

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

**MCDR inspection REPORT  
Hyderabad regional office**

**Mine file No :** AP/KNL/LST-158A/Hyd

**Mine code :** 38APR11094

- (i) Name of the Inspecting : 160 ) kalmata.M.K  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : K. Ramakrishna Reddy, Mines Manager.  
Official with  
Designation
- (iv) Date of Inspection : 31-DEC-22
- (v) Prev.inspection date : 26-MAY-22

**PART-I : GENERAL INFORMATION**

- 1. (a) **Mine Name** : KORUMANIPALLI 254.856HA
- (b) **Registration NO.** : IBM/1099/2011
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
  - State : ANDHRA PRADESH
  - District : KURNOOL
  - Village : KORUMANIPALLI
  - Taluka : BANAGANAPALLE
  - Post office : KORUMANIPALLI
  - Pin Code : 518123
  - FAX No. : 085588286044
  - E-mail : tic.mines@pennacement.com
  - Phone : 085588286055
- (f) **Police Station** : Kolimigundla
- (g) **First opening date** : 30-MAR-00
- (h) **Weekly day of rest** : SUN
- 2. **Address for correspondence** : Vill Tallaricheruvu, Mandal Tadipatri  
Anantapur District.
- 3. (a) **Lease Number** : *Not Applicable*
- (b) **Lease area** : *254.856 Ha*
- (c) **Period of lease** : *50 years*
- (d) **Date of Expiry** : *18.09.2035*
- 4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : Penna Cement Industries Limited  
 Vill : Talaricheruvu, Mandal  
 : Tadipatri. Ananthapur  
 District. ANANTAPUR ANDHRA  
 PRADESH  
 Phone:  
 FAX :

Owner : M/S. PENNACEMENTINDUSTRIES.LTD  
 PLOTNO.703,  
 SRINIKETANCOLONYROADNO.3  
 BANJARAHILLS, ANANTAPUR  
 ANDHRA PRADESH  
 Phone: 3353945, 33  
 FAX : (040)3363951

6. Date of approval of Mining : Fresh under rule 22 MCR1960 31-JUL-02  
 Plan/Scheme of Mining

Latest approval document:- AP/KNL/MP/LST-148/Hpd :  
 dt: 07.06.2021.

Details of Mining Engg & Geologist.

Name of mining Engg:- S. Srinivasa Sudda Shetty.  
 AME (Mining).

Name of the Geologist:- M. Ramella Babu.  
 MSc. Geology.

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

## Exploration :

| Sl.No. | Item  | Proposals  | Actual work  | Remarks  |
|--------|---|--|--|--|
| 1a     | Backlog of previous year  | There was a proposal to drill 23 boreholes in the year 2021-22.  | Drilled 23 boreholes in the year 2021-22.  |  |
| 1b     | Exploration over lease area for geological axis 1 or 2              | 104.99 Ha, from G-3 to G-1.  | Lessee has converted about 104.99 ha of G-3 exploration to G-1 level, by drilling 23 core boreholes.   |  |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | None.  | Exploration was carried out by M/s J.P. core drills.   | The exploration work has been carried out under the supervision of Geologist of Korumanipalli limestone mine.  |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | None.  | None.  | Entire mineralized area is explored under G-1 level.   |
| 1e     | Balance reserve as on 01/04/20                                      | Reserves/resources as per the approved document dated 07.06.2021. (In million tonnes)<br>Mineable Reserves - 54.53<br>Remaining Resources - 26.895<br>Total - 81.425 | Reserves/resources as on 01.04.2022 (In million tonnes)<br>Mineable Reserves - 53.75<br>Remaining Resources - 26.895<br>Total - 80.645   | Reserves/resources were updated by depelting about 0.775 tonnes of limestone produced during the year 2021-22. |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |  | The deposit is belongs to Kurnool sub basin of Late proterozoic sediments. The grade of the limestone is cement grade. Lessee has explored entire area by drilling 93 boreholes to a total depth of 2092 mtrs. |  |

## Development :

| Sl.No. | Item  | Propasals   | Actual work  | Remarks  |
|--------|---|---|--|--|
| 2a     | Location of development w.r.t.lease area  | In the year 2022-23, there was a proposal to work between the co-ordinates N 1658309 to N 1658400 and E 188532 to E 189363. | In the year 2022-23 working has been carried out between the co-ordinates N 1658280 to 1658000 and E 188600 to 189150.                                   | The working has been carried out within the proposed area. |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15)                          | Benches were proposed in ore only.  | Benches are existing in ore only.  |  |
| 2c     | Stripping ratio or ore to OB ratio  | 1:0.02  | 1:0.02   |  |
| 2d     | Quantity of topsoil generation in m3  | None ine the year 2022-23 (up to dec 2022).   | None.  |  |
| 2e     | Quantity of overburden generation in m3   | 13445   | 2965   |  |
| 2f     | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |   | The working has been carried out along the strike of the formation. Benches were systematically maintained and suitable to the method of mining adopted. |  |

#### Exploitation:

| Sl.No. | Item                                  | Propasals                    | Actual work                  | Remarks   |
|--------|---------------------------------------|------------------------------|------------------------------|---|
| 3a     | Number of pit proposed for production | One pit in the year 2022-23. | One pit in the year 2022-23. | Total four pits are existing within the lease area and dimension of each pit is as follows. Pit No-1:-870m x 315m x 30m, Pit no-2:-260m x 205m x 8m, Pit no-3:- 340m x 380m x 12m, Pit no-4:- 83m x116m x 4m. |

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|----|---|--|--|---|
| 3b | Quantity of ROM mineral production proposed   | 1736585T in the year 2021-22.  | 775500 tonnes in the year 2021-22.   | Achieved 267090 tonnes of production in the year 2022-23 up to Dec-2022. In the year 2021-22 production is achieved only 45% and violation is pointed out for the same under Rule 11(1) of MCDR 2017. |
| 3c | Recovery of sailable/usable mineral from ROM production   | 100%   | 100%   |   |
| 3d | Quantity of mineral reject generation   | None.  | None.  |   |
| 3e | Grade of mineral rejects generation and threshold value declared.                               | Not applicable.  | Not applicable.  |   |
| 3f | Quantity of sub grade mineral generation.   | None.  | None.  |   |
| 3g | Grade of sub grade mineral generation   | Not applicable.  | Not applicable.  |   |
| 3h | Manual / Mechanised method adopted for segregating from ROM                                     | Mechanized.  | Mechanized.  |   |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | None.  | None.  |   |
| 3j | Provision of drilling and blasting in mineral benches   | Yes, proposed drilling and blasting in the mineral benches.                        | Using 115mm dia drill machine for drilling and blasting by slurry explosives and ANFO.                 | Drilling and blasting is being carriedout as per the proposal.  |
| 3k | Provision of mining machineries in mineral benches  | Yes, proposed combination of excavator and dumpers for production and development. | Working has been carriedout by engaging excavators of 3.00 capacity and dumpers of 35 tonnes capacity. | Additionally, lessee is using dozar for levelling of Haulage roads.   |

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| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | proposed 9.0 mtrs bench in mineral.  | Yes, proposed bench height is suitable for the method of mining adopted.  | The method of Mining adopted is fully mechanized with HEMM and dumpers.   |
| 3m | Total area covered under excavation/pits   | Area under mining- 74.53Ha in the present plan period up to 2025-26.   | Area under pits-52.35Ha up to 2021-22.  |   |
| 3n | Ore to OB ratio for the pit/mine during the year.  | 1:0.02   | 1:0.02  |   |
| 3p | Production of ROM mineral during the last five year period as applicable                             | 2021-22<br>1736585 T<br>2020-21<br>1975060T<br>2019-20<br>2012687T<br>2018-19<br>1946142T<br>2017-18<br>1812190T | 2021-22<br>775500 T<br>2020-21<br>472070T<br>2019-20<br>449830T<br>2018-19<br>629800T<br>2017-18<br>427700T   | Due to lack of demand production is achieved less than the proposal. Violation is pointed out for the same under Rule 11(1) of MCDR 2017. |
| 3q | General remarks of inspecting officers on method of mining etc.                                      |  | The working has been carried out within the proposed area. Bench height is maintained 6.00 to 8.00 mtrs which is within the proposed limit and suitable for the method of mining adopted. |   |

## Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals | Actual work | Remarks |
|--------|--|-----------|-------------|---------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | None.     | None.       |         |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | None.     | None.       |         |

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| 4c | Number of dumps within lease area and outside of lease area        | None in the present plan period.  | None.  | Heaps of old stocks of limestone are existing between the co-ordinates. N 1658380 to N 1658600 and E 188580 to 189000. |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | None in the present plan period.  | None.  |  |
| 4e | Number of active and alive dumps.                                  | None in the present plan period.  | None.  | Heaps of old stocks of limestone are existing between the co-ordinates. N 1658380 to N 1658600 and E 188580 to 189000. |
| 4f | Number of dead dumps.  | None.   | None.  |  |
| 4g | Number of dumps established.                                       | None.   | None.  |  |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | There was a proposal for making a retaining bund of 178m(l) x 2m(w) x 1.5m(h), in the year 2021-22. | None.  | Violation is pointed out for the same under Rule 11(1) of MCDR 2017.   |
| 4i | Length of Retaining wall or garland drain all along dumps          | 178m(l) x 2m(w) x 1.5m(h)   | Not applicable.  | Violation is pointed out for the same under Rule 11(1) of MCDR 2017.   |
| 4j | Number of settling ponds   | None.   | None.  |  |
| 4k | Specific comments of inspecting officer on waste dump management   |   | No waste dump was proposed in the present plan period. The waste generated during the present plan period was utilized for backfilling as per the proposal. There was a proposal for making one retaining bund in the year 2021-22, however. leseess has not made retaining bund as per the proposal and violtion is pointed out for the same under Rule 11(1) of MCDR 2017. |  |

## 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. | Proposed backfilling in the quartzite exposed area.           | Backfilling is made in the quartzite exposed area after full extraction of ore.                                 |  |
| 5b     | Area under backfilling of mined out area  | 1500sq.mtr in the year 2021-22.                               | 220 Sq.mtr in the year 2021-22.   |  |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | None.   | None.   |  |
| 5d     | Total area fully reclaimed and rehabilitated  | 0.15Ha area was proposed for backfilling in the year 2021-22. | 0.022Ha area was backfilled in the year 2021-22.  | Due to lack of demand production and development is achieved less. So back filling is not carried out as per the proposal. |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    |   | Since the production and development is achieved less. The backfilling was not carried out as per the proposal. |  |

## 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). | Before 1st july of every year.                                 | Lessee has submitted PMCP report for the year 2021-22. | Submitted PMCP report for the year 2021-22 on 30.04.2022.             |
| 6b     | Area available for rehabilitation (ha) .                                     | None.  | None.  | Only backfilling was proposed in the present plan period.             |
| 6c     | afforestation done (ha).   | 1.00Ha in the year 2021-22.                                    | 3.7 Ha in the year 2021-22.                            |   |
| 6d     | No. of saplings planted during the year                                      | 1500 saplings in the year 2021-22.                             | 3155 saplings in the year 2021-22.                     | Plantation was made morethan the proposal.                            |
| 6e     | Cumulative no .of plants   | 7500 saplings in the present plan period (2021-22 to 2025-26). | 3155 sapling in the year 2021-22.                      | Cumulative plantation made so far up to 01.04.2022 is 22696 saplings. |



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| 6f | Any other method of rehabilitation  | None.   | None.   |  |
| 6g | Cost incurred on watch and care during the year   | None.   | approximately 2.00 lakhs.   |  |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D | 100m(l) x 30m(w) backfilling was proposed up to 2022-23.              | 22m(l) x 10m(w) in the year 2021-22.  | Due to lack of demand production and development is achieved less only. So backfilling is achieved only 22% of the proposal. |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings           | Proposed 14176 cubic meter waste for backfilling in the year 2021-22. | Only 1800 cub mtr waste was generated in the year 2021-22 and entire quantity was utilized for backfilling as per the proposal and making bund. | The deviation is due to less production and development in the year 2021-22.   |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area          | None.   | None.   |  |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir   | None.   | None.   |  |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.                   | None.   | None.   |  |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation                                   | Plantation was proposed in the 7.5 mtr safety zone.                   | Plantation is made in the 7.5mtr safety zone.   |  |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)                       | 1.0ha was proposed for plantation in the year 2021-22.                | 3.7Ha plantation was made in the year 2021-22.  |  |

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| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation             | None.  | None.  |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | Proposed regular monitoring of Air, water and noise in the core and buffer zone. | Lessee has carried out environmental monitoring in the month of January 2022 for Air, Water and Noise and all the parameters are found within permissible limit.   |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. |  | Lessee has made total 3155 plantation in the present plan period (2021-22) and 22696,000 cumulatively so far. Lessee is regularly monitoring Air and water and results are within permissible limit. Submitted yearly report on PMCP for the year 2021-22. |

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Mineral Conservation:

| Sl.No. | Item  | Proposals   | Actual work  | Remarks |
|--------|---|---|--|---------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area    | Proposed dispatch of cement grade ore to the captive plant. | Lessee has dispatched Cement grade ore to the plant as per the proposal. |         |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanical.   | Mechanical.  |         |
| 7c     | Different grade of mineral sorted out at mines.                 | Cement Grade.   | Cement Grade.  |         |
| 7d     | Any beneficiation process at mines                              | None.   | None.  |         |

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| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | Lessee is using entire ROM by blending lowgrade with the high grade as per the requirement of the plant. |
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Environment:

| Sl.No. | Item  | Propasals   | Actual work   | Remarks   |
|--------|---|---|---|---|
| 8a     | Separate removal and utilization of topsoil (Rule 32)   | Yes proposed.   | Entire topsoil removed in the year 2021-22 was utilized for plantation work.  |   |
| 8b     | Concurrent use or storage of topsoil  | Concurrent use.   | Concurrent use.   | Enrire topsoil removed is utilized for plantation work. |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | None.   | None.   | No dumps were formed in the present plan period.        |
| 8d     | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | proposed waste rock for backfilling and quartzite exposed area. | Waste rock generated during the year 2021-22 was utilized for backfilling as per the proposal.                                |   |
| 8e     | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Proposed reclmation of about 0.15Ha pit in the year 2021-22.    | About 0.02Ha pit is backfilled in the year 2021-22.   |   |
| 8f     | Baseline information on existence of plantation and additional plantation done (Rule 41)                    |   | Yes, information was given in the approved mining plan. Additionally lessee has planted 22696 saplings within the lease area. |   |

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| 8g | Survival rate  | None.          | 80 to 85%.   | Lessee is monitoring the plantation by regular maintenance and watering by deploying man power. |
| 8h | Water sprinkling on roads to control airborne dust                                 | Yes, proposed. | Regularly spraying water on the working benches, Haul road etc.  | One water tanker of 12,000 ltr capacity is in use for dust suppression.                         |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area |                | Benches and haulage roads were maintained systematically. One water tanker is deployed for sprinkling water in the working area and on the haulage roads. Plantation was made in the 7.5 mtr safety zone and engaged manpower for monitoring plantation. |   |

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Compliance of Rule 45:

| Sl.No. | Item   | Propasals   | Actual work   | Remarks |
|--------|--|---|---|---------|
| 9a     | Status of submission of Monthly and Annual returns | A monthly returns shall be submitted before 10 th day of every month in respect of preceding month and an annual returns shall be submitted before 1st day of july of each year for the preceding financial year. | Lessee is regularly submitting monthy and annual returns within the time limit. |         |

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| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Name of the Mining Engineer:-<br>Shri S Sreenivasulu Setty,<br>Geologist:- M Ramesh Babu and Manager:-<br>Shri K.Ramakrishna Reddy.   | The details of Mining Engineer and Geologist given in the annual returns submitted for the year 2021-22 is verified and found correct. |  |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area under mining- 52.35Ha,<br>Infrastructure -4.77Ha,<br>Plantation- 16.13Ha.  | The information furnished in the Annual returns regarding land use pattern is almost found correct.                                    |  |
| 9d | Scrutiny of Annual return on afforestation  | 3155 saplings in the year 2021-22   | The information furnished in the annual returns submitted for the year 2021-22 is found correct.                                       |  |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | None.   | None.  |  |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                                      | ROM: Opening and closing stock:- Nil,<br>Production:- 775500 tonnes., Grade wise production, Cement Grade:- Opening and closing stock:-Nil,<br>Production and dispatch:- 775500 tonnes. | The information furnished in the annual returns is found correct.  | Entire ROM produced is dispatched to captive plant as cement grade.    |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Cost of production and ex-mine price is shown as Rs 221.65/T.   | Interest and tax paid are shown as zero under cost of production. However, under Capital cost and taxes and cesses figures are given.  | Showcause notice is issued for the same under Rule 45(7) of MCDR 2017. |

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| 9h | Scrutiny of Annual return on fixed assets       | Value of fixed assets is mentioned as Rs 431400000.   | In the AR submitted for the year 2021-22, Opening balance given for Industrial , Plant and machinery are not matching with the closing balance given in the AR submitted for the year 2020-21. Further, Value of total assest is mentioned as | Showcause notice is issued for the same under Rule 45(7) of MCDR 2017. |
| 9k | Scrutiny of Annual return on mining machineries | Shovel 3.00cum capacity- 02, Dumper 35 T capacity- 06, Rock drill-01, Dozar-01, water Tanker- 01, Explosive van-01. | The details of mining machineries given in the annual returns submitted for the year 2021-22 is found correct.  |  |

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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 :

(kalmata.M.K)

Indian Bureau of Mines