantation. | - |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Proposal has been given in the approved document for regular monitoring of the environmental parameters in the core and buffer zone. | Being done as per proposal. | All the parameters are within the permissible limits. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | Nil. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | ROM/Ore will be dispatched directly to the crusher plant without sorting. | Being done as per proposal. | - |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | No proposal for grade wise sorting. | ROM/Ore is being dispatched to the captive plant without sorting. | - |
| 7c | Different grade of mineral sorted out at mines. | -do- | -do- | - |
| 7d | Any beneficiation process at mines . | No Proposal. | Nil. | - |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | Nil. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|--|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No proposal. | Nil. | - |
| 8b | Concurrent use or storage of topsoil | No proposal. | Nil. | - |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | No proposal. | 25566.00 Tonnes of cement grade limestone has been stacked in between UTM co-ordinates N1848100 to N1848215 and E362150 to E362210 without any approved proposal. | Deviation has been pointed out. |
| 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) | F.Y. 2022-23: 0.166 Ha. area will be utilized for plantation of 415 nos. of saplings. | F.Y. 2021-22: 0.17 Ha. area has been utilized for plantation of 446 nos. of saplings. | Planation has been done along the 7.50 m barrier zone. |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 415 nos. of saplings will be planted over 0.166 Ha. area. | 446 nos. of saplings have been planted over 0.17 Ha. area. | -do- |
| 8g | Survival rate | No proposal. | Approximate 90% | - |
| 8h | Water sprinkling on roads to control airborne dust | Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker. | Being done as per proposal. | - |

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

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---------|
| 9a | Status of submission of Monthly and Annual returns | M.R. Submitted up to June 2023. A.R. Submitted up to F.Y. 2022-23 | M.R. Submitted up to June 2023. A.R. Submitted up to F.Y. 2022-23 | Nil. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Manager: Shri D. Kalyan Chakravarthy Mining Engineer: Shri A. V. Suresh Babu Geologist: Shri A. Ram Babu | Manager: Shri D. Kalyan Chakravarthy Mining Engineer: Shri A. V. Suresh Babu Geologist: Shri A. Ram Babu | Nil. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pit: 63.74 Ha. Waste/reject- Nil. Others- 1.888 Ha. | Pit: 63.74 Ha. Waste/reject- Nil. Others- 1.888 Ha. | Nil. |
| 9d | Scrutiny of Annual return on afforestation | Within lease area: 446 nos. with 100% survival rate. | Within lease area: 446 nos. with approx. 90% survival rate. | Nil. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Mineral-reject: NIL Grade: NIL | Mineral-reject: NIL Grade: NIL | Nil. |

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| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Closing Stock ROM: 25566.00 Metric Tonnes Graded Ore (Cement Grade): 25566.00 Metric Tonne | Closing Stock ROM: 25566.00 Metric Tonnes Graded Ore (Cement Grade): 25566.00 Metric Tonne | Nil. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Sale value: Nil. Ex-mine Price: Rs. 360.80 Per Metric Tonne Cost of Production: Rs. 360.80 Per Metric Tonne | Sale value: Nil. Ex-mine Price: Rs. 360.80 Per Metric Tonne Cost of Production: Rs. 360.80 Per Metric Tonne | Nil. |
| 9h | Scrutiny of Annual return on fixed assets | Rs. 300750935.00 | Rs. 300750935.00 | Nil. |
| 9k | Scrutiny of Annual return on mining machineries | 1. Shovel 01 no. with 1.5 CuM bucket capacity. 2. Dumpers 02 nos. with 35 Tonnes capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01 no. with 450 CuM/Mn capacity. 5. Blast Host Drill 01 no. with 115 mm bit diameter. 6. Explosive Van 01 no. with 3.310 Tonnes capacity. 7. Water Tanker 01 no. with 12000 Liters capacity. | 1. Shovel 01 no. with 1.5 CuM bucket capacity. 2. Dumpers 02 nos. with 35 Tonnes capacity. 3. Dozer 01 no. with 165 HP capacity. 4. Air Compressor 01 no. with 450 CuM/Mn capacity. 5. Blast Host Drill 01 no. with 115 mm bit diameter. 6. Explosive Van 01 no. with 3.310 Tonnes capacity. 7. Water Tanker 01 no. with 12000 Liters capacity. | Cross verified from the machinery logbooks. |

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 :

(SHAIVAL KARTIKEYA)

Indian Bureau of Mines