

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLG/LST-26/HYD

Mine code : 38APR14036

- (i) Name of the Inspecting : **M017**) **MANISH K MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : shri Ramachandra Mines Manager
Official with
Designation
- (iv) Date of Inspection : 19/02/2020
- (v) Prev.inspection date : 08/02/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHANAKYA CEMENTS**
- (b) **Registration NO.** : **IBM/1099/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : **TELANGANA**
- District : **NALGONDA**
- Village : **GANESHPAHAD**
- Taluka : **DAMARCHERLA**
- Post office : **WADAPALLY**
- Pin Code : **508355**
- FAX No. : **09848079847**
- E-mail : **ganeshpahad@pennacement.com**
- Phone : **914023353945,23353950,98480**
- (f) Police Station : **WADAPALLY**
- (g) First opening date : **21/01/2002**
- (h) Weekly day of rest : **SUN**
2. Address for : **GANESHPAHAD VILLAGE**
correspondance : **WADAPALLY POST,DAMARACHERLA MANDAL,**
NALGONDA DISTRICT
3. (a) Lease Number : **APR1098**
- (b) Lease area : **354.23**
- (c) Period of lease : **20**
- (d) Date of Expiry : **20/12/2021**
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
 M/s Penna Cement Industries
 Limited Lakshmi Nivas, Plot
 No. 705 Road
 No.3,Srinikethan Colony
 HYDERABAD TELANGANA
 Phone:
 FAX :

Agent : Sri V Gurumurthy
 M/S Penna Cements Limited
 Ganesh Pahad village
 NALGONDA TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : V. Lakshman Rao,Full Time
 Qualification : BTech Mining
 Appointment/ : 25/12/2015
 Termination date

Geologist

Name : D.SAMBIAH,Full Time
 Qualification : M.SC(GEOLOGY)
 Appointment/ : 25/07/2003
 Termination date

Manager

Name : M. Ramchander
 Qualification : B Tech Mining
 Appointment/ : 11/08/2016
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20/11/2001
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	09/04/2007
	:	Mining Scheme rule 12 MCDR1988	15/10/2012
	:	MP review under 17(1) MCR 2016	24/06/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2018-19=Nil	2018-19=Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil in 2018-19	Nil in 2018-19	Entire lease area is covered under G1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Entire lease area is covered under G1 level of exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Exploration completed over the entire area
1e	Balance reserve as on 01/04/20	Reserves as on 1.04.2017= 111/121/122-63.713mT	Depletion 2017-18= 1.221 mT 2018-19=1.497mT Balance Reserves as on 1.04.2019= 111/121/122-60.995mT	
1f	General remarks of inspecting officers on geology, exploration etc		The geological sections have not been updated as per the boreholes drilled in the year 2017-18 and total mineral resource need to be reassessed.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Mining has been proposed in the year 2018-19 in the NW part of pit-2	Broadly in the area proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	Lease area is largely devoid of overburden.	
2c	Stripping ratio or ore to OB ratio	2018-19= 1T:0.01cu m	2018-19= 1T:0.01cu m	

2d	Quantity of topsoil generation in m3	2018-19=5360 cu.m 2019-20=5360 cu.m	2018-19=4415 cu.m 2019-20=2668 cu.m till Jan 2020.	
2e	Quantity of overburden generation in m3	2018-19=10,723 cu.m 2019-20=10835 cu.m	2018-19=12,282 cu.m. 2019-20=8310 cu.m.	(Interstitial soil/ clay generated during the mining operation)

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Mining has been proposed in pit no-2	Carried out broadly as per proposal from pit 2 only.	However there are 2 pits separated by a cart track and production is obtained from pit-2 which is the main pit.
3b	Quantity of ROM mineral production proposed	2018-19=13,14,255 T 2019-20=13,27,222T	2018-19= 14,74,201 T 2019-20=1036690 T	production in 2018-19 is about 12.17% mpore than the proposal, which is within the permissible limit.
3c	Recovery of sailable/usable mineral from ROM production	Entire mineral was proposed to be utilized after segregation of interstitial waste.	Being done accordingly. In the year 2018-19 1474201MT of Limestone and 12282 cum of interstitial waste was generated. No OB or mineral reject generation has been reported.	
3d	Quantity of mineral reject generation	Nil assessed	Nil generated	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	Nil assessed	Nil generated	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	Only interstitial waste is proposed to be segregated from limestone unit	Only interstitial waste is segregated from limestone unit	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not done	
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting is carried out	Drilling is carried by 115 mm dia drill and blasting is conducted by using nonel electric detonators in combination with slurry and ANFO	Burden of 3.5m and spacing of 6m is being maintained in the first bench and in subsequent benches 3mx6m is being practiced on bench height of about 8m.
3k	Provision of mining machineries in mineral benches	Provided	3.1 cu m backhoe type shovel (2 Nos.)is being used along with dumpers of 35T capacity (5 nos). For road maintenance dozer of 450hp power is available. And sprinkler of 15KL capacity is available for dust suppression.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 8m is proposed.	8.0 m high benches are suitable for the m/c of 10.5 m boom height .	
3m	Total area covered under excavation/pits	68.52 hectare is proposed under pit till 19/12/2021	58.64 ha is reported under pit till 31/3/2019.	
3n	Ore to OB ratio for the pit/mine during the year.	2018-19= 1T:0.01cu m	2018-19= 1T:0.01cu m	
3o	Total area put in use under different heads at the end of year	68.52 hectare is proposed under pit till 19/12/2021	Total area put to use for waste disposal, infrastructure/ road and other purposes is not found to be correct.	

3p	Production of ROM mineral during the last five year period as applicable	2014-15= 1.49mT 2015-16= 1.5mT 2016-17=1.49mT 2017-18=1.33mT 2018-19=1.31mT	2014-15= 0.8mT 2015-16=0.982mT 2016-17= 1.195mT 2017-18=1.244m.T 2018-19=1.49mT
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3q	General remarks of inspecting officers on method of mining etc.	The substantial quantity of oversized boulders are being kept in the mine beside the waste dump which needs to be consumed. Hence adequate arrangement be done to ensure the utilisation of the mineral.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Concurrent utilization of top soil was proposed	Being done accordingly	
4b	Location of topsoil, OB and mineral reject dumps	Top soil has been proposed to be used concurrently. Interstitial waste is to be dumped within the exhaust part of the pit temporarily.	Being done accordingly. However no overburden is reportedly generated in 2018-19.	
4c	Number of dumps within lease area and outside of lease area	There is one main dump within pit where the interstitial clay has been proposed to be dumped in 2018-19.	There is one main dump within pit where the interstitial clay has been dumped in 2018-19.	However there are a lot of scattered dumps in the lease area, which have been reported to be created during the laying of railways tracks in the lease area.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumping of the mineral was proposed in the pit bottom	Main dump is reported on the exhausted mineral portion within the pit.	However there are a lot of scattered dumps in the lease area, which have been reported to be created during the laying of railways tracks in the lease area.
4e	Number of active and alive dumps.	ONLY One proposed in the pit.	Only one active dump is there	However there are a lot of scattered idle dumps in the lease area, which have been reported to be created during the laying of railways tracks in the lease area.
4f	Number of dead dumps.	Nil	Nil	The dumps are all not being used and is lying as it is.
4g	Number of dumps established.	Nil	No dump has been stabilised	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	retaining bund is there along the dump	
4i	Length of Retaining wall or garland drain all along dumps		About 100m of toe bund is there along the main dump in the pit.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		The scattered dumps which are reported to be created while laying of rail passing through the lease has some mineral. This material may be used after segregation and the waste material may be used for plantation along the lease boundary. The lessee has been advised accordingly.	

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 for reclamation in 2018-19.	The mining is carried out above the pink limestone.	The lessee has been advised to keep the record of floor samples.
5b	Area under backfilling of mined out area	-	Meagre part of lease area has been reported to be backfilled sometime in the past .	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil proposed to be used for plantation	Topsoil utilized for plantation	
5d	Total area fully reclaimed and rehabilitated	Nil	It has been reported that the waste generated during the earlier period was utilised for backfilling some part of the area between pit-1 and pit-2.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The complete backfilling of the pit is not possible. It may be converted into water reservoir with plantation on the top benches.	

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).	-	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal for rehab. of worked out benches in 18-19	Not done	
6c	afforestation done (ha).	No proposal for rehab. of worked out benches in 18-19	Not done	

6d	No. of saplings planted during the year	No proposal for rehab. of worked out benches in 18-19	Not done
6e	Cumulative no .of plants	No proposal for rehab. of worked out benches in 18-19	Nil
6f	Any other method of rehabilitation	-	-
6g	Cost incurred on watch and care during the year	-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal for rehab. By backfilling	Not done
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for rehab. By backfilling	Not done
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal for rehab. By backfilling	Not done
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal for rehab. By backfilling	Not done
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal for rehab. By backfilling	the pit is proposed to be converted to water reservoir at the end of the deposit as it is not having enough waste for backfilling.

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1250 samplings and area about 0.60 ha	1545 samplings and area about 0.79 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2018-19= 1250 saplings over an area of about 0.60 ha	2018-19= 1545 saplings planted over an area about 0.79 ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	No proposal for rehab. By backfilling	Being monitored regularly.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	No grade wise limestone sorting is undertaken.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not Applicable	
7c	Different grade of mineral sorted out at mines.	No proposal	Not Applicable	

7d	Any beneficiation process at mines .	No proposal	Mineral processing is not done in the lease . Only sizing is done at th crusher located at the boundary of the lease , outside the lease area.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Generated and utilized	Used for green belt development
8b	Concurrent use or storage of topsoil	Topsoil proposed to be used for plantation	Topsoil being used for plantation	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal in 2018-19	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in 2018-19	Not done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1250 samplings and area about 0.60 ha in 2018-19	1545 samplings and area about 0.79 ha in 2018-19 In 2019-20, 1665 saplings have been planted over 0.65 ha. Area so far.	
8g	Survival rate	80%	75%	

8h	Water sprinkling on roads to control airborne dust	Proposed	Sprinklers provided on haul roads
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The land degraded by mining cannot be restored, it can now only be used for water reservoir. But the presence of dumps/ stacks created during the rail laying is spoiling the general ambience. Lessee has been advised to do the needful for ensuring the utilisation of mineral.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R.Submitted upto jan-2019 A.R.Submitted upto 2018-19	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Submitted as reported in the returns. Mining Engineer- Sh V Lakshman Rao Geologist- Sh D Sambaiah	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	details submitted in the returns	The scattered dumps (reportedly done by railways) during the railway track laying are not submitted in the returns. Remaining submissions are broadly as per submission.	
9d	Scrutiny of Annual return on afforestation	1545 saplings with 70% survival in 2018-19 within ML. 2299 saplings were planted outside ML.	Broadly as per proposal.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil reported	As per submission	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Prod- 1474201 reported	As per submission, closing balance as on 31/3 was reported as zero.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	CoP reported as 156.26 Rs PMT.	
9h	Scrutiny of Annual return on fixed assets	Submitted	Submitted information is reported to be of mines only.
9k	Scrutiny of Annual return on mining machineries	Submitted	As per submission.

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 :

(MANISH K MAINDIRATTA)

Indian Bureau of Mines