

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/ANP/LST-37/HYD

Mine code : 38APR02054

- (i) Name of the Inspecting : M029) MADHU SUDHAN YADAV M
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri.J.Naveen Kumar Reddy, Mine Manager & Shri. Y.Sre
Official with
Designation
- (iv) Date of Inspection : 21-DEC-22
- (v) Prev.inspection date : 25-MAY-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : GUDIPADU(40.816 HA)
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : ANANTAPUR
- Village : Gudipadu
- Taluka : Yadiki
- Post office : Yadiki
- Pin Code : 515408
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** : YADIKI
- (g) **First opening date** : 01-OCT-21
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : PENNA CEMENT INDUSTRIES LIMITED
GUDIPADU
ANANTPUR DISTRICT
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 : PENNA CEMENT INDUSTRIES LIMITED
TANDUR VIKARABAD DISTRICT
RANGAREDDY TELANGANA
Phone:08411-247897
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	17 No of core bore holes with Upto a depth of Mineralisation	17 No of Core bore holes with 545 Meters depth	Total 40.816 Ha ML area covered under G1 in the years 2021-22.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Third party	JP core drilling	Total drilling expenditure is Rs. 10,95,506/-
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	Entire mining lease is cover under G1 level of exploration.
1e	Balance reserve as on 01/04/20	----	Proved Mineral Reserves as on 01/04/2022 - 20.642 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2021-22: E 818746 - E 819180 N 1673334 - N 1673702 2022-23: E818799- E819053 N1673375- N1673588	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	No overburden generated in the mining area.

2d	Quantity of topsoil generation in m3	2021-22 : 19850 cu.m 2022-23 : 4550 cu.m	2021-22 : 19150 cu.m 2022-23 : 5555 cu.m (upto Nov'22)	
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			Topsoil generated being used as safety bunds around the mining pit.

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 : 500040 Tonnes 2022-23 : 500040 Tonnes	2021-22 : 365000 Tonnes 2022-23 : 100000 Tonnes (upto Nov'22)	Lessee has reported that limestone production for the year 2021-22 not achieved due to lack of demand from captive cement plant.
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 proposed in the mineral benches.	Drilling and blasting carried out in the mineral benches with hole dia 150mm Burden : 5 M Spacing : 7 M Depth : 8 to 10M Explosive per each hole : 90 to 125 Kgs Booster 20% & ANFO 80%
3k	Provision of mining machineries in mineral benches	Proposed to use machineries in the mineral benches	Mining operations has been carried out with Hydraulic Excavators, drill machinery, Tippers etc. in mineral benches.
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 10 meters	Bench height is being maintained as 10 m. Digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	21.36 Ha	1.23 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0
3o	Total area put in use under different heads at the end of year	Mining Pit - 21.36 Ha (till end of plan period) Plantation - 1.36 Ha (till end of plan period)	Mining Pit - 1.52 Ha Plantation - 0.39 Ha
3p	Production of ROM mineral during the last five year period as applicable	2021-22 - 500400 Te 2022-23 - 500400 Te	2021-22 - 365000 Te 2022-23 - 100000 Te (upto Nov'22)
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	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping for topsoil proposed	Topsoil being scrapped and used as safety bund around the mining pit	
4b	Location of topsoil, OB and mineral reject dumps	N1673225- E818737 N1673086- E818968	No topsoil dump established	
4c	Number of dumps within lease area and outside of lease area	One topsoil dump proposed within lease area	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Nil	
4e	Number of active and alive dumps.	One topsoil dump proposed	Nil	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	One topsoil dump to be established	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall: 2021-22 : 660 m 2022-23 : 150 m	No dump established in the mining lease area	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 2021-22 : 660 m 2022-23 : 150 m	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Top soil generated has been collected & spread in 7.5m safety zone for Green Belt Development and used as safety bund around the mining pit. No waste dump developed in the mining lease area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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.			No area of the mine is excavated upto the 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	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2021-22 : 0.11 Ha 2022-23 : 0.299 Ha	2021-22 : 0.11 Nos. 2022-23 : Nil	Lessee has reported that plantation for the year 2022-23 will be carried out within the plan period.
6d	No. of saplings planted during the year	2021-22 : 200 Nos. 2022-22 : 400 Nos.	2021-22 : 360 Nos. 2022-23 : Nil	Lessee has reported that plantation for the year 2022-23 will be carried out within the plan period.

6e	Cumulative no .of plants	No proposal	360 Nos.
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 produced is to be despatched.	The entire ROM is being fed to crusher and then supplied to the plant for manufacturing for Cement.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	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 is been generated in the mine. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	2021-22 : 19850 cu.m 2022-23 : 4550 cu.m	2021-22 : 19150 cu.m 2022-23 : 5555 cu.m (upto Nov'22)	Total generated top soil was utilized as safety bund around the mining pit.
8b	Concurrent use or storage of topsoil	Topsoil proposed to store as dump	Nil	Total generated top soil was utilized for plantation and safety bund around the mining pit.
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)	2021-22 : 200 Nos. of saplings to be planted	2021-22 : 360 Nos. of saplings planted	
8g	Survival rate	95%	96 %	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tankers provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is done in the 7.5m safety zone.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return and annual return to	Annual and Monthly returns submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. J. Naveen Kumar Reddy Mining Engineer - Sri. E.Shiva Abhilash Reddy Geologist - Sri. Y.Sreedhar	Manager - Sri. J. Naveen Kumar Reddy Mining Engineer - Sri. E.Shiva Abhilash Reddy Geologist - Sri. Y.Sreedhar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining Pit - 1.23 Ha Plantation - 0.39 Ha	Mining Pit - 1.23 Ha Plantation - 0.39 Ha	
9d	Scrutiny of Annual return on afforestation	360 Nos.	360 Nos.	
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 reported as Rs.212.08/-	Total Depreciation amount is not matching with the cost per tonne calculation & total overhead cost is not submitted Part-III. Sl.No.5.	Lessee has requested to mms division for refer back the annual returns for corrections.
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.657674420/-	Fixed assest could not be verified.	

9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) - 02 Nos. Dumper - 06 Nos. Drill machine - 1 No. Dozer - 1 No. Explosive van - 1 No. Water Tanker - 1 No.	Machineries found in the mining area.
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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 :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines