

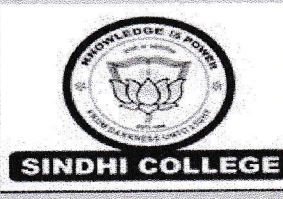
## ECO CLUB

Action taken report for the even semester of the Academic year 20-21

S.No	Resolution passed	Action Taken	Remarks
1	Conducting a webinar related to Environmental issues	Conducted on 30/6/2021	The planned activity was conducted successfully
2	Conducting any programme to celebrate special days related to Environment	World water day was celebrated through a webinar on water conservation	The planned activity was conducted successfully

*Sashikala. J.*  
Convener  
ECO-club.





# Sindhi College

#33/2B, Hebbal, Kempapura, Bengaluru-560024  
Phone: 080-23637543/44, 41178288  
Fax: 23637544

(Permanently affiliated to Bengaluru City University and  
accredited by NAAC, Recognized by UGC under 2(f) & 12(B),  
ISO 9001:2015 Certified Institution)

## ECO CLUB

### In association with

KARNATAKA STATE COUNCIL FOR SCIENCE & TECHNOLOGY (KSCST)

INDIAN INSTITUTE OF SCIENCE

&

THE BANGALORE WATER SUPPLY AND SEWERAGE BOARD (BWSSB)

Bengaluru

organizes

## National Webinar on

“Water CONSERVATION & Traditional water Harvesting  
Systems”

### Esteemed Speaker

Dr.U.T.Vijay

Chief Scientific Officer &

Principal Investigator- RWH, TWHS & KDH

Karnataka State Council for Science & Technology  
(KSCST)

Indian Institute of Science,  
Bengaluru



Date: 30-06-2021, Wednesday

Time: 11:00 AM

### Zoom Meeting Link to Join:

<https://us02web.zoom.us/j/87685591108?pwd=OVFPbDVUZGJndERQbjNrVERDendnZz09>



Meeting ID: 876 8559 1108

Passcode: 050541

Registration is free !!!

E-Certificates will be provided to all the participants

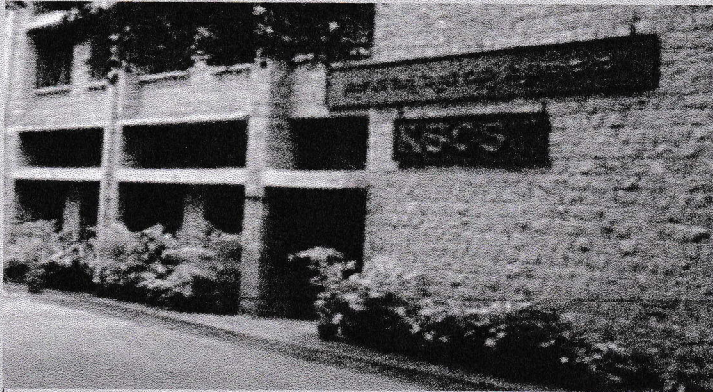
### Registration Link:

<https://forms.gle/WhzT88euRnEScgQC9>

FOR ANY QUERIES, CONTACT : 9980812445, 9886341262



## ABOUT KSCST



The Karnataka State Council for Science and Technology (KSCST) was established in 1975 and is responsible for the development of the quality of life of the people of the state, especially in rural areas. Its 54-member board is an autonomous institution and the state's Chief Minister is the Chairman of the Advisory Committee. The Director, Indian Institute of Science is the Chairman of the Executive Committee.

Its main purpose is to identify the applications of science and technology necessary for the development of the state in relation to the prevailing poverty and unemployment and to advise the State Government to outline policies and regulations relating to science and technology. The board, which operates within the premises of the IISc, is largely responsible for the success of the board's many programs that bring science and technology to the masses of the state.

It creates a conducive environment for collaboration and cooperation with scientists from the IISc, and connects with scientists at leading research institutions in Bangalore and other parts of the state. KSCST Council is the first of all the State Science and Technology Councils established in the country. The board has, over the last four decades, collaborated with the government and the science community in its existence to undertake and implement several successful projects and programs. Energy for cooking and lighting, drinking water, agriculture, residential housing, etc. are among the many successful projects / programs of the board. These programs play an important role in alleviating poverty and improving quality of life.

## ABOUT THE COLLEGE



Sindhi College, Bengaluru was established in the year 2002, under the aegis of Sindhi Seva Samiti, a philanthropic organization managed by the Sindhis with, "Service to human kind" as their motto. The college is permanently affiliated to Bengaluru City University.

It is a self-financing, co-education college imparting quality education in the streams of Science, Commerce, Management & Humanities offering UG and PG courses.

Sindhi College is committed to reach global standards and impart quality education integrated with values to students enabling them to excel in the fields of Science, Commerce, Management and Humanities to cater to the ever changing and challenging needs of the society and the industry and also make them responsible citizens of the country.



## ABOUT THE WEBINAR

Water conservation has a clear impact on a sustainable environment, especially as the globe faces an increasingly pressing need to address climate change. Groundwater is the principal source of freshwater to address the water needs of the country's ever-increasing household, agricultural, and industrial sectors. Over time, it has been recognized that groundwater exploitation and wastage of water have increased tremendously. Every year, our water resources are depleting. Further more, we cannot generate artificial water and must rely on water sources available on our planet earth. Water scarcity is felt all over the world as a result of population growth and an ever-increasing demand for water to support our ever-expanding contemporary lifestyle. This has sparked serious conservation concerns. In this context. The webinar ponders upon the application of various sustainable systems including rainwater harvesting and recharging groundwater. It aims to throw light and create awareness on such measures in conserving water globally.

## ABOUT THE SPEAKER



Dr.U.T.Vijay is serving as Chief Scientific Officer in KSCST, Indian Institute of Science since 1986. His areas of interest are water related technologies such as Rain Water Harvesting(RWH), Traditional Water Harvesting Systems(TWHS) & Watershed Development, Applications of Geo-spatial Technologies for Natural Resources Management and Application of 3D Laser Scanning Technologies for Archaeology and Heritage Conservation(Digital Heritage). He has been associated with various projects and programmes in KSCST such as

- Rain Water Harvesting, Assessment of Traditional Water Harvesting Systems in Karnataka such as Kalyanis / Pushkaranis (Temple tanks), Kunte, Gokatte and Katte to suggest the scientific measures for restoration and rejuvenation.
- Preparation of action plans for Watershed Development, Monitoring and Evaluation of Watershed Development activities using Geo-spatial Technologies, Suvarna Bhumi Yojane etc.
- Application of 3D Laser Scanning for 3D modeling of world heritage monuments for preservation of culture and heritage under Indian Digital Heritage(IDH) of DST,GOI and Karnataka Digital Heritage(KDH), a project of Department of Archaeology(DAMH), GOK.
- Dissemination of Nano Technology based Water Purification for Arsenic affected villages and application of the Geo-spatial technologies in Natural Resources Management and Infrastructure Development for Rural Development and Decentralized Planning in the state.

## ORGANISING COMMITTEE

Prof. Shashikala.U  
Convenor, ECO CLUB  
HOD, Dept of  
Management  
Prof.

Jayashree.J.Tambad

HOD, Dept of Commerce

**Prof. Asha.N**  
Vice Principal

Prof. Ranjana Pillai  
HOD, Dept of Hindi

Prof. Hemalatha. R  
Assistant HOD  
Dept of Computer  
Science

Technical Support &  
Guidance

Prof. Radhika .E.K  
HOD, Dept of Computer  
Science

**Dr.B.S.Srikanta**  
Principal





# Sindhi College

(Sponsors : Sindhi Seva Samiti)  
33/2B, Hebbal, Kempapura, Bengaluru - 560024  
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**National Webinar on  
"WATER CONSERVATION & TRADITIONAL WATER HARVESTING SYSTEMS"**

organised by  
Sindhi College  
ECO CLUB

In association with  
KARNATAKA STATE COUNCIL FOR SCIENCE & TECHNOLOGY (KSCST)  
INDIAN INSTITUTE OF SCIENCE & THE BANGALORE WATER SUPPLY AND SEWERAGE BOARD (BWSSB)  
Bengaluru

Date & Time of the Programme	Date: 30-06-2021, Wednesday Time: 11:00 AM
Type of the Programme (co-curricular /extra-curricular/ cultural/sports/NSS/NCC/Industry-Institute Interactive/ Extension Activities/ Outreach/Capacity building/ others)	Co-curricular and capacity building;
Name of the Resource Person	Dr.U.T.Vijay Chief Scientific Officer &Principal Investigator-RWH, TWHS & KDH, Karnataka State Council for Science & Technology (KSCST), Indian Institute of Science, Bengaluru
Designation	Chief Scientific Officer &Principal Investigator-RWH, TWHS & KDH, Karnataka State Council for Science & Technology (KSCST), Indian Institute of Science, Bengaluru
Class & Batch	Students of all streams
Total No. of Students	400(Faculty &students)
Programme In charge	Prof.Shashikala.U Convenor,Eco club
Collaboration :	KARNATAKA STATE COUNCIL FOR SCIENCE & TECHNOLOGY (KSCST) INDIAN INSTITUTE OF SCIENCE & THE BANGALORE WATER SUPPLY AND SEWERAGE BOARD (BWSSB) Bengaluru
Objective :	<ul style="list-style-type: none"><li>• The webinar was organised to address various issues in water conservation and traditional rainwater harvesting systems</li><li>• The webinar was organised to understand the application of various sustainable systems including rainwater harvesting and recharging groundwater.</li><li>• It attempted to throw light and create awareness on measures in conserving water globally.</li></ul>
Issues / Key factors addressed :	<ul style="list-style-type: none"><li>• Water conservation -issues</li><li>• Traditional rainwater harvesting systems</li><li>• Measures in conserving water</li></ul>



Impact/ Outcome :

- Traditional rainwater harvesting systems followed in the ancient temple tanks of Karnataka and India and how badly they were maintained.
- The speaker insisted that every participant of the webinar should install rainwater harvesting systems at their homes to prevent water scarcity in the future generations.
- The presentation was very interesting and insightful in driving home the fact that water conservation is very important to protect the future generations.
- The webinar was fruitful in creating large-scale awareness about water conservation and rainwater harvesting systems

Photographs

**ESTEEMED SPEAKER**  
**Dr. U. T. Vijay**  
 Chief Scientist & Officer A  
 Principal Investigator, RWRI, TWRI & TDM  
 Karnataka State Council for Science & Technology (KSCST)  
 Indian Institute of Science, Bengaluru

Location: Kalyani in Gudekote, Kudligi Taluk, Ballary District  
 Capacity: 2250 CuM  
 Source: Ground water seepage  
 Water Status: Yes, Structure: Good with heavy silt deposit and bushes  
 Measures: Cleaning, De-silting, Parapet wall, Fencing, Walking path, Seating benches, Planting of trees

Location: Seebi, Melahel GP, Sira Taluk  
 Capacity: 1250 Cu.M  
 Source: Ground Water Seepage  
 Water Status: Yes  
 Structure: Good  
 Water Quality: Bad  
 Measures: Desilting, Dewatering, Cleaning, Fencing, Walking path, Seating benches, Planting of Trees

Location: Kalyani, Santhebennur & GP, Channagiri Taluk, Davanagere District  
 Capacity: 4000 Cu.M  
 Source: Ground Water seepage  
 Water Status: Yes, Structure: Good  
 Measures: Cleaning, De-watering, De-silting, Fencing, Fishing, Seating benches

HOD  
 S. S. Subbaraj  
 Convenor  
 Eco-club

PRINCIPAL  
 SINDHI COLLEGE  
 Hebbal

Report on  
National Webinar on

"WATER CONSERVATION & TRADITIONAL WATER HARVESTING SYSTEMS"

organised by  
Sindhi College  
ECO CLUB

In association with

KARNATAKA STATE COUNCIL FOR SCIENCE & TECHNOLOGY (KSCST)  
INDIAN INSTITUTE OF SCIENCE & THE BANGALORE WATER SUPPLY AND SEWERAGE  
BOARD (BWSSB)

Bengaluru

Date: 30-06-2021, Wednesday

Time: 11:00 AM

Esteemed Speaker was Dr.U.T.Vijay, Chief Scientific Officer & Principal Investigator-RWH, TWHS & KDH, Karnataka State Council for Science & Technology (KSCST), Indian Institute of Science, Bengaluru. The program was well attended with 400 participants across the nation including faculty members of other institutions, students and other guests from KSCST and BWSSB.

Water conservation has a clear impact on a sustainable environment, especially as the globe faces an increasingly pressing need to address climate change. Groundwater is the principal source of freshwater to address the water needs of the country's ever increasing household, agricultural, and industrial sectors. Over time, it has been recognized that groundwater exploitation and wastage of water have increased tremendously. Every year, our water resources are depleting. We cannot generate artificial water and must rely on water sources available on our planet earth. Water scarcity is felt all over the world as a result of population growth and an ever- increasing demand for water to support our ever-expanding contemporary lifestyle. This has sparked serious conservation concerns. In this context, the webinar was organised to understand the application of various sustainable systems including rainwater harvesting and recharging groundwater. It threw light and created awareness on measures in conserving water globally.

Honourable Principal Dr.B.S Srikanta welcomed the guest with a congenial and warm note. Master of the Ceremony was Prof.Shashikala.U, Convenor,Eco club. Welcome address was delivered by Prof.Jayashree Tambad, Member, Eco club and HOD, Dept of Commerce .The speaker was introduced to the audience by Prof. Hemalatha.N, Asst HOD, Dept of Computer Science, Vote of thanks was proposed by Dr.Ranjana Pillai, HOD Dept of Hindi. Honourable Principal



Dr.B.S Srikanta gave the presidential remarks and his insights and observations on the topic.

The webinar was organised to address various issues in water conservation and traditional rainwater harvesting systems. The speaker with his vast knowledge, experience and expertise in the concerned field gave an interesting presentation on water conservation. He dealt with various topics like the water woes of the dry and arid regions of India. He also spoke about the traditional rainwater harvesting systems followed in the ancient temple tanks of Karnataka and India and how badly they were maintained.

He also focussed on various measures implemented by KSCST in rainwater harvesting and rejuvenating the lakes, temple tanks and other water bodies. He suggested various measures and action plans for water conservation and water harvesting systems.

The speaker insisted that every participant of the webinar should install rainwater harvesting systems at their homes to prevent water scarcity in the future generations. The presentation was very interesting and insightful in driving home the fact that water conservation is very important to protect the future generations. The webinar was fruitful in creating large-scale awareness about water conservation and rainwater harvesting systems.

Zoom Meeting

You are viewing Dr. VIJAY U's screen

View Options

Recording

Reethu Basole, Dr. B. S. Srikanta, Dr. VIJAY U, Jayashree tam..., shashikala U, Hema Latha

### Water Resource Distribution

- Water is essential natural resource for human, animal and plant life
- 2/3 of Global area is covered by water resources
- 97% Salt water in the form of Oceans and Sea
- 3% - Fresh water – 2% Ice caps and Glaciers  
1% Rivers, Water bodies, GW

#### Water Distribution

Category	Sub-category	Percentage
Earth's water	Saline (oceans)	97%
	Freshwater	3%
Freshwater	Surface water	0.3%
	Groundwater	30.1%
Fresh surface	Ice caps and Glaciers	68.7%
	Rivers	2%
	Lakes	87%
Fresh surface	Swamps	11%
	Lakes	87%

Unmute Start Video

Security Participants Chat Share Screen Pause/Stop Recording Reactions



National Webinar on

"WATER CONSERVATION & TRADITIONAL WATER HARVESTING SYSTEMS"

### RWH Methods with Different Components

The diagram illustrates the components of a rainwater harvesting system:

- Collection (Catchment):** Flat / sloping roofs
- Transportation:** Down take pipes
- Leaf and grit filter:** Filter for debris
- Storage tank:** For storing harvested water
- First flush device / Filtration system:** To remove initial runoff
- Recharge into open wells / Bore wells / percolation pits / trenches:** For groundwater recharge

**Location:** Kalyani, Savadati, Savadati Taluk, Belagavi District  
**Capacity:** 2850 CuM  
**Source:** Ground Water seepage  
**Water Status:** Yes, Structure: Good  
**Measures:** Cleaning, De-silting, Parapet wall, Fencing, Avoid the dumping of Pooja items & Plastic items, Avoid washing of cloths & Bathing with soap, Fishing, walking path, Seating benches and planting of trees

### KSCST- Rain Water Harvesting Initiatives

- Rainwater Harvesting Cell & Helpdesk
- EWSSB and KSCST
- Collaboration- 2 Helpdesks
- Sr W. H. Vaswadeya RWH Thaneupak, Jayanagar 4th Cross, Bangalore.
- RWH Training Programmes- 83 nos - 2850 benefited
- RWH Awareness camps - 500 nos
- Training programmes for Gk. Officials - More than 50 nos
- Technical support & DPR- More than 500 Organizations
- Lectures/Quizzes on RWH for Schools and Colleges - More than 600 nos
- RWH installations in Bangalore - 1,50,000 Houses
- RWH App development - [http://rwh\\_advisor.info](http://rwh_advisor.info)

### RWH in Rural Schools

*Sasubala. J.*



## ABOUT THE SPEAKER

Dr.U.T.Vijay

Chief Scientific Officer &

Principal Investigator-RWH, TWHS & KDH

Karnataka State Council for Science & Technology

(KSCST)

Indian Institute of Science,

Bengaluru

Dr.U.T.Vijay is serving as Chief Scientific Officer in KSCST, Indian Institute of Science since 1986. His areas of interest are water related technologies such as Rain Water Harvesting (RWH), Traditional Water Harvesting Systems(TWHS) & Watershed Development, Applications of Geo-spatial Technologies for Natural Resources Management and Application of 3D Laser Scanning Technologies for Archaeology and Heritage Conservation(Digital Heritage). He has been associated with various projects and programmes in KSCST such as

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- Preparation of action plans for Watershed Development, Monitoring and Evaluation of Watershed Development activities using Geo spatial Technologies, Suvarna Bhumi Yojane etc. Application of 3D Laser Scanning for 3D modeling of world heritage monuments for preservation of culture and heritage under Indian Digital Heritage (IDH) of DST, GOI and Karnataka Digital Heritage(KDH), a project of Department of Archaeology (DAMH), GOK. ■ Dissemination of Nano Technology based Water Purification for Arsenic affected villages and application of the Geo-spatial technologies in Natural Resources Management and Infrastructure

*Sachin Kumar*

