



**S.K.R. GOVERNMENT DEGREE COLLEGE(WOMEN)
RAJAMAHENDRAVARAM(Estd.1968)**

(Re-Accredited at B+Grade by NAAC, Affiliated to Adikavi Nannaya University)



S K R GOVERNMENT DEGREE COLLEGE (WOMEN)

Phone: 0883-2467391



G.O.Ms.No. 28, Higher Education Department, Dated 10-08-2022

Re-Accredited at B' Grade by NAAC

Affiliated to Adikavi Nannaya University

Opp. T.T.D. Kalyana Mandapam, Danavaipeta, Rajamahendravaram, E.G.Dist., A.P

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Established 1968

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Water conservation

Water conservation: water as one of the most precious resource to become a rare commodity shortly. rain water harvesting structures and utilization in the campus.

Response :rainwater harvesting structures skr college for women Rajamahendravaram believes in the quote "the running water should be made to walk and the walking water should be made to crawl and the crawling water should be made to stand"and takes all possible measures to preserve the rainwater the institution was has a built in roof water harvesting and flood water management through percolation pits.

These pits useful for garden watering as on alternative to freshwater there are several other benefits such as providing backup source of water reducing erosion of ground flooding around the building and rising the aquifer. The main advantage of these percolation pits is that it requires low up front capital investment and they are easy to maintain. During the rainy season a lot of rainwater floods the campus from all directions percolation pits were successfully found to be one of the simplest and most effective means of harvesting rainwater the institution with the help of volunteers from NSS and NCC has been digging the percolation pits at crucial points in the college they are designed on the basis of expected gravitational run of with rocks are block jam and streams and secured with puncture solid pieces of wherever essential. The percolation pits measure 6×6×6ft. and can store 692631 cu.mts. amount of water small water help they stray water into the nearest percolation pit. Adequate measures are taken to seal the openings so as to prevent students and animals to sleep into them every rainy season maintenance is undertaken by student volunteers both to clean the lead channels and to remove the silt from the bottom of the tanks so as to keep the storage capacity intact.

Roof water harvesting. : skr college for women Rajamahendravaram please operating in 5 large buildings with a huge roof space. This provides opportunity to harvest a Lot rainwater flowing down the roofs. This water is brought through pipelines and connected to percolation pits the chemistry department also utilizes the roof water for sum of its lab purposes as a source of distilled water for qualitative identifications



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Water conservation and management

The college has a serious concern for the water conservation and management systems the college has developed rainwater harvesting pits and maintains them between help of NCC cadets and NSS volunteers.

Methods adopted in the college to recharge groundwater:

In order to promote artificial groundwater recharge the rainwater from roof top areas is collected into the water harvesting pits dug yet strategic areas on the campus the recharge pits help rainwater to replace groundwater by recharging the underground aquifers.

It can be built to recharge a borewell or just to help the water infiltration in an area college has installed rain harvesting pits at the following places in the campus

- 1). In the mango garden North East to the college buildings
- 2). Behind science laboratories the common procedure to construct the rainwater harvesting pit involves five stages process.

Stage 1: Digging a pit with required dimensions

Stage 2: Filling the 3/4th of the pit with black stone which does not absorb any water.

Stage 3: constructing cement brick wall around the pit.

Stage 4: filling up the remaining 1/4 th of the pit with 30mm metal stone

Stage 5: covering the pit with iron mesh



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WATER CONSERVATION

HARVESTING PITS



ROOF WATER HARVESTING

