

## SDG 11: Sustainable Cities and Communities



For urban inhabitants around the world to have a sustainable, just, and resilient future, SDG 11 (Sustainable Cities and Communities) must be achieved. There is an urgent need to make sure that metropolitan areas are designed and managed to satisfy the requirements of all inhabitants while reducing their negative effects on the environment as more people move into cities. We can create cities that support human well-being, climatic resilience, and economic prosperity by emphasizing affordable housing, inclusive transportation, green spaces, disaster resilience, and sustainable infrastructure.

### **POLICY for SDG 11:**

Our Institution, SKCET, worked towards the implementation of SDG 11 with the objective is to create inclusive, secure, resilient, and sustainable cities and human settlements. Addressing the issues of urbanization while making sure that communities and cities are safe, inclusive, and sustainable is the main objective of Sustainable Development Goal (SDG) 11. Given that cities are the main centers of economic activity but also deal with problems like congestion, pollution, poor infrastructure, and climate vulnerability, it emphasizes the role that cities play in constructing sustainable futures.

### **ACTIONS PLANNED:**

Events on Sustainable Consumption and Production.

Collaboration for resource sharing and waste management.



**CIRCULAR**

**25.07.2023**

As a part of The National Service Scheme (NSS) outreach programme, Sri Krishna College of Engineering and Technology would like to organize an outreach event on the theme of Traffic survey and Accident Hot spot analysis for the general public on August 2<sup>nd</sup>, 2023. Interested student volunteers are informed to actively participate in the event.

*Peethamasi*  
**NSS PROGRAMME OFFICER**  
**Sri Krishna College of**  
**Engineering and Technology**  
**Kuniamuthur, Coimbatore - 8**

*J. K. K.*  
**Sri Krishna College of**  
**Engineering and Technology**  
**Kuniamuthur,**  
**Coimbatore - 641 008.**

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1. To all Head of the Departments
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**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY**  
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## Invitation



**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Kuniamuthur, Coimbatore. Tamil Nadu 641008  
(An Autonomous Institution Affiliated to Anna University, Chennai)



### DEPARTMENT OF CIVIL ENGINEERING

*in association with NSS organizes*  
**Traffic survey and Accident Hot spot analysis**



**Date : 02.08.2023**

**Time : 9.00 AM**



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### **REPORT OF THE EVENT**

A team of 25 third year Civil Engineering students, along with Mr R. Vighnesh, Assistant Prof., Civil Engineering, conducted a Traffic survey and accident hotspot analysis for the road junction between Sundarapuram signal and Madukkarai market. The study is a part of the 2nd accident hotspot analysis organised by the Addl. Director General of Police, Special Task Force, Road Safety to identify the reasons for the fatal and non-fatal accidents.

  
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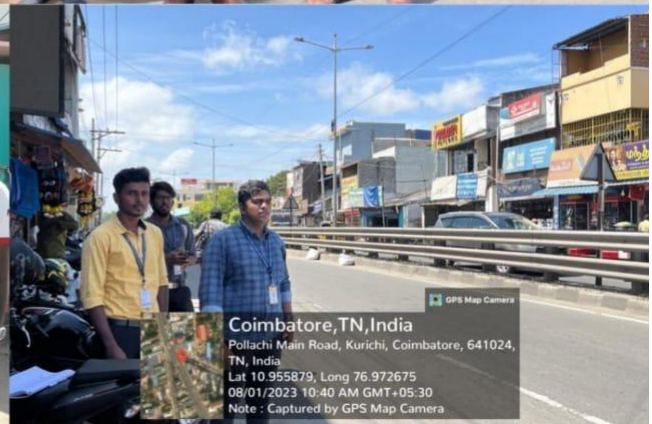


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**PHOTOS OF THE EVENT**



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Coimbatore - 641 008,



**PARTICIPANTS LIST**

<b>S. No</b>	<b>Register Number</b>	<b>Name of the student</b>	<b>Class</b>
1	727721EUCV003	ABISHAKE S	II CIVIL
2	727721EUCV012	FEBISH M	II CIVIL
3	727721EUCV019	KALAI DHARAN R	II CIVIL
4	727721EUCV027	NITIN S	II CIVIL
5	727721EUCV026	NITHISH KUMAR V M	II CIVIL
6	727722EUCV011	CHAKKARAVARTHI SANJAY S	II CIVIL
7	727722EUCV012	CHANDRA HARI K	II CIVIL
8	727722EUCV014	DEEPAK M	II CIVIL
9	727722EUCV016	DHARANIPRIYA R V	II CIVIL
10	727722EUCV025	MERENCIA A	II CIVIL
11	727722EUCV026	MITHUN R	II CIVIL
12	727722EUCV045	SABARISH G	II CIVIL
13	727722EUCV053	SHEWIN JOHN	II CIVIL
14	727722EUCV057	SRIDHANYAA R	II CIVIL
15	727722EUCV064	VISHAL KRISHNAN S	II CIVIL
16	727723EUCV504	GOKULA KRISHNA K	II CIVIL
17	727723EUCV506	SANJAY R	II CIVIL
18	727723EUCV507	SRIDHAR S	II CIVIL
19	727722EUCV056	SREE NARASIMMAN K	II CIVIL
20	727722EUCV057	SRIDHANYAA R	II CIVIL
21	727722EUCV058	SRIKAVIYA S	II CIVIL



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22	727722EUCV059	SUJITHA M	II CIVIL
23	727723EUCV508	SURENDAR D	II CIVIL
24	727723EUCV509	THEERESH M	II CIVIL
25	727722EUCV064	VISHAL KRISHNAN S	II CIVIL

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**(ACCREDITED BY NBA)**



**Akshay Urja Day- Outreach Activity**

**Awareness Campaign On Developments Of Renewable Energy**



<b>DATE</b>	<b>:</b>	<b>23.08.2022</b>
<b>TIME</b>	<b>:</b>	<b>03.00-04.00 PM</b>
<b>VENUE</b>	<b>:</b>	<b>GOVERNMENT HIGH SCHOOL STUDENTS AT MILEKAL</b>
<b>TARGET AUDIENCE</b>	<b>:</b>	<b>GOVERNMENT HIGH SCHOOL STUDENTS</b>



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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### CIRCULAR

Ref No:SKCET/EEE/2023-24/EV-01

18.08.2022

The Department of EEE has planned to conduct outreach activity on the account of **Akshay Urja Day** awareness campaign on the topic “**Developments of Renewable Energy**” for the Government High School Students at Milekal, Sugunapuram, Coimbatore on 23.08.2022 at 3.00 PM , acquire more knowledge on the renewable energy. The students can contact the event coordinator Dr.A.Radhika, Professor,EEE Department for further details.

  
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**To:**

1. All EEE Notice Boards
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## INVITATION



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



# AKSHAY URJA DAY

awareness campaign about the  
developments of renewable energy



**Government High  
School,  
Sugunapuram**



**23 -08-2023**



**3 PM**



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)



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## **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

### **REPORT OF AWARENESS CAMPAIGN ON DEVELOPMENTS OF RENEWABLE ENERGY**

In the view of Akshay Urja Day- Outreach activity an awareness campaign was organised by Department of EEE,SKCET on the topic Developments of Renewable Energy for the Government High School Students at Milekal, Sugunapuram, Coimbatore.

Our EEE Students showcased the Ekart Vehicle and conducted a live demonstration to the school students.

#### **KEY DELIBERATIONS**

The outreach activity aims to educate the young budding minds on the following topics:

- ❖ Designing of E-vehicle
- ❖ Features of Motor Controller
- ❖ Working Principal of Solar Panel
- ❖ Selection of Motors
- ❖ Battery Management System

#### **OUTCOMES**

Around 90 students participated enthusiastically and interacted with various technical queries during the event .School Head Mistress along with teachers appreciated our team incredible effort for conducting the event.

Students enjoyed the hands on learning experience.

  
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Coimbatore - 641 008.





**LIST OF PARTICIPANTS:**

**23.08.2023**

**Akshay Urja Day- Outreach Activity**

**Awareness Campaign On Developments Of Renewable Energy**

S.NO	REGISTER NUMBER	NAME OF THE VOLUNTEERS	DEPARTMENT
1	20EUEE001	ABHISHEK P	EEE
2	20EUEE002	ABISHEIK C K	EEE
3	20EUEE003	AJAY B	EEE
4	20EUEE004	AJAY KUMAR B	EEE
5	20EUEE005	ALFIN J	EEE
6	20EUEE006	ANAND M	EEE
7	20EUEE007	ANUSH C	EEE
8	20EUEE008	ARAVIND KUMAR U	EEE
9	20EUEE009	ARAVINTH RAJ K P S	EEE
10	20EUEE010	ARULKARTHICK T	EEE
11	20EUEE011	ASWIN B	EEE
12	20EUEE012	BALAMURUGAN A	EEE
13	20EUEE013	BALAMURUGAN J	EEE
14	20EUEE014	BALASUNDAR V	EEE
15	20EUEE015	BARANIKUMARAN K	EEE
16	20EUEE016	BUVANESH M	EEE
17	20EUEE017	CHESIMA M	EEE
18	20EUEE018	DEEPAK M	EEE
19	20EUEE019	DHANAGOBAL J	EEE
20	20EUEE020	DHANISH BUHARI D	EEE
21	20EUEE021	DHINESH BALAJI S	EEE
22	20EUEE022	DIVYA DHANYA K	EEE
23	20EUEE023	ENIYAN E S	EEE
24	20EUEE024	GUNASEELAN C	EEE
25	20EUEE025	HARI KRISHNAN R	EEE
26	20EUEE026	HARINI S	EEE
27	20EUEE027	HARISH K	EEE
28	20EUEE028	HARRISH V	EEE
29	20EUEE029	HARSHINI S	EEE
30	20EUEE030	HEMADHARSHINI S	EEE
31	20EUEE031	HEMAPRIYA M	EEE
32	20EUEE032	HIRTHIKRAJ M	EEE
33	20EUEE033	JAYASURYA R	EEE

34	20EUEE034	JEEVA S	EEE
35	20EUEE035	KABILAN R S	EEE
36	20EUEE036	KAILAASH V	EEE
37	20EUEE037	KAVI RAAM PRANAU A	EEE
38	20EUEE038	KAVITHRA R	EEE
39	20EUEE039	KAVIYA M	EEE
40	20EUEE040	KAVIYA S	EEE
41	20EUEE041	KAVYA V	EEE
42	20EUEE042	KEERTHANA K A	EEE
43	20EUEE043	KIRUBANIDHI P S	EEE
44	20EUEE044	KIRUTHIK M	EEE
45	20EUEE045	KISHORE N R	EEE
46	20EUEE046	KRITHIK RAJU S	EEE
47	20EUEE047	LATCHIYA D	EEE
48	20EUEE048	LAVANYA V	EEE
49	20EUEE049	LAWRENCE D	EEE
50	20EUEE050	LOHENDHARA S	EEE
51	20EUEE052	MADHANA BALA S.K	EEE
52	20EUEE053	MADHUBALAN. S	EEE
53	20EUEE054	MADHU MITHA S	EEE
54	20EUEE055	MANJU BASHINI M	EEE
55	20EUEE056	MANSWINI P S	EEE
56	20EUEE057	MATHAV RAJ	EEE
57	20EUEE058	MATHESHWARAN V	EEE
58	20EUEE059	MATHURA R P	EEE
59	20EUEE060	MERVIN MATHEW J	EEE
60	20EUEE061	MITHRA SHREE R	EEE
61	20EUEE062	MOHAMED SHAMIR A	EEE
62	20EUEE063	MOHANAPRASATH A	EEE
63	20EUEE064	MOHANDHAS K	EEE
64	20EUEE065	MONISHWARAN E	EEE
65	20EUEE067	MURUGESH R	EEE
66	20EUEE068	NAVAYUVAN S	EEE
67	20EUEE069	OM PRAKASH K	EEE

68	20EUEE070	PARTHASARATHY M	EEE
69	20EUEE071	PRAKATHISHWARAN	EEE
70	20EUEE072	PRATHAP PRAKASH	EEE
71	20EUEE073	PRAVIN KUMAR S	EEE
72	20EUEE074	RAMAKRISHNAN V	EEE
73	20EUEE075	RAMSHI.S	EEE
74	20EUEE076	RAMYA C	EEE
75	20EUEE077	RANJITH G	EEE
76	20EUEE078	SANJAY BHARATHI K	EEE
77	20EUEE079	SANKARANARAYANAN G	EEE
78	20EUEE080	SANTHOSH MURUKAN S	EEE
79	20EUEE081	SATHISH KUMAR S	EEE
80	20EUEE082	SATHIYASEELAN C S	EEE
81	20EUEE083	SHALINI SRI V	EEE
82	20EUEE084	SHAM SUNDAR K	EEE
83	20EUEE085	SHARU SRI M	EEE
84	20EUEE086	SIVAMANIVASAN K	EEE
85	20EUEE087	SIVARAMAKRISHNA P	EEE
86	20EUEE088	SOWTHANYA J	EEE
87	20EUEE089	SURJITH SURYA	EEE
88	20EUEE090	SURYA M	EEE
89	20EUEE091	SURYA T	EEE
90	20EUEE092	SWETHA SRI K	EEE
91	20EUEE092	SUSMITHA U	EEE
92	20EUEE094	SYED ATHEEF M	EEE
93	20EUEE095	TEJA M	EEE
94	20EUEE096	THARANI S	EEE
95	20EUEE097	THARANIRAJ V P	EEE
96	20EUEE098	VAISHNAVI P	EEE

97	20EUEE099	VASUNDHRA RV	EEE
98	20EUEE101	VINOTH KUMAR K	EEE
99	20EUEE102	VISHNU RAJ C	EEE
100	20EUEE103	VISHNU VARSHNI K	EEE

*Peethamasi*  
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02.11.2023

### **CIRCULAR**

The Department of Information Technology in association with National Service Scheme is planning to conduct an outreach activity as a part of swachh Bharat . The event involves a visit to Central Market, Ukkadam on 07.11.2023. The event is planned to dispatch cloth bags to traders in order to avoid plastic bags which contaminates soil and environment. Interested NSS Volunteers are requested to register your names with the event coordinator for volunteering the above event.

  
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## Department of Information Technology



## Swachh Bharath Mission

மீண்டும்  
மஞ்சப் பை

An Awareness Programme among public

**Coordinator**  
**Dr K N Sivabalan**  
**Professor**  
**Department of IT**  
**SKCET**

**Date : 07.11.2023**  
**Venue : Ukkadam Market**

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**Report on the Event**

As a part of swatch Bharat Mission 2023, the Department of Information Technology, in association with National service scheme organized an outreach activity. A team of students and faculty of the IT Department visited Central Market Ukkadam, Coimbatore. The event was attended by vegetable Traders of Ukkadam market. One hundred Cloth Bags are dispatched to traders inorder to avoid plastic bags The Bags are dispatched by Dr K N Sivabalan Professor and Student Volunteers. The traders are advised by the team to use cloth bags and the disadvantages using plastic bags which contaminate soil.

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**Participants List**

<b>S No</b>	<b>Roll No</b>	<b>Name</b>	<b>Department</b>
1.	727722EUIT004	ABISHEK N	IT
2.	727722EUIT006	ADARSH A M	IT
3.	727722EUIT008	AGILAN P	IT
4.	727722EUIT013	AKSHARAA S	IT
5.	727722EUIT017	ARSHAD S	IT
6.	727722EUIT018	ARTIYA S.U	IT
7.	727722EUIT022	ASHWANTH S	IT
8.	727722EUIT023	ASWIN.S	IT
9.	727722EUIT025	AVANTHIKA PS	IT
10.	727722EUIT027	AYSHA SIDDIQUA N	IT
11.	727722EUIT028	AYSHWARIYAA DEVI R	IT
12.	727722EUIT029	BALAJI L	IT
13.	727722EUIT030	BALAJI NITHIN S	IT
14.	727722EUIT035	CHADHITYA R	IT
15.	727722EUIT038	DEEPAKKUMAR N	IT
16.	727722EUIT039	DHARANEESH V	IT
17.	727722EUIT042	DINESH KUMAR R	IT
18.	727722EUIT043	DINESH KARTHIK P	IT
19.	727722EUIT044	DIVAKAR R	IT
20.	727722EUIT045	DIVSHIKA S R	IT
21.	727722EUIT046	DIVYA J	IT
22.	727722EUIT049	DURKA M	IT
23.	727722EUIT051	GEETHANJALI S	IT
24.	727722EUIT053	GOBIKA A	IT
25.	727722EUIT057	GOWSHRI T Y	IT
26.	727722EUIT064	HARIHARAN A T	IT



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27.	727722EUIT065	HARSSHITHA K	IT
28.	727722EUIT070	INDRANI V	IT
29.	727722EUIT075	KABILASH M	IT
30.	727722EUIT079	KARTHIKA K	IT
31.	727722EUIT084	KIRUTHIKA U	IT
32.	727722EUIT085	KISHOR KUMAR S	IT
33.	727722EUIT087	KRISHNA PRASATH S	IT
34.	727722EUIT088	LAKSHANA.S	IT
35.	727722EUIT089	LAKSHITA S	IT
36.	727722EUIT092	LAYARANJITH M	IT
37.	727722EUIT093	LINGESH M	IT
38.	727722EUIT101	MADHUMITHA M	IT
39.	727722EUIT106	MITHUNAA	IT
40.	727722EUIT112	MUGILAN P	IT
41.	727722EUIT113	MUTHUTAMILARASU K	IT
42.	727722EUIT114	NAGARJUN S	IT
43.	727722EUIT117	NAVEENA S	IT
44.	727722EUIT120	NIHAL AHMED F Y	IT
45.	727722EUIT134	PRAVEEN T	IT
46.	727722EUIT135	PRIYADHARSHINI.D	IT
47.	727722EUIT140	PUJAA S.M	IT
48.	727722EUIT143	RAKSHITHA .M	IT
49.	727722EUIT148	ROGITH C	IT
50.	727722EUIT153	SUSMA N	IT
51.	727722EUIT153	SABITHA R	IT
52.	727722EUIT155	SACHITHA G	IT
53.	727722EUIT159	SANJAI H	IT
54.	727722EUIT162	SANJAY S	IT
55.	727722EUIT172	Shibi R	IT



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56.	727722EUIT173	SHREYA S	IT
57.	727722EUIT174	SHRI PAVAN K P	IT
58.	727722EUIT176	SIBIRAJ M R	IT
59.	727722EUIT177	Siva Prakash S	IT
60.	727722EUIT179	SONIKA N	IT
61.	727722EUIT183	SRINATH M	IT
62.	727722EUIT188	SUBESHA S	IT
63.	727722EUIT189	SUBHASHINI B	IT
64.	727722EUIT192	Sujay S	IT
65.	727722EUIT194	SUMITHA C	IT
66.	727722EUIT196	SUPREETHA T	IT
67.	727722EUIT201	THAMIZHYAAZHINI PU RA	IT
68.	727722EUIT204	THILOTHAMA K	IT
69.	727722EUIT205	Thilakh R	IT
70.	727722EUIT215	Yoga Balaji R	IT
71.	727723EUIT504	DHANUSAN R	IT
72.	727723EUIT506	KANISHKA S	IT
73.	727723EUIT508	RAMANA S	IT
74.	727723EUIT511	SHARAD S N	IT
75.	727723EUIT513	TARIKA P	IT

*Peethamasi*  
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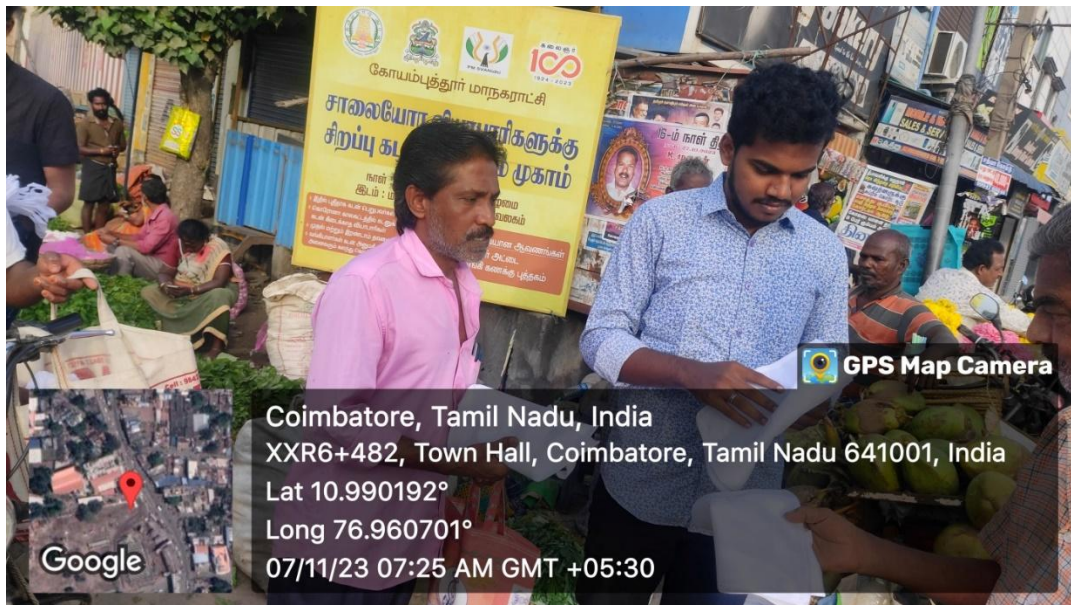
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**Photos of the Event**





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**Photos of Dispatching cloth Bags to Traders in Ukkadam Market**

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Coimbatore - 641 008.



## 7.1. Institutional Values and Social Responsibilities

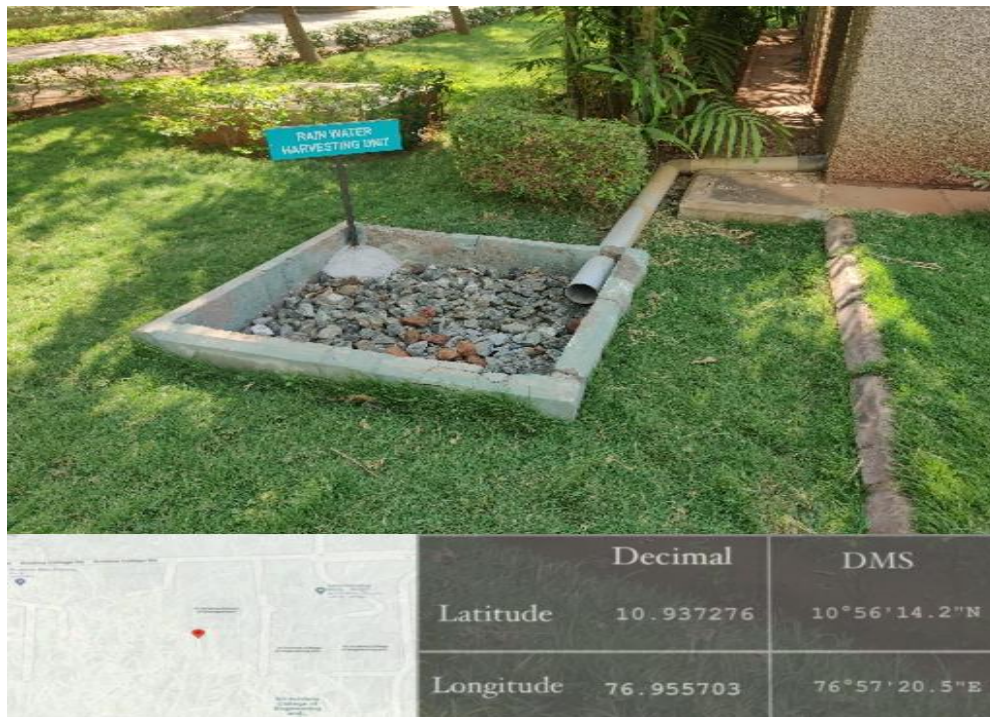
### 7.1.4 Water conservation facilities available in the Institution

SKCET has established various water conservation measures to harvest and recycle the water from the sources in the campus.

#### RAINWATER HARVESTING

Conventional rainwater harvesting pits measuring 02 feet x 02 feet in size have been established around the campus to collect the rooftop runoff. Rainwater is collected from a roof-like surface and redirected to a pit so that it seeps down and restores the groundwater.

##### (a) Conventional Rainwater Harvesting Pit



**Rainwater harvesting pit (Long view)**



**Rainwater harvesting pit (Top view)**

#### **(b) Perforated Drain Channel**

Perforated land drain is used to collect water through the small holes located around the pipe. These holes allow water to seep from the ground into the pipe and be carried away over the drains directly into the drainage channels. This finally reaches the sewage treatment plant operated inside the campus. Here, the collected water is treated efficiently and reused for gardening, vehicle cleaning and toilet sanitation.



**Perforated drain channel slabs (Close view)**



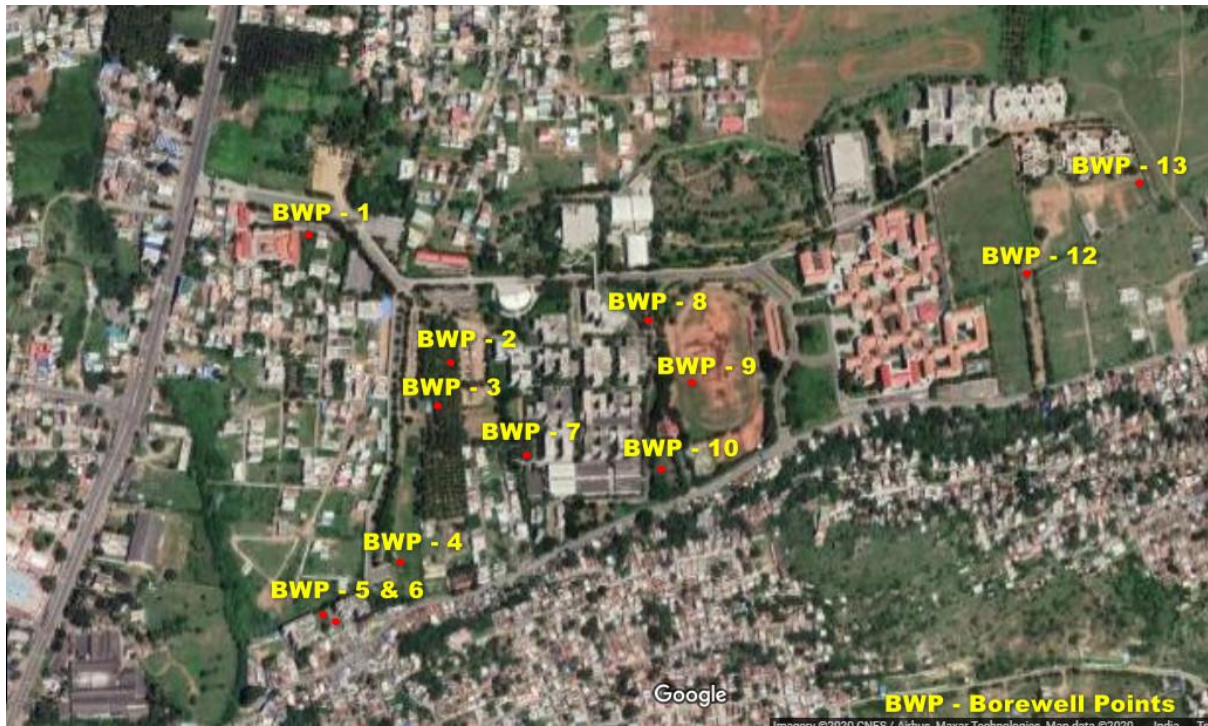
**Perforated drain channel slabs (Long view)**

## **BOREWELL /OPEN WELL RECHARGE**

The institute has installed 45 number of borehole points and 13 number of borewells within the campus to recharge the groundwater from runoff.



**View of the bore well recharge facility**



**Map of Borewell points inside the campus**

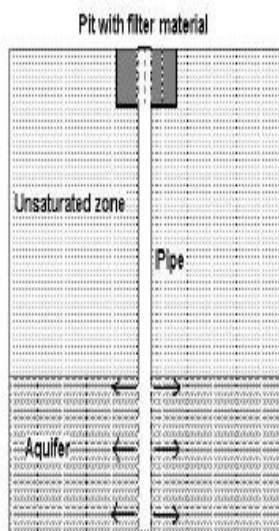
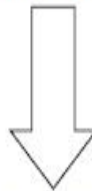
## **BOREHOLE FOR GROUNDWATER RECHARGE**



**RAINWATER**



**CHANNEL WITH CHECKDAM**



**AQUIFER RECHARGE**



**BOREHOLE**

### **SPECIFICATIONS**

Total number of Borehole: 45  
No's

Pit Diameter: 150 mm

Borehole Depth: 100 Ft

Slotted Pipe Length: 20 Ft

Total Slotted Pipe in each Pit: 5  
No's

Distance Between each Pit: 30 Ft

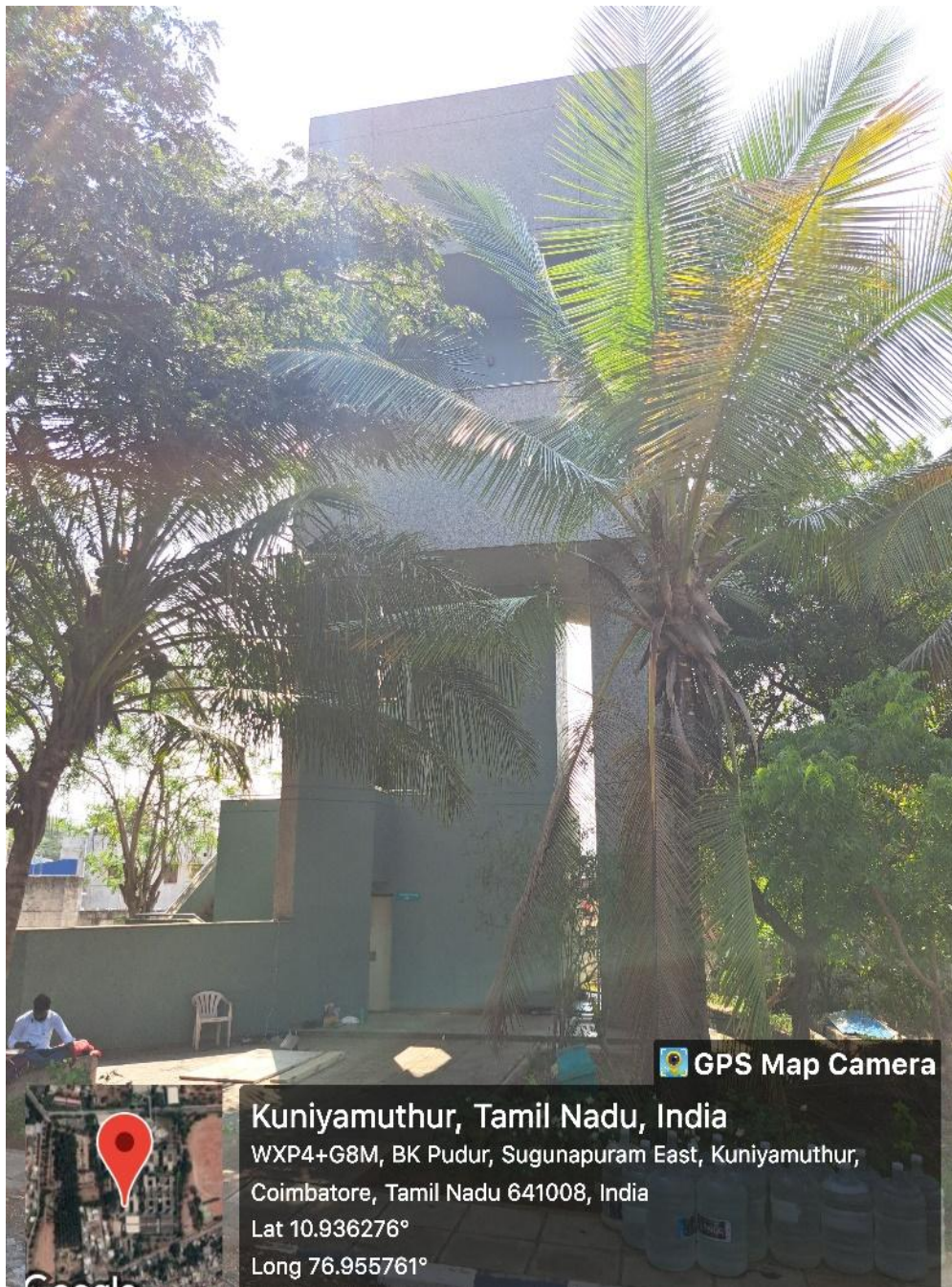
Purpose of Check dam: To reduce  
Velocity of Water Flow

Purpose of Borehole: To recharge  
Groundwater.

## CONSTRUCTION OF TANKS AND BUNDS

Institute has dedicated water tank to store and supply water to the entire campus requirement. The water is drawn from the borewell and stored in the OWT. From OWT it is distributed through underground pipelines to the destination points.

### Overhead Water Tank (OWT)



**Overhead Water Tank**

## Bunds / Check dams with percolation pits by deep bore holes

Percolation pits along the runoff channels with a check dam facility have been built. Around 45 pits were excavated along the flow channel each measuring a depth of 100 feet. The check dams were constructed adjacent to each pit along the channel to store a minimum quantity of water in each chamber to recharge the groundwater and the excess water overflows to the next chamber along the channel.



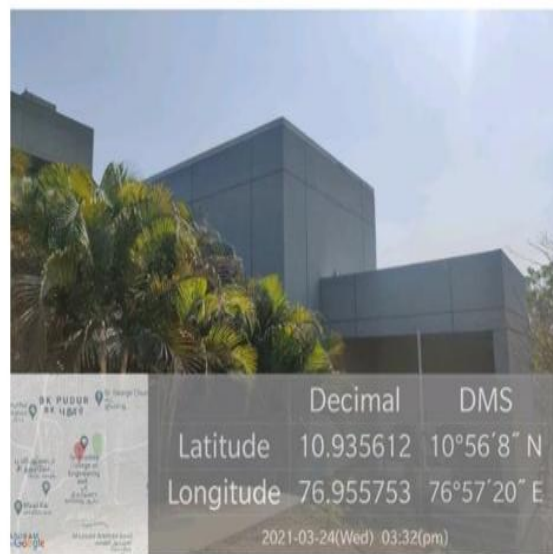
**Check dam along the runoff channel with percolation pits (Dry Season)**



**Check dam along the runoff channel with percolation pits (Rainy Season)**

## WASTE WATER RECYCLING

The campus wastewater discharged from restrooms, canteen and washing area are recycled through Sewage Treatment Plant installed inside the campus with a capacity of 450KLD. The treated wastewater is reused for gardening, flushing in toilets and cleaning vehicles.



### Overview of Sewage Treatment Plant



### Primary treatment units



**Secondary treatment units and treated water storage area**

**Sri Krishna College of Engineering and Technology, Coimbatore**

**Sewage Treatment Plant Layout**

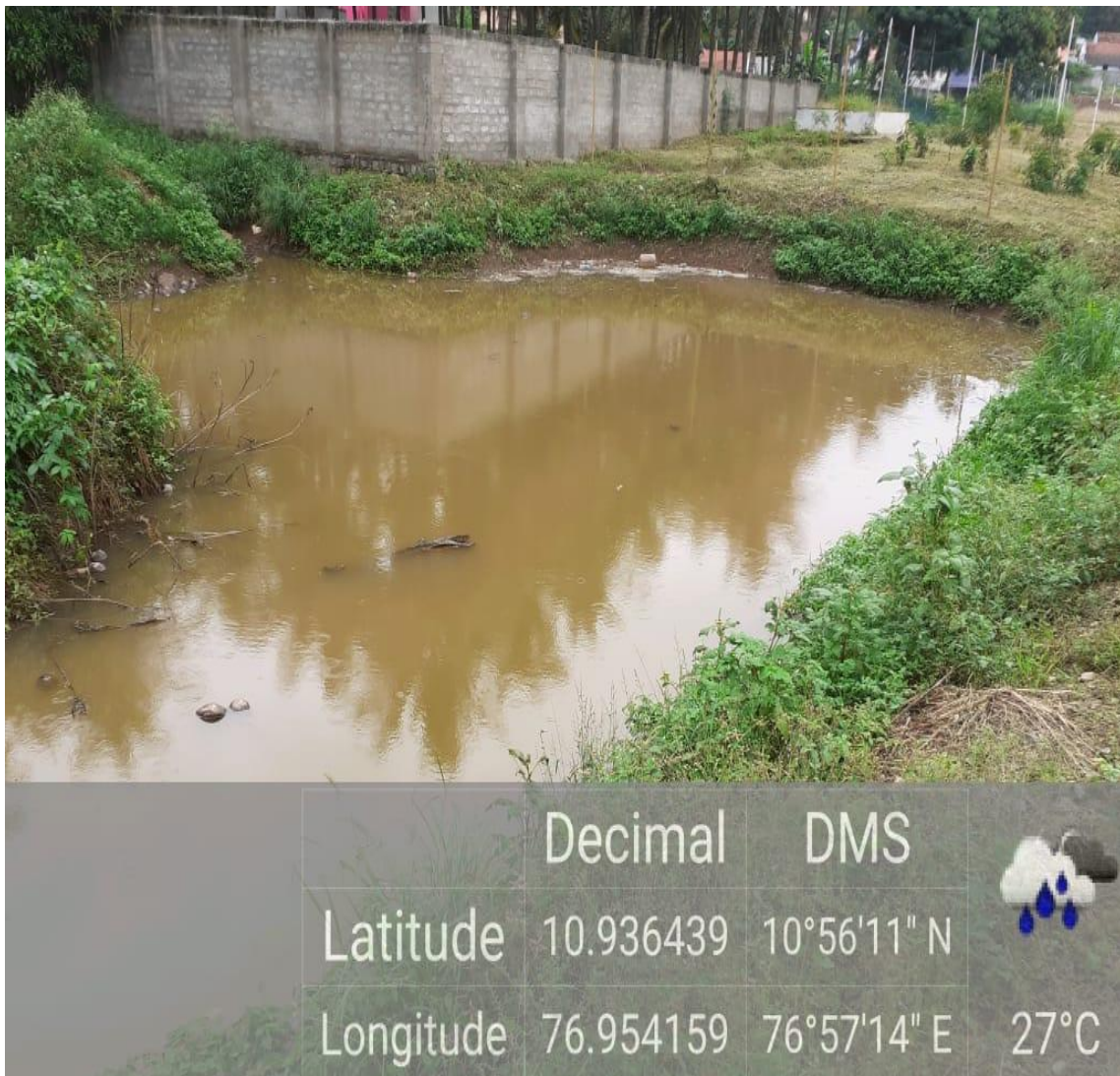


**Google map layout showing the Sewage Treatment Plant and the collection stations**

## MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS

### Percolation Pond

Percolation pond is the most effective runoff harvesting structure inside the campus. An artificial percolation pond, holding 20,000 liters, is dug after assessing the landscape and existing drains to trap and retain rainwater runoff from roads and paved surfaces during intense rainfall. This extended retention period contributes to replenishing the local groundwater supply within the pond's area of influence.



**Runoff collection Pond**

## Distribution system

The water from borewell is pumped to ground level tank to overhead tank and is stored and distributed throughout the campus. The water is distributed through well laid pipe network to all areas inside the campus. Entire distribution system is well supervised by Civil works committee to ensure that there are no leakages and wastage of precious water through joints, valves etc. Maintenance of distribution system is taken care by the dedicated staff members (Plumbers). Whenever the problems are identified immediate actions are taken to avoid wastage of water. Drinking water is supplied from the institute RO plant through water containers regularly based on the seasonal demand.



**Distribution pipes in C2 class block**



**Distribution pipes in MCA block (Left side) and Admin block (right side)**




**RO plant front view**



**Filtration units inside RO plant**



 GPS Map Camera

Coimbatore, Tamil Nadu, India

WWJJ+544, Arivozi Nagar, Coimbatore, Tamil Nadu 641105,  
India

Lat 10.929095°

Long 76.931624°

**Filtered water storage unit**



**Filtered water to water cans for distribution**



**Distribution of water cans from RO plant**



**Drinking water facility in blocks**