



**WATER MANAGEMENT AUDIT  
REPORT FOR  
POORNIMA INSTITUTE OF  
ENGINEERING AND TECHNOLOGY**



**Elion Technologies & Consulting Private Limited**

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## Acknowledgment

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to Poornima Institute of Engineering and Technology for entrusting the task of conducting water management study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.



## Site Information

<b>Name of College</b>	Poornima Institute of Engineering and Technology
<b>College Address</b>	ISI - 2, Poornima Marg, Sitapura, Jaipur, Rajasthan, 302022
<b>Execution Partner</b>	ELION Technologies & Consulting Pvt Ltd
<b>Communication Address</b>	307, 3rd Floor DDA Lal Market H-Block Vikas Puri, New Delhi-110018
<b>Date of Audit</b>	6 <sup>th</sup> July 2023
<b>Year of Audit</b>	2023 – 2024
<b>Audit Participants</b>	Dr. Gautam Singh – Registrar & Chief Proctor Dr. Sama Jain – Professor & HOD First Year Mr. Ashwani Lata – Director (Student Welfare)
<b>Total Area of College</b>	96267.19 sq. ft.
<b>Total Built up Area of College</b>	3314 sq. ft.



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## Overview of Institute

Poornima Institute of Engineering and Technology, was established in 2007 with the aim of imparting pragmatic technical education. In its magnificent journey of 12 years, PIET has set benchmarks and reached at new pinnacles in Engineering Education with dedication, perseverance and devotion. PIET is spearheading its outstanding voyage with the motto 'Success is not a destination, it's a journey'.

### Vision

To create knowledge based society with scientific temper through cutting-edge technologies, innovative research and to become valuable resource for enriching mankind.

### Mission

- To provide an environment that will allow students and faculty members to be skilled in creation and implementation of new ideas.
- To provide platform to improve questioning, observing, testing, analyzing and communication skills.
- To provide qualitative education and generate new knowledge with integration of emerging technologies and research.
- To practice and promote high standard of potential ethics, transparency and accountability.

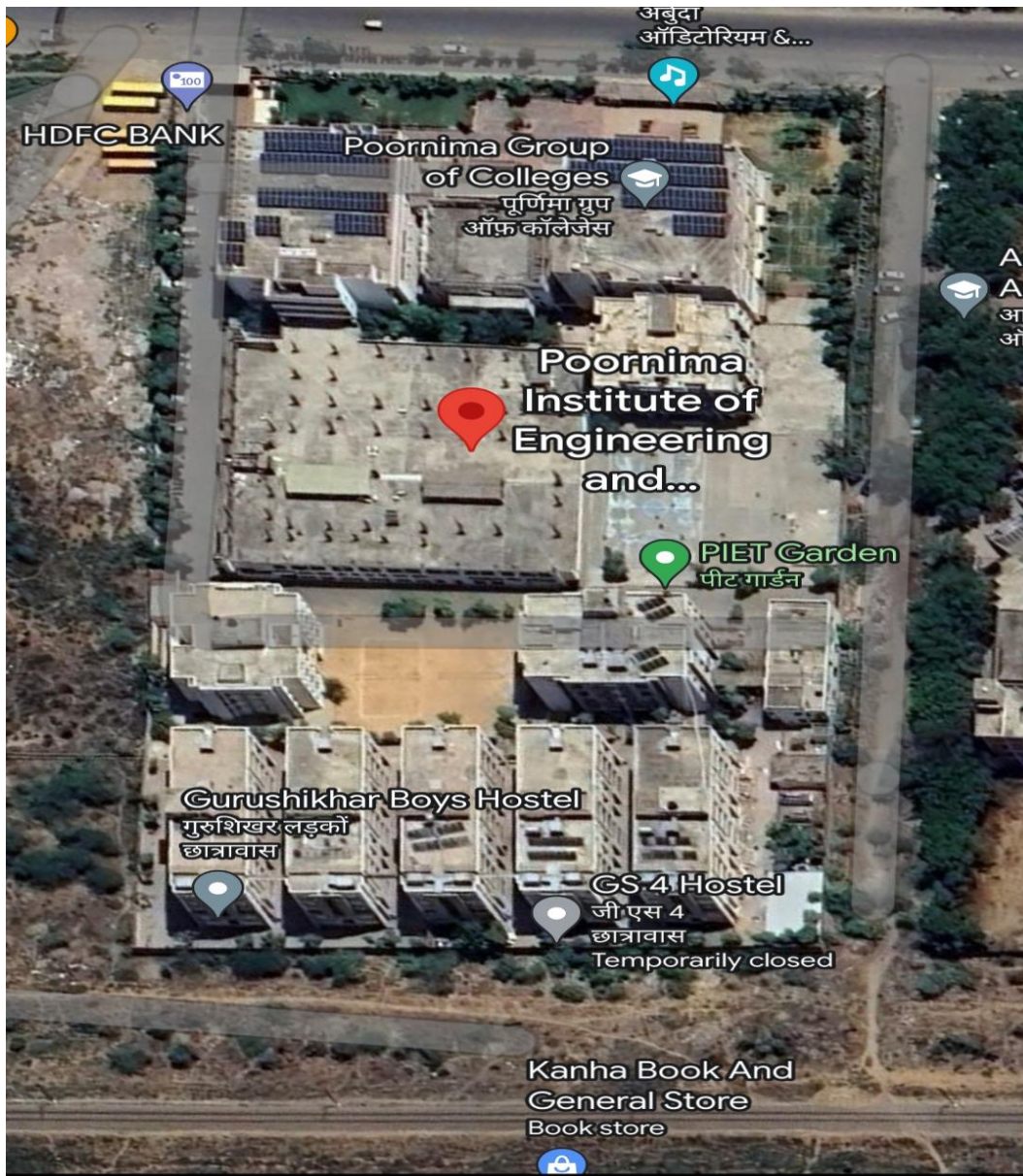
### List of courses offered by the college:

- Computer Science Engineering
- Computer Science Engineering(R)
- Computer Science- Data Science (DS)
- Computer Science- Artificial Intelligence (AI)
- Artificial Intelligence & Data Science (AI & DS)
- Computer Science – IOT

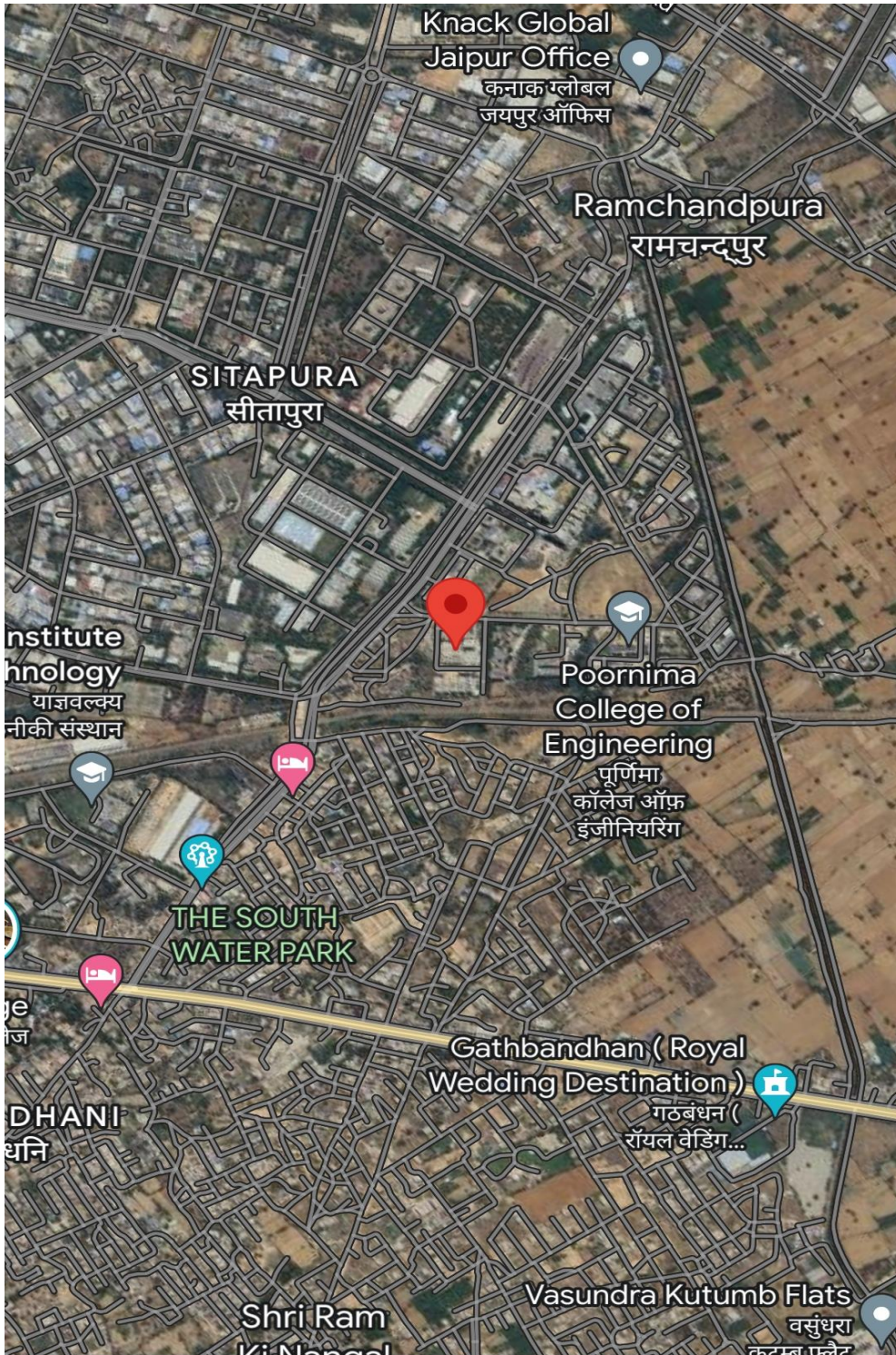


## Environment Setting

The land use around the campus is mainly mix of residential and commercial area. There are educational institutes such as Apex Institute of Engineering and Technology and Swasthya Kalyan Institute, Garden and Hospital.



Poornima Institute of Engineering and Technology Campus



Location of Poornima Institute of Engineering and Technology Campus



## Water Management Audit

For Water Management Audit following 2 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

- a) Water Efficiency
- b) Wastewater Management

### Water Efficiency:

- a) Ground water (Submersible) is the main source for water supply in the campus.
- b) Water is stored in number of overhead and underground tanks. Following is the details of tanks present in the campus:

Location	Tank Capacity	Type of Tank
In front of Arbooda convention Centre	85000	Underground
OAT	85000	Underground
Block C	31880	Roof
	15790	
GS2	31880	Roof
	15790	
GS3	27410	Roof
	12900	
GS6	32350	Roof
	16170	
GS7	13240	Roof
	11940	

- c) Water coolers are provided for drinking purpose.
- d) Normally mops are used for floor cleaning and hose is used for cleaning once a week
- e) Dual flushing system is provided in the washrooms.
- f) Signages are provided in washrooms emphasizing water conservation.
- g) Water from air conditioning unit and reject water from water purifiers is used for gardening and sanitary purpose.
- h) Rain water harvesting system is available and all the rainwater collected is seeped underground for recharging of underground water table.



Signages for water conservation

### Wastewater Management:

- a) Sewage treatment plant is not available in the campus.



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## Recommendations/Suggestions

- Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.
- Dry sweep or use a sponge broom when possible, instead of using a hose to clean floors, sidewalks, or other hard surfaces.
- Minimize/ reduce water usage by installing water saving faucets such as pressmatic taps, tap aerators, jet sprays etc.
- Grey water/ sewage recycling system can be installed for flushing toilets. This will reduce the fresh water footprint.
- Installation of waterless urinals can be considered to reduce water consumption.
- Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption.



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