



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University / Accredited by NAAC/
Accredited by NBA (ECE, EEE, MECHANICAL))

Dindigul – Palani Highway, Dindigul – 624 002

NAAC CRITERION- 7



7.1.2 The Institution has facilities for alternate sources of energy and energy conservation Measures

Geo tagged Photos and Videos of the Facilities



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (KUS)
Principal

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002



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Dindigul – Palani Highway, Dindigul 624 002

NAAC/CYCLE-II/Self Study Report

INSTITUTIONAL VALUES AND BEST PRACTICES

ALTERNATE SOURCES OF ENERGY

AND

ENERGY CONSERVATION MEASURES

ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

1. Solar energy- Yes
2. Biogas plant- No
3. Wheeling to the Grid- No
4. Sensor-based energy conservation- No
5. Use of LED bulbs/ power efficient equipment- Yes

ALTERNATE SOURCES OF ENERGY – SOLAR PANEL

- Three Solar Panels have been installed in the B block for alternate power source for Renewable Energy Laboratory in Department of Electrical and Electronics Engineering.

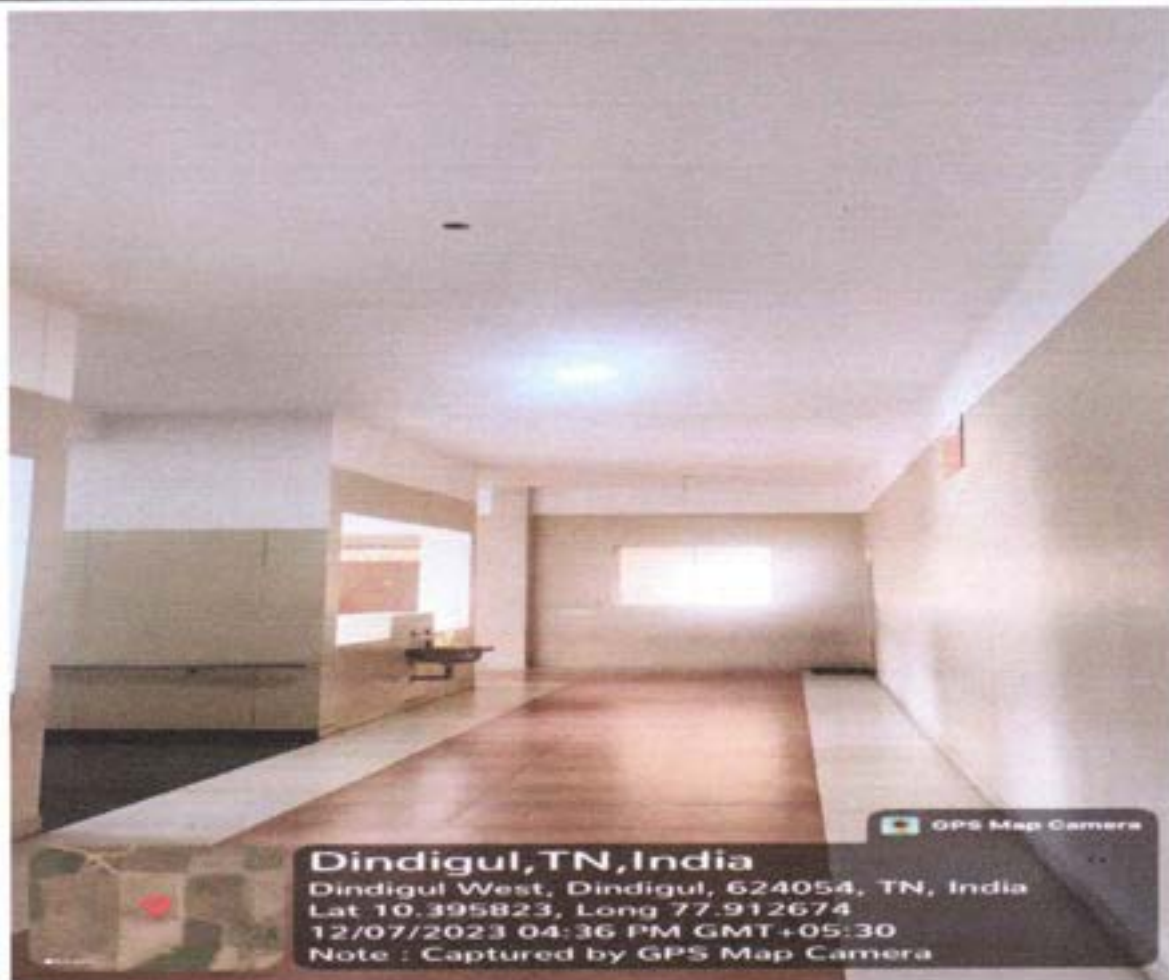


Solar Panels at B-block

ENERGY CONSERVATION MEASURES:

Use of LED bulbs/ power efficient equipment:

- Energy Conservation: Most of the existing tube lights have been replaced by energy efficient LEDs at various locations, viz., Corridors, Auditorium, Classrooms, Labs, Academic Branch, Training and Placement Cell and Hostels etc. in the institute.
- Over the past few years our college has taken a conscious decision to replace existing lights and lighting equipments by LED bulbs as they have been proved comparatively more energy efficient.
- More importantly the college administration has strictly directed the Teachers, Students, and especially Office Assistants and all other Stakeholders to see that all lights, fans, motors are switched off after the college hours.



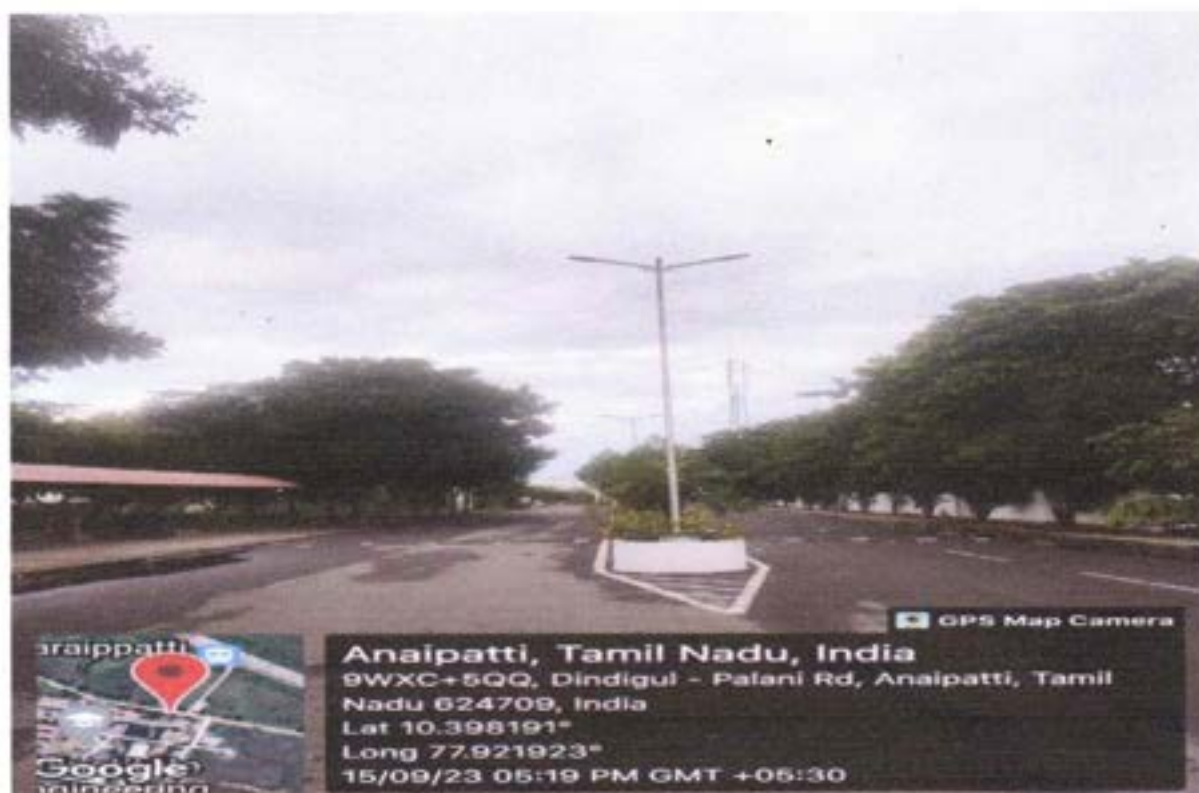
Usage of LED lights in Academic Block



Usage of LED Lights in Administrative Block



Usage of LED Lights in Pathways



Usage of LED Lights in Entrance Area



Usage of LED Lights in the Corridors




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INSTITUTIONAL VALUES AND BEST PRACTICES

MANAGEMENT OF THE VARIOUS TYPES WASTES

- **DEGRADABLE**
- **NONDEGRADABLE**

MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON-DEGRADABLE WASTE:



9WWC+M5X, Dindigul - Palani Rd, Anaipatti, Tamil Nadu 624705, India

Latitude 10.3971797° Longitude 77.9206586°

Local 01:19:58 PM

Altitude 254 meters

GMT 07:49:58 AM

Date Mon, 08 Jan 2024



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INSTITUTIONAL VALUES AND BEST PRACTICES

WATER CONSERVATION

WATER CONSERVATION:

- Rain water harvesting – YES
- Bore well /open well recharge – YES
- Construction of tanks and bunds – NO
- Waste water recycling -YES
- Maintenance of water bodies and distribution system in the campus – YES

Rain Water Harvesting:

- Rain water harvesting facility is available in the campus near the main canteen.
- Rain water that runs off from the roofs, roads, open grounds etc., are collected and recharged in the ground .

Rain water harvesting system:

- Dimensions (100'x 60'x13')
- Capacity (22,07,610 litres)



Rain Water Harvesting in SSMIET

Bore Well /Open Well Recharge:

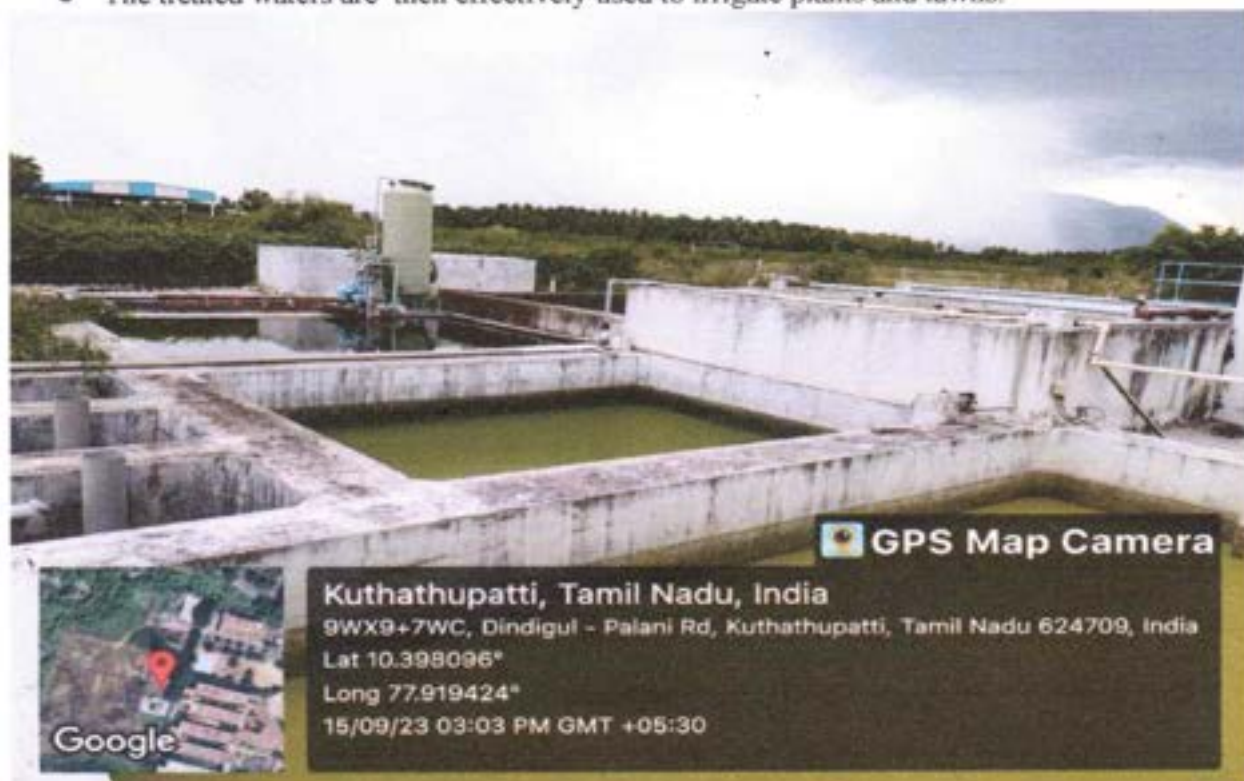
- Bore wells are constructed at different places within the college campus.



Bore Well in SSMIET Campus

Waste Water Recycling:

- Waste water recycling system is available at two places, one near the hostel and another behind the campus.
- Waste waters are collected from the college campus and treated at the treatment plants (3 lakh litres and 1.5 lakh litres capacity).
- The treated waters are then effectively used to irrigate plants and lawns.

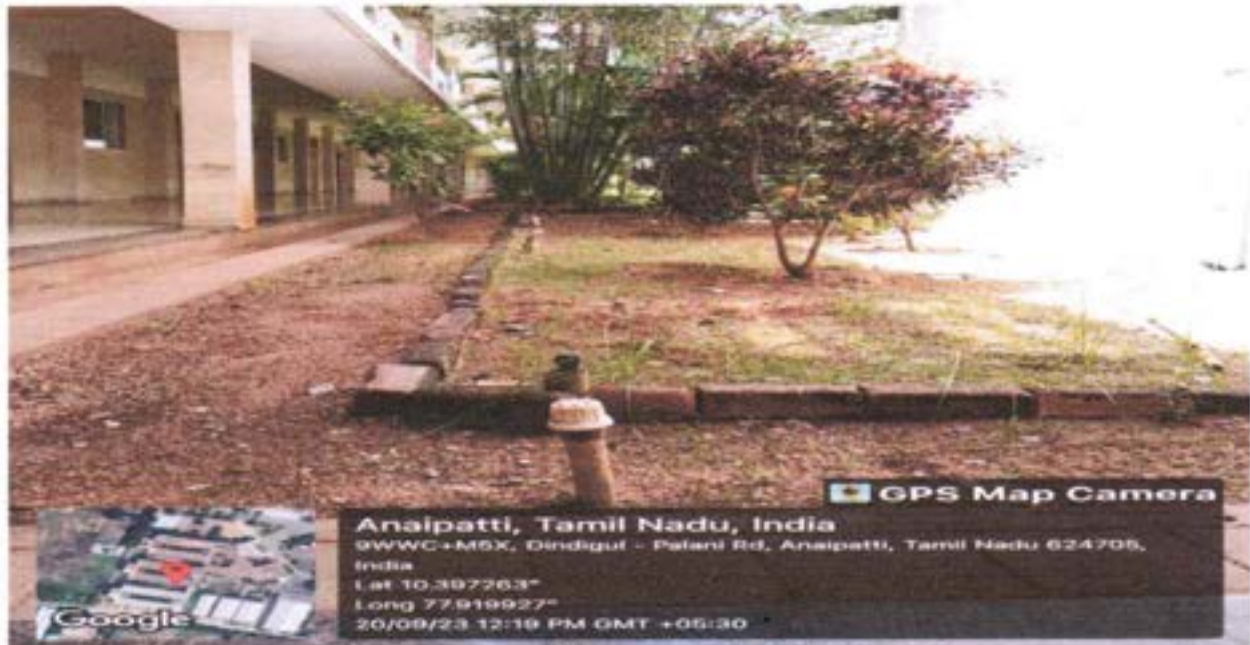




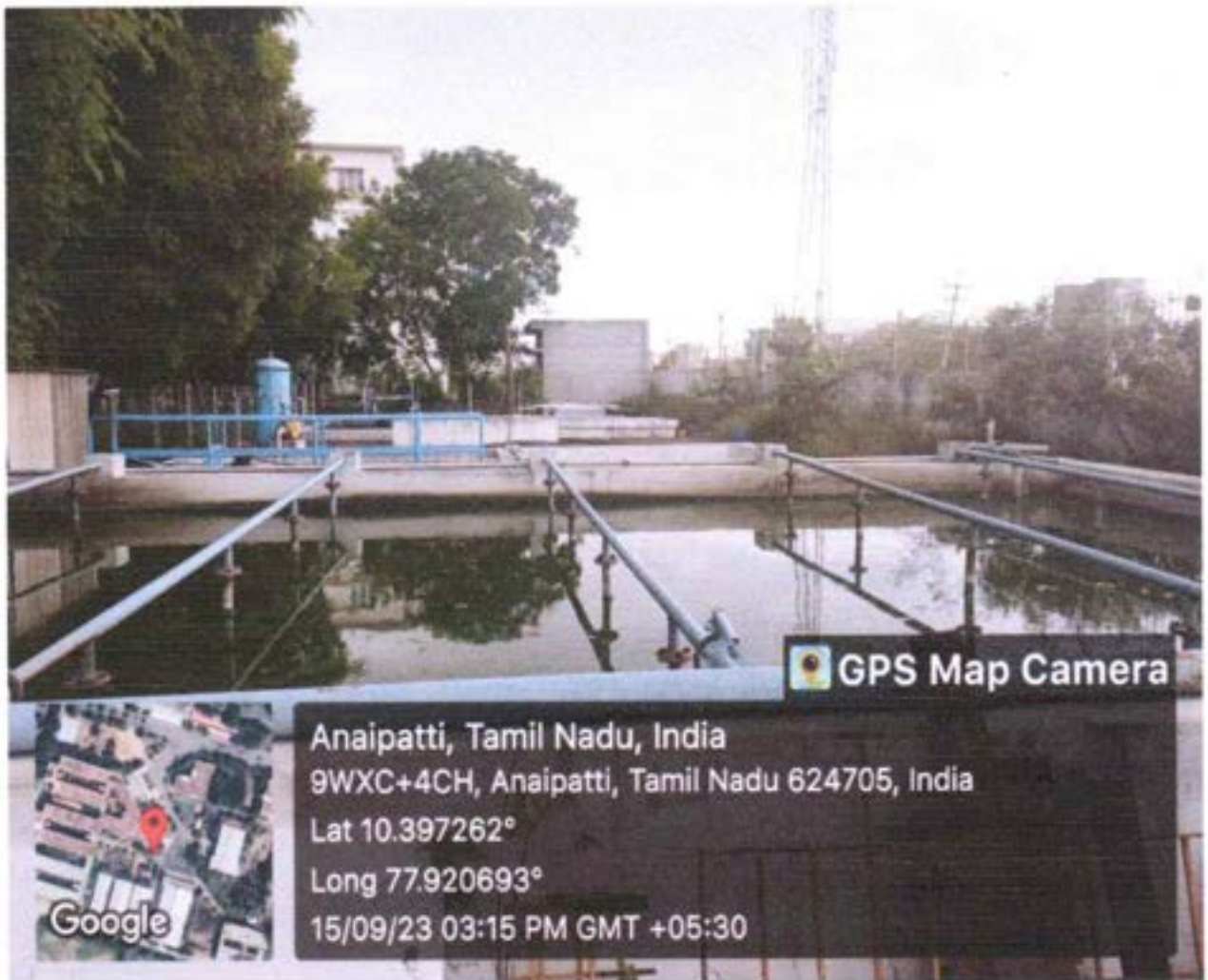
Reverse Osmosis (RO) waster Plant in SSMIET

Maintenance of Water Bodies and Distribution System in the campus:

- The campus consists of well-established water distribution network to provide adequate facilities for the users.
- The rain water is collected through Rain water harvesting and utilized effectively. The waters are distributed through well laid pipe network throughout the college campus.
- Water is purified through RO plant and supplied for drinking purposes.
- The treated waste water has also been distributing separately for the plantation and irrigation purposes.
- Routine inspections and maintenances are undergone properly on time for all pipe connections to avoid leakages or other issues.



Water Distribution System in SSMIET



Anaipatti, Tamil Nadu, India
 9WXC+4CH, Anaipatti, Tamil Nadu 624705, India
 Lat 10.397262°
 Long 77.920693°
 15/09/23 03:15 PM GMT +05:30

Waste Water Recycling Plant in SSMIET



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- INLET WATER TO TOILETS AND WASH BASINS
- RO WATER SUPPLY FOR DRINKING PURPOSE
- WATER FROM EFFLUENT TREATMENT PLANT
- BOREHOLE

Abhi

ALL DIMENSIONS ARE IN METRES.

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INSTITUTIONAL VALUES AND BEST PRACTICES

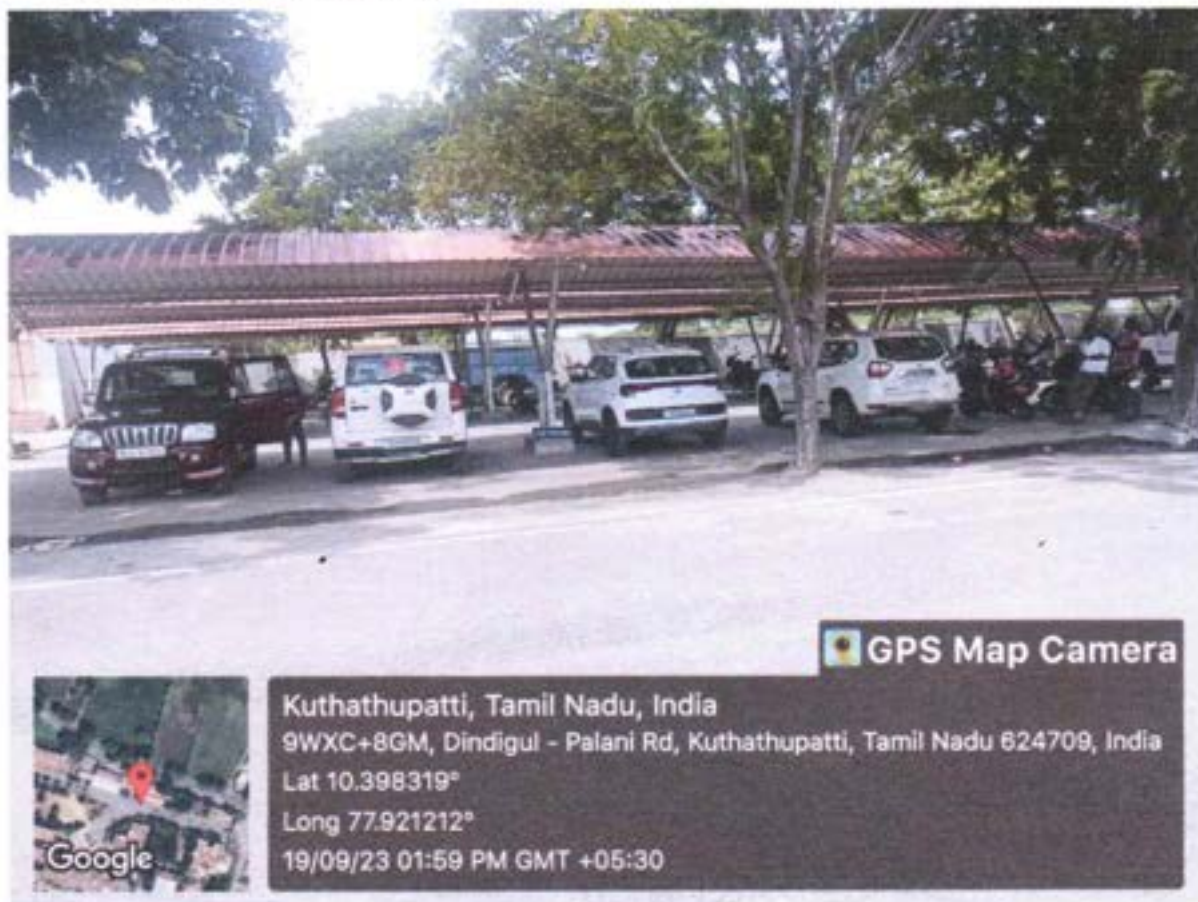
GREEN CAMPUS INITIATIVES

GREEN CAMPUS INITIATIVES

- Restricted Entry of Automobiles
- Use of Bicycles/ Battery Powered Vehicles
- Pedestrian Friendly Pathways
- Ban on use of Plastics
- Landscaping

Restricted Entry of Automobiles

- In order to adopt green campus initiatives two wheelers and four wheelers of students are restricted from entering the college campus.
- Students are motivated to utilize college bus facility or public transport facilities.
- Students can avail public transportation to various areas in and around Dindigul, Madurai, Ottanchatram, Palani, Periakulam etc.
- Vehicles of faculty members are allowed to park in a separate parking lot which is outside the academic premises.



Separate Car Parking for Staffs



Separate Bike Parking for Staffs



Public Transport Facility in the College

Use of Bicycles/ Battery Powered Vehicles (Work in Progress)

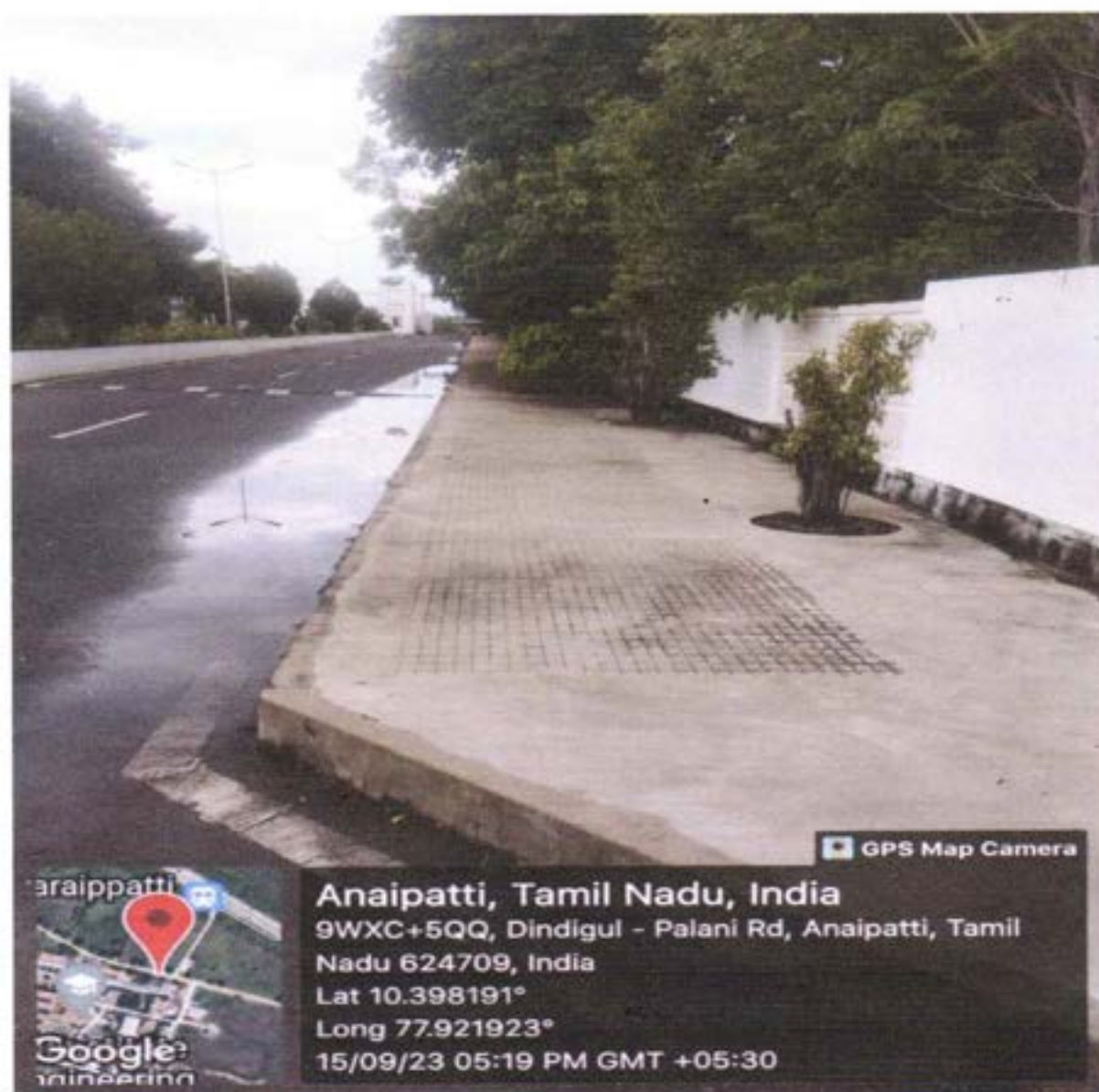
Introducing battery-powered vehicles on a college campus can contribute to sustainability and reduce the environmental impact of transportation. These vehicles, such as electric carts or bicycles, can be used for campus transportation, making it more eco-friendly and promoting a cleaner environment. This initiative aligns with a broader commitment to environmental responsibility and can set a positive example for sustainable practices



Battery Powered Vehicle

Pedestrian Friendly Pathways

- In order to have a block free movement pedestrian path ways are available in the campus in a very structured manner.
- The main objective is to facilitate easy movement of Students and Staffs within the campus zone.
- Entry of Automobile is prohibited inside this zone for smooth movement of students and staffs.
- The Path ways are very well maintained and planted with trees by house keeping department.



Pedestrian Friendly pathways from College Entrance



Pedestrian Friendly pathway to Library



Pedestrian Friendly pathway to Academic Block



Pedestrian Friendly pathway to Laboratory Area

Ban on use of Plastics

- Various Efforts have been made to restrict the usage of Plastics inside the campus.
- Students were motivated to avoid plastics whenever and wherever possible.
- Plastic products such as Plastic cups, Plastic covers, Plastic Spoons, Straws in canteens have been replaced by suitable alternate products.
- Various Awareness campus and initiatives have been carried out in the nearby villages to insist the importance of avoiding plastics.



Awareness to avoid plastics in canteen and campus areas



NSS Awareness Camp to Ban Plastics

Landscaping with Trees and Plants:

- In order to maintain a green environment inside the campus all the areas are planted with plants and trees.
- Tree plantation and Garden maintenance are done periodically to create awareness about the importance of green environment.
- Various initiatives have been taken to insist the importance of tree plantation to the society.



Aerial View of the college campus Landscaping with plants and Trees



Landscaping of Campus with Trees and Plants



Green Ambience of SSMIET

Tree Sapling Plantation by SSMIET Students and Faculties:

A world record event of Tree planting (6 lakhs saplings in 6 hours) held on 23.12.2022 at Edayakottai Taluk of Dindigul District. Tamilnadu Food and Food Supply Department Minister (Food and Food Supply, Consumer Protection, Price Control) inaugurated by Mr. Chakarabani. Two additional minister graced the occasion. By participating more than 200 students and 19 faculty members from SSM Institute of Engineering and Technology (SSMIET) participated in it. Also a Large number of college students, public works department employees, village administrators. Social welfare department employees, local municipality department officers and government officials also participated in it. Local Municipality department officers and government officials guided us on how to plant sapling properly. The trees are important in environmental and ecology concern. Neem, Punga, Vagai, Kodukkapuli, Amla Arjuna, Vengai and Atthi and various new various items were planted. Due to rain and water availability 90% sapling are getting survival and people are involving in tree planting and rearing work. On that afternoon lunch was arranged for everyone by the government. Our SSMIET students participated with great enthusiasm.



SSMIET Faculties along with the students in Tree Sapling event in Edayakottai

Video Link for

Campus Overview: <https://www.youtube.com/watch?v=yEYbFy9DWUk&t=1s>



Tree Sapling by SSMIET Students in Edayakottai



SSMIET Faculties along with the students

- SSMIET is very keen on maintaining green environment within the campus premises.
- As a part of it 1500 tree saplings were planted by our students on 7th June 2022 as a celebration of Environment Day.



Tree Sapling by SSMIET Students in SSMIET Campus



Kuthathupatti, Tamil Nadu, India
 9WX9+7WC, Dindigul - Palani Rd, Kuthathupatti, Tamil Nadu
 624709, India
 Lat 10.398174°
 Long 77.919406°
 07/06/22 11:59 AM



(Handwritten signature in green ink)

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INSTITUTIONAL VALUES AND BEST PRACTICES

**DISABLED FRIENDLY
BARRIER FREE
ENVIRONMENT**

DISABLED FRIENDLY BARRIER FREE ENVIRONMENT

1. Built environment with ramps/lifts for easy access to classrooms. - YES
2. Divyangjan -friendly washrooms - YES
3. Signage including tactile path, lights, display boards and signposts -YES
4. Assistive technology and facilities for persons with Divyangjan accessible website, screen-reading software, mechanized equipment - NO
5. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading – YES

Built environment with ramps/lifts for easy access to classrooms.

- Our Institution is very keen on having a special consideration and care for disabled persons.
- Supports like Ramps, Lifts, Pathways, Soft copies of Reading Materials will be in assistance for the disabled people.
- All the staffs and students would have a special concern to disabled people inside and outside the campus.

Ramp for Disabled Students:

- For easy access of various places in the campus ramp facility were provided to the disabled people.
- Reduced inclination in the ramp makes easier and safer movement of wheel chair.
- The ramps are carefully designed as per the specifications for disabled people.



Ramp facility at College Entrance



Ramp Facility at C Block for disabled



Ramp Facility at B Block Ground Floor

Lift for disabled People

- Lift is provided in the academic block to assist disabled people to move from one floor to another floor.
- The lift has sufficient space inside and wide enough doors to accommodate wheel chair.



Divyangjan -friendly washrooms

- Separate wash room for disabled person is provided in the campus.
- Extra care is taken for the clean maintenance of this washroom.



Divyangjan -friendly washrooms at B Block Ground Floor



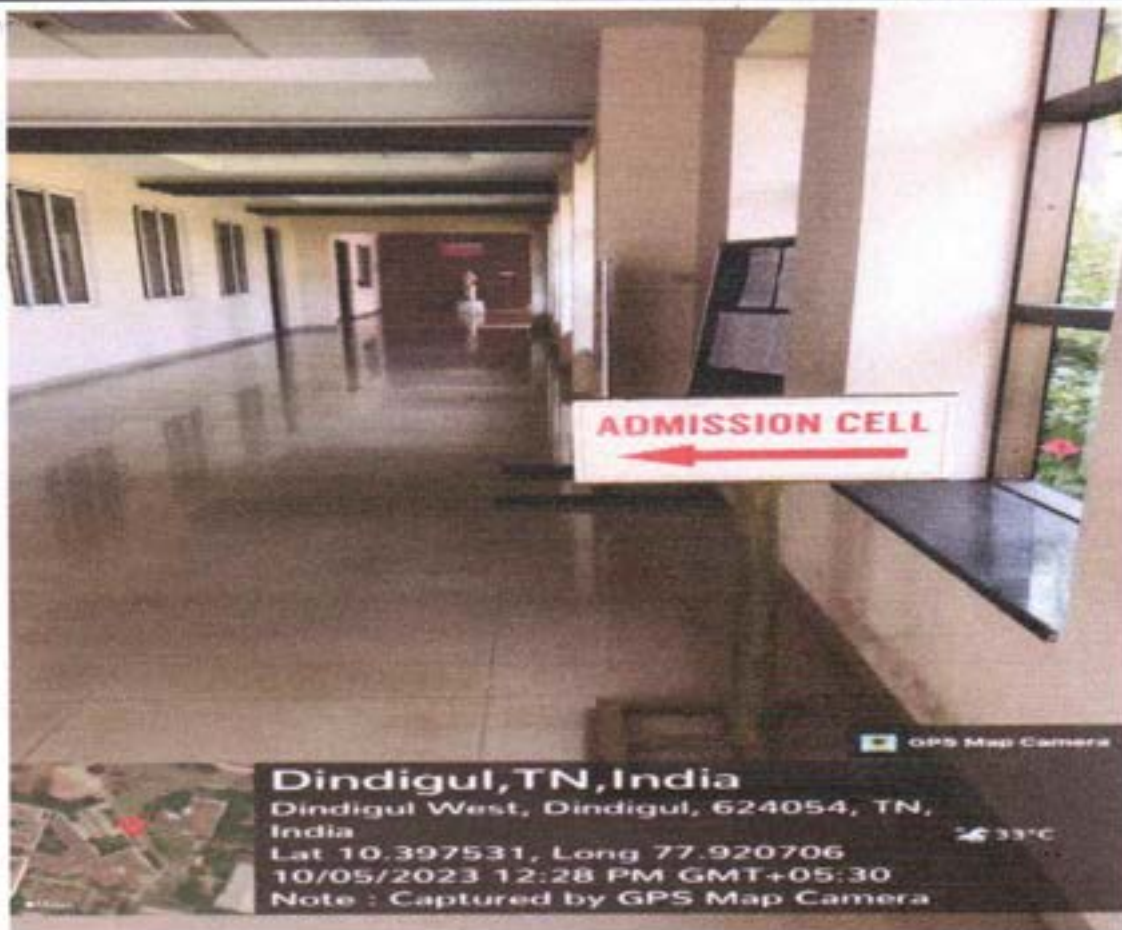
Divyangjan -friendly washrooms at B Block Ground Floor

Signage including tactile path, lights, display boards and signposts:

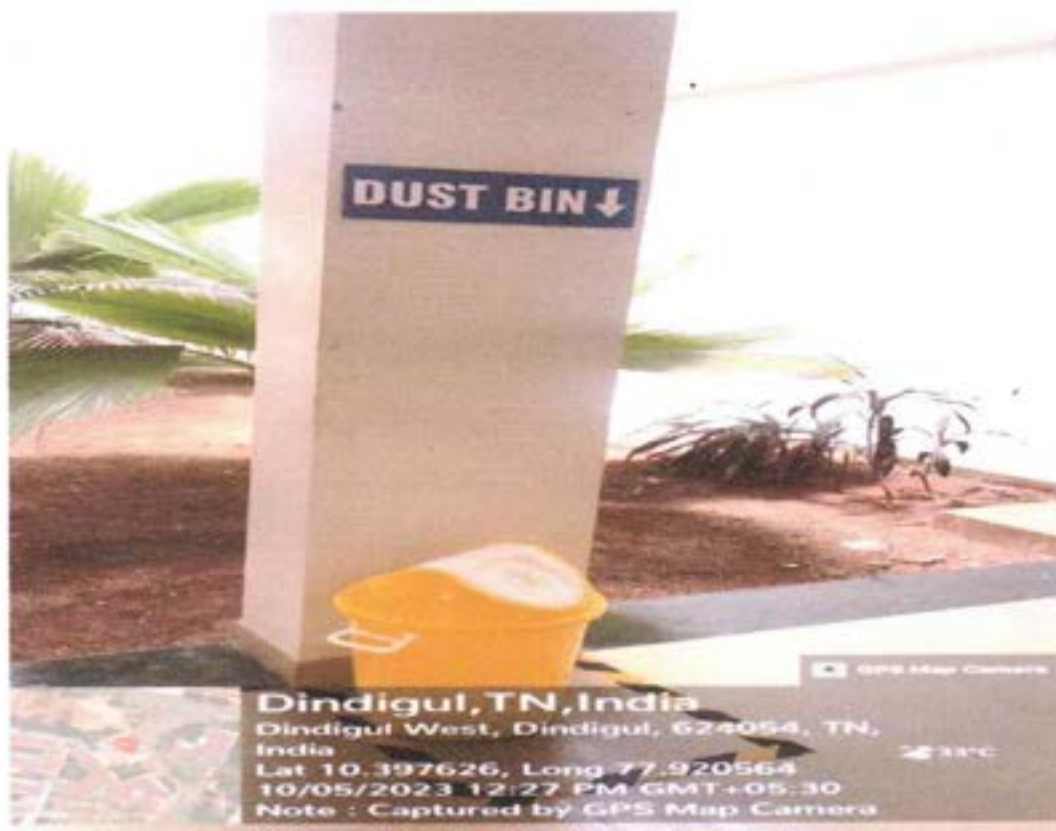
- As far as the disabled persons are concerned availability of Sign boards play a vital role for their assistance.
- Various Sign and Display boards were placed in the campus which makes the disabled people to move comfortably inside the campus without any confusions.



Sign Board in the Entrance indicating various places in the campus



Sign Board Indicating Way to Admission Cell



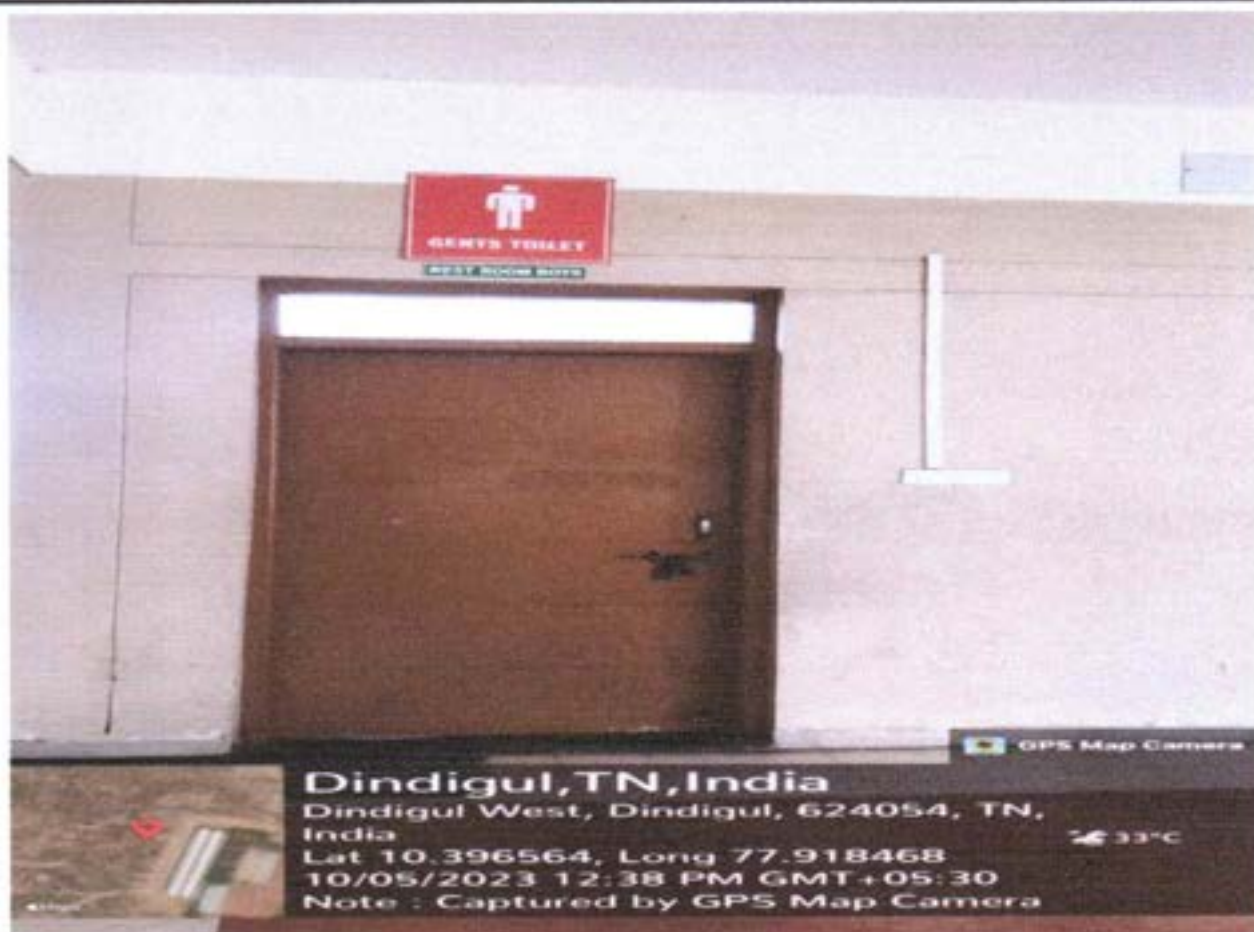
Sign Board indicating Dust Bin



Sign Board Indication B and C Blocks



Sign Board Indicating Staircase for Fire Exit



Sign Board Indicating Gents Toilet



Sign Board Indicating Labs in B Block



Sign Board Indicating the importance of Wearing Masks



Sign Board to create awareness for maintaining campus as Tobacco Free Zone

Scribe for Writing Exam:

There is a provision for allowing scribes for needed students to attend the examination.



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