



Dr. V.S. KRISHNA GOVT. DEGREE COLLEGE

(An Autonomous Institution Affiliated to Andhra University)

Reaccredited by NAAC with 'A' Grade(3rd Cycle)

District Resource Centre & Center for Research Studies
Maddilapalem, VISAKHAPATNAM 530 013, Andhra Pradesh



7.1 Institutional Values and Social Responsibilities

Environmental Consciousness and Sustainability

7.1.4. Water conservation facilities available in the Institution

Rain Water Harvesting Pits

Dr. V.S. Krishna Govt. Degree College has taken all the measures to prevent the draining away of rainwater by preserving it through rainwater harvesting pits. Harvesting rainwater is a green practice, a sustainable practice and these percolation/ soak pits proved to be the highly cost-effective management of rainwater harvesting and 6 percolation pits are located on the college premises. The institution has a built-in rainwater management system which is intended to raise the water table and prevent soil erosion as a part of the conservation of the ecosystem.

The rooftop water is brought down through pipelines and connected to the soak pits. As the institution has adhered to strict green policy, the Haritha Krishna Club and the Botany department together maintain these rainwater soak pits with the help of NSS volunteers and gardeners. In the rainy season, the lead channels are cleared and cleaned and silt is removed from the bottom of the tanks so as to keep the pits intact.

- The two percolation/soak pits near the Zoology laboratories measure **3.5 X 3.5 X 6.5 ft.**
- The two pits near the hand wash provisions measure **3 X 3 X 3 ft.**

- The soak pits near the G1 garden and in the garden near the Chemistry laboratory measure **3 X 3 X 2ft.**

Bore well/ Open well Recharge

The institution has two submersible motor borewells to meet the water requirements like drinking water, water for laboratories and sanitary facilities with a huge capacity of 5 HP.

One borewell is located near the G1 garden which supplies water to all main blocks on the campus. A soak pit near the bore well helps to recharge by allowing rainwater and runoff to percolate into the ground. This enhances groundwater levels, ensuring a sustainable water supply, and mitigates the risk of bore well depletion, promoting long-term water security.

- Another borewell is located near the college canteen which meets the water requirements of the girls' hostel.
- One large and 5 small open water tanks are available to grow fish and hydrophytes.

Water distribution system

Dr. V.S. Karishna Govt. Degree College(A) has sufficient water storage tanks to facilitate the water requirements of the college. There are no bunds in the college.

- The college has one bore well and two municipal water connections. The college has 3 RCC tanks
- Two RCC tanks are continuously supported by uninterrupted water supply by the Municipal Water supply system
- One RCC storage tank is supplied by the water from the borewell

- There are RO water plants large in size 2 small RO plants

Waste Water Recycling

The institution has a good mechanism for wastewater recycling. The green policy of the college insists on the maximum utilization of wastewater. The waste water generated from RO plant is treated with a three-stage water purifier system available in the campus. The process of purification starts with a **sediment filter** to remove large particles, followed by an **activated carbon filter** to eliminate chemicals and odours, and finish with a **UV filter** to kill bacteria. Handwash water is channelised to botanical garden for regular watering.

The institution has a proper disposal system of sewage water to Municipal wastewater treatment plant of Greater Visakhapatnam Municipal Corporation (GVMC). Rainwater harvesting pits are constituted at strategic points. The liquid chemical waste coming out of the laboratories is neutralized and disposed of safely.

Maintenance of water bodies and distribution systems on the campus

Dr. V.S. Krishna Govt. Degree College has a well-maintained water distribution system. It undertakes the periodical maintenance of rainwater harvesting pits, borewells, cement water tanks and RO plants.

Additional information

Water Conservation & Management:

The College has a serious concern for Water Conservation & Management systems. The College has Developed 5 Rainwater Harvesting Pits and maintains them with the help of NCC cadets & NSS Volunteers.

To promote artificial groundwater recharge, the rainwater from rooftop areas is collected into the water harvesting pits dug at strategic areas on the campus. The recharge pits allow the rainwater to replenish groundwater by recharging the underground aquifers. It can be built to recharge a bore well or just to help the water infiltration in an area.

Process: Stage 1: Digging a pit with the 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 1/4th of the pit with 30mm metal stone Stage 5: Covering the pit with Iron mesh and finally with a cement cap.



అల్లవూరి, మార్చి 4,

ప్రభాతవార్త

స్థానిక డా.విఎస్ కృష్ణ ప్రభుత్వ డిగ్రీ కళాశాల జాతీయ సేవా పథకం, హిరతకృష్ణ ఇకో క్లబ్ సంయుక్తంగా వర్షపునీటి సంరక్షణ కార్యక్రమాన్ని చేపట్టారు. ఈ కార్యక్రమాన్ని కళాశాల ప్రిన్సిపాల్ డా.వి విజయబాబు, జాతీయ సేవా పథకం ప్రోగ్రాం ఆఫీసర్స్



డా.వి రత్నభారతి, డా.పి ఉమామహేశ్వరరావు, డా.వి.సుధీర్, డా.సామ్యూల్ డేవిడ్ రాజ్, హిరతకృష్ణ ఇకో క్లబ్ కోఆర్డినేటర్ డా.ఎస్ మాధవరావు పాల్గొన్నారు. కళాశాల లో ఉన్న ఇంకుడు గుంతలను త్రవ్వించి వాటి చుట్టూ సిమెంట్ ఒరలను పేర్చారు. ప్రిన్సిపాల్ డా.వి విజయబాబు మాట్లాడుతూ వర్షపు నీటిని ఒడిసి వట్టడానికి ఇంకుడుగుంతలు సహకరిస్తాయని తద్వారా భూమిలో నీటిశాతాన్ని మెరుగు పరుచ వచ్చని తెలిపారు. ఆనంతరం జాతీయసేవ పథకం ప్రోగ్రాం ఆఫీసర్స్ విద్యార్థి వాలంటీర్లుకు ఇంకుడు గుంతలు నిర్మాణంను తెలియజేశారు. అదే విధంగా వారివారి ఆవాసాలలో ఇంకుడుగుంతలపై ఆవగాహన కల్పించాలని సూచించారు. ఈ కార్యక్రమానికి ఆధ్యాపకులు డా.పి.లత, డా.దీపయ్య నివేదిత, డా.పిఆర్ వాణి, డా.వై శాంతిప్రభ ఆనేక సంఖ్యలో విద్యార్థులు పాల్గొన్నారు.



S. Vaidya

PRINCIPAL
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