

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/ANP/LST-6/HYD

Mine code : 38APR02019

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri M Ramanjaneya Reddy, Shri Rama Krishna Reddy
Official with
Designation
- (iv) Date of Inspection : 10/03/2021
- (v) Prev.inspection date : 05/03/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **URICHINTALA**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : ANANTAPUR
- Village : TADIPATRI
- Taluka : TADIPATRI
- Post office : URICHINTALA
- Pin Code : 515411
- FAX No. : 040-23353951
- E-mail : pcilhyd@hyd1.vsnl.net.in
- Phone : 23353945,23353950,23353952
- (f) **Police Station** :
- (g) **First opening date** : 29/01/1988
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : TALARICHERU(V0TADIPATYRI(M)
ANANTAPUR.DIST.ANDRAPRADESDH
PHONENO.08558-286055,286066.FAX08558-286044
3. (a) **Lease Number** : APR1224
- (b) **Lease area** : 178.25
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 18/12/2014
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : PENNA CEMENT INDUSTRIES LTD
 PLOTNO.703,
 SRINIKETANCOLONYROADNO.3
 BANJARAHILLS.HYDERABAD
 HYDERABAD TELANGANA
 Phone:08558, 86055,86066
 FAX :08558-86044

Owner : SATISH REDDY
 M/S PENNA CEMENT INDS PLOT
 NO.703, SRINIKETAN COLONY
 ROAD NO.3 BANJARA HILLS
 HYDERABAD TELANGANA
 Phone: 040-23353952/95
 FAX : 040-23353951

Agent : C.J.REDDY
 PENNA CEMENT INDUSTRIES LTD
 TALARCHERUVU VILLAGE
 TADIPATRI MANDAL ANANTAPUR
 ANDHRA PRADESH
 Phone: 08558-286055,66
 FAX :

Mining Engineer

Name : L.Sainath,Full Time
 Qualification : B.Techin Mining Engineering.
 Appointment/ :
 Termination date

Geologist

Name : M Ramesh Babu,Full Time
 Qualification :
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	26/07/2002
Plan/Scheme of Mining		Modif.of approved Mining Plan	19/07/2012
		Mining Scheme rule 12 MCDR1988	01/04/2013
		Mining Scheme rule 12 MCDR1988	29/10/2014
		MP modif under MCR 1960	30/10/2015
		MP review under 17(1) MCR 2016	22/11/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2019-20.	Nil.	During 2020-21, 6 nos. of trial pits each of dimension (1m X 1m X 2m) have been dug.
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal in 2019-20.	Nil.	59.06 Ha. explored under G1 & G2 level exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposal in 2019-20.	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	7.90 Ha could not be explored as SW & SE part of lease area is falling in steeply sloping Escarpment.	
1e	Balance reserve as on 01/04/20		As on 31.03.2020 7.82 Million Tonnes in (111) category-Reserves 13 Million Tonnes-Remaining Resources.	
1f	General remarks of inspecting officers on geology, exploration etc			The deposit is simple, stratified and is of Narji Limestone Formation of Kurnool Group.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	S250 to N250, W200 to E 220	Working has been made in SE & Central part of the mine.	During inspection it has been noticed that substantial deviations have taken place in the locations of pits vis-à-vis approvals accorded in the Modified Mining Plan for the years 2019-20. Violation u/r 11(1) of MCDR-2017 has been issued.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil is not available. OB is nil. Proposal for separate bench in mineral only was approved.	Not applicable for Top soil and OB. Benches have been developed in Mineral only.	
2c	Stripping ratio or ore to OB ratio	No generation of OB	OB not generated.	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
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	<p>Mining has been made in SW part of the main haul road. N-1652981 to N1652650, E-186460 - E-186700 Dimension (300m x 130m x 3m).</p>	<p>The sump has been developed of 3m depth is developed for water harvesting.</p>	<p>Mining is being done from top of the hill in a single pit by 3 nos of benches with bench height ranging from 3 to 8m. Pit size is about 675m X 440m.</p>

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	1212520 tonnes in 2019-20	510170 tonnes	<p>During 2020-21 (Upto 28.2.2021) 454780 tonnes Limestone ROM produced against the proposal of 1614648 tonnes Limestone in 2020-21.</p>
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	No mineral rejects produced.	

3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable
3f	Quantity of sub grade mineral generation.	No proposal as entire ROM is usable	Nil
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal as entire ROM is directly usable.	Entire ROM is directly usable. Segregation is not required.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal as entire ROM is directly usable as it is.	Not done.
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and Blasting Proposed, Spacing-6m, Burden 4m, Depth - 8m, Booster & ANFO are proposed to be used at 20:80, 150 mm dia of dis/743 C model drill with compressor and blasting is proposed by using milli second delay detonators (NONEL) for better fragmentation.	150mmdia of dis/743C model Drill with Compressor. Blasting is proposed by using milli second delay detonators (NONEL) for better fragmentation.
3k	Provision of mining machineries in mineral benches	Hydraulic shovel, - Dumper, Dozer combination is proposed for mineral handling.	3.0 Cu.M bucket capacity Hydraulic Shovels and 35 tonner Dumpers -4 nos, Dozer have been utilised for mineral handling.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 m bench height.	8 mt bench height maintained. Shovel can dig easily upto the bench height.	As no overburden in mines, no OB benches are formed.
3m	Total area covered under excavation/pits	At start of plan period - 15.55 Ha. By 31.03.2020- 20.04 Ha	As on 31.03.2020 (17.50 Ha.)	
3n	Ore to OB ratio for the pit/mine during the year.	No proposal in 2019-20	Nil	
3o	Total area put in use under different heads at the end of year	35.51 Ha. (By end of 31.3.2024)	Pit-17.50 Ha. Roads & others 4.12 Ha. Plantation 2.65 Ha. Total -24.27 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 - 660589 tonnes 2016-17 - 658594 tonnes 2017-18 - 661192 tonnes 2018-19 - 660943.63 tonnes 2019-20 - 1212520 tonnes	2015-16 - Nil 2016-17 - 192700 tonnes 2017-18 - 301000 tonnes 2018-19 - 540000 tonnes 2019-20 - 510170 tonnes	
3q	General remarks of inspecting officers on method of mining etc.			Mining is being done by Open cast method of mining including deep hole drilling and blasting and in combination with Shovel and Dumper.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal in 2019-20	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No proposal in 2019-20	Not Applicable	

4c	Number of dumps within lease area and outside of lease area	No proposal in 2019-20	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal in 2019-20	No waste dump.
4e	Number of active and alive dumps.	No proposal in 2019-20	Nil
4f	Number of dead dumps.	No proposal in 2019-20	Nil
4g	Number of dumps established.	No proposal in 2019-20	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable.	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable
4j	Number of settling ponds	Not applicable	Not applicable
4k	Specific comments of inspecting officer on waste dump management		No waste generated during 2019-20 and also there is no waste dump lying within the lease area.

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 in 2019-20 as Mineral is yet to be extracted upto UPL.	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	Mineral is yet to be extracted upto UPL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NA	No top soil is availabe within the mining lease.

5d	Total area fully reclaimed and rehabilitated	No proposal as Mineral is yet to be extracted upto UPL.	Nil. No part of the lease area is fully matured for back filling, reclamation and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is yet to be extracted upto UPL.No portion of the lease area is fully matured for back filling, reclamation and rehabilitation.

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 on time	Submitted on 25.05.2020	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.144 Ha	0.65 Ha	
6d	No. of saplings planted during the year	578 nos	600 nos in 0.65 Ha within ML (7.5m safety barrier zone from BP-1 to BP-16)	During 2020-21(upto 28.02.2021) 400 nos saplings planted in 0.2 Ha within ML(7.5m safety barrier zone from BP-2 to 8)
6e	Cumulative no .of plants		2566 nos Saplings Planted in 2.95 Ha within ML and 4197 nos Saplings Planted in 3.75 Ha out side ML.	
6f	Any other method of rehabilitation	No proposal in 2019-20 as mineral is yet to be extracted upto UPL.	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal in Nil 2019-20 as mineral is yet to be extracted upto UPL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal in Nil 2019-20.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal in Nil 2019-20.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal in Nil 2019-20.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal in Nil 2019-20.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal in Nil 2019-20.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal in Nil 2019-20.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal in Nil 2019-20.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental Monitoring to be done quarterly.	Environmental Monitoring is done quarterly as given below Ambient Air Quality and Noise Level -6 core Zone and 5 buffer Zone Location Water Quality-7 Buffer Zone Locations.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation and Environmental monitoring is being done as a part of PMCP.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to despatch the entire ROM.No grade wise sorting.	Entire produced ROM has been despatched.No grade wise sorting.	
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.	Nil	
7d	Any beneficiation process at mines .	No proposal as entire ROM is directly usable.	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Crushing plant exist outside the mining lease area i.e. within the cement plant area where only mechanical crushing is done to get the out put size of -70mm. No beneficiation is done.

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal as there is no top soil in the ML	Nil	
8b	Concurrent use or storage of topsoil	Not applicable.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal as there is no top soil, Mineral Reject and OB within the ML.	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)	2890 nos plant in 0.72 Ha (2019-20 to 2023-24)	600 in 0.65 Ha-2019-20 400 in 0.20 Ha-2020-21 (up to 28.02.2021)	
8g	Survival rate	80%	60%	
8h	Water sprinkling on roads to control airborne dust	10KL mobile water tanker with sprinkler.	15KL mobile water tanker with sprinkler is provided to suppress the Air borne dust on the Haul road.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Agricultural fields are lying in North side of the mining lease area. Vegetation in other parts are very scanty and having bush type vegetation with rare trees. Plantation has been done along the approach road to mines to improve the aesthetic beauty.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitting monthly and annual return in time	MR submitted upto Feb 2021. Annual return submitted for 2019-20.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	K.Ramanjaneya Reddy, Mines Manager V.Pullaiiah, Geologist L.V.Sainath Reddy, ME	K.Ramanjaneya Reddy, Mines Manager V.Pullaiiah, Geologist L.V.Sainath Reddy, ME	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) working- 17.50 hectare occupied by plant, buildings, residential welfare buildings & roads - 4.12 Ha. green belt development- 2.65	Covered under current (O/C) working- 17.50 hectare occupied by plant, buildings, residential welfare buildings & roads - 4.12 Ha. green belt development- 2.65	During inspection it has been noticed that substantial deviations have taken place in the locations of pits vis-à-vis approvals accorded in the Modified Mining Plan for the years 2019-20. Violation u/r 11(1) of MCDR-2017 has been issued.
9d	Scrutiny of Annual return on afforestation	600 nos. saplings planted within the lease area 1764 nos saplings planted out side the lease area	600 nos. saplings planted within the lease area 1764 nos saplings planted out side the lease area	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Generation of mineral rejects - Nil	Nil.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	ROM production of 510170 Tonnes as per record.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price- Rs 165.13 Per Tonne, Cost of Production-Rs 165.13 Per Tonne	Ex Mine price and Cost of Production both reported as Rs 165.13 Per Tonne	
9h	Scrutiny of Annual return on fixed assets	Data submitted in the returns		
9k	Scrutiny of Annual return on mining machineries	Submitted	Shovel- 3 Cu m-1 no Dumper-35 Tonnes- 4 nos. Dozer-1 no. Drill machine 150mm- 1 no Water tanker- 1 (12KL)	

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)	06/04/2021			
MCDR17	Rule 11(1)	06/04/2021			

Date :

(S K MUDULI)

Indian Bureau of Mines