

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY



Estd: 1980

Affiliated to VTU, Belagavi
Recognised by AICTE, New Delhi, and Govt. of
Karnataka

PB No. 91, Adichunchanagiri Extension, KM Road,
CHIKKAMAGALURU 577102, KARNATAKA, INDIA
Phone: Office: 220444, Principal: 220063, Residence:
220343, Fax: 220063, STD code: 08262



Water Conservation

Water conservation is the preservation, control, and management of water resources.
Water conservation facilities available in the Institution

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds:

As a part of revival to traditional wisdom, in this institute we built two numbers of ground tanks to collect and storage the rainwater for reuse on-site, rather than allowing it as run off.

Volume of the Check dam-1: $150 \times 210 \times 10 = 315000$ Cubic feet

Volume of the Check dam-2: $75 \times 125 \times 12 = 112500$ Cubic feet

Total volume of the water stored: 427500 Cubic feet

Calculation of Rain water Harvesting:

Collected rainwater in liters = mean annual rainfall (mm) * area of roof top (sqm) * runoff factor

Mean annual rainfall of Chikkamagaluru = 1762 mm

Runoff factor = 1.0 (For roof top collection)

- a. AD block: $1050 \times 1762 \times 1 = 1850100$ liters
- b. Amphi-theatre: $850 \times 1762 \times 1 = 1497700$ liters
- c. Canteen Block: $700 \times 1762 \times 1 = 1233400$ liters



Fig.1: Check dam-1




Fig.2: Check dam-2



Fig.3: Ground recharge-1

Fig.4: Ground recharge-2


 Signature of the HOD
Dr. M. RAME GOWDA
 B.E.,M.Tech.(IIT-B),Ph.D.(NITK)
 Professor and Head
 Department of Civil Engineering
 Adichunchanagiri Institute of Technology
 CHIKKAMAGALURU-577102


 Signature of the Principal
Dr. JAYADEVA
 Principal B.E.,M.Tech.,Ph.D
 Adichunchanagiri Institute of Technology
 CHIKKAMAGALURU-577102