

Indian Bureau of Mines
Minerals Development and Regulation Division
MCDR Inspection Report
Hyderabad Regional Office.

Mine File No: MCDR-MiFL0LST/4/2023-HYD

Mine Code: 38APR02054

1) Name of Inspecting officer:	Shri. M.K. Kalmata
2) Designation	Regional Mining Geologist
3) Accompanying mine official with designation	Mr. J.Navvenkumar Reddy, Mines Manager, Y sreedhar , Geologist
4) Date of Inspection	13.12.2023

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Gudipadu (auction block) Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	40.816Ha (Non-forest)
3	Mine code	38APR02054
4	IBM Registration Number under rule 45 of	IBM/1099/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Penna Industries Pvt.Ltd., Lakshmi Nivas 705, Road No.3, Banjara hills, Hyderabad, Telangana State-500034.
6	Village	Gudipadu.
7	Taluka/Mandal	Yadiki
8	District	Anantapur
9	Pin code	515408
10	State	Andhra Pradesh
11	Post office	Yadiki
12	Nearest police station	Yadiki
13	Nearest Railway station	Tadipatri and Rayala Cheruvu
14	Date of Grant of Mining Lease	07-07-2021
15	Date of Execution	23-07-2021
16	Period	50 years, 22-07-2071

17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name: D. Lakshmikanthan, Flat No.1003, E-block, DSR fortunerime apartments, Durgamcheruvu road, Madapur, Hyderabad Phone:08558285150 Email : brp.mines@pennacement.com
18	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Harinath Reddy, M/s Penna Cement Industries Ltd.,Boyareddy palli, Yadaki(M), Anantapur-Dist. D.O.A:-25-05-2023. Mob-+91-7660013042 Email : b.gurivireddy@myhomeindustries.in
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Shri J Naveenkumar Reddy, M/s Penna Cement Industries Ltd.,Boyareddy palli, Yadaki(M), Anantapur-Dist Mob-+91-9154107068 Email : gpkreddy@myhomeindustries.in
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	Mining Engineer : E.Siva Abhilash Reddy Qualification : B.E.Mining D.O.A.: 01.10.2021 Geologist : Y.Sreedhar Qualification :- Msc, Geology. DOA : 01.10.2021
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	1. Approval of Mining Plan No : AP/ANP/MP/Lst-59/Hyd Dated : 07.08.2017 2. Approval of Modification of Mining Plan No : AP/ANP/MP/Lst-59/Hyd Dated : 01.10.2021 For the period 2021-22 to 2025-26
22	Name of the Mineral	Limestone
23	Method of Mining(Open cast, Underground)	Open cast
24	Category (Fully Mechanized, Others or Manual)	Category – A (Fully Mechanized)
25	Captive/Non Captive	Captive

PART-II**Exploration :**

Sl. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	None in the year 2022-23	Drilled 04 DTH holes to know the depth wise continuity of the ore body.	Entire Mineralized area is already explored under G-1 level.
1b	Exploration over lease area for geological axis 1 or 2	None in the year 2022-23	None in the year 2022-23.	Entire Mineralized area is already explored under G-1 level. However, 04 DTH holes were drilled in the year 2022-23 to know the depth continuity of the ore body.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None.	By lessee and expenditure incurred on exploration carried out in the year 2022-23 is Rs- 18900.	So far total expenditure made on exploration is Rs- 1095506.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None in the year 2022-23	None in the year 2022-23.	About 40Ha was converted to G-1 ;level from G-2by drilling 17 boreholes in the year 2021-22 and 04 in the year 2022-23, Now entire mineralized area is explored under G-1 level.

1e	Balance reserves as on 01/04/2017	As per the approved document dated 25.10.2021, Reserves/resources as on 01.10.2021 are as follows. (In million tonnes) Probable Mineral Reserves(122)- 20.642 , Pre-feasibility Mineral Resources (222)- 6.014 Total:- 26.656	Reserves/resources as on 01.04.2023 are as follows. In million tonnes) Probable Mineral Reserves(111)- 22.521 , Pre-feasibility Mineral Resources (221)- 3.924 Total:- 26.445	Reserves/resources were updated based on the exploration carried out in the present plan period.
1f	General remarks of inspecting officers on geology, exploration etc.		The lease area is a part of Cuddapah basin. The strike of the formation is WNW to ESE and dip 3 to 6 degree towards North/NE. The grade of the limestone varies from 34% Cao to Max 48% Cao. The entire mineralized area is explored under G-1 level by drilling 29 exploratory boreholes.	
Development :				
Sl.No.	Item	Proposals	Actual Work	Remarks

2a	Location of development w.r.t. lease area	In the year 2022-23, there was a proposal to work between the co-ordinates N1673380 to N 1673590 and E 818800 to E 819050 (as per plate No 5B).	Actual working is carried out between the co-ordinates N 1673500 to 1673610 and E818800 to E 818890 (As per updated surface plan date 31.03.2023).	The working has been not carried out as per the proposal and violation is pointed out for the same under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	No separate benches were proposed for topsoil, OB or Mineral reject in the year 2022-23.	Benches were made in ore only.	Topsoil was removed by scraping, so no benches were formed.
2c	Stripping ratio of ore to OB ratio	1:0	1:0	No OB handling was proposed and made in the year 2022-23.
2d	Quantity of topsoil generation in m ³	4550	4200	
2e	Quantity of overburden generation in m ³	None.	None	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		The type of the deposit is bedded and formation is hard in nature, the pit dimensions maintained were suitable to the nature of deposit. However, due to less production the working was not	

			carried out as per the proposal and violation is pointed out for the same under Rule 11(1) of MCDR 2017.	
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Exploitation :

Sl.N o.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	500400 tonnes in the year 2022-23	317000 tonnes in the year 2022-23.	Due to market fluctuations for cement and lack of demand, only 63.35% production is achieved in the year 2022-23.
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	None in the year 2022-23	None in the year 2022-23	Entire ROM was dispatched to captive plant under cement grade.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of	None in the year	None in the year 2022-	

	subgrade mineral generation.	2022-23	23	
3g	Grade of subgrade mineral generation.	Not applicable.	Not applicable.	
3h	Manual / Mechanized method adopted for segregating from ROM	None.	None.	
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	None.	None	
3j	Provision of drilling and blasting in mineral benches	Yes, proposed.	Lessee is doing drilling and blasting as per the proposal.	Using drilling machine of 150mm capacity for drilling blast holes and slurry explosive for blasting.
3k	Provision of mining machineries in mineral benches	Yes proposed combination of Excavators and dumpers.	Using Excavator of 3.1 CUM capacity and dumpers of 60 tonnes capacity in the mineral benches.	Additionally, lessee is using 150mm machine for drilling and dozer for haul road repair work.
3l	Whether height of benches in overburden and mineral suitable for	Proposed 10 mtrs bench height.	Bench height is maintained 8 to 9.00 mtrs (Average)	

	method of mining proposed in MP/SOM			
3m	Total area covered under excavation / pits	Area under Mining- 21.36 Ha, in the present plan period up to 31.03.2026.	Area under mining:- 1.94Ha, up to 31.03.2023.	Due to market fluctuations for cement and lack of demand, production is not carried out as per the proposal, so the area under mining is less compare to proposal. Further, from 01.4.2023 onwards, lessee has removed topsoil around the existing pit area covering an area of .8Ha in the Northern side of the pit and .9Ha in the eastern side of the pit.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	Recovery is 100% and no OB is removed in the year 2022-23.
3o	Total area put in use under different heads at the end of year	Area under Mining- 21.36 Ha, Green belt-1.36Ha in the present plan period	Area under mining:- 1.94Ha, Green belt:- 0.83Ha up to 31.03.2023.	Further, from 01.4.2023 onwards, lessee has removed topsoil around the

		up to 31.03.2026.		existing pit area covering an area of .8Ha in the Northern side of the pit and .9Ha in the eastern side of the pit.
3p	Production of ROM mineral during the last five year period as applicable	2022-23-500400 2021-22-500040	2022-23- 317000 tonnes 2021-22-365000 tonnes	The lease was executed on 23.07.2021 only and two years completed.
3q	General remarks of inspecting officers on method of mining etc.		The mine is working by opencast mechanized method. Lessee doing deep hole drilling and blasting for loosening the strata and using combination of excavators and dumpers for production and development.	
Solid Waste Management - Dumping :				
Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	No dumps were proposed in the year 2022-23.	None.	The topsoil removed is utilized for making bunds in the 7.5 mtr safety zone and plantation was made on the bund

				made using topsoil.
4b	Location of topsoil, OB and mineral reject dumps	None.	None.	
4c	Number of dumps within lease area and outside of lease area	None.	None	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None.	None	
4e	Number of active and alive dumps.	None.	None	
4f	Number of dead dumps.	None.	None	
4g	Number of dumps established.	None.	None	
4h	Whether retaining wall or garland drains all along dumps are there.	Retaining wall and garland drains were proposed	None in the year 2022-23.	Violation is pointed out for the same under Rule 11(1) of MCDR 2017.
4i	Length of retaining wall or garland drain all	660m retaining wall and 150 mtr garland drain.	None in the year 2022-23.	Violation is pointed out for the same under Rule 11(1) of

	along dumps.			MCDR 2017.
4j	Number of settling ponds	None.	None.	
4k	Specific comments of inspecting officers on waste dump management .		No dumping was proposed in the present plan period. The topsoil removed is utilized for making bund in the 7.5mtr safety zone. Proposal was for construction of 660mtr retaining wall and 150 mtr garland drain. However, the said retaining wall and garland drains were not made so violation is pointed out for the same under Rule 11(1) of MCDR 2017.	

Solid Waste Management - Backfilling :

Sl.N o.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Not proposed.	Nil	No backfilling is proposed in the present plan period.
5b	Area under backfilling of mined out area	Not proposed.	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed.	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Present working is not reached up to the proved depth and no proposals were made for reclamation and rehabilitation in the present plan period.	

Progressive Mine Closure Plan :

Sl.N o.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26(2)	Before 1st July of every year.	Submitted yearly report on PMCP within the prescribed time limit.	PMCP report submitted on 29.06.2023 along with the Annual returns submitted for the year 2022-23.
6b	Area available for rehabilitation (ha)	None.	None	
6c	Afforestation done (ha)	0.299Ha	0.483Ha.	Plantation is made more than the

				proposal.
6d	No. of saplings planted during the year	400	780	Plantation is made more than the proposal.
6e	Cumulative no. of plants	600 saplings in the present plan period.	1140 saplings.	Plantation is made more than the proposal.
6f	Any other method of rehabilitation	None.	None	
6g	Cost incurred on watch and care during the year			
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (LxBxD)	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	

6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (ii) Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, Air, Water and Noise monitoring was proposed in Core and Buffer zone.	Environmental monitoring in the core and buffer zone is carried out as per the proposal and results are within permissible limits.	Environmental monitoring is carried out by B.S. Envi-Tech (P) Ltd, Secunderabad.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Against the proposal of 400 lessee has planted 780 saplings in the year 2022-23. Plantation was made more than the proposal. Environmental monitoring is carried out as per the proposal and results are within the permissible limits.	However, fencing and retaining wall were not made as per the proposals mentioned in the PMCP chapter, So, violation is pointed out for the same under Rule 11(1) of MCDR 2017.

Mineral Conservation:-				
Sl.N o.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or gradewise sorting within lease area	Proposed dispatch of Cement grade ROM to Captive Cement Plant.	Lessee is dispatching Cement grade ROM to Captive plant as proposed.	Lessee is not doing any processing at mine site.
7b	Method of gradewise mineral sorting i.e. manual or mechanical	None.	None.	Sending ROM to Captive Cement plant without any processing.
7c	Different grade of mineral sorted out at mines	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines	None.	None.	
7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.		Lessee is not doing any mineral processing at the mine site. Dispatching ROM (Cement grade) to Captive Cement plant linked with the mine.	
Environment:-				
Sl.No .	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil	Yes, proposed.	Removed about 4200 Cum of topsoil separately in the year 2022-23.	

	(Rule 32)			
8b	Concurrent use or storage of topsoil	Concurrent use.	Used topsoil generated in the year 2022-23 for plantation work.	
8c	Separate dumps for overburden , waste rock, rejects and fines (Rule 33)	None	None.	No OB/waste rock and Mineral reject was generated in the year 2022-23.
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	None.	None.	
8e	Phased restoration, reclamation and rehabilitation of land affected by mining operations (pits, dumps etc.)	None.	None.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents.	Additionally lessee has planted about 1140 sapling so far within the lease area.	
8g	Survival rate	95%	90 to 95%	Lessee is well maintaining plantation by regular monitoring by engaging manpower.
8h	Water sprinkling on roads to control airborne dust	Yes, proposed.	Regularly spraying water on the working benches, Haul road etc.	One water tanker of 12,000 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		Benches were made systematically. The topsoil removed was utilized for making bunds in the safety zone and plantation was made on the safety bund.	

Compliance of Rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
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9a	Status of submission of monthly and annual returns	A monthly return shall be submitted before the tenth day of every month in respect of the preceding month and an annual return shall be submitted before the 1st day of July each year for the preceding financial year.	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2022-23 on 29-06-2023.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the Annual returns submitted for the year 2022-23 details of Mining Engineer and Geologist furnished are as follows. Mining Engineer:- E. Siva Abhilash Reddy, Geologist:- Y Sreedhar and Mines Manager:- J Navven Kumar Reddy.	The details of mining Engineer and Geologist furnished in the Annual returns submitted for the year 2022-23 is found correct.	Lessee has submitted notice of appointments to this office.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining- 1.94Ha, Green belt- 0.873Ha.	The details furnished in the annual returns is found correct.	Further, from 01.4.2023 onwards, lessee has removed topsoil around the existing pit area covering an area of .8Ha in the Northern side of

				the pit and .9Ha in the eastern side of the pit.
9d	Scrutiny of Annual return on afforestation	780 saplings with survival rate of 96%.	The information furnished is verified and found correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None.	No mineral reject is generated in the year 2022-23.	Entire ROM was dispatched to captive plant under cement grade.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM:- Opening and closing stock: 0, Production:- 317000 tonnes. Grade wise details: Cement Grade: Opening and closing stock-0, production and dispatch-317000 tonnes.	The details furnished in the annual returns is found correct.	
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Exmine price and cost of production:-Rs- 183.34/ton. And sale value is zero.	The details furnished in the annual returns is found correct.	
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets is shown as Rs 670874420	The information furnished in the AR appears to be found correct.	

9k	Scrutiny of Annual return on mining machineries	Shovel of 3.3CUM capacity: 02 nos, Dumpers of 60 tons capacity:-06 number, One dozer, one drilling machine.	The details furnished in the annual returns is found correct.	
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Date:-

(KALMATA.M.K)

Indian Bureau of Mines