

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

Mine File MCDR- AP/KNL/LST-158A/HYD.

Mine Code: 38 APR 11094

1) Name of Inspecting officer:	Sri. Varaprasada Rao Laveti
2) Designation	Junior Mining Geologist
3) Accompanying mine official with designation	K. Ramakrishna Reddy, Mines Manager
4) Date of Inspection	09/01/2025
5) Date of Previous Inspection	19/10/2023

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Amalgamated korumanipalli Limestone Mine
2	Total Lease Area (Ha) with breakup of non-forest and forest land	254.856 Ha
3	Mine code	38 APR 11094
4	IBM Registration Number under rule 45 of	IBM/1099/2011
5	Name of the lessee, Address, phone, email and fax number	Penna Cement Industries Ltd., Plot No.705, Road No.3, Banjara Hills, Hyderabad - TS
6	Village	Talaricheruvu
7	Taluka/Mandal	Tadipatri
8	District	Anantapuramu
9	Pin code	515415
10	State	Andhra Pradesh
11	Post office	Tadipatri
12	Nearest police station	Tadipatri
13	Nearest Railway station	Tadipatri
14	Date of Grant of Amalgamated Mining Lease	16.03.2021
15	Date of Execution	24.03.2021
16	Period	

17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri. Sukuru Ramarao Penna Cement Ind.Ltd Adani Corporate House Shantigram, S.G. Highway Khodiyar, Ahmedabad – 382421 Gujarat, India
18	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri P. Venkatakrishnaiah yadav, Penna cement Industries Ltd., Penna Nagar, Urichintal Post, Tadpatri-Mandal, Anantapuramu-District. -515415. Ph. No.- 9440906826 Fax: 08558-286044 Email- tlc.mines.genral@adani.com
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Sri K. Ramakrishna Reddy, Penna cement Industries Ltd' Penna Nagar, Urichintala Post, Tadipatri (Mandal), Anantapuram (Dt), 515415 Ph. No: +919492131960 Fax: 08558-286044 Email- Kandula.Reddy2@adani.com
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	S. MallikarjunaReddy B. Tech (Mining) 7.0 Years Penna cement Industries Ltd' Penna Nagar, Urichintala Post, Tadipatri (Mandal), Anantapuram (Dt), 515415 R.Gopinath M.S.C (Applied Geology) 17 years Penna cement Industries Ltd' Penna Nagar, Urichintala Post, Tadipatri (Mandal), Anantapuram (Dt), 515415 Email:gopinath.rengasamy@adani.com
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining Plan for Amalgamated korumanipalli Limestone Mine- 08.06.2021
22	Name of the Mineral	Limestone
23	Method of Mining (Opencast, Underground)	Open cast
24	Category (Fully Mechanized, Others or Manual)	A Category, Fully Mechanized
25	Captive/ non-captive	Captive

PART-II**Exploration:**

Sl.N o.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	49.18 Ha	49.18 Ha	Total lease has been explored into G1 Category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-do-
1e	Balance reserves as on 01/04/2024	Reserves as per Geological study and Pre-feasibility report submitted on 26.07.2022 Proved Mineral Reserve (111): 81.748 million Tonnes	Reserves as on 01/04/2024: Mineral Reserves (111): 78.269 million Tonnes	CaO:30.13 to 37.73% and SiO2: 8.25-16.57%
1f	General remarks of inspecting officers on geology, exploration etc.	The deposit belongs to the Kurnool sub basin of Late Proterozoic sediments. The grade of the limestone is cement grade. The mode of occurrence of Limestone in the subject area is akin to Stratiform, Strata bound and Tabular Deposits of Regular order of United Nations Framework Classification		

Development:				
Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	Proposed pit development: N 1658375 to N1658460 and E188569 to E189368	Actual development: N 1658237.70 to N1658402.80 and E188526.50 to E189154.50	During the first two years of the mining plan block period (2021–2022 and 2022–2023), the lessee achieved an average of approximately 30% of the proposed production due to the market fluctuations. Accordingly, during the year 2023–2024, mining operations were carried out within the areas proposed for the first two years only, which also fall within the overall proposed area of the five-year plan period. Therefore, no violation is pointed out for the same.
2a	Separate benches in topsoil, overburden and minerals (Rule-15)	Yes, Benches were proposed within the mineral only	Yes, Benches were made in mineral only	
2c	Stripping ratio of ore to OB ratio	1:0.000	1:0.03	
2d	Quantity of topsoil generation in m ³	Not proposed	500 cu.m. of top soil were removed during the year	
2e	Quantity of	13624 M3	3500 M3	Yellow clay and

	overburden generation in m ³			intercalated clay were generated and subsequently utilized for backfilling purposes
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	The bench parameters were maintained as per the proposal, and the pit was extended in all direction but During the first two years of the mining plan block period (2021–2022 and 2022–2023), the lessee achieved an average of approximately 30% of the proposed production due to the market fluctuations. Accordingly, during the year 2023–2024, mining operations were carried out within the areas proposed for the first two years only, which also fall within the overall proposed area of the five-year plan period. Therefore, no violation is pointed out for the same		
Exploitation:				
Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1 pit	1 pit	
3b	Quantity of ROM mineral production proposed	17,10,357 tonnes	4,08,000tonnes	In the year 2023–24, 24% of the proposed production was achieved. The deviation in production was due to suboptimal plant operations, primarily resulting from reduced demand in the cement market.
3c	Recovery of saleable / usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	Not proposed	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of subgrade mineral generation.	Not proposed	Nil	
3g	Grade of subgrade mineral generation.	NA	NA	
3h	Manual / Mechanized method adopted for segregating from ROM	Not proposed	NA	
3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	Not proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	Yes, Deep hole Blasting	Yes, Drilling and blasting are being carried out as per the proposal.	Revathi C60H 150 mm dia Blasting is done by using non-electric detonators in combination with slurry and ANFO
3k	Provision of mining machineries in mineral benches	Yes, the proposed combination of hydraulic excavators and Tippers are intended for development	As per proposal	
3l	Whether height of benches in overburden	Limestone-9.0 mtrs	Limestone-8.0 mtrs (average)	Benches are

	and mineral suitable for method of mining proposed in MP/SOM			maintained within proposed heights
3m	Total area covered under excavation / pits	The area proposed for mining during the current plan period up to the year 2023–24 is 18.45 hectares	The actual excavation carried out during the current plan period up to the year 2023-24 is 4.719 hectares	Total area covered under pits up to 2023-24 is 55.069 hectares
3n	Ore to OB ratio for the pit/mine during the year.	1:0.000	1:0.03	
3o	Total area put in use under different heads at the end of year	Total area put in use under different heads at the end of the Plan period Area under Mining: 74.53 Ha. Infrastructure (Roads): 2.77 Ha. Green belt:17.43 Ha.	Total area put in use under different heads at the end of the year 2023-24: Area under Mining: 55.069 Ha. Infrastructure (Roads): 2.77 Ha. Green belt:18.43 Ha.	An additional area of 4.16 hectares was used for the development of the green belt, garland drain, and construction retaining bund.
3p	Production of ROM mineral during the last five-year period as applicable	1)2019-20: 2012687 Tonnes. 2)2020-21: 1975060 Tonnes. 3)2021-22: 1736585 Tonnes. 4)2022-23: 1665282.5 Tonnes. 5)2023-24:1710357 Tonnes.	1)2019-20: 4,49,830 Tonnes. 2)2020-21: 4,72,070 Tonnes. 3)2021-22: 775500 Tonnes. 4)2022-23: 296500 Tonnes. 5)2023-24: 408000 Tonnes.	In the year 2023–24, production is less than the proposed quantity. Due to lack of demand production is achieved less than the proposal. Therefore no violation has been noted in this regard

3q	General remarks of inspecting officers on method of mining etc.	The mining method adopted is fully mechanized, utilizing heavy earth-moving machinery. The bench heights are being maintained within the proposed limit.
----	---	--

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	No dumping was proposed in the year 2023-24	Nil	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Nil	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Nil	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether retaining wall		Nil	

	or garland drains all along dumps are there.	Not proposed		
4i	Length of retaining wall or garland drain all along dumps.	Not proposed	Nil	The retaining wall and garland drains were constructed along the backfilled area.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officers on waste dump management.	No waste dump was proposed in the present plan period. The waste generated during the present plan period was utilized for backfilling as per the proposal.		
Solid Waste Management - Backfilling:				
Sl.No.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Proposed backfilling in the quartzite exposed area.	Backfilling is made in the quartzite exposed area after full extraction of ore.	
5b	Area under backfilling of mined out area	1910 sq.mtr. in the year 2023-2024	1270 sq.mtr. of area has been backfilled during the year 2023-2024	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Since the production and development is achieved less. The backfilling was not carried out as per the proposal.
----	--	---

Progressive Mine Closure Plan:

Sl. No.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26(2)	Before 1 st July of every year.	Lessee has submitted PMCP report for the year 2023-24 on 10.06.2024	Submitted PMCP report for the year 2023-24 within time limit
6b	Area available for rehabilitation (ha)	Nil	Nil	No area is available for rehabilitation.
6c	Afforestation done (ha)	1.0 Ha. area proposed for Afforestation in the year 2023-24	1.3 Ha., in the year 2023-24	Existing area in the lease under the plantation at the end of financial year is 18.43 Ha.
6d	No. of saplings planted during the year	1500 nos. of saplings proposed in the year 2023-24	3519 saplings in the year 2023-24.	Plantation was made morethan the proposal.
6e	Cumulative no. of plants	7500 nos. of saplings were proposed in the present plan period up to 2023-24	3519 saplings in the year 2023.24.	Cumulative plantation made so far up to 01.04.2024 is 32107 saplings.

6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
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	Nil	Nil	

	(v) any other specific means.			
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)	Proposed monitoring of Quality of air by periodic monitoring.	The lessee has carried out quarterly environmental monitoring.	The lessee has carried out quarterly environmental monitoring, and all parameters have been found to be within the permissible limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	During the year 2023–24, 3519 saplings were planted along the 7.5-meter safety zone with an 75% survival rate, utilizing a total area of approximately 1.30 hectares for plantation, thereby bringing the cumulative number of plants in the lease area to 32107 by the end of the financial year		
Mineral Conservation:				
Sl.N o.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise	ROM dispatch in the form of Lumps.	Directly feeding to the crusher at cement plant	

	sorting within lease area			
7b	Method of grade wise mineral sorting i.e. manual or mechanical	No proposal	Nil	
7c	Different grade of mineral sorted out at mines	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.	Nil		

Environment:

Sl.No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, Top Soil	Yes, Top Soil	
8b	Concurrent use or storage of topsoil	For Plantation	The topsoil removed during the current plan period has been utilized for plantation within the lease area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Nil	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of land affected by mining operations (pits, dumps etc.)	Not proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed 1500nos. of saplings for the reporting year 2023-24	Cumulative plantation reported in AR is 32107 nos. and additional 13513 nos. of saplings were planted outside lease area.	As per Annual Returns of RY 2023-24
8g	Survival rate	75%	75%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling is carried out regularly on roads to control Airborne dust	12 KL water tanker used for Water sprinkling
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.	Benches and haulage roads were maintained systematically. One water tanker is deployed for sprinkling water in the working area and around the haulage roads.		
Compliance of Rule 45 :				

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and annual returns	Monthly returns shall be submitted before the 10th day of every month for the preceding month, and an annual return shall be submitted before the 1st day of July of each year for the preceding financial year	M.R. Submitted up to - December-2024 A.R. submitted for the F.Y:2023-24 on 08.06.2024	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per Annual Returns Sri S.Mallikarjuna Reddy, Mining Engineer, Shri. M. Ramesh Babu, Geologist Shri. K Ramakrishna Reddy, Mines Manager	The details of the Mining Engineer and Geologist submitted in the annual returns were verified and found to be correct.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining: 55.069 Ha. Infrastructure: 2.77 Ha. Plantation :18.43 Ha.	Area under Mining: 55.069 Ha. Infrastructure: 2.77 Ha. Plantation :18.43 Ha.	
9d	Scrutiny of Annual return on afforestation	3519 No's	3519 No's	
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	ROM, Opening stock: - Nil, Production: - 408000T and closing stock-NIL, Grade wise: Cement grade: - opening and closing stock: Nil Production and dispatch: -408000T	The details furnished in the annual return have been found to be correct	
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Sale value, Ex Mine price and cost of production - Rs: 187.88 /T.	The details furnished in the annual return have been found to be correct	The sale value is calculated by multiplying the quantity of dispatched material by the selling price during the reporting year
9h	Scrutiny of Annual return on fixed assets	Rs. 65100000	The details furnished in the Annual returns were found correct.	
9k	Scrutiny of Annual return on mining machineries	Shovel-3.1m3 (Hydraulic) – 1 Dumper 60T – 4, Explosive Van 5.17T-1, Rock Drill 150mm -1 Water Tanker 12 K-2 Dozer 340HP-1 Explosive Van-1	The information given on mining machineries is found correct	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule No.	Issued on	Compliance position	Rule No.	Issued on	Compliance position
Nil			Nil		

Date: - 01.05.2025

(Varaprasada Rao Laveti)
Junior Mining Geologist
Indian Bureau of Mines