



N

**TRR GOVERNMENT DEGREE  
COLLEGE, KANDUKUR**  
**CRITERION VII, 7.1.4**



**TRR GOVERNMENT DEGREE COLLEGE, KANDUKUR, PRAKASAM DT.  
ECO CLUB**

**Date:28.08.2020**

**RESOLUTION**

As a part of implementing the Green policy, water conservation in our college, the Botany department came up with a proposal to take up the initiation of constructing new Rain water harvesting pits along with the repair of the old ones. They proposed a construction of three new Rain water Harvesting Pits. The Rain Water Harvesting pits will absorb the surface Run off water during monsoon season and increase the water table of our college. The proposal of the Botany Department is appreciated and accepted and the decision to start the work will be initiated after going through the financial implications.

  
Principal  
PRINCIPAL  
T.R.R. Govt. Degree College  
KANDUKUR - 523105  
Prakasam Dist.

Botany & Eco Club	Political Science
Zoology	History
Chemistry	Economics
Physics	Commerce
Mathematics	WEC
Computer Science	NSS
Hindi	NCC
Urdu	Physical Education
Telugu	English

## CONSTRUCTION OF RAINWATER HARVESTING PITS





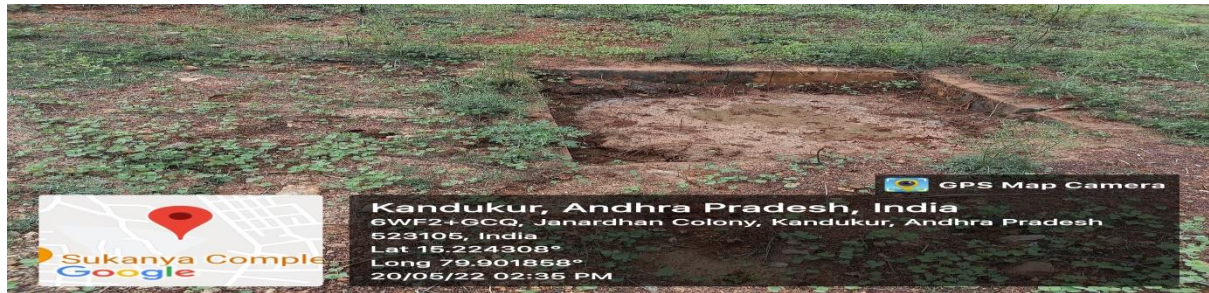


N

**TRR GOVERNMENT DEGREE  
COLLEGE, KANDUKUR**  
**CRITERION VII, 7.1.4**



**RAIN WATER HARVESTING PITS**



There are four Rain Water harvesting pits in our college to tap the Rain water during the monsoon season. All the Rainwater harvesting pits are built scientifically built to tap the maximum amount of water in the soil. This will definitely raise our water table and keep our soil healthy.



**TRR GOVERNMENT DEGREE  
COLLEGE, KANDUKUR**

**CRITERION VII, 7.1.4**

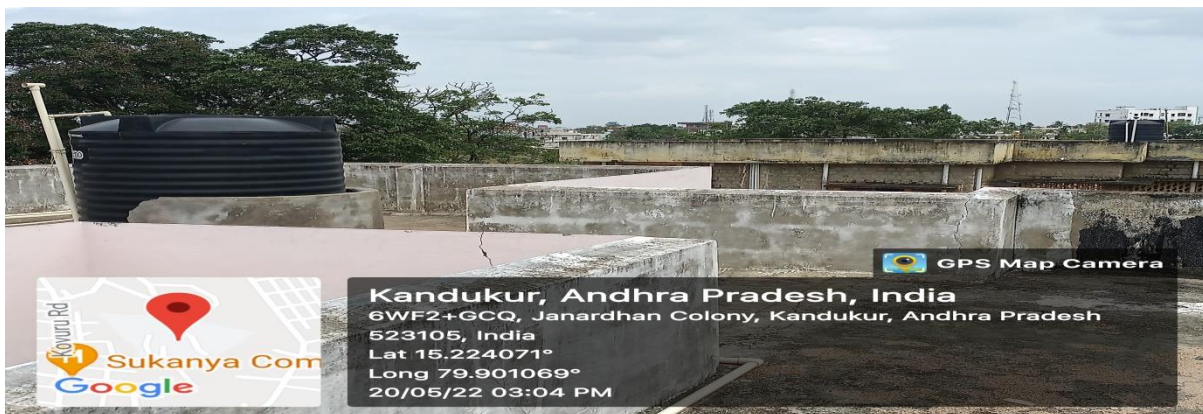


**Water Tanks on the roof top of our college**



**TRR GOVERNMENT DEGREE  
COLLEGE, KANDUKUR**

**CRITERION VII, 7.1.4**



Distribution system: We have bore water and municipal water facility in our college. The bore water is lifted up through motor and the tanks on the roof top are filled with it. The water lifted is distributed to different blocks with the help of cpvc pipes from the preinstalled tanks in different blocks. The Municipal water is used for drinking purpose and diverted to the R.O. plants. The waste water generated from R.O plant is channelled and used for watering plants in the garden.



**TRR GOVERNMENT DEGREE  
COLLEGE, KANDUKUR.  
CRITERION VII, 7.1.4**



**Azolla pond**



In our college we have *Azolla* pond in which we cultivate *Azolla*. *Azolla* is a pteridophyte plant which is used as a Bio fertilizer. The water used in culturing *Azolla* is rich in nitrogen content and it is used for watering plants in our garden. Dried *Azolla* is used as biofertilizer.

## Water Conservation in the College:

RO waste water from two RO plants are diverted for garden plants.

Waste water diverted from RO plant 1(ground floor) to garden plants



Waste water diverted from RO plant 1(first floor) to garden plants



## WATER CONSERVATION IN THE COLLEGE



Based on the necessity we purchased the water sensor for one water tank located on the roof top, which is frequently in use which has more chances of over flowing. With this we could able to minimize the water waste caused due to the over flowing of water.

## DIGITAL SOCKET TIMERS ARE USED TO CONSERVE THE POWER IN THE BOTANY LAB



Two digital socket timer are used for NFT model and Dutch Bucket Model of Hydroponics in Botany lab to conserve the electric power. Digital socket timers are used to control the flow of water periodically for hydroponics experiments. Circulation of nutrient solution is very important aspect of Hydroponic experiments. As the college working hours is 10.00 am to 5.00 pm, the question of circulating the nutrient solution through submersive motor pumps from 5.00 pm to 10.00 am arises. If we continuously switch on the motors, continuous circulation of nutritive solution may occurs, but at the cost of energy. So to solve this, the college has adopted the technology of digital socket timer, where the time of water circulation to the plants of hydroponic units is controlled in programmed manner. Nearly sixteen pre programmed programs can be used through these digital socket timers.

Apart from following all the above water conservation methods our students also participating in beyond the campus environmental programs like water conservation day, world earth day etc.,



TRR GOVERNMENT DEGREE COLLEGE,  
KANDUKUR, PRAKASAM DT.  
CRITERION – VII, 7.1.3, D. BEYOND THE CAMPUS  
ENVIRONMENT PROMOTION ACTIVITIES



Activity: Water Conservation program	Venue: CTRI RS KANDUKUR
Date: <b>22.04.2021</b>	Participants: 30,

CTRI RS Kandukur( Central Tobacco Research Institute, Regional Station) has celebrated the water conservation day under Jal Shakthi Abhiyan. The CTRI RS Head P. Anuradha, presided the program on Water conservation. Speaking to the audience, she has thrown light on importance of water and its conservation. On this international water conservation day the students of BZC and AZC 2<sup>nd</sup> year participated in this off campus environment program. Eco Club Coordinator and Botany HOD Dr. Shaik Mastan Vali Participated in this off campus environment program along with students.

OUT COME:

Such programs will mould the students in to eco friendly students. Through this program the students came to know how to conserve water through rain water harvesting pits, farm ponds etc.



FARM POND AT CTRI RS KANDUKUR



  
PRINCIPAL  
T.R.R. Govt. Degree College  
KANDUKUR - 523105  
Prakasam Dist.