

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

**Mining Plan inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/ANP/L.ST-27/ HYD

**Mine code :** 38APR02032

- (i) Name of the Inspecting : 25 ) SHRI IBRAHIM SARIF  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri K Ramasubbaiah, Agent ( Mines), Shri Navin, Minin  
Official with  
Designation
- (iv) Date of Inspection : 28-NOV-19
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : GUDIPADU (392.62 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. : 98481-72059 (works) 040--233!
- E-mail : Projects@pennacements.com, I
- Phone : (08558) 279833 (w) 040-233539!
- (f) **Police Station** :
- (g) **First opening date** : 21-JUL-07
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : BOYIREDDYPALLI (V) CHINTALAYAPALLI (PO) KAMALAPADU  
YADIKI (M) ANANTAPUR, DIST. A. P. REGD. OFF: PLOTNO70  
ROADENO:3, BANJARAHILLS. HYDERABAD-500034 A. P,
3. (a) **Lease Number** : APR2353
- (b) **Lease area** : 392.62
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 15-JUL-27
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 : K.NAGARAJU  
 M/S PENNA CEMENT INDUSTRIES  
 LIMITED BOYAREDDIPALLI  
 VILLAGE, YADIKI MAND  
 ANANTPUR DISTRICT ANANTAPUR  
 ANDHRA PRADESH  
 Phone: 08558-285158  
 FAX :

Agent : P.VENUGOPAL REDDY  
 M/S PENNA CEMENTT  
 INDUSTRIES LTD. PLOT  
 NO.705, ROAD NO.3 HYDERABAD  
 HYDERABAD TELANGANA  
 Phone: 040-44565100  
 FAX : 040-23355941

## Mining Engineer

Name : K.NAGARAJU, Full Time  
 Qualification : L.M.E.  
 Appointment/ : 23-JUN-11  
 Termination date

## Geologist

Name : K RAMBABU, Full Time  
 Qualification : M.Sc.,  
 Appointment/ : 25-JUL-08  
 Termination date

## Manager

Name : P.V.K.YADAV  
 Qualification : AMIE  
 Appointment/ : 09-APR-09  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	25-JUN-09
		Mining Scheme rule 12 MCDR1988	01-FEB-13
		MP review under 17(1) MCR 2016	27-MAR-17

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	23 Bore holes of 300 meterage	23 Bore holes with 375 meterage drilled	
1b	Exploration over lease area for geological axis 1 or 2	Exploration has to be completed in G1 scale	Exploration under G1 scale is completed as per the guidelines of MEMC Rules 2015	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee	In 2008-09 & 2014-15 ; M/s. J.P Kordrilling 301, Mythri Residency, Street No.7, Habsiguda, Hyderabad-500 007. babujpjed@gmail.com; Phone no.: +919441210762 2018-19 : Lessee.  Expenditure incurred so far for exploration is Rs. 45,77,350/	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Intermitted bore holes were proposed to drilled	23 DTH bore holes completed in the year 2018-19 as intermittent Bore holes. Laterally entire mineralised area has been explored under G1 scale.	
1e	Balance reserve as on 01/04/20	107.45	109.06	In Million Tonnes
1f	General remarks of inspecting officers on geology, exploration etc		Out of 392.62 Ha of ML area Mineralised area is 364.38 Ha covered under G1 and 28.24 Ha of Non Mineralised area covered under G3. Total 392.62 ha ML area covered under G1 at the end of 2018-19 laterally. Some more Bore holes neds to be drilled to prove the contact zone	

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit 1 : N 50300- E 50820, N 49850-E 50815 N 49860-E 49990 N 50360-E 50150 Pit-2 : N 50140-E 51450 N 49830-E 51450 N 49860-E 50860 N 40140-E 51000	Mining operation are being carried out within in proposaed grid lines	More or less
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches to be maintained in top soil & Minerals	Seperate bench in TOP Soil and Mineral is maintained	
2c	Stripping ratio or ore to OB ratio	1 : 0.008	1:0.008	
2d	Quantity of topsoil generation in m3	40170 CUM	4600 Cum	
2e	Quantity of overburden generation in m3	Nil	No waste generated as mining operation is carried out in mineral benches only	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Limestone deposit is Stratified and regular habit. Dewvelopment of pit is being carried out by maintaining bench height of 10 m and width 20 to 25 meters.	

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two no. of Pits	Mining Operations are being carried out Two pits for blending purpose.	
3b	Quantity of ROM mineral production proposed	23,02, 965 MT	12,95,200 MT	

3c	Recovery of sailable/usable mineral from ROM production	100%	100%
3d	Quantity of mineral reject generation	No Proposal of generation of Mineral reject	Nil
3f	Quantity of sub grade mineral generation.	No proposal of Generation of SUB Grade	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal of segregation of different Mineral in ROM as Entire ROM is utilised in the plant	N.A
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of any Beneficiation study on Sub Grade/ Mineral Reject	No study conducted
3j	Provision of drilling and blasting in mineral benches	Drilling operations are to be carried out by 150mm dia Blast hole Drill to drill bore holes in 5 m Burden and 8 m spacing drill pattern. Blasting operations are being carried out by Slurry explosives in combination of delay detonators	Drilling and Blasting operations are being carried out as proposed
3k	Provision of mining machineries in mineral benches	SHOVEL (3.3 CUM)- 2 nos, DUMPER (60TONNE)-6 Nos. BLAST HOST DRILL (150 MM)-1 No., DOZER (410HP)- 1 No.	THE above HEMM machineries are being used to carry out mining operation in the lease area

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Boom Length of 3.3 cum capacity Bench Excavator is suitable to maintain Bench height of 10 meters	Yes Bench height of 10 meters is suitable in Mineral benches as the Ore is Hard	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.008	1 : 0.008	
3o	Total area put in use under different heads at the end of year	Area under Mining 75.42, Storage of top soil- 14.90, Over burden / Dump- 4.59 Infrastructure (Work shop, Administration building etc., -1.07, Roads (Internal only)- 5.05 Others (Pipe Line) 0.25	Area under Mining 53.94, Storage of top soil- 0.0, Over burden / Dump- 3.32 Infrastructure (Work shop, Administration building etc., -0.25, Roads (Internal only)- 4.5 Others (Pipe Line) 0.25, Green Belt- 12.0	Area in Ha
3p	Production of ROM mineral during the last five year period as applicable	2012-13 - 2150660 MT 2013-14 - 2150725 MT 2014-15 - 2150570 MT 2015-16 - 2150478 MT 2016-17 - 2150325 MT 2017-18 - 2261537 MT 2018-19 - 2302965 MT	2012-13 - 16 80 000 MT 2013-14 - 13 57 000 MT 2014-15 - 13 20 600 MT 2015-16 - 12 70 000 MT 2016-17 - 10 99 495 MT 2017-18 - 11 67 315 MT 2018-19- 12,95,200 MT	
3q	General remarks of inspecting officers on method of mining etc.	Mining operations were approved to carryout by Fully mechanised with deep hole drilling and blasting	Mining is being carried as per approved proposals.	

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes it was proposed to maintain OB and Top Soil dump separetely	Old low grade stack is found dumped seperately. and Top soil generated ins being utilised concurrently for plantation and No OB is generated
4b	Location of topsoil, OB and mineral reject dumps	Top soil to be utilised for plantation Low grade ore N 49650 E-50200 Sub grade N-49450 E-49800	Top soil has been utilised for plantation, Low grade ore found dumped in the ear marked area
4c	Number of dumps within lease area and outside of lease area	No proposal	No waste dump found in the lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL
4e	Number of active and alive dumps.	Two, Low grade ore & sub grade ore dump	Low grade & sub-grade dump which is active
4f	Number of dead dumps.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	Top soil dump to be maintained to prevent wash off	Top Soil is being utilised for plantation and rest is found dumped in Top Soil dump at earmarked place. Sub grade ore is stacked suatematically with proper protective measures of retaining wall and Garland drain

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Solid Waste Management - Backfilling:

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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.	There is no proposal for complete esxtraction of ore fully	A present, two no. of pits are opened for quality purpose and have not been reached their ultimate depth. Hence there is no possibility of backfilling/ Reclamation.
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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).	Should be submitted to RCOM before 1st July.	Submitted	
6c	afforestation done (ha).	1.43 with 1730 sapplings	1.57 with 2615 sapplings	
6d	No. of saplings planted during the year	1730 sapplings	2615	
6e	Cumulative no .of plants		15115	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring in respect of Ambient air quality, Noise, water quality etc. needs to be carried out.	Regular monitoring is being carried out and reports are maintaine in the mine.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Yearly report in respect of PMCP has been submitted, Regular monitoring in respect of AAQ, Noise, Water etc. is being carried out. Top soil generated is being used for plantation within and outside lease area. No area is maturated for reclamation.	

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	23,02,965 MT, Entire ROM to be produced to be dispatched, there is no sorting within lease area	12,95,200 MT of limestone was dispatched to cement plant during the year 2018-19.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method	Mechanised method
7d	Any beneficiation process at mines .	Crusher plant is situated outside lease area	Crusher plant is situated outside lease area
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		There is generation of sub grade ore (Limestone boulder admixed with nonseperable soil) is observed and sub grade ore already generated is being utilised for blending with high grade ore.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil occurrence is range from 0.3m to 1.0m, which needs to be scrap and stack it seperately for future use on Southern side of the lease area.	Top soil generated is being utilised for plantation all along haul road and some portion of safety zone area within lease area as well as outside lease area in colony.	
8b	Concurrent use or storage of topsoil	Use for plantation as well as to Stack it seperately for future use.	Top soil is being used for plantation purpose within and outside lease area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes Low grade ore and sub grade stack to be stacked seperately	Low grade ore generated found stacked seperately	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Additional plantation proposed during the year 2016-17 was 1730	The lease area is of rocky in nature and plantation was scanty. Additional plantation proposed during the year 2018-19 was 2615
8g	Survival rate	No proposal	97%
8h	Water sprinkling on roads to control airborne dust	Mitigative measures to be taken to reduce impact on Air due to Mining activity	Water sprinkling is being carried out by one water tanker for suppression of dust on haul road and working area to control the airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Topsoil generated is being utilised for plantation purpose, this has to be judiciously used for plantation and rest needs to be stacked for future use. Regular monitoring of AAQ, Noise, Water etc. is being carried out by third party and reports of the same are found maintained in the mines. Plantation is being carried out within and out side lease area to improve aesthetic beauty.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR of preceding month before 10th of successive month and AR of preceding year before 1st July of successive year needs to be submitted to RCOM, Hyderabad.	Yes. MR and AR are being submitted regularly by online and upto date.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri M Suresh Geologist : Shri K Rambabu Manager : Shri J Naveen Kumar reddy	All the persons are employed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by opencast (O/C) mining-35.5 , (ii) Covered under current (O/C) Workings 6.5, (v) Occupied by plant, buildings, residential, welfare buildings & roads 3.3, (vi) Other Purpose (0): 2.55 (vii) Work done under progressive mine closure plan during the year: 6.5	(i) Already exploited & abandoned by opencast (O/C) mining-35.5 , (ii) Covered under current (O/C) Workings 6.5, (v) Occupied by plant, buildings, residential, welfare buildings & roads 3.3, (vi) Other Purpose (0): 2.55 (vii) Work done under progressive mine closure plan during the year: 6.5
9d	Scrutiny of Annual return on afforestation	2615	2615
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	0	0
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 191.10 per MT for Ex-Mine price as well as Cost of production.	Rs. 191.10 per MT for Ex-Mine price as well as Cost of production.
9h	Scrutiny of Annual return on fixed assets	5121458	As reported by lessee
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) (3.300 CUM) -2 no., DUMPER (35.00 TONNE)-7 nos., DUMPER (40TONNE)-2 (35.00 TONNE)-7 nos., DUMPER (40TONNE)-2 No., BLAST HOST DRILL (150 MM)- 1,DOZER (410.000 HP)-1 no. WATER TANKER (12000 LITRE)-1 no.	SHOVEL (HYDRAULIC) (3.300 CUM) -2 no., DUMPER (35.00 TONNE)-7 nos., DUMPER (40TONNE)-2 No., BLAST HOST DRILL (150 MM)- 1,DOZER (410.000 HP)-1 no. WATER TANKER (12000 LITRE)-1 no.

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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 :**

**(SHRI IBRAHIM SARIF)**

Indian Bureau of Mines