

### *7.1.2. Environmental Consciousness and Sustainability and Divyangjan Friendly Initiatives*

#### *1. Alternate sources of energy and energy conservation measures*

EWIT is committed to reduce the quantity of energy consumed without in any way diminishing the quality of the services that the use of energy provides. The institution has 3Ps (that is **Pace, Plan and Prioritize**) to monitor the daily activities which help to save energy.

Based on the sanctioned load the conservation of Energy is planned.

**Sanctioned Electrical /Generator load from KPTCL is 250kva**

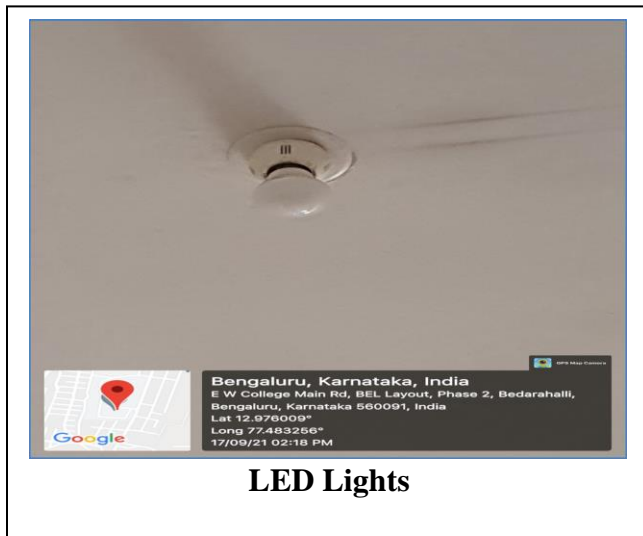
ENERGY RESOURCE DETAILS			
SL NO	NAME	LOCATION	CAPACITY & Nos
1.	UPS	Main Block 1 <sup>ST</sup> FLOOR	32KVA - 1 30KVA- 1
		Main Block 3 <sup>rd</sup> FLOOR	40KVA-1
		Main Block 6 <sup>th</sup> FLOOR	32KVA-1
		BASEMENT	40KVA-1 30KVA-1
		CMM BLOCK	40KVA-1 30KVA-1
2.	GENERATOR	NEAR CANTEEN	125KW
		HOSTEL	125KW
3.	BATTERIES		240
4.	TRANSFORMERS	LOAD/CAPACITY – 500KW	
6.	SOLAR	260 W	
7.	WIND MILL	640W	

Energy consumption does not only vary by equipment type but also has a temporal dimension. Therefore the breakdown for different periods of time is a relevant factor in the measuring of energy consumption. The efficiency of less consumption is contributed in various ways which has been listed below.

## LED Lighting:

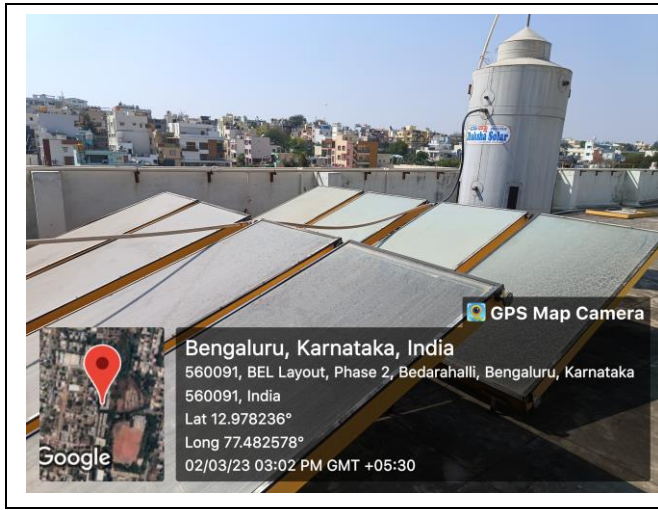
LEDs are small, solid light bulbs that are powerful, energy-efficient, and long-lasting. Most of the lights in the campus are replaced by LED Lighting.. The advantages of using LED lighting are as follows:

- LEDs generally consume very low amounts of power. The statistics to look for when comparing the energy efficiency of different lighting solutions are called by one of two terms: luminous efficacy or useful lumens. These two items essentially describe the amount of light emitted per unit of power (watts) consumed by the bulb. In our experience most LED lighting retrofit projects result in a 60-75% improvement in the overall energy efficiency of the facility's lighting. Depending on the existing lights and the particular LEDs installed, the savings could be more than 90%.
- The most significant advantage of LEDs when compared to traditional lighting solutions is the long lifespan. The average LED lasts 50,000 operating hours to 100,000 operating hours or more. That is 2-4 times as long as most fluorescent, metal halide and even sodium vapor lights. It is more than 40 times as long as the average incandescent bulb.
- Less frequent replacement means two big things: lower maintenance costs in terms of labor and lower costs for replacement parts (because the bulbs simply do not fail for a long time).



  
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## Solar Water Heaters and Solar panels:



Solar water heaters of 8000 Liters capacity are used in both Boys and Girls hostels. The advantage of solar water heaters over the conventional water heaters are as follows:

Solar water heating systems cost more to purchase and install than conventional water heating systems. However, a solar water heater can usually save money in the long run.

How much money can save depends on the following:

- The amount of hot water usage
- System's performance
- Geographic location and solar resource
- The cost of conventional fuels that conventional water heater would otherwise use (natural gas, oil, or electricity)

On average, with a solar water heater, water heating bills should drop 50%–80%. Also, because the sun is free, we are protected from future fuel shortages and price hikes.

## Solar Power Provides Unlimited and Reliable Energy:

While fossil fuels are a finite source of energy, solar power is not. Designed to work on cloudy days, in part sun, and even in wintery environments, solar panels can generate a significant amount of power. Solar Power will reduce operating costs also along with other advantages.

### Advantages of Solar Energy:

1. It is a renewable source of energy
2. Reduces Electricity Bills
3. Diverse Applications
4. Low maintenance costs

A solar panel with 260 W capacity has been installed in the campus.



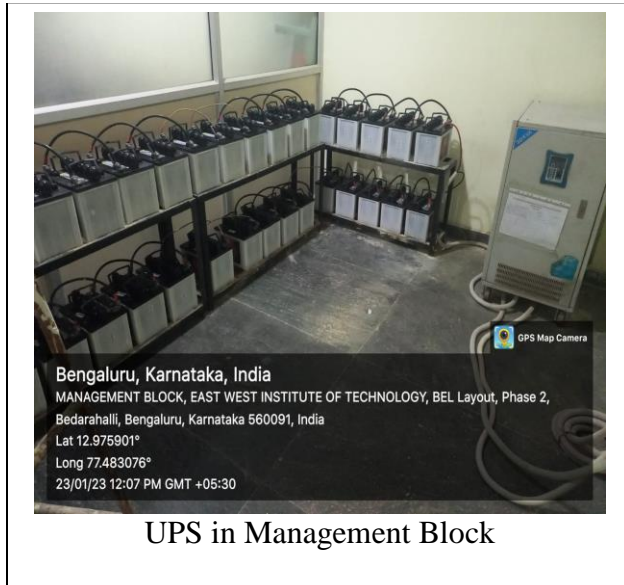
  
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East West Institute of Technology  
Bengaluru - 560 091.

### Wind Energy Systems:

As the institution campus is uniquely suited to wind mill installation, an experimental micro turbine wind mill with a 640 W capacity has been installed in the rooftop. This is used to facilitate a computer lab. This reduces electricity costs as well as provides learning opportunities for students.

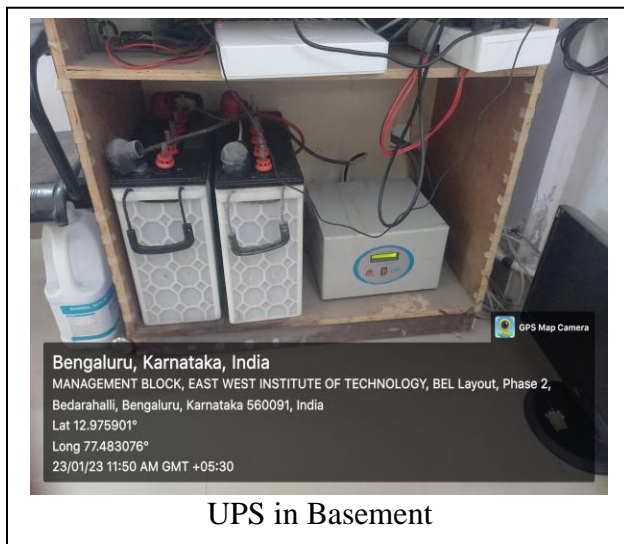


### Uninterrupted Power Supplies (UPS):



UPS in Management Block

274 KVA capacity Uninterrupted Power Supplies (UPS) are installed at various levels in different buildings in the campus to avoid the use of diesel generators during power failures. This not only saves the use of fossil fuel dependency but also enhances the performance of all stakeholders in the campus by uninterrupted power.



UPS in Basement



UPS in CMM Block

*D. H. Chauhan*  
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Bengaluru - 560 091.



Transformer



Generator



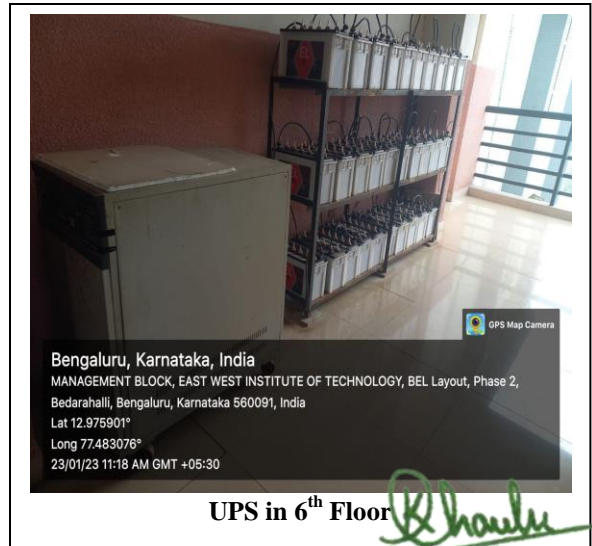
Generator at Boys Hostel



UPS in 2<sup>nd</sup> Floor Main Block



UPS in 3<sup>rd</sup> Floor , in main Block



UPS in 6<sup>th</sup> Floor

*7.1.2. Environmental Consciousness and Sustainability and Divyangjan Friendly Initiatives*

*2. Management of the various types of degradable and non-degradable waste*

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

EWIT ensures 5R principles in waste management that helps to make our environment more breathable and eco-friendly.

The 5R principle refers to the waste management process done through reduce, reuse, recycle, recover and residual management. Let us understand each of these processes to discover how useful they are and should we follow them or not.

Following are the 5R principle-

**Reduce-** this process refers to the condition when we use less in order to avoid waste or over usage.

**Reuse-** in this process we try to use a product many times and again for various purposes

**Recycle-** this refers to the process of collecting things like plastic, paper, metal etc. and making new products from them instead of buying new one.

**Recover-** this refers to a process of converting a waste into a resource.

**Refuse-** this refers to the situation where we say no to a product that is

harmful for our environment.

With the help of 5R we can reach a place where we avoid as much waste as we can and even come up with ideas to use waste in a creative way leading a better life.

### **The following are the actions taken by the institution in waste management**

The institution facilitates several techniques for the management of degradable and non-degradable waste. The primary focus is to reduce, reuse and recycle the waste. The institution management has also advised to refuse anything which is not required and has taken various measures to improve waste management in the campus.

### **Solid Waste Management System:**

The solid waste generated in the campus is collected, in two different colored bins (green and red) for different types of garbage. One for wet waste like food and the other for collecting plastic, cardboard, metals, rubber, glass etc. The collected waste in the campus will be collected by the BBMP ward collection truck for the disposal.



Various awareness programs on waste management have been organized in the institution. Students were taken to BBMP waste segregation center situated at Kengeri, (Bengaluru) where the dry waste will be recycled and wet waste will be treated to produce manure. Here the

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**Principal & Director**  
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**Bengaluru - 560 091.**

students were exposed to the different kinds of waste.



**Students at the BBMP Waste Segregation Center**



**Dry and Wet Waste processing Center**



**Solid Waste Processing Unit, Sigehalli**



**Solid Waste Processing Unit, Sigehalli**





**Students' visit to Solid Waste processing plant**



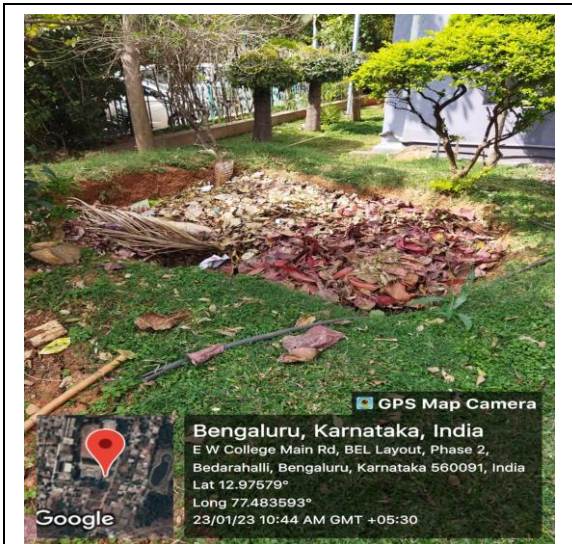
**Solid Waste Processing Unit, Sighalli**

Students also understood the processing of wet waste into organic manure. The processing of dry waste into reusable plastic and oil was also seen.

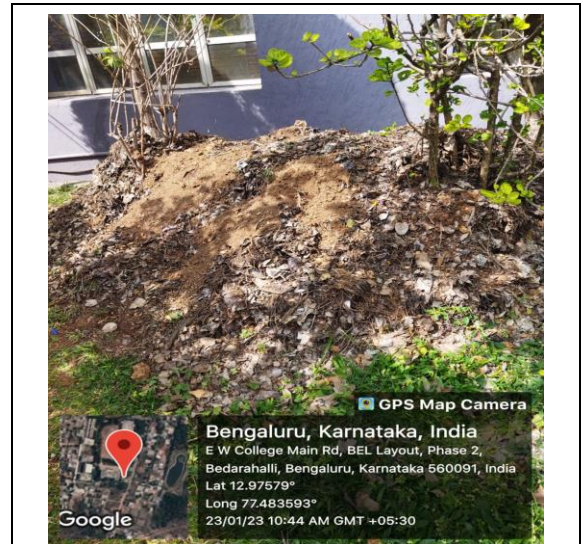
**Dry Waste Management:**

The dry wastes produced in the institution such as plastic, metals, papers, cardboards will be given to local scrap shops for recycling.

**Organic / Wet Waste Management:**



**Dumped wet waste to produce manure**



**Prepared manure**

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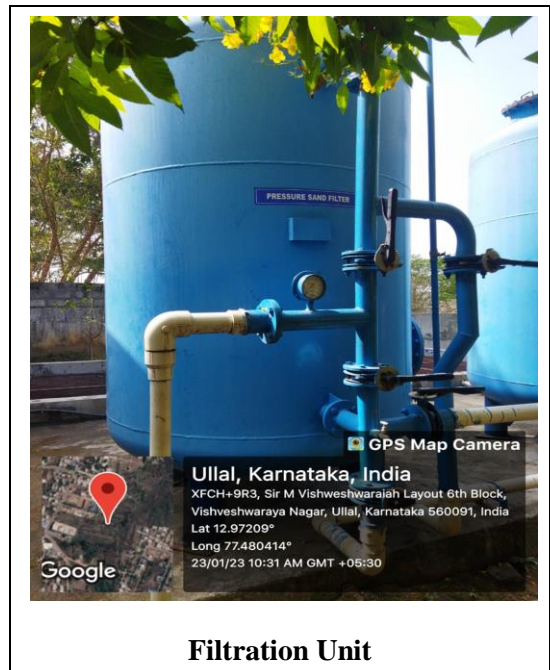
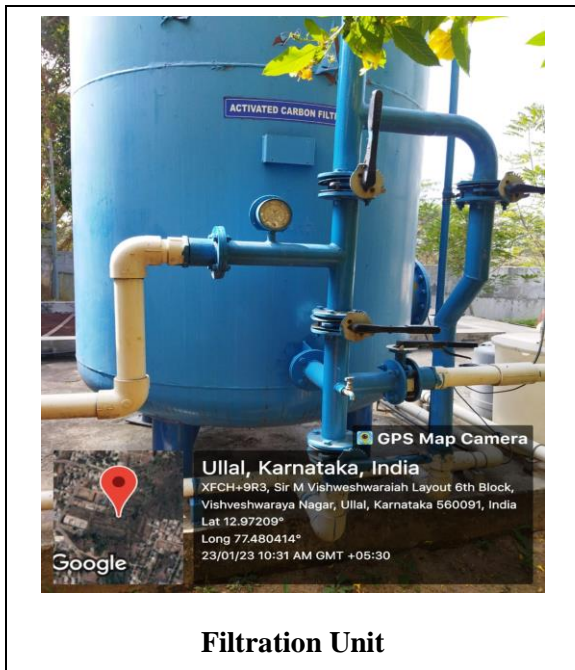
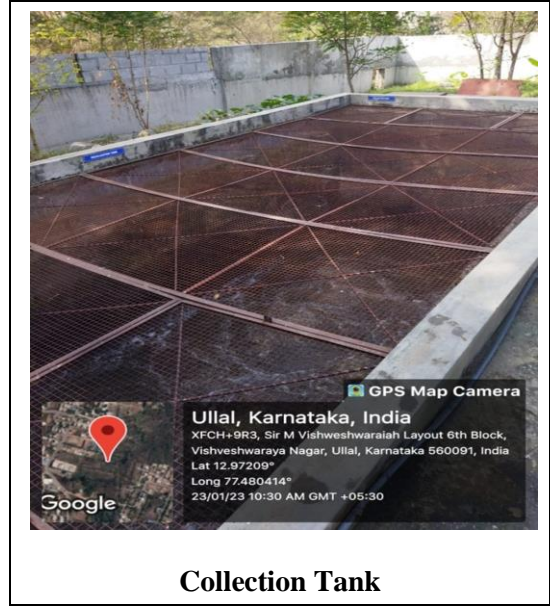
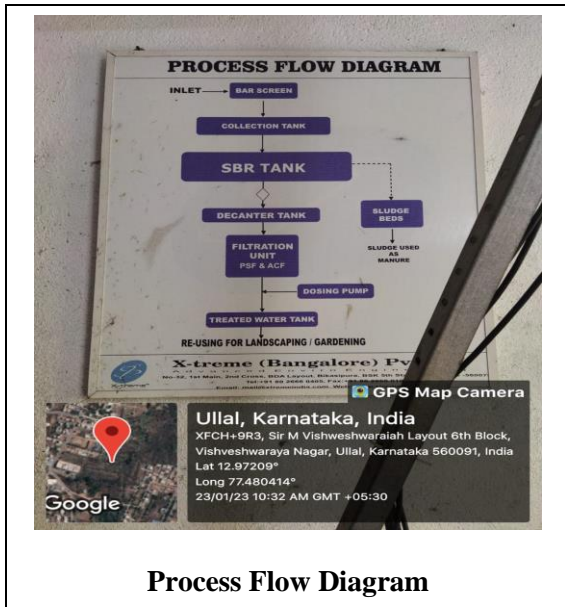
The organic/ wet waste produced such as tree leaves on campus is collected and dumped in a pit for prepare manure. There are 4-5 such pits for dumping wet/organic waste. The manure produced is used to grow plants and trees in the campus. **Our Institution is also a member of Swatch Bharat Mission, an AICTE initiative.**

**Chemical Waste Management:** EWIT ensures that the waste water generated in chemistry laboratory will be neutralized by using sodium hypochlorite and used for gardening.

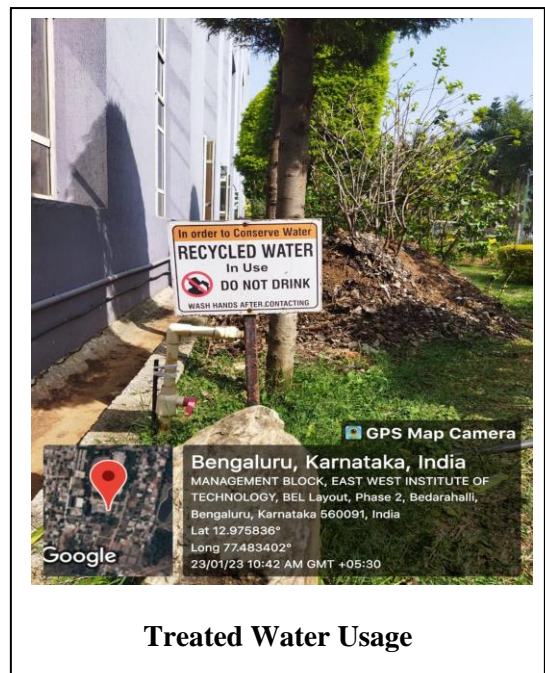
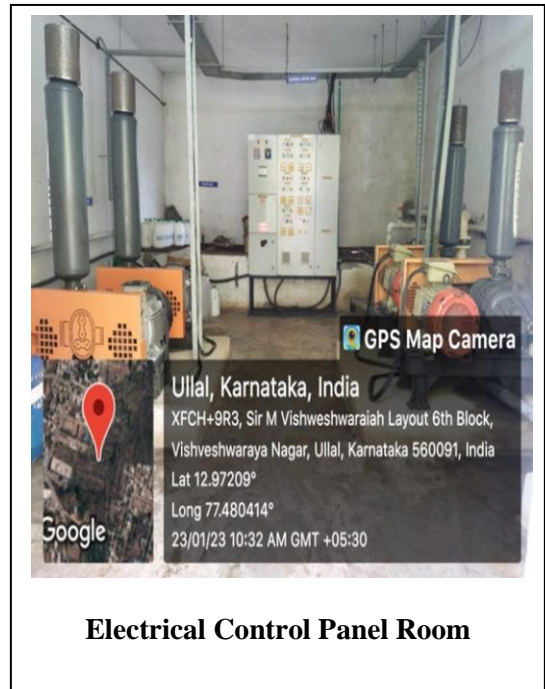
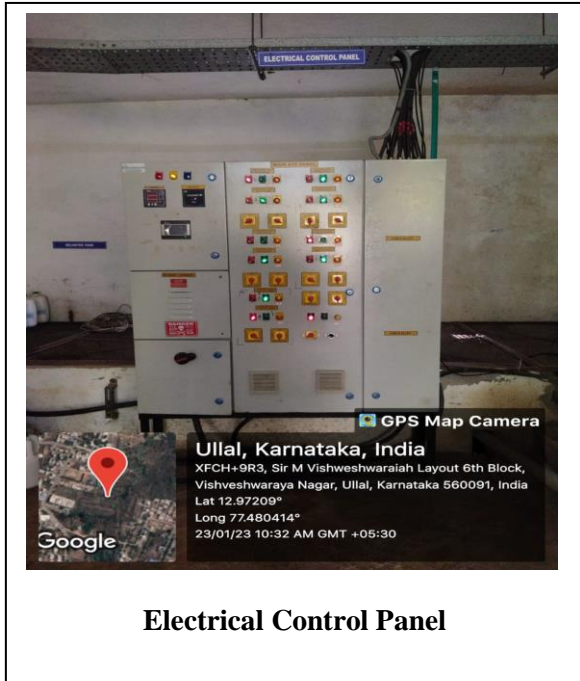
 Subramanya Education Society ® <b>EAST WEST INSTITUTE OF TECHNOLOGY</b> <small>(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka, Accredited by NAAC &amp; Recognized U/S 2 (f) and 12 (B) of the UGC Act 1956) # 63, Off Magadi Main Road, Vishwaneedam Post, Near Anjona Nagar, Bengaluru - 560091 Ph : 080-23286732 ; Fax : 080-23288244 ; Email : principal@ewit.edu.in ; Website : www.ewit.edu.in</small>	
Ref. No. EWIT/2020-21/095	Date: 16/03/2021
<b><u>TO WHOM EVER SO CONCERN</u></b>	
This is to certify that the waste water generated from chemistry laboratory is collected in a separate tank and then neutralized with the chemical sodium hypochlorite (4%) till the pH of waste water reaches 7-8, it is then used for gardening purpose. This process is carried out at the end of each semester.	
The chemicals used for lab experiment are not hazardous substances. This treatment process is carried out under the oral guidance of Karnataka State Pollution Control Board, Govt. of Karnataka, Bengaluru district.	
 HoD, Dept. of Chemistry HOD of Chemistry East West Institute of Technology Bengaluru-560 091	 Principal Principal East West Institute of Technology Off. Magadi Main Road, Bengaluru-91

  
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**East West Institute of Technology**  
**Bengaluru - 560 091.**

**Sewage Treatment Plant (STP):** There is a Sewage Treatment Plant of 350 Kilo Litre capacity. Waste water received from domestic, commercial, and residential sources is treated by removing toxic materials that may otherwise cause damage to the environment. All sewage and liquid waste are treated in the STPs and used for irrigation of landscaping and gardening projects within the campus.



*R. Hauke*  
**Principal & Director**  
**East West Institute of Technology**  
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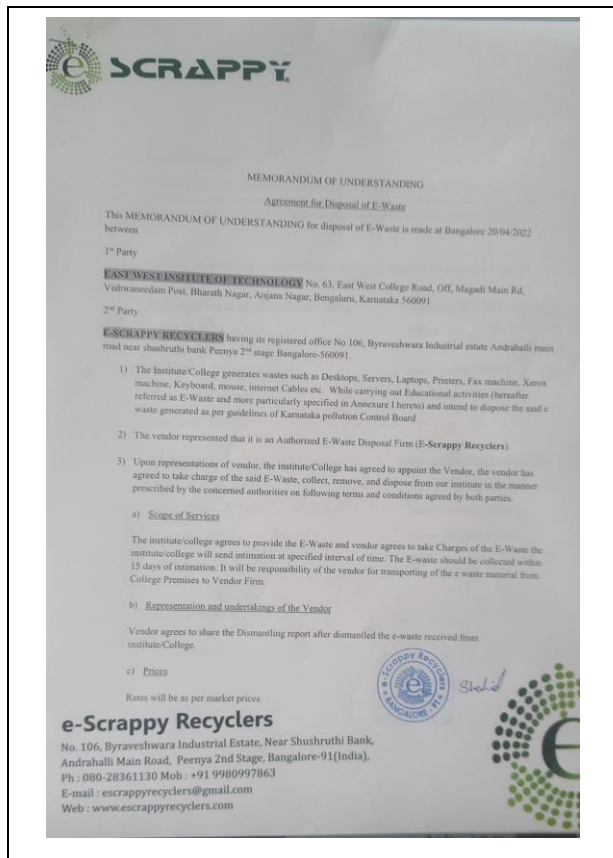


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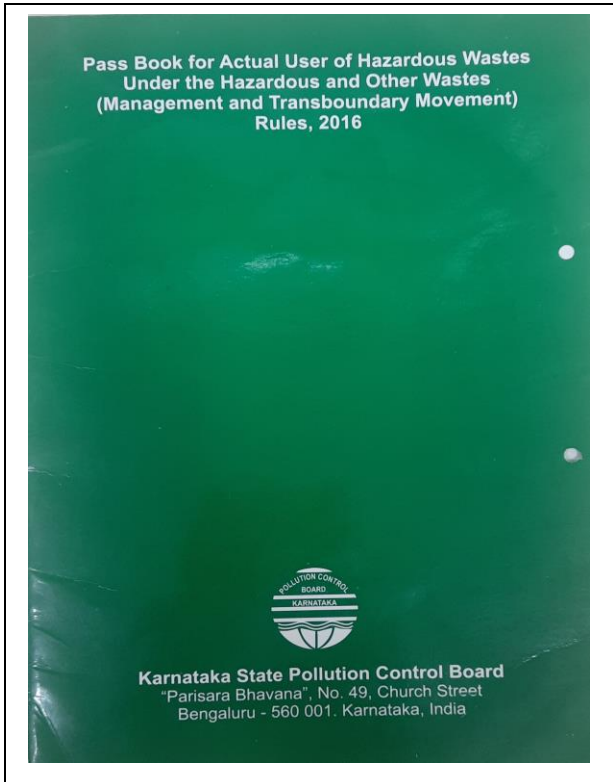
## E-Waste Management:

E - Waste management seeks to recover and process the electronic waste and recycle or refurbish it to make useful. But electronic recycling can be challenging especially because these devices are sophisticated and manufactured from various proportions of components such as glass, metals and plastics. Depending on the type of electronics, the process of recycling and refurbishing may change.

In view of this EWIT has signed a Memorandum of Understanding (MoU) M/s E-Scrappy Recyclers, Bangalore for careful disposal of E-waste. The details are as follows:



  
Principal & Director  
East West Institute of Technology  
Bengaluru - 560 091.



000135

Pass Book for "Actual User" of Hazardous Wastes under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016  
[See Rule 6 (7)]

Name and Address : M/S. E.Scrappy Recyclers,  
 Of the Occupier : No. 106, Byravanthram Industrial Estate, Near Sankarthe Bank, Andankhalli Main Road, Near Peenya T-Station, Bengaluru - 560091  
 Telephone / Fax No. : 080 - 28361130  
 Mobile No. : 9980997863  
 E-mail Address : escrappyrecyclers@gmail.com  
 Authorization No. : PCB/1434/HNMC-11/2022-23/2855 dt: 26/07/2022  
 Date of Issue : 26/07/2022  
 Validity Period : upto 30/06/2027

Type and Quantity of Hazardous and Other Wastes Permitted

Sl. No.	Category No. & Type of Hazardous and Other Wastes as per Schedule I, II, III & IV	Quantity (MTPA or KLPA)
1	<u>E-waste Recycling with Recovery of Precious metals like gold, Silver, Palladium, Platinum, Rhodium, Alumina, Silicon Catalyst by chemical process</u>	<u>360MT/A</u>
2	<u>E-waste Refurbishment</u>	<u>360MT/A</u>

Authorized Signatory & Seal  
**MEMBER SECRETARY**  
 Karnataka State Pollution Control Board  
 Bengaluru

(As per Rule 3(2) "Actual User" means an occupier who processes and processes hazardous and other waste for recycling or reprocessing)

**Conditions of the Pass Book:**

- The Actual User shall submit copies of the valid consents and authorization also to the auctioneer/seller at the time of each procurement.
- The actual user shall be responsible to ensure that the quantity of the wastes (s) procured each time is endorsed in this Pass-Book by the authorized seller/auctioneer.
- The Actual User shall obtain copy of the analysis report of the Hazardous and Other Waste from the generator at the time of each procurement and submit the same to KSPCB.
- The Actual user shall not rent / lend / sell / transfer this Pass-Book.
- Any change in the Actual User technology, disposal facility and equipment shall only be carried out with prior permission of KSPCB.
- The Actual user shall submit quarterly reports of Hazardous and Other Waste, quantity of the products manufactured and sold (supported with central Excise / Sales Tax details), quantity of waste generation and its mode of disposal to KSPCB.
- The actual user shall submit certified copy of the Pass-Book once in six months to the Board Office and to the concerned Regional Office.
- The Actual user shall obtain fresh Pass Book after the expiry of authorization/completion of all pages in the Pass-Book only after submission of certified copy of the entire old Pass Book.
- The Actual user shall transport the Hazardous and Other Waste only in the vehicle authorized by KSPCB.

Authorized Signatory & Seal  
**MEMBER SECRETARY**  
 Karnataka State Pollution Control Board  
 Bengaluru

**Endorsement by the Occupier (except col no. 7, 8 & 9)**

Authorization No. : PCB/1434/HNMC-11/2022-23/2855 Date : .....

Sl. No.	Date & issuance No.	Address of the Occupier	Type & Quantity of hazardous and Other Wastes Handled over	Registration No. of the Vehicle Authorized by the Board for transportation of Hazardous Waste	Signature & seal of the Occupier with Date	Date of arrival in Actual User Premises	Cumulative Quantity	Balance Quantity (Authorized Quantity - Cumulative Quantity)
(1)	(2)	(3)	(4)	(5)	(6)	(7)*	(8)*	(9)*
	07/01/22	Telara P. H. A. Dababalli, Bangalore - 560091	Accumulated waste 140 kg	TS 2174	[Signature]			
	14/01/22	Bogalavara, Bangalore - 560091	Accumulated waste 1.958 MT	TS 2174	[Signature]			
	09/02/22	Bogalavara, Bangalore - 560091	Accumulated waste 1 Lot	TS 2174	[Signature]			
	09/02/22	Bogalavara, Bangalore - 560091	Accumulated waste 64 Nos	TS 2174	[Signature]			
	10/02/22	East West Institute of Technology, Bengaluru	Accumulated waste 1 Lot	TS 2174	[Signature]			


\* To be filled by the Actual User

*R. Shankar*  
**Principal & Director**  
**East West Institute of Technology**  
**Bengaluru - 560 091.**

**EAST WEST INSTITUTE OF TECHNOLOGY**  
BENGALURU - 91  
**Circular**

No. EWIT/CIR/2022-23/037 Date: 13.03.2023

All HoD's are hereby Informed to send the E-waste Scrap available in the Departments to Ground floor Sir M.V.Seminar hall. Components like SMPS, Hard disk, Keyboard, mouse, monitor (LCD, LED, CRT) CPU cabinet, PCB boards, Circuits, and any other miscellaneous  
E-waste Scrap should be sent by 14/03/2023 without fail

  
**Principal**  
East West Institute of Technology  
Off. Magadi Main Road, Bengaluru-91

**EAST WEST INSTITUTE OF TECHNOLOGY**  
(Affiliated to VTU, Belagavi), Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka, Accredited by NAAAC & Recognized U/S 2(f) and 12(B) of the UGC Act 1956  
# 63, Off Magadi Main Road, Vishwanedam Post, Near Anjana Nagar, Bengaluru - 560 091  
Ph: 080-23286732; Fax: 080-23288244; Email: principal@ewit.edu.in; Website: www.ewit.edu.in

Date: 14/03/2023

To  
M/s. E-SCRAPPY RECYCLERS  
No 106, Byreshwara Industrial estate Andrahalli main road Peenya 2<sup>nd</sup> stage Bangalore-91  
GST no:29AADFE4318012X




SUB: Material List and Cash Receipt of E-Waste Scrap-Refid-EW/EWIT/ECR/16/03/2023

Ref: Our MOU dated 22/04/2022 for disposal of e-waste

We have disposed the E-waste material to Vendor M/s. E-SCRAPPY RECYCLERS No.106, Byreshwara Industrial estate Andrahalli main road Peenya 2<sup>nd</sup> stage Bangalore-91. The total net weight of E-waste is 1818.95kg and the total amount of Rs.42417/- (Forty two thousand four hundred and seventeen) have been received. The E-Waste material disposed details is given below

S/No	Items	Weight	Rate Per Kg	Total
1	Lan Cables	66	30	1980
2	Normal Cables	30.55	27	825
3	SMPS+CPU FAN	104.85	32	3355.22
4	PCB+HARD DISK	53.25	32	1704
5	KEYBOARD + MOUSE	101.45	12	1217.4
6	CPU CABINET	706.95	30	21208.5
7	LCD MONITOR	48.75	25	1218.75
8	CRT MONITOR	646.95	15	9704.25
9	PRINTERS	60.2	20	1204
TOTAL WEIGHT		1818.95		42417

NOTE:  
1. The vendor has to pay GST amount through Reverse charge means (RCM) and acknowledge should be submitted to the college.  
2. The dismantling report should be submitted within week from date of E-Waste material disposed.

 HR-Manager  
 System Analyst  
 Director  
**Principal**  
East West Institute of Technology  
Off. Magadi Main Road, Bengaluru-91

**E-SCRAPPY**

To  
PRINCIPLE  
EAST WEST INSTITUTE OF TECHNOLOGY  
No. Off Magadi main road Vishwanedam post near Anjana Nagar Bangalore-560091


Date:04/04/2023

Sub: Dismantling report as per the material received EW/EWIT/ECR/16/3/2023 date 16/03/2023

Detailed Annexure

S/No	Items	Weight in Kg
1	Lan cables	66
2	Normal cables	30.55
3	Smss + cpu fan	104.85
4	PCB+Hard disk	53.25
5	Keyboard+Mouse	101.45
6	CPU Cabinet	706.95
7	LCD Monitor	48.75
8	CRT Monitor	646.95
9	Printers	60.2
Total Weight		1818.95

The material is dismantled safely as per norms of Karnataka State Pollution Control Board.

  
Authorized Signatory  
E-SCRAPPY RECYCLERS

**e-Scrappy Recyclers**  
No. 106, Byreshwara Industrial Estate, Near Shushruthi Bank, Andrahalli Main Road, Peenya 2nd Stage, Bangalore-91(India).  
Ph : 080-28361130 Mob : +91 9980997863  
E-mail : escrappyrecyclers@gmail.com  
Web : www.escrappyrecyclers.com

**E-SCRAPPY RECYCLERS**  
No.106, Byreshwara Industrial Estate, Andrahalli Main Road, Peenya 2nd Stage, Bangalore - 560091, India  
Mobile: +91 9980997863 Email: mdiyaya@escrappyrecyclers.com Website: escrappyrecyclers.com  
An ISO 14001:2004 & 9001:2008 Company  
**Certificate Of Destruction**

To : EAST WEST INSTITUTE OF TECHNOLOGY, #63, Off Magadi Main Road, Vishwanedam Post, Near Anjana Nagar Bangalore Karnataka - 560091

Date : 16-03-2023  
Ref No : 14344  
RNT No :  
PC Code :

C/O :

Dear Sir / Madam,


This is to certify that E SCRAPPY RECYCLERS Destructed the materials stated below



S/No.	Description	Net Weight (Kg)
1	E-WASTE	1818.95 KGS

This Load Consists of 1818.95 Kgs Kg of tare weight

Destruction Date: 04-04-2023

E-Scrappy destroyed and recycled all parts in accordance with requirements Eco Friendly Manner

Approved By :   
Name :  
Designation : Director of Marketing & Operations

**Institution does not produce any type of Bio medical, Hazardous chemical as well as radioactive waste.**

  
**Principal & Director**  
East West Institute of Technology  
Bengaluru - 560 091.

## *7.1.2. Environmental Consciousness and Sustainability and Divyangjan Friendly Initiatives*

### *4. Green Campus Initiatives*

The institutional initiatives for greening the campus are as follows:

- Restricted entry of automobiles
- Battery-powered vehicles
- Pedestrian-friendly pathways
- Ban on the use of Plastics
- Landscaping with trees and plants

East West Institute of Technology dreams of an essential campus implementing green concepts. EWIT believes in education that stays committed to the maintenance of ecological balance. The building architecture is designed in such a manner that permits the free flow of air and allows natural light to cover all the corners of the building. The ample natural light therefore avoids the usage of the lights in the corridors and rooms.

Green campuses have worked on lowering their impact in damaging the atmosphere by offering sustainable dormitories. These dormitories promote green living amongst students by lowering the usage of normal electric grids.

EWIT justifies the following criteria list to uphold the green campus initiative.

**Pedestrian-friendly path ways:** EWIT adheres to pedestrian-friendly pathways, walkways in the campus to make it more reliable for the students and pedestrians. The pathways are properly marked and registered.



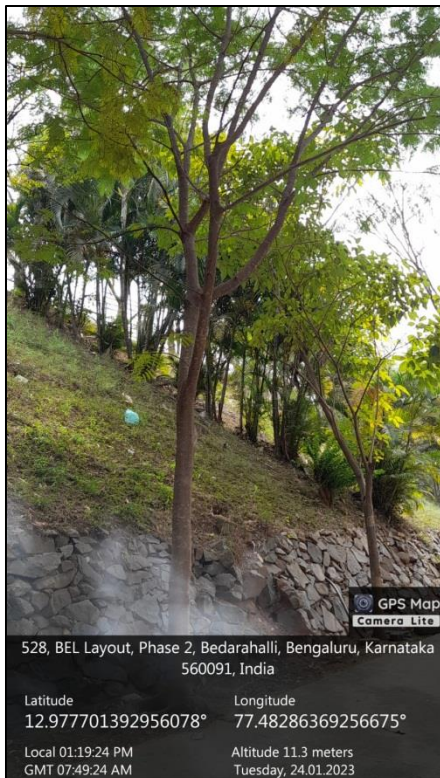


**Promoting use of bicycles and electric vehicles:** EWIT encourages students and staff to use bicycles and electric vehicles especially those who stay close to the college. It observed that notable amount of students come on bicycles. This helps us in promoting the campus towards a pollution free environment.



**Landscaping with trees and plants:**

EWIT moves in the direction of having a well-established green campus. It promotes planting of trees having valuable advantages and medicinal values. EWIT in association with NSS planned and executed many activities to create awareness about green initiatives amongst students and staff.



*R. Hauke*  
**Principal & Director**  
**East West Institute of Technology**  
**Bengaluru - 560 091.**



**No Smoking zone:** EWIT is a campus that promotes healthy environment for the wellbeing of the students. It strictly prohibits the use or consumption of tobacco in any form and also promotes a visionary of providing every student a deserving environment.

**Ban on use of plastic:** The Institute has taken initiative to promote a plastic-free zone. EWIT is committed to make the campus a plastic—free zone. Therefore, there is a complete ban on single—use plastics in classrooms, labs, canteens in the institution premises and hostels. Awareness activities are conducted to promote reduce use of plastic inside and outside the campus.



*R. Shankar*  
Principal & Director  
East West Institute of Technology  
Bengaluru - 560 091.

**Waste management:** EWIT believes in reducing or minimizing the waste.

The following initiatives are practiced:

- Keep a stack of paper that has been printed on one side and use it for day to day rough paper work.
- Use more read out material in soft form. Reduce the hard readout material. Use more of e-mail for officially communicating the information needed,online reading etc.,
- Minimize the use of fertilizers and pesticides in college grounds, opting to the use compost produced onsite whenever possible.
- Ensure that all cleaning products used by the college staff have a negligible harmful impact on environment.
- Use two types of bins separately for biodegradable non- biodegradable wastes in the college campus as in hostels.
- Reusing the classroom furniture by altering them, thereby reducing the metal waste.

Also several activities are being conducted timely in accordance to the green campus initiative in the college which helps creating awareness and making the students more responsible towards ecology.



## Plantation Program:

East West Institute of technology has organized plantation program on 23<sup>rd</sup> August, 2019 to create urban forest. This program was initiated with a motto ***“ONE TREE IS ALL IT TAKES”*** and a mission ***“Plant one tree to join the Green Revolution and make the city green again. Let's plant a tree today”***.

  
Principal & Director  
East West Institute of Technology  
Bengaluru - 560 091.

The plantation program used the model of Japanese Akira Miyawaki Lirban Forest which creates urban forests.

Subramanya Education Society @  
**EAST WEST INSTITUTE OF TECHNOLOGY**  
# 63, Off Magadi Main Road, Vishwanandam Post, Near Anjananagar,  
Bangalore - 560 091

EAST WEST

The Management, Principal, Staff & Students  
*Cordially Invites you for the*  
**PLANTATION PROGRAMME 2019**

**ONE TREE IS ALL IT TAKES**  
Plant one tree to join the Green Revolution and  
make the city green again. Let's plant a tree today.

**Guests:**

**Sri D V Sadananda Gowda**  
Minister of Chemicals and Fertilizers  
Bangalore North Constituency.

**Sri S T Somashekar**  
Chairman  
Karnataka State Housing Federation  
& Samaana Manasara Yekata Trust

**Sri Rajanna**  
BBMP Corporator,  
Herohalli Ward, Bangalore

**Sri Balashekar**  
Joint Commissioner  
BBMP, RR Nagar

**Presides:**

**Sri C N Ravikiran**  
Chairman, EWGI

**Smt. Rashmi Ravikiran**  
Secretary, EWGI

**Sri Tejas Ravikiran**  
Director, Placement & Corporate Relations

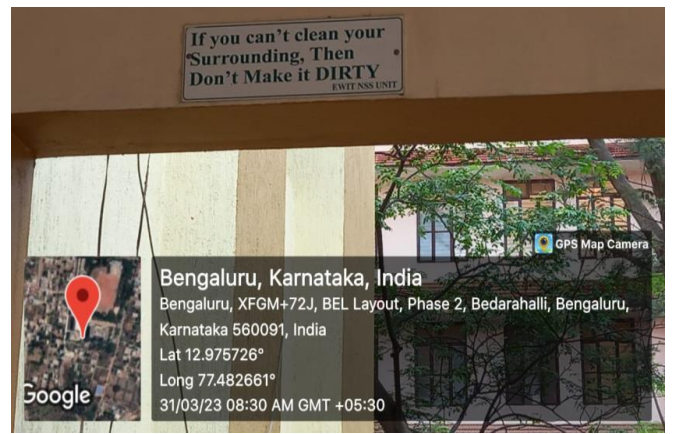
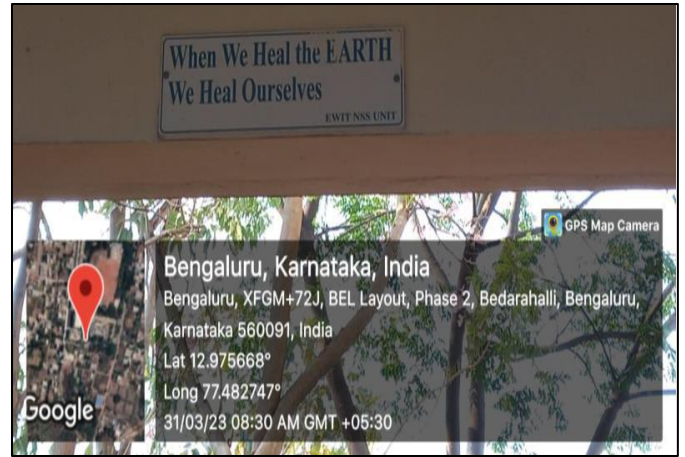
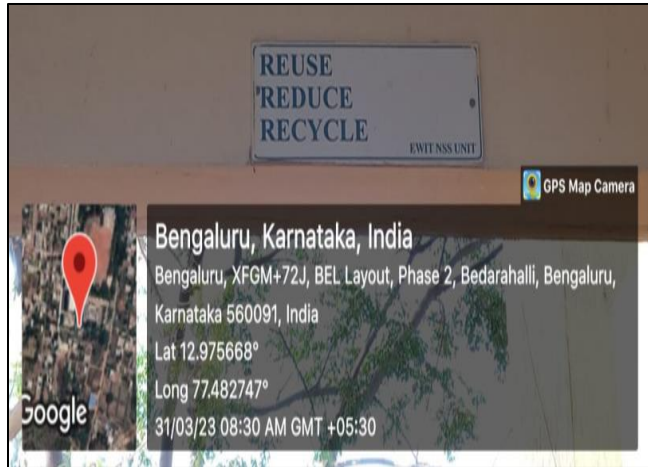
Venue: BEL Park, Near East West College

Date: 23-08-2019 Time: 9.30 AM

All are Welcome to make the city green  
All Directors', Principals', NSS team, Staff and Students of EWGL



*Principal & Director*  
**East West Institute of Technology**  
Bangaluru - 560 091.



  
Principal & Director  
East West Institute of Technology  
Bengaluru - 560 091.

East West Institute of technology organizes many Go Green Activities along with World Environment Day.



A detailed event poster for 'WORLD ENVIRONMENT DAY'. It features logos for East West Institute of Technology, NSS UNIT- EWIT, Institution's Innovation Council, Department of Civil Engineering, Indian Concrete Institute, and Association of Consulting Civil Engineers (India). The event is organized by the Department of Civil Engineering. The Chief Guest and Resource Person is Dr. P. Parthasarathy, Managing Director of E-Parasara Private Limited, Bengaluru. The event is presided over by Prof. T.N. Nagabhushana, Executive Director of EWGI, and Dr. K. Channakeshavalu, Principal/Director of EWIT. The Chair Person is Dr. M.S. Nagaraja Gupta, Professor and Head. The Programme Co-Ordinator is Dr. Shashi Shekhar T.R., Assoc Prof., Dept of CE, EWIT. The event is on 06/06/2022 at 6th Floor, Seminar Hall, 2:30pm. It includes a 'save trees save the earth' logo and images of hands holding a globe.

  
**Principal & Director**  
**East West Institute of Technology**  
**Bengaluru - 560 091.**

## *7.1.2. Environmental Consciousness and Sustainability and Divyangjan Friendly Initiatives*

### *3. Water Conservation*

- Rain water harvesting
- Bore well / Open well recharge
- Construction of tanks and bunds
- Waste water recycling
- Maintenance of water bodies and distribution system in the campus

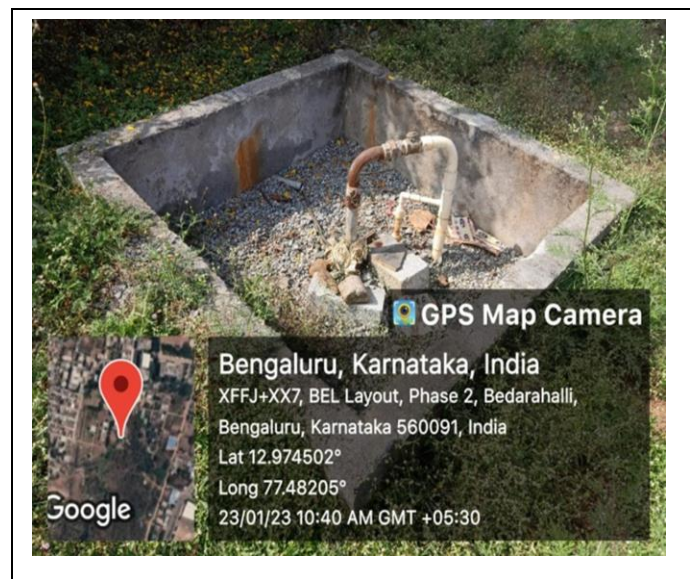
EWIT is pledged for water conservation by prioritizing the water usage with resource planning and recycling. The Institute has guidelines for the safety of storage tanks and water related structures, regulates exploitation of ground water, harvests rain water in order to provide quality of water in the campus.

The EWIT campus has 3 large buildings and greenery with a total water consumption requirement of 34,000 liters per day.

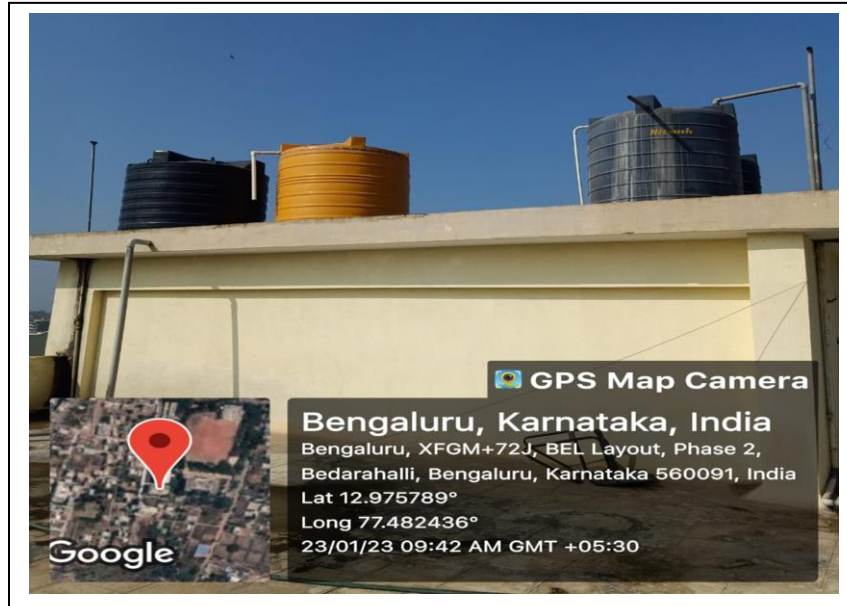
In order to suffice this requirement, well-equipped water conservation structures are built.

### **BOREWELL**

The campus has a bore well dug near the CMM Block and it is the major source of water in the campus.



## OVERHEAD TANKS



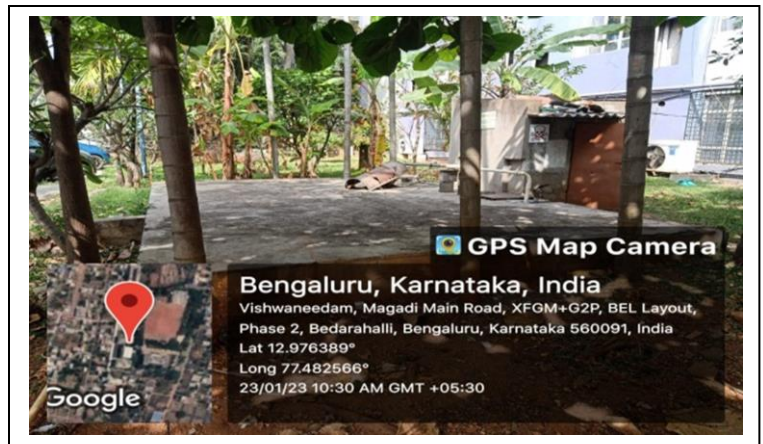
7 **Overhead Tanks** with a total capacity of 17,000 Liters are installed over each building and motors are turned on twice a day to satisfy the respective water requirements.

Block	No. of Overhead Tanks	Capacity/Tank (Lt)	Total Capacity(Lt)
Main Block	4	3000 (3), 1000 (1)	10,000
CMM Block	2	2000	4000
Bank and Canteen	1	3000	3000

## SUMPS:

One large sump is constructed near the Main Block to store the water required for the entire campus.

With the conscious efforts of all the stakeholders of the institution, all possible measures and precautions are taken to conserve water and utilize it efficiently.



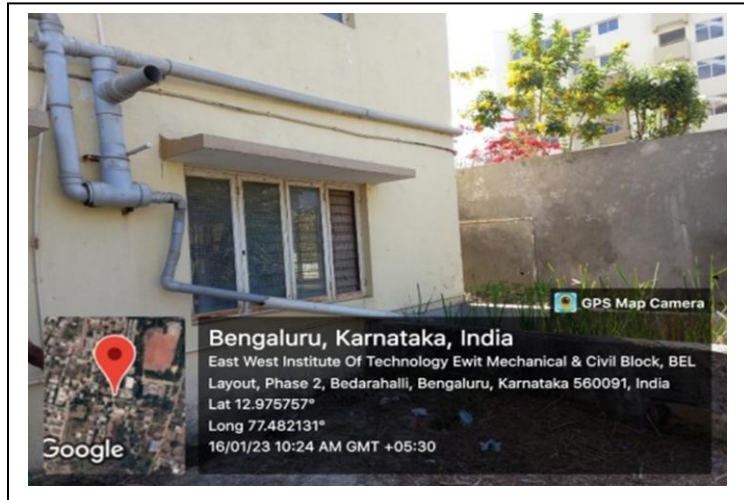
*R. Shankar*  
Principal & Director  
East West Institute of Technology  
Bengaluru - 560 091.



## RAIN WATER HARVESTING

### Objectives

- To increase recharge of groundwater by capturing and storing rainwater, by rainwater harvesting from rooftop run-offs.
- To store the water for gardening & washing purpose.



### Rainwater harvesting systems consists of the following components:

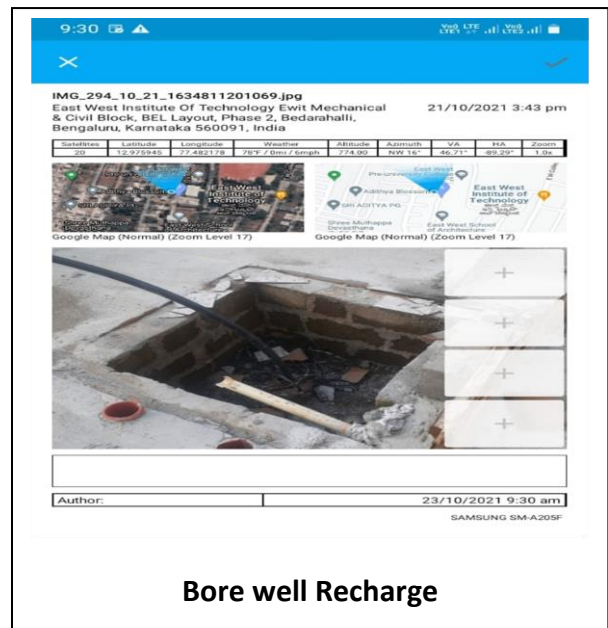
1. Catchment- Used to collect and store the captured rainwater.
2. Conveyance system – It is used to transport the harvested water from the catchment to the recharge zone.
3. Flush- It is used to flush out the first spell of rain.
4. Filter – Used for filtering the collected rainwater and removing pollutants.
5. Tanks and the recharge structures: Used to store the filtered water which is ready to use.

Due to rapid increase in day-to-day demand for water among fast growing human population, there lies a great opportunity of harvesting rainwater to meet the scarcity of water and avoid destruction of the normal groundwater level. The boon of rainwater harvesting is that the unused or extra water can be sent down the aquifer to charge the groundwater level.

The institution has set up 2 rainwater harvesting units, one each near the Main Block and the CMM Block. The rainwater that flows off in the college areas are collected and stored to recharge the groundwater level. Harvested rain water is filtered through several layers of mesh or strainer fixed across the inlet to the storage system and is cleaned on a regular basis. The rain water set-up units satiate the requirements of water for the entire institution. The remaining roof runoff water is allowed to infiltrate in the ground for recharge. The stored water is used for gardening and washing of vehicles.



**Rain water harvesting**



**Bore well Recharge**

## WASTE WATER RECYCLING

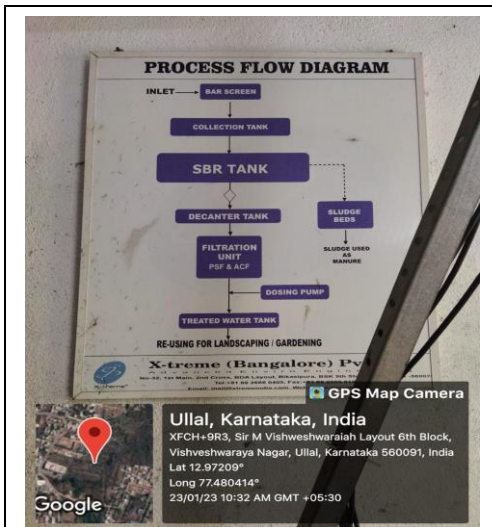
**Chemical Waste Management:** EWIT ensures that the waste water generated in chemistry laboratory will be neutralized by using sodium hypochlorite and used for gardening.



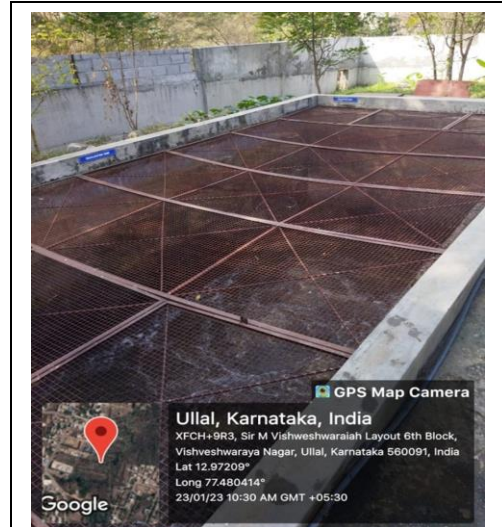
The institution has STP in campus. The waste water from the entire campus is processed in the STP. The recycled water from the STP is used to grow plants and grass in the campus.

*[Signature]*  
 Principal & Director  
 East West Institute of Technology  
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**Sewage Treatment Plant (STP):** There is a Sewage Treatment Plant of 350 Kilo Litre per day capacity. Waste water received from domestic, commercial, and residential sources is treated by removing toxic materials that may otherwise cause damage to the environment. All sewage and liquid waste are treated in the STPs and around 1 lakh liters of treated water are used per day for irrigation of landscaping, gardening projects and for flush in hostels within the campus.



**Process Flow Diagram**



**Collection Tank**

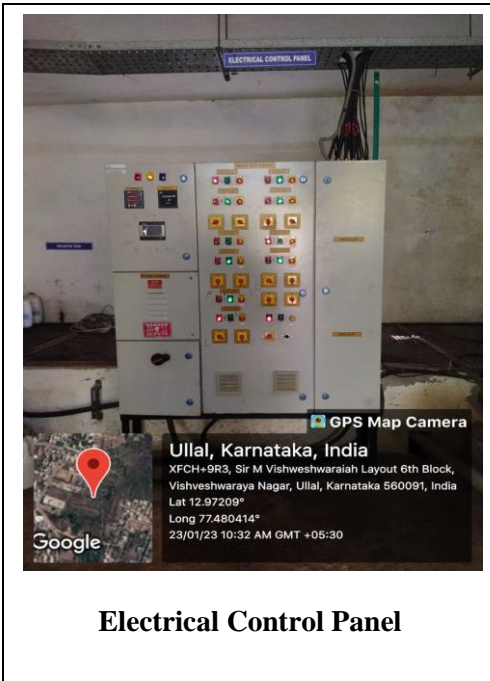


**Filtration Unit**

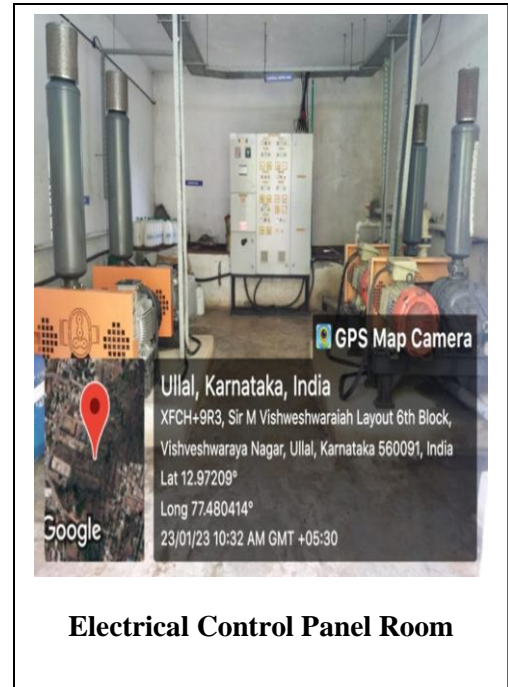


**Filtration Unit**

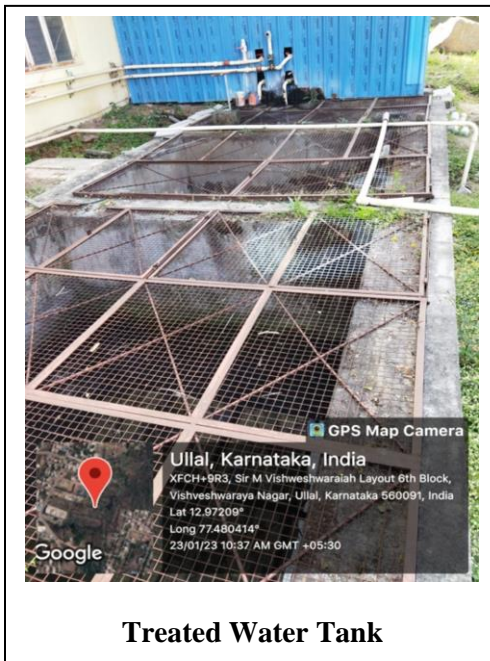
*R. Shanku*  
**Principal & Director**  
**East West Institute of Technology**  
**Bengaluru - 560 091.**



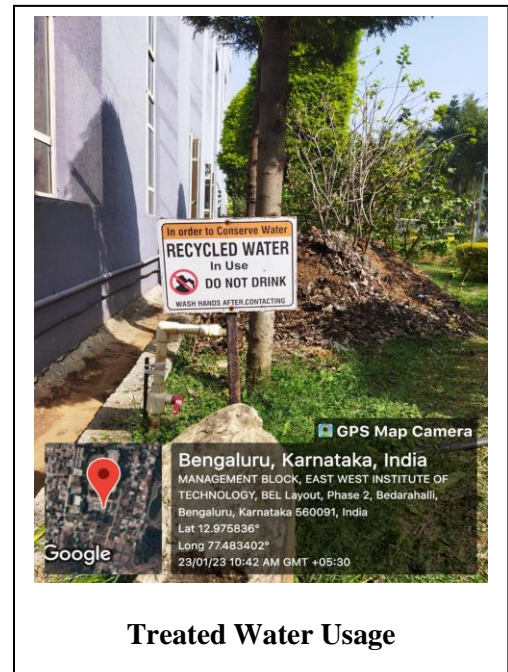
**Electrical Control Panel**



**Electrical Control Panel Room**

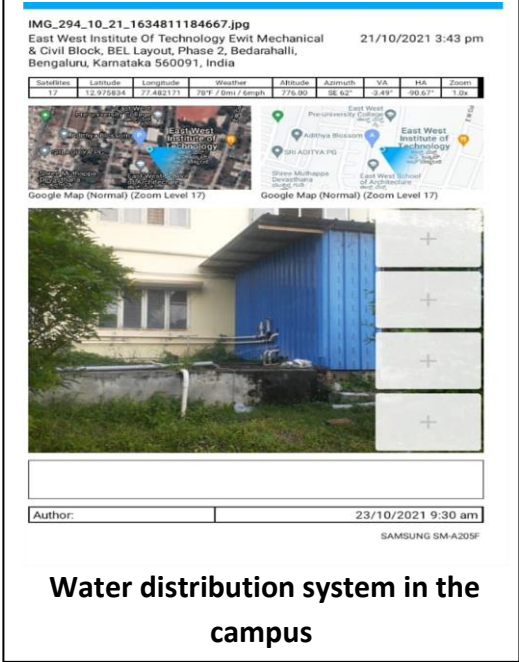
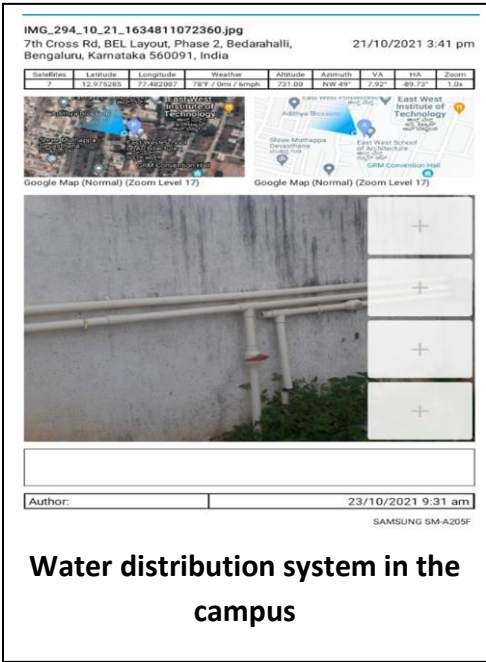


**Treated Water Tank**

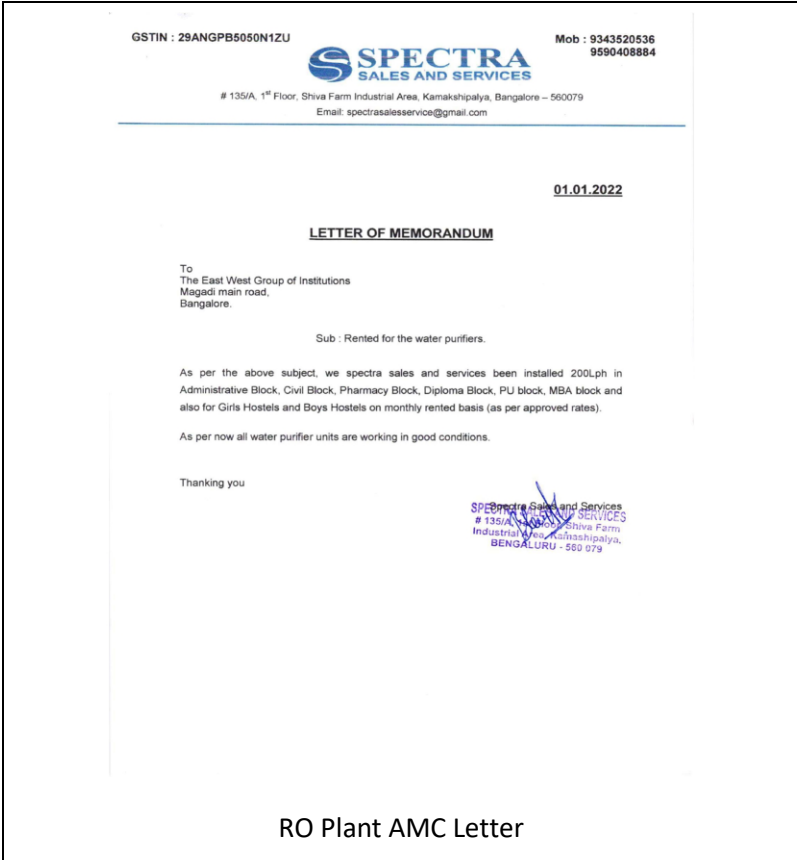


**Treated Water Usage**

*R. Shanku*  
 Principal & Director  
 East West Institute of Technology  
 Bengaluru - 560 091.



**Drinking/ Potable Water:** All academic, administration and hostel blocks in the campus are equipped with RO plants which provide potable water. Regular maintenance keep these RO plants ensure safe supply of potable water for all common area. The quality of drinking water is ensured by testing it in regular intervals by qualified laboratory.



*R. Shankar*  
**Principal & Director**  
**East West Institute of Technology**  
**Bengaluru - 560 091.**

**EsSEN & Co.**  
ESTD: 1941  
ANALYTICAL CHEMISTS & ASSAYERS  
(An ISO 9001 - 2015 Certified Company)  
Founded by: Dr. N. JAYARAMAN, M.A., D.Sc.  
Director: Dr. J. RAJARAM

**TEST REPORT**

ISSUED TO:  
To: The East West Group of Institutions  
Magadi Main Road,  
Bangalore

CERTIFICATE NO.: **BE/853**  
DATE OF ISSUE: 25-07-2022  
REGISTER NO.: **9658**  
DATE OF RECEIPT: 20-07-2022

DESCRIPTION OF SAMPLE: S.D. WATER  
TESTED AS PER: .....

PARAMETER	REQUIREMENTS (DESIRABLE LIMITS) AS PER: IS: 10486/2012	REQUIREMENTS PERMISSIBLE LIMIT IN ABSENCE OF ALTERNATE SOURCE	RESULTS	TEST METHOD
COLOR IN WATER METTS	5	15	<0.8	IS:10486(P-4)
ODOR	AGREEABLE	AGREEABLE	AGREEABLE	IS:10486(P-5)
TURBIDITY	AGREEABLE	AGREEABLE	4.52	IS:10486(P-12)
TOTAL HARDNESS AS CaCO <sub>3</sub> MAX	5	5	<1.0	IS:10486(P-18)
TOTAL DISSOLVED SOLIDS, mg/l, MAX	500	2000	10.4	IS:10486(P-19)
ALUMINUM (AS Al) mg/l, MAX	0.03	0.2	<0.03	APHA 2000-A1-0
AMMONIA (AS TOTAL AMMONIA-N) mg/l, MAX	0.5	NO RELAXATION	<0.5	IS:10486(P-24)
BORON (AS B) mg/l, MAX	0.5	1.0	<0.5	IS:10486(P-27)
CALCIUM (AS Ca) mg/l, MAX	75	200	2.4	IS:10486(P-40)
CHLORIDE (AS Cl) mg/l, MAX	250	1000	15.4	IS:10486(P-31)
COPPER (AS Cu) mg/l, MAX	0.05	1.5	<0.05	IS:10486(P-42)
FLUORIDE (AS F) mg/l, MAX	1.0	1.5	0.2	APHA 2000-A-6
FREE RESIDUAL CHLORINE, mg/l, MIN	0.2	1	<0.2	IS:10486(P-28)
IRON (AS Fe) mg/l, MAX	0.3	NO RELAXATION	<0.3	APHA 2000-A-8
MANGANESE (AS Mn) mg/l, MAX	30	100	2.10	IS:10486(P-44)
NITRATE (AS NO <sub>3</sub> ) mg/l, MAX	0.5	0.5	<0.5	IS:10486(P-49)
NITRITE (AS NO <sub>2</sub> ) mg/l, MAX	0.5	NO RELAXATION	1.00	APHA 2000-A01-0
PRESALEN COMPOUNDS (AS CHLORO) mg/l, MAX	0.002	0.002	<0.002	IS:10486(P-43)
SILVER (AS Ag) mg/l, MAX	0.5	NO RELAXATION	<0.5	AS OF IS:10486
SULPHATE (AS SO <sub>4</sub> ) mg/l, MAX	200	400	1.37	IS:10486(P-26)
SULPHIDE (AS S <sup>2-</sup> ) mg/l, MAX	0.05	NO RELAXATION	<0.05	IS:10486(P-29)
TOTAL ALKALINITY (AS CaCO <sub>3</sub> ) mg/l, MAX	200	400	0.4	IS:10486(P-23)

Cont. Page 2

For ESSEN & CO.

Authorized Signatory  
*M.K. VASUKI*  
Technical Manager

Note: The test results given in this certificate pertain only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the accuracy of the data. This certificate reflects our findings on the sample received by us and does not reflect on any other sample. This certificate shall not be reproduced in part or full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a period of one month on request. In case of dispute, our liability is limited to the amount mentioned below.

**EsSEN & Co.**  
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ANALYTICAL CHEMISTS & ASSAYERS  
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**TEST REPORT**

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DESCRIPTION OF SAMPLE: S.D. WATER  
TESTED AS PER: .....

PARAMETER	REQUIREMENTS (DESIRABLE LIMITS) AS PER: IS: 10486/2012	REQUIREMENTS PERMISSIBLE LIMIT IN ABSENCE OF ALTERNATE SOURCE	RESULTS	TEST METHOD
TOTAL HARDNESS AS CaCO <sub>3</sub> mg/l	500	500	15.4	IS:10486(P-18)
ZINC (AS Zn) mg/l, MAX	5	15	<0.4	IS:10486(P-48)
ZARONIN (AS Cr) mg/l, MAX	0.003	NO RELAXATION	<0.003	IS:10486(P-45)
ZARONIN (AS Cr) mg/l, MAX	0.05	NO RELAXATION	<0.05	IS:10486(P-27)
LEAD (AS Pb) mg/l, MAX	0.05	NO RELAXATION	<0.05	IS:10486(P-47)
MERCURY (AS Hg) mg/l, MAX	0.002	NO RELAXATION	<0.002	IS:10486(P-46)
NICKEL (AS Ni) mg/l, MAX	0.02	NO RELAXATION	<0.02	IS:10486(P-54)
TOTAL ARSENIC (AS As) mg/l, MAX	0.05	0.05	<0.05	IS:10486(P-57)
TOTAL CADMIUM (AS Cd) mg/l, MAX	0.05	NO RELAXATION	<0.05	IS:10486(P-52)

REMARKS: ON THE BASIS OF THE ABOVE TESTS THE WATER IS POTABLE

For ESSEN & CO.

Authorized Signatory  
*M.K. VASUKI*  
Technical Manager

Note: The test results given in this certificate pertain only to the sample received by us. Our intervention has been performed to the best of our skill and knowledge and our responsibility is limited to the accuracy of the data. This certificate reflects our findings on the sample received by us and does not reflect on any other sample. This certificate shall not be reproduced in part or full and cannot be used as evidence in court of law without prior permission in writing. The sample will be preserved for a period of one month on request. In case of dispute, our liability is limited to the amount mentioned below.



**Rain Water Harvesting Pipe line**

*R. Shankar*  
**Principal & Director**  
**East West Institute of Technology**  
**Bengaluru - 560 091.**

***7.1.2. Environmental Consciousness and Sustainability and Divyangjan Friendly Initiatives***

***5. Disabled-friendly, barrier free environment***

- Built environment with ramps/lifts for easy access to classrooms.
- Disabled-friendly washrooms
- Signage including tactile path, lights, display boards and signposts
- Assistive technology and facilities for persons with disabilities (*Divyangjan*) accessible website, screen-reading software, mechanized equipment
- Provision for enquiry and information : Human assistance, reader,scribe, soft copies of reading material, screen reading

EWIT adopted a policy to address differently abled students. The policy works with the motto that “Ensure the differently abled Receive Day-To-Day Needs and perform in far with the regular students”.

All the student s and staff have given awareness about the services extended to differently abled and help them with the following principles on what they could do to make their lives better.

***Ask Before Offering Help:***

Don't assume that people with disabilities would always require some assistance in leading their lives and the first step is to treat them as equals. Understand that they know more about their needs and how to handle their day-today lives. In case, if you want to extend any support, ask first. Understand their needs and learn about specific details on how you can assist.

***Speak Clearly, And Listen:***

If you have a loved one or colleague with mental or developmental disabilities, always use simple words. Don't use complex terms, explain your views in simple sentences and allow them to make their own decisions. Practice restraint and patience while dealing with those with speech disability as they take some time to finish their sentences. Do not try to interrupt the flow of

speech by trying to complete their sentences.

***Make Them Feel Confident:***

Few disabled people may suffer from lack of self-esteem and confidence. Remember, many of them don't like sympathy and don't stare at them. Always make eye contact while talking and do not try to strike up a conversation around their disabilities. If you are conversing with a person in a wheelchair sit down and talk face-to-face, instead of talking down to them.

***Respect Personal Space:***

People with disabilities need their own space and may not like others touching their mobility aids without permission, as you may not know how to handle their equipment. If you want to move their wheelchair, ask for permission. Always knock on the doors before you enter the room, like you do with others. Do not discuss their disability with others.

***Make Changes:***

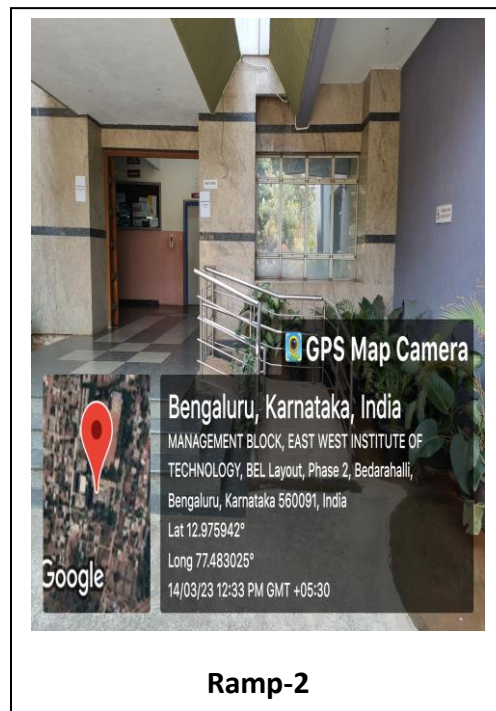
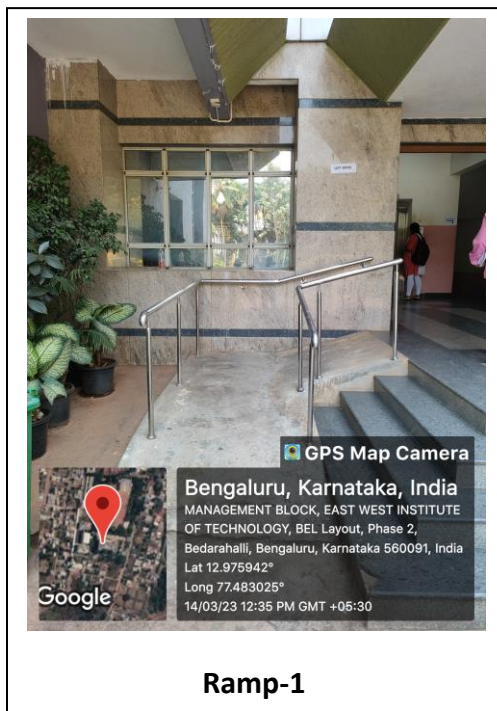
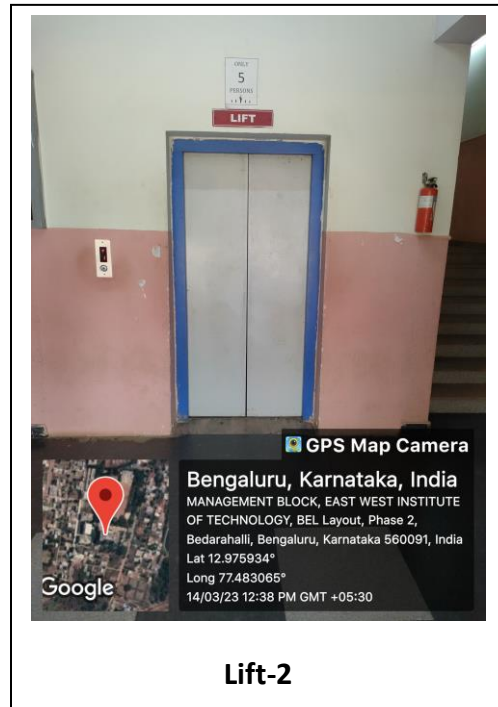
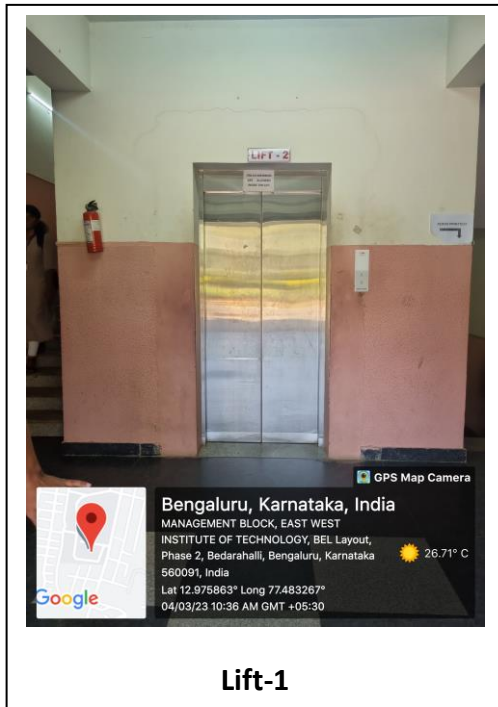
If you are expecting a visitor with certain disability at home or in office, try making few simple changes that would make them feel comfortable. Place necessary items within their reach in restrooms, bedrooms, offer to help with items in shelves or cupboards. Also try and respect their daily routine and if there is a sudden change in the daily activities help them to cope up with the transition.



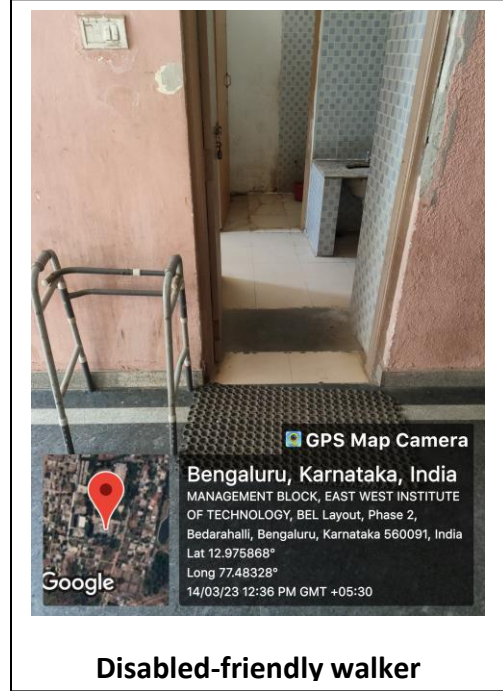
**Principal & Director  
East West Institute of Technology  
Bengaluru - 560 091.**



**Facilities for Differently Abled Students:**



*R. Shankar*  
**Principal & Director**  
**East West Institute of Technology**  
**Bengaluru - 560 091.**



*R. Shankar*  
**Principal & Director**  
**East West Institute of Technology**  
 Bengaluru - 560 091.

**Subramanya Education Society<sup>®</sup>**

# **EAST WEST INSTITUTE OF TECHNOLOGY**

**(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka,  
Accredited by NAAC & Recognized U/S 2 (f) & 12 (b) of the UGC Act 1956)**



## **POLICY ON DIFFERENTLY ABLED (DIVYANGJAN)**

**Principal & Director  
East West Institute of Technology  
Bengaluru - 560 091.**

# **POLICY ON DIFFERENTLY ABLED**

## **Introduction:**

The right to Education focuses on the need to have inclusive education, which means that educating students with **learning difficulties and identified disabilities** have the right fulfillment of their educational needs. Differently abled (Divyangjan) friendly resources are available in the Institution. The Institute provides equal opportunities to all students of the Institute in congruence with the guidelines given by the State government. The Institute has also introduced the **Learning Disability Friendly Initiative** to support students with Learning Disabilities. This was done specifically to create an environment of acceptance and nurturance.

## **Motto:**

“Ensure the differently abled **Receive Day-To-Day Needs and perform in par with the regular students**”.

## **Objectives:**

1. To ensure that students with disabilities get equal opportunities to explore their educational potentials.
2. To provide a nurturing and motivating environment for students with learning disabilities to accommodate their pedagogic needs.
3. To eradicate any kind of stigmatization and segregation so that they can become confident individuals.

## **Services for the Differently abled**

The institute encompasses, Barrier free Centre, Adapted Library, Training Programs, and Sensitization Programs.

The students are provided the concessions which are appended below and are cases specific.

- i. Provision of writers, if requested.
- ii. Procedures, reservation, policies, etc., pertaining to differently abled persons.

  
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**East West Institute of Technology**  
**Bengaluru - 560 091.**

- iii. Assess the educational needs of differently abled persons enrolled in the Institute to determine the types of assistive devices to be procured.
- iv. Conduct awareness programmes for teachers on approaches to teaching, evaluation Procedures, etc. which will be helpful for them to facilitate differently abled students.
- v. Assess the ability of differently abled students and assist them in getting appropriate employment through training and placement.
- vi. Celebrate important days pertaining to disability such as the **World Disabled Day** in order to create awareness about differently abled persons
- vii. Ensure maintenance of special assistive devices procured by the Institute.
- viii. A meeting with the parents and students is scheduled to understand their interests.

### **Sensitization programs**

- The institute conducts sensitization programme at various levels with the theme of prevention of disabilities, Rights of persons with disabilities, Breaking the Barriers of Inclusion, Human Rights for persons with disabilities etc. to the public and students.
- The Faculty and non-teaching staff of the institute are being sensitized about disability, inclusive pedagogy and technologies that can assist students with disabilities. Along with those students from various disciplines, librarians and volunteers are being sensitized on their role for developing an Inclusive society.

### **Infrastructural and Physical support**

- Ramps and Lifts in all buildings in the campus have been provided for easy commute of the disabled students
- Wheel Chair of a specific make to accommodate the special requirement of students
- Access to western toilet is permitted to students (students who / physically disabled / on medical grounds).

  
**Principal & Director**  
**East West Institute of Technology**  
**Bengaluru - 560 091.**