AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING
Approved by All India Council for Technical Education, New Delhi
Affiliated to Anna University, Chennai
NAAC Accredited Institution & NBA Accredited Courses    (Mech. Engg., ECE, CSE, IT)
"Nizara Educational Campus" Muthapudupet, Avadi-IAF, Chennai - 55.

# 1. WATER CONSERVATION

**Rainwater Harvesting**

Rain water harvesting system involves gathering of rainwater that runs from rooftop, garden, road and playground. This is done to preserve the runoff water. This is one of the best solutions to tackle the present water crisis.

**Objectives of rainwater harvesting:**

- Recharge the groundwater sources.
- Reduce the loss of water by runoff.

The rain water conservation trenches as shown in the below figure are provided around the campus. This is one of the easiest and most effective means of harvesting rainwater. This conservation trench is about 8 feet high and 5 feet in diameter, and is filled with pebbles about a height of 5 feet. The trench is covered with perforated slabs wherever necessary. The rain water runoff collected in the trench is treated by the pebbles and the water enters into the ground in such a way that the groundwater potential is recharged. This type of ground water recharge improves our ground water potential, makes our garden green and provides a good environment to our students and staff. So our campus has a well-established system to make a sustainable environment.

| S.No. | Rain water Harvesting Pit Location | Nos |
|-------|-------------------------------------|-----|
| 1. | Basic Engineering Block | 2 |
| 2. | EEE Block | 2 |
| 3. | ECE Block | 2 |
| 4. | CSE& IT Block | 3 |
| 5. | Civil & Mechanical Engineering Block | 4 |

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Figure: Rain water harvesting pit in Basic Engineering Block

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Figure: Rain water harvesting pit in EEE Block



Figure: Rain water harvesting pit in ECE Building

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Figure: Rain water harvesting pits near CSE& IT Building

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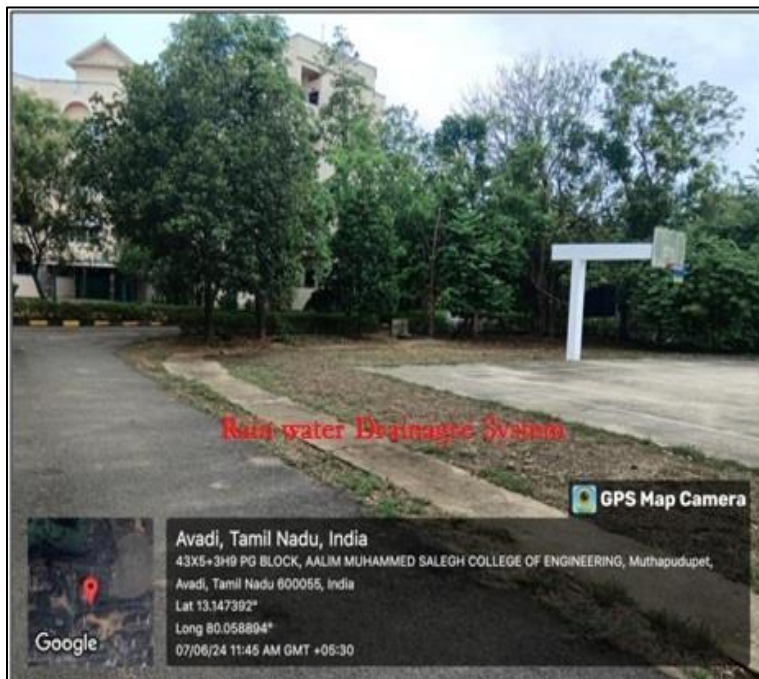Figure: Rain water harvesting pits near Civil & Mechanical Block



Figure: Rain water Drainage system

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## INVOICE

INVOICE No. 007/ 19-20
Date: 27/07/2019

**GNANAVELU .S**
**Contractor Plumbing & Electrical Work**
No.46, Defence Enclave, 6th Street,
Muthapudupet, Avadi I A F,Chennai-600 055

**AALIM MUHAMMED**
**SALEGH COLLEGE OF**
**ENGINEERING**
**MUTHAPUDUPET, IAF**

| Sl.No. | Particulars | Unit | Nos | Rate | Amount |
|---|---|---|---|---|---|
| | Rain Water Harvesting Well Construction work | | | | |
| 1 | Material & Labour For Rain Water Harvesting well- Excavation (4ft width x 8ft depth) EEE Building - 02 Nos/ECE Building - 02 Nos/CSE & IT Building - 03 Nos / Mechanical & Civil - 04 Nos / Basic Engineering Block - 02 Nos | Nos | 13 | 27500 | 357500 |

Amount In Words : Three Lakhs Fifty Seven Thousand Five Hundred Only)

S. Gnanavelu

**GNANAVELU .S**

Pl. issue Cheque in favour of GNANAVELU .S

Works Completed
Checked and Verified.
A.S. Muran
27/07/2019

Measurement are checked
& verified by
R. Ajesh kg
27/07/2019
(R. Ajeshkumar)

Gnamraj
31 07 19

Figure: Rain water harvesting invoice