



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)**

(Approved by A.I.C.T.E., New Delhi & Affiliated to J.N.T.U.A, Ananthapuramu)

(Accredited by NAAC with 'A' grade)

(Accredited by NBA for CIVIL, EEE, MECH, ECE & CSE Courses)

SIDDHARTH NAGAR, NARAYANAVANAM ROAD, PUTTUR – 517 583
CHITTOOR DIST., A.P., INDIA

Rain water harvesting

Rainwater harvesting is a process of collecting, moving and storing rain water for use at a later stage from relatively clean surfaces such as a roof, land surface or rock catchment.

Siddharth Institute of Engineering & Technology is using Rainwater harvesting technology for increasing ground water levels. The rain water is diverted towards bore wells to raise the ground water level. As these bore wells is much below the road level, water level surges in rainy season. Water is collected from rooftop by PVC pipe outlets. Water flows through the chamber and drainage. Drain connected from all the building flow towards lower level in to rain water pit. Rain water pit is filled with gravels and sand for percolation of water for recharging the surrounding ground area. Percolation pits were constructed with dimensions of 12' l × 12' b × 4' depth.



Collecting rain water through closed pipes

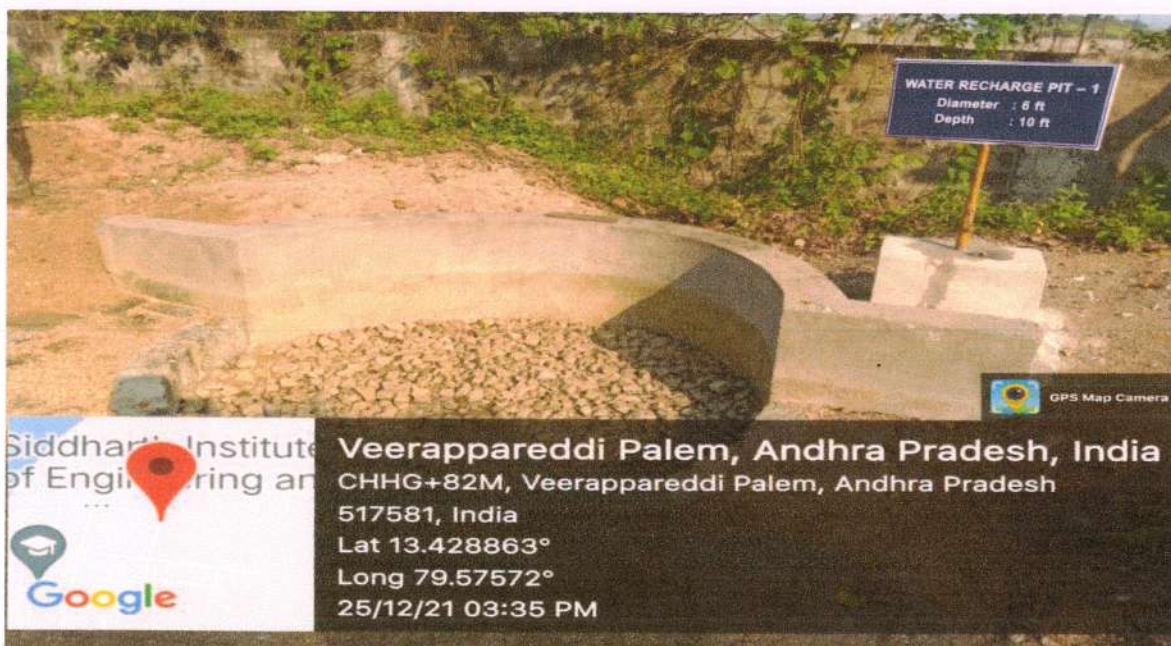
Keneedy
PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583, Chittoor Dist.

Bore well /Open well recharge

The percolation pits were constructed for groundwater recharge and to supply water for bore wells. The college percolation pit was constructed with dimensions of 8 feet depth and diameter of 6 feet. Percolation pits is implemented at high slope end of SIETK college premises. There are 5 Nos borewells and 2 recharge pits which are well maintained without any leakage and well cleaned and placed bricks around it. These bore wells which are near to recharge pits will use water for college of all blocks, hostels, cafeteria, gardening purpose.



Bore well in college campus



Water recharge pit

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Construction of tanks and bunds

Tanks in campus supplying water for regular usage. There are 10 Nos well maintained tanks. The capacity of tank is 16000 L which is of rectangular dimension. The tank water is used to all blocks of SIETK campus, hostels, cafeteria and auditorium. The bunds are constructed of 2 feet height at a high slope end of campus near to percolation pits. The bunds which restrict the flow of rain water coming with soil and safely discharges the rainwater to the availability areas within college and can be diverted to field areas for crop growing.

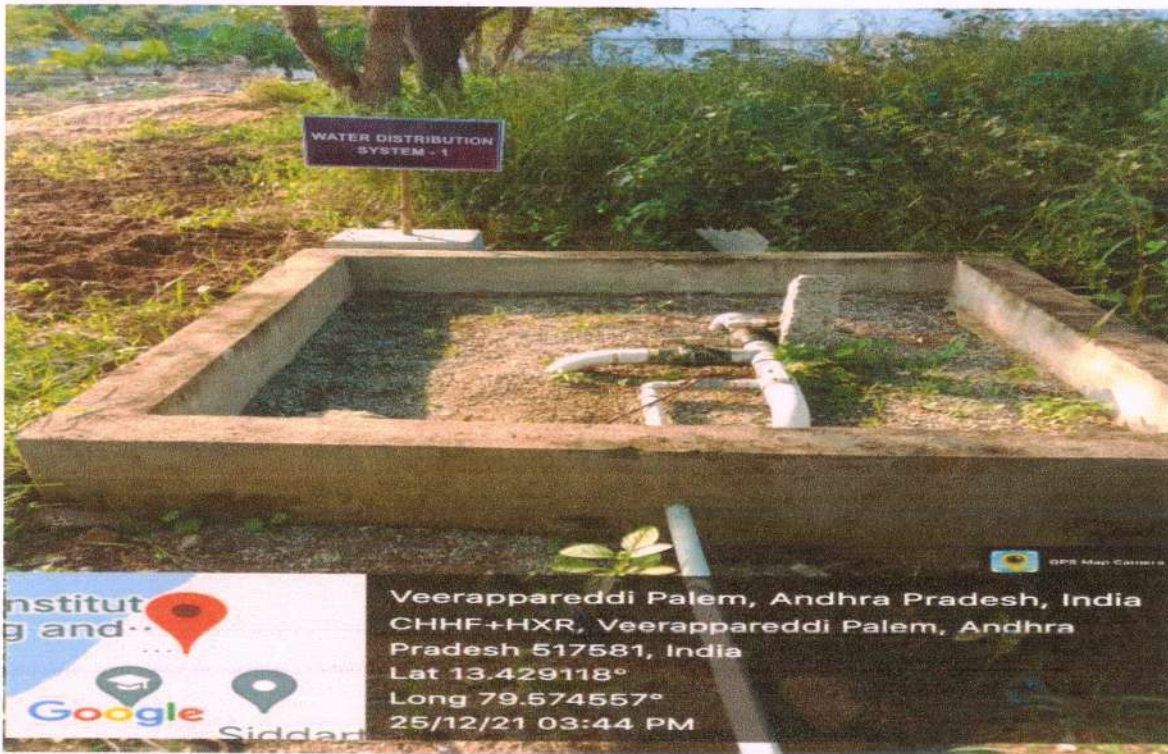


Construction of tanks and bunds

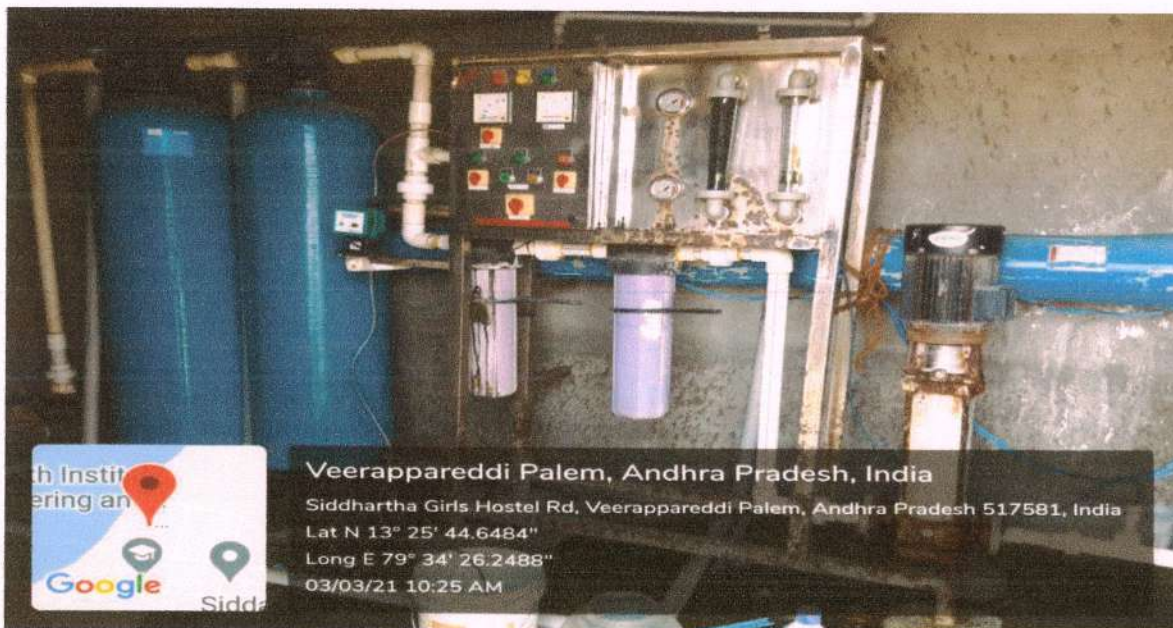
K. Sreeraj
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Maintenance of water bodies and distribution system in the campus

The distribution system in the campus is well maintained without any leakages and used for distributing water which comes from bore wells. There are 3 diversion pipes connected separately from 5 Nos of borewells. This water is diverted to hostels, all blocks of SIETK campus, auditorium, and cafeteria.

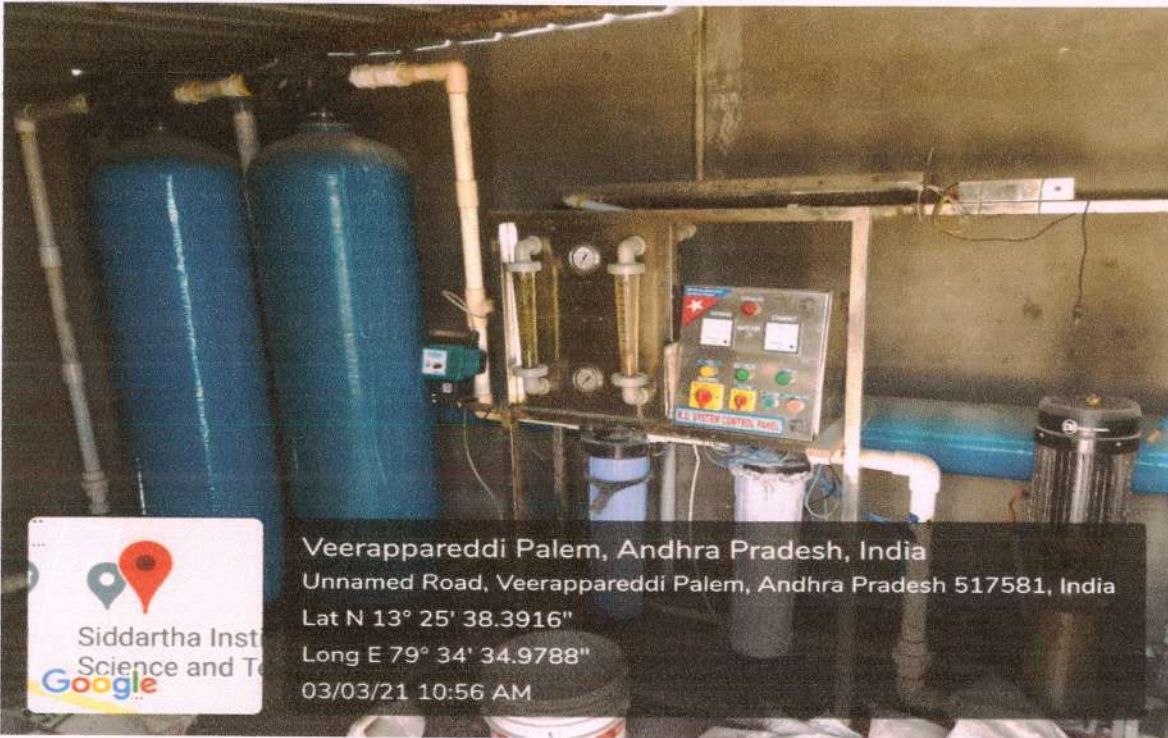


Maintenance of water bodies and distribution system



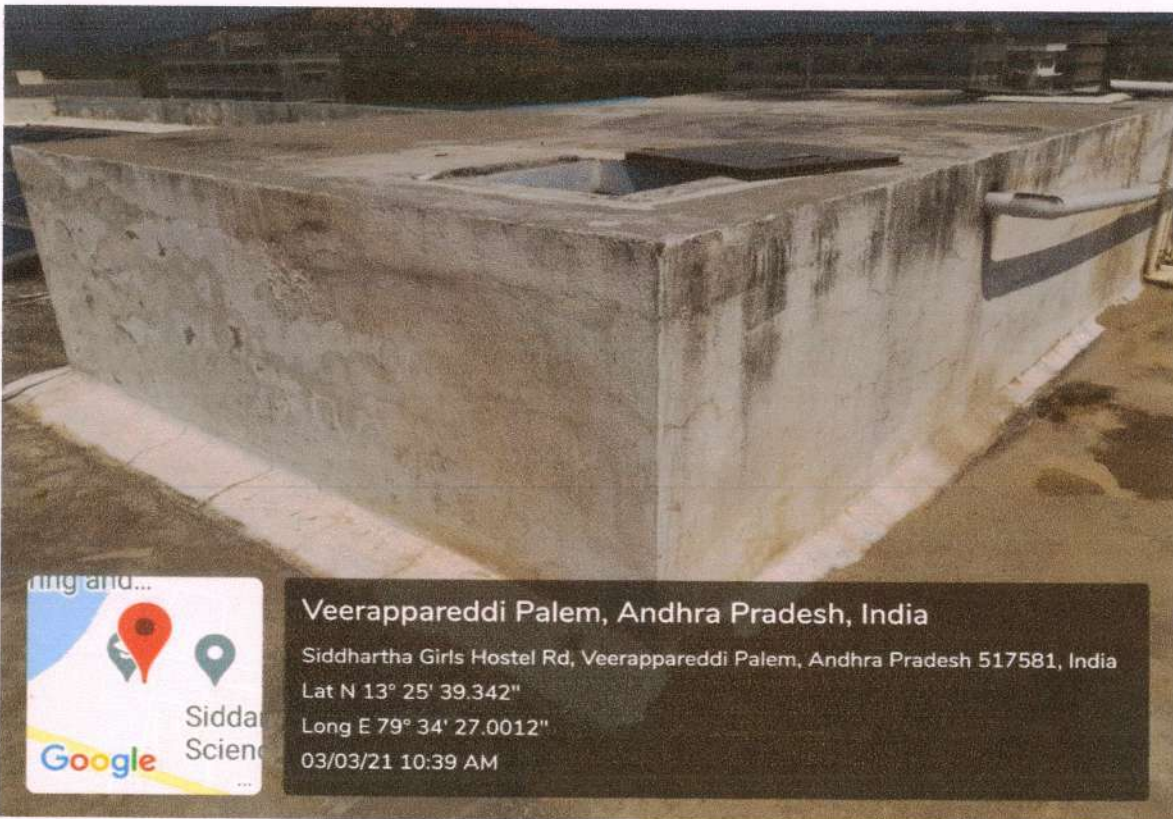
RO-1 in Siddharth Institute of Engineering & Technology, Puttur

K. Reddy
PRINCIPAL
Siddharth Institute of Engineering & Technology
Siddharth Nagar -
PUTTUR - 517583, Chittoor Dist.



Veerappareddi Palem, Andhra Pradesh, India
Unnamed Road, Veerappareddi Palem, Andhra Pradesh 517581, India
Lat N 13° 25' 38.3916"
Long E 79° 34' 34.9788"
03/03/21 10:56 AM

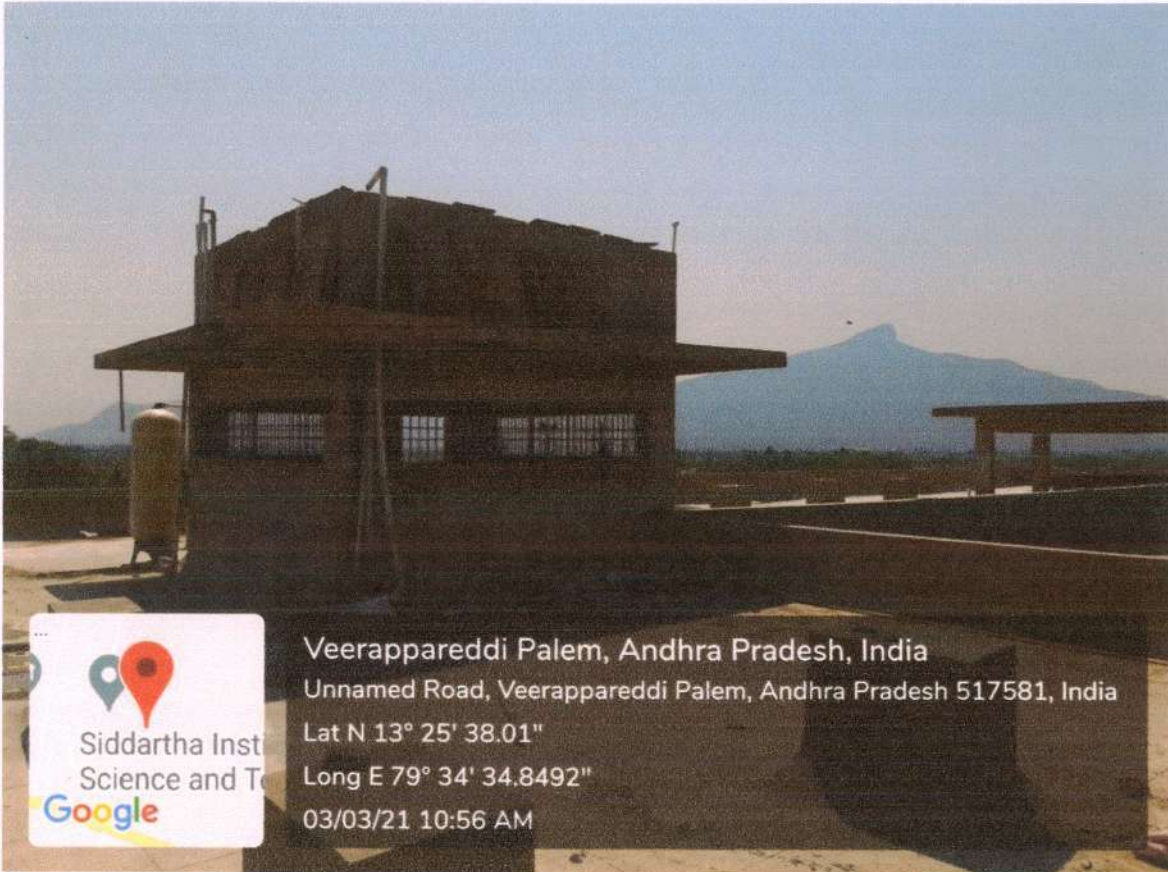
RO-2 in Siddharth Institute of Engineering & Technology, Puttur



Veerappareddi Palem, Andhra Pradesh, India
Siddhartha Girls Hostel Rd, Veerappareddi Palem, Andhra Pradesh 517581, India
Lat N 13° 25' 39.342"
Long E 79° 34' 27.0012"
03/03/21 10:39 AM

Water tank

Kennedy
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Water tank

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Rain water harvesting



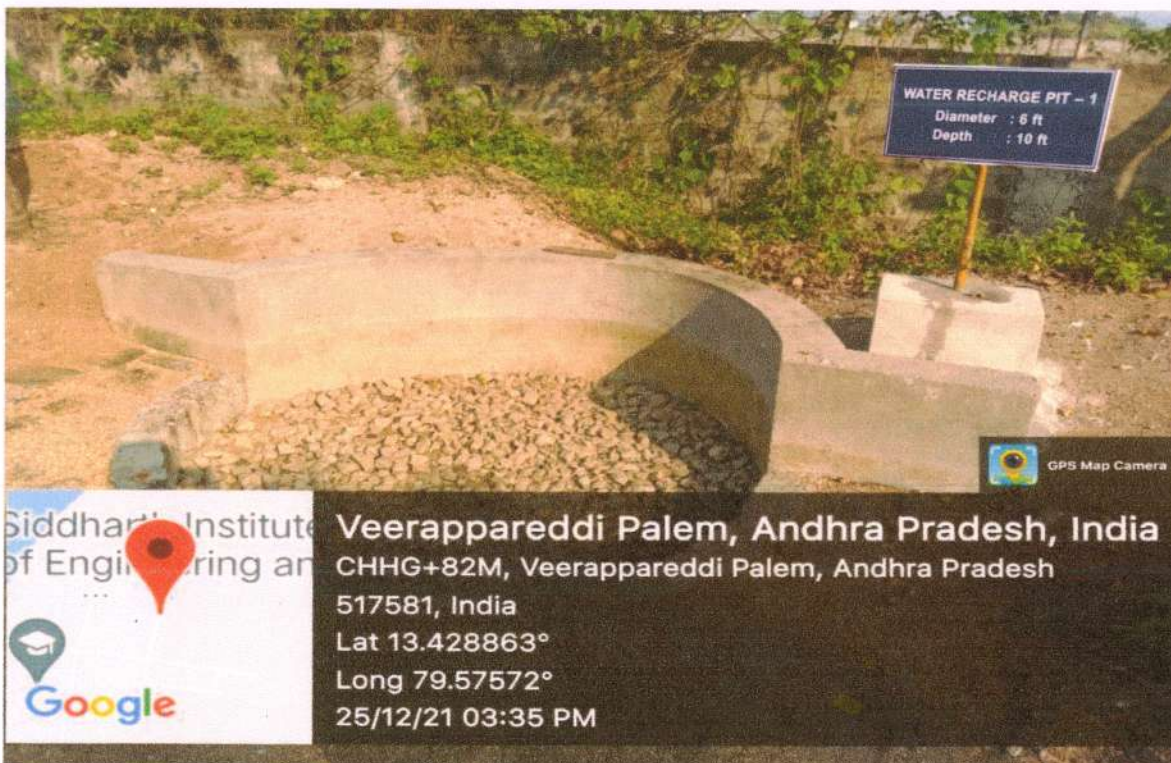
Collecting rain water through closed pipes and rainwater harvesting pit

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Bore well /Open well recharge



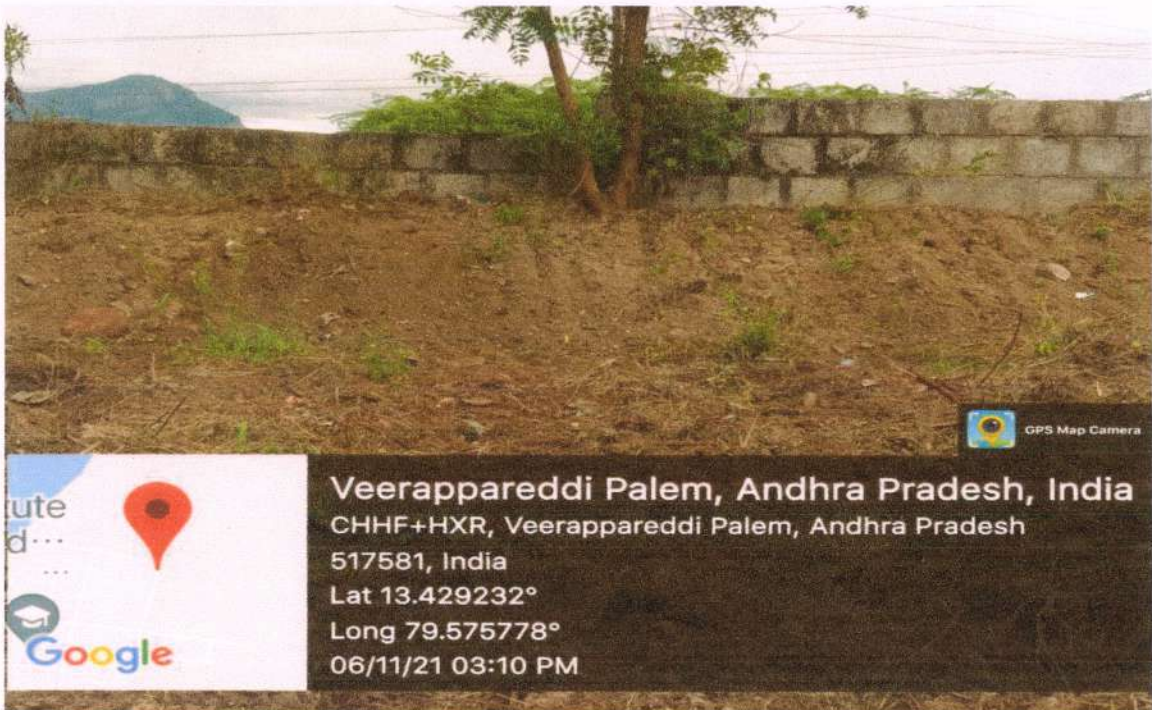
Bore well in college campus



Water recharge pit

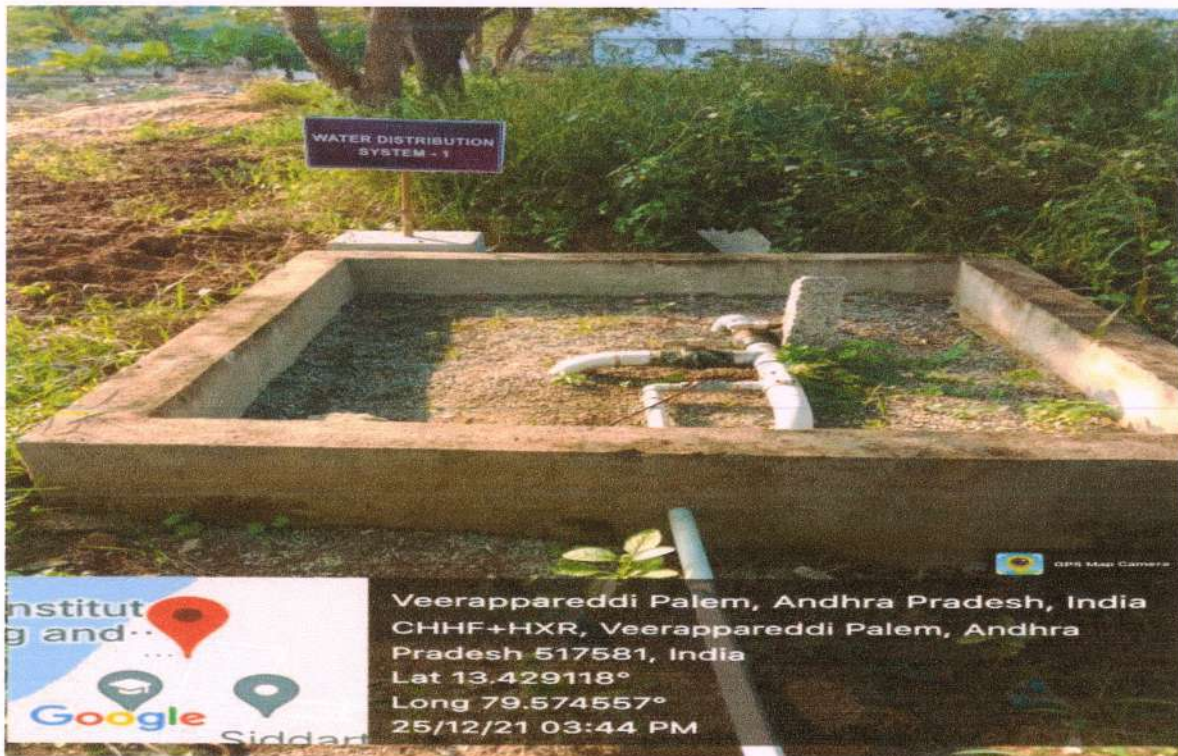
K. Sreelakshmi
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Construction of tanks and bunds



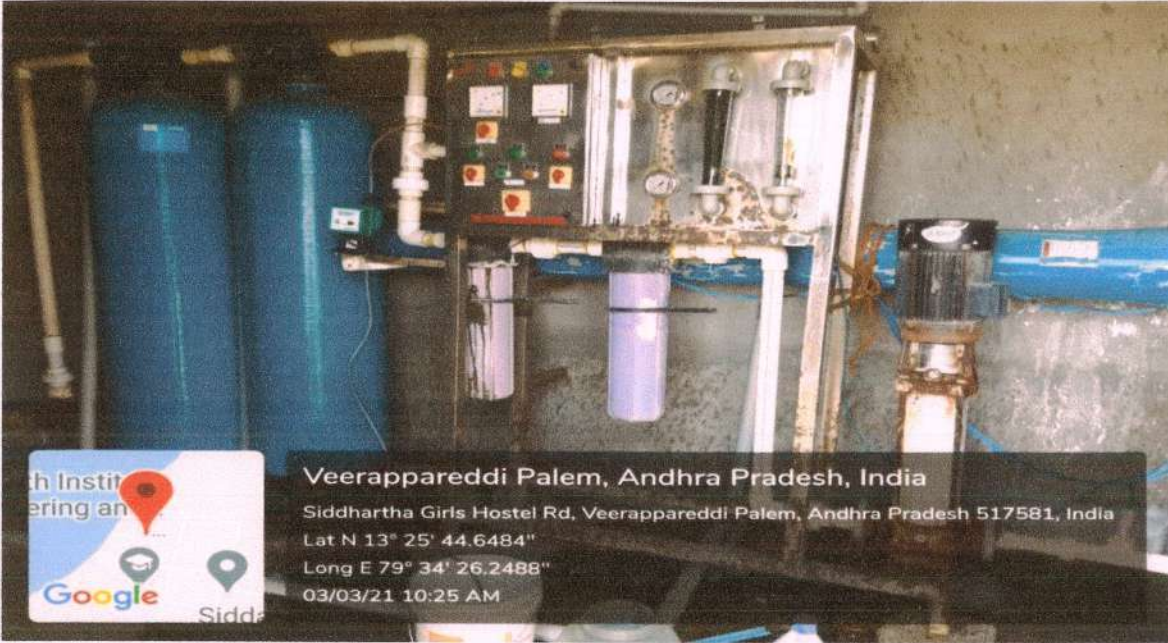
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Maintenance of water bodies and distribution system in the campus

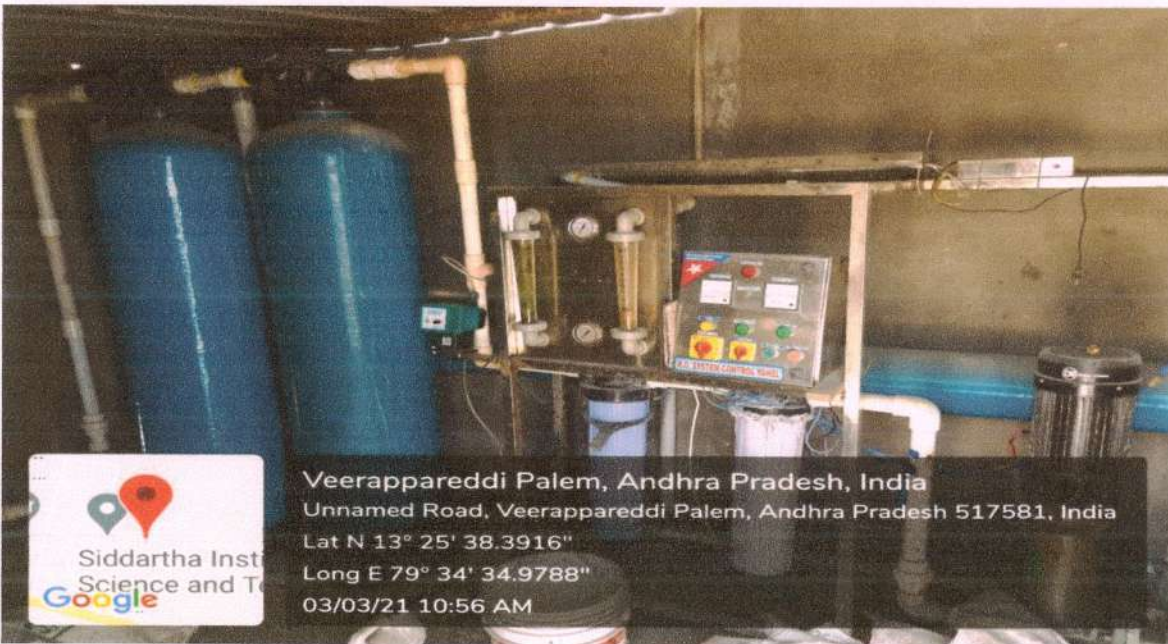


Maintenance of water bodies and distribution system

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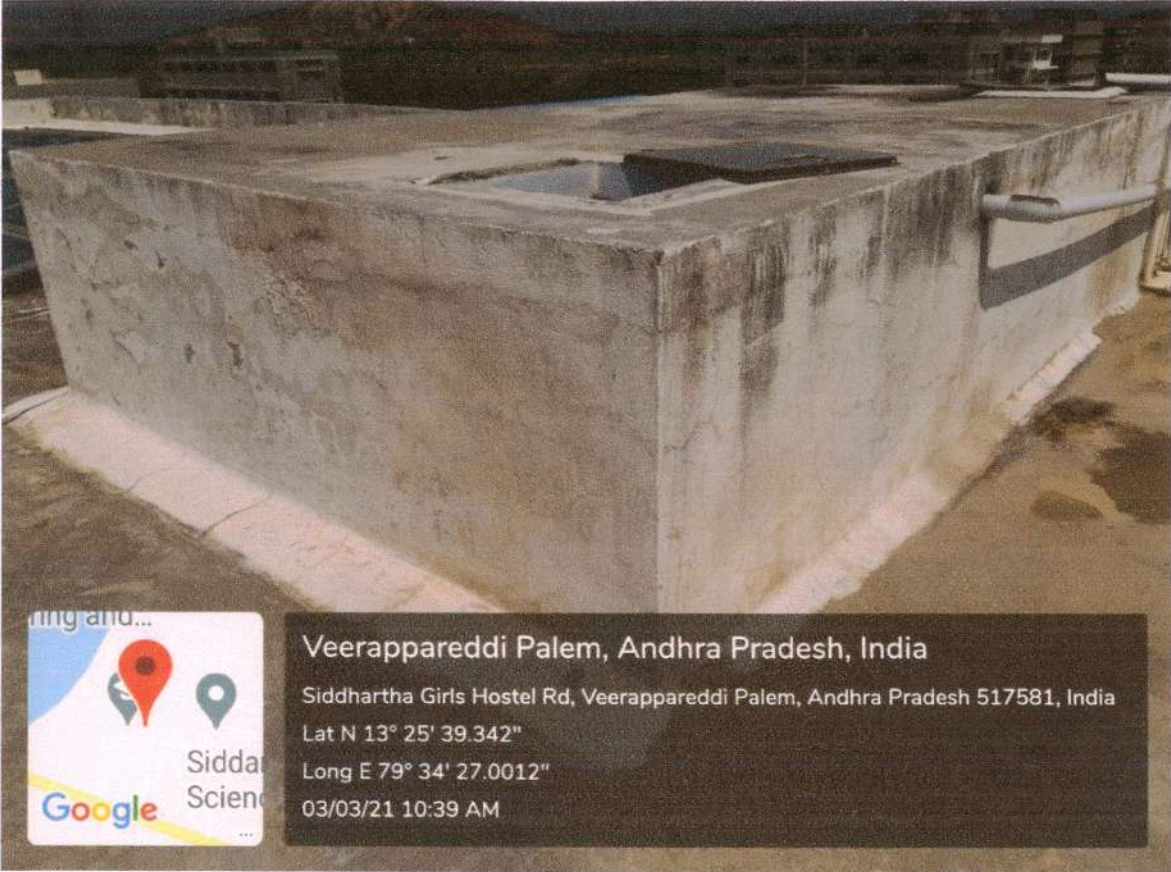


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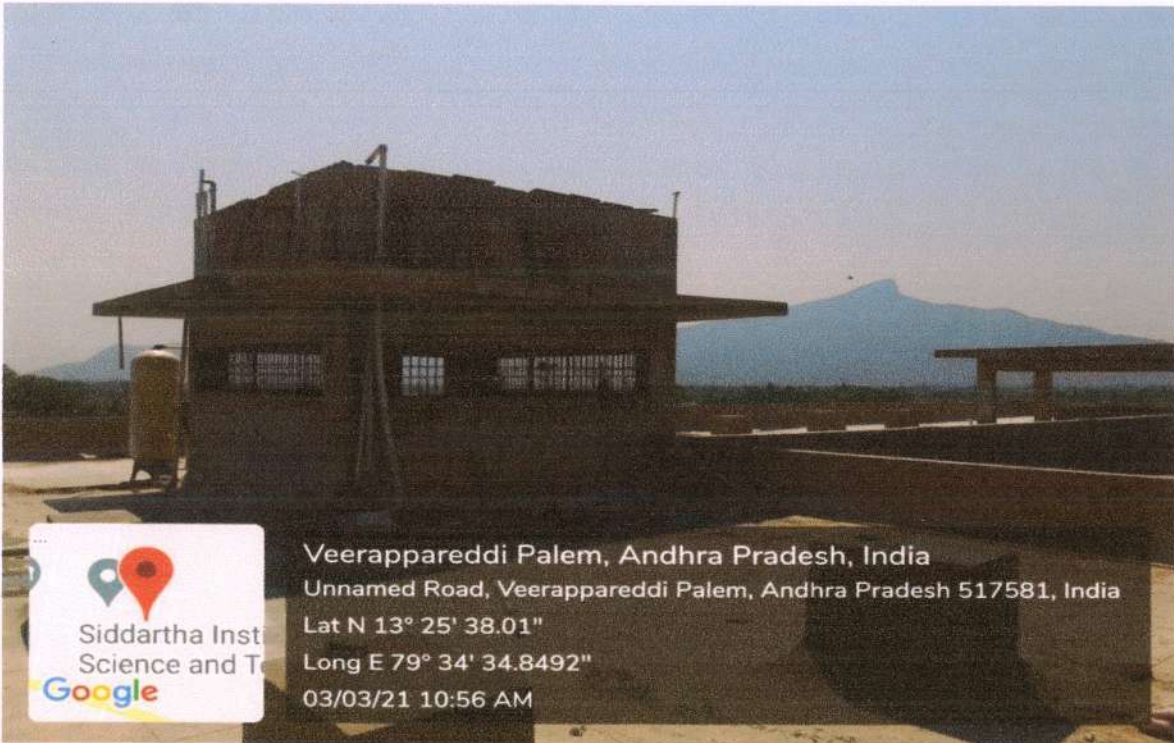
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Water tank



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Long E 79° 34' 34.8492"

03/03/21 10:56 AM

Water tank

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