

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-170/HYD

Mine code : 38APR11115

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri K.Ramakrishna Reddy, Sri M.Ramesh Babu
Official with
Designation
- (iv) Date of Inspection : 08/03/2021
- (v) Prev.inspection date : 10/08/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KORUMANIPALLI(205.212)**
- (b) **Registration NO.** : **IBM/1099/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **ANDHRA PRADESH**
- District : **KURNOOL**
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : **08558-286044**
- E-mail :
- Phone : **08558-286055**
- (f) **Police Station** : **KOLIMIGUNDLA**
- (g) **First opening date** : **31/01/2007**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **M/S PENNA CEMENT INDUSTRIES LTD.**
correspondance **TALARICHERUVU MANDAL**
TALARICHERUVU VILLAGE, ANANTPUR DISTRICT.
3. (a) **Lease Number** : **APR2302**
- (b) **Lease area** : **205.21**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **29/01/2024**
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 : D.Lakshmikantham
 Lakshmi Nivas 705, Road
 No.3, Banjara Hills,
 Hyderabad-500034 HYDERABAD
 TELANGANA
 Phone:
 FAX :

Agent : Sri.P.Venkata krishnaiah Yadav
 Penna Nagar, Urichintala
 Post, Tadpatri Mandal
 Anantapur district
 ANANTAPUR ANDHRA PRADESH
 Phone: 9440906826
 FAX :

Manager
 Name : K.RAMAKRISHNA REDDY
 Qualification : DIP. IN MINING
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22/04/2003
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	25/04/2007
	:	Mining Scheme rule 12 MCDR1988	02/01/2013
	:	MP review under 17(1) MCR 2016	30/03/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2019-20-12 nos DTH Bore holes	13 Nos DTH Bore holes drilled for 234.5m	During 2020-21 there is no exploration proposal.
1b	Exploration over lease area for geological axis 1 or 2	24 Ha proposed to be explored in G1 and G2 level of exploration.	24 Ha explored during 2019-20 in G1 and G2 level of exploration.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee	About Rs 2,51,825/- has been spent for exploration.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	24 Ha proposed to be explored in 2019-20.	24 Ha area explored in G1 and G2 level in 2019-20.	About 142.582 Ha has been explored in G1 and G2 level. Balance 62.63 Ha to be explored in G1/G2 level during 2021-22. A total of 23 BHs proposed in 2021-22 and exploratory WO has been issued to JP Kore Drilling on 28-1-2021.
1e	Balance reserve as on 01/04/20		Mineral Reserve in (111) category-13.315 million tonnes, 17.125 mt in (122) category Remaining Resources - 18.896 mt.	

1f	General remarks of inspecting officers on geology, exploration etc	-	The lease area comprises of Grey to Dark Grey Limestone with Variegated Argillaceous Limestone at Places. The entire lease area is limestone bearing and intersection of Conglomerate at the bottom is encountered at some places. The General Strike of the Limestone bed in the lease area is E-W bedding and dipping Northerly at an angle of 2 to 5 degrees. About 142.582 Ha area has been explored in G1 & G2 level so far.
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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During 2019-20-Development proposed at E189348 to E190010,N 1658140 to N1658650 and during 2020-21 development proposed at E189348 to E190040,N 1658140 to N1658650	Mining has been carried in the proposed location during 2019-20 and 2020-21.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, Top Soil and Mineral Benches are to be maintained separately	Separate bench in ore, top soil is maintained.	
2c	Stripping ratio or ore to OB ratio	1 : 0.02	Nil	
2d	Quantity of topsoil generation in m3	284 m3 (2019-20)	360 m3/540 tonnes in 2019-20. During 2020-21(upto 28.02.2021)-No top soil generated.	

2e	Quantity of overburden generation in m3	16430 Cu.M Intercalated waste in 2019-20	Nil during 2019-20. During 2020-21 (upto 28.02.2021)-No top soil and OB generated.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			In total there are three pits. Presently mining is done at Pit-3. The Lessee has intimated regarding amalgamation of two Mining Leases Korumanipalli Mining Lease over an extent of 205.212 Ha and Korumanipalli Mining Lease over an extent 49.64 Ha vide GO Ms No-18 Dated 16.03.2021.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	only Pit-3 was proposed for production	Production has been done in Pit-3. In total there are 3 Pits within the ML.	
3b	Quantity of ROM mineral production proposed	1964210 tonnes (2019-20)	449830 tonnes (2019-20)	355790 tonnes produced against the proposal of 1906681 tonnes during 2020-21 (upto 28-2-2021) .
3c	Recovery of sailable/usable mineral from ROM production	98%	100%	
3d	Quantity of mineral reject generation	No Mineral Reject generation assessed during 2019-20 and 2020-21	Nil during 2019-20 and also in 2020-21 (upto 28.02.2021)	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	

3f	Quantity of sub grade mineral generation.	No Mineral Reject generation assessed during 2019-20 and 2020-21	Nil during 2019-20 and also in 2020-21 (upto 28.02.2021)	
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal in 2019-20 and 2020-21	Nil during 2019-20 and 2020-21	No segregation in ROM is required as entire ROM is being fed to the plant.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal for beneficiation as entire ROM is usable.	Not done.	
3j	Provision of drilling and blasting in mineral benches	Drilling of blast hole by 150 mm dia drill with depth of hole of 9 m, Burden- 4 m and Spacing 6 m. Blasting to be carried out using slurry explosives in combination with delay detonators. Slurry Explosives: ANFO-20:80.	Drilling and blasting operations are being carried out as approved.	
3k	Provision of mining machineries in mineral benches	DRILLING MACHINE : (150 mm Dia)- 1 No. EXCAVATOR- 450(3CUM)-2 Nos. DUMPERS- (20 CUM)- 10 Nos. DOZER (855 C)-1 No.	Excavator-3 Cu.M- 1no, Dumpers-35 tonners-4 nos, Dozer-1no.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Boom length of backhoe Excavator of 3.0 cum capacity is suitable for bench height in Ore of 8 meters.	Yes, digging height of 3.0 cum capacity Shovel of is suitable for maintaining 08 meters bench height.	

3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.02	Nil	
3p	Production of ROM mineral during the last five year period as applicable	2013-14 :20,93263, 2014-15: 20,11,705, 2015-16: 21,00,060, 2016-17: 21,00,483, 2017-18: 18,12,189, 2018-19:1723750, 2019-20:1964210, 2020-21:1906681	2013-14: 11,41,170, 2014-15: 9,72,100, 2015-16 : 9,49,015, 2016-17: 8,67,000, 2017-18: 4,27,700, 2018-19:629800, 2019-20:449830, 2020-21: 355790(upto 28.02.2021)	All figures in Tonnes
3q	General remarks of inspecting officers on method of mining etc.			Open Cast Mining is being done by adopting Deep hole drilling and blasting, transportation and excavation by deploying Excavator and dumper.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal to spread top soil seperately, There is No proposal of generation of Mineral reject. Intercalated waste to be stored separately.	Top soil generated had been utilized for plantation purpose. No generation of Intercalated waste and MR.	

4b	Location of topsoil, OB and mineral reject dumps	Top Soil to be spreaded and utilised for Plantation. Intercalated Waste: N-1685075, E-189200 & N-1657868 E-189192	Top soil has been utilised for plantation during the year 2019-20 and 2020-21(upto 28.02.2021). No intercalated waste generated during the year 2019-20 and 2020-21(upto 28.02.2021).
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL.	No waste dump exists within the ML
4e	Number of active and alive dumps.	No proposal in 2019-20 and 2020-21	Nil
4f	Number of dead dumps.	No proposal in 2019-20 and 2020-21	Nil
4g	Number of dumps established.	No proposal in 2019-20 and 2020-21	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal in 2019-20 and 2020-21	Nil
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Not applicable
4j	Number of settling ponds	No proposal in 2019-20 and 2020-21	Nil
4k	Specific comments of inspecting officer on waste dump management		Top soil generated is being utilised for creating bed for green belt for Plantation purposes. There is no waste dump within the lease. Also waste has been utilised for for making ramps.

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 in 2019-20 and 2020-21.	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil during the year 2019-20 and 2020-21	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposal to utilize top soil for plantation.	Top soil generated has been utilized for plantation.	
5d	Total area fully reclaimed and rehabilitated	No proposal of reclamation and rehabilitation as no area is matured for the same.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Mineral is yet to be extracted upto UPL and as of now no portion of the lease area is matured to start backfilling.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yearly report is to be submitted for the year 2019-20	Yearly report submitted on 25.05.2020.	
6b	Area available for rehabilitation (ha) .	No area is matured for rehabilitation	<0.1 Ha is backfilled	
6c	afforestation done (ha).	1.0 Ha, 1000 sapplings	1.0 Ha, 1050 sapplings planted within ML (within the 7.5 m safety barrier)	
6d	No. of sapplings planted during the year	1000	1050	

6f	Any other method of rehabilitation	No proposals	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal in 2019-20 and 2020-21	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal in 2019-20 and 2020-21	Not done.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal in 2019-20 and 2020-21	Not done.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal in 2019-20 and 2020-21	Not done.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal in 2019-20 and 2020-21	Not done.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal in 2019-20 and 2020-21	Not done.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal in 2019-20 and 2020-21	Not done.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal in 2019-20 and 2020-21	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring is to be carried out for Ambient Air Quality, Water Quality, Noise Level etc.	Quarterly Environmental monitoring is being done. Water Core Zone Buffer Zone	AAQ Noise Locations- 1 Locations- 5 6
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental Monitoring and Plantation is being done as a part of Progressive Mine Closure activity.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting proposed and entire ROM is proposed to be despatched	No grade wise sorting done and entire ROM has been despatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal as entire ROM is usable.	Nil	
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.	Not done.	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No generation of Mineral reject/ Sub grade ore as the entire ROM is being utilised to feed the cement plant. Crushing plant is established within lease area for size reduction.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal is to remove top soil separately and to utilize top soil for plantation.	Top soil generated is utilized for plantation.	
8b	Concurrent use or storage of topsoil	Top soil is proposed for plantation purpose	Yes, top soil is utilised for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal as there asthere is no generation of waste, mineral reject is there in the lease area.	No Interclalted waste generation during 2019-20 and 2020-21 (upto 28.02.2021).	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil during 2019-20 and 2020-21 (upto 28.02.2021).	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not done	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 sapplings proposed for the year 2019-20 1000 sapplings proposed for the year 2020-21	1050 nos sapplings planted in 1 Ha during 2019-20 4255 nos sapplings planted during 2020-21(Upto 28.02.2021)	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Water tanker shall be provided to suppress the dust	Water sprinkling arrangement is observed for dust suppression	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being done to improve the aesthetic beauty of the Mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. & A.R shall be submitted regularly.	Online M.R. & A.R submitted up to Date	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri. S.Srinivasulu Setty, Mining Engineer, Sri. M.Ramesh Babu, Geologist, Sri.K.Ramakrishna Reddy, Mines Manager	S Sri. M.Ramesh Babu- Geologist, Sri. S.Srinivasulu Setty- Mining Engineer, Sri.K.Ramakrishna Reddy- Mines Manager	
9d	Scrutiny of Annual return on afforestation	1000	1050	
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 & Exmine Price - Rs. 177.81	Rs. 177.81	The ore is utilised for captive use in its own plant
9h	Scrutiny of Annual return on fixed assets	Rs 25,74300000/-	As reported by lessee	Conmbinely submitted for both Korumanipalli Mining Lease of 205.212 Ha and 49.64 Ha.
9k	Scrutiny of Annual return on mining machineries	SHOVEL (3.000 CUM)-1 Nos, DUMPER (35.000 TONNE)-4 nos, ROCK DRILL (150 MM)-1 no. EXPLOSIVE VAN: (12000 LITRES)-1 1 no. DOZER (340 HP)-1, WATER TANKER (12000 LITRES)-1	SHOVEL (3.000 CUM)-1 Nos, DUMPER (35.000 TONNE)-4 nos, ROCK DRILL (150 MM)-1 no. EXPLOSIVE VAN: 1 no. DOZER (340 HP)-1, WATER TANKER (12000 LITRES)-1	

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

Date :

(S K MUDULI)

Indian Bureau of Mines