Indra Ganesan
COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC
IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 7

INSTITUTIONAL VALUES AND BEST PRACTICES

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING

Dr. G. Balakrishnan, M.E. Ph.D.,
Principal

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Date: .....

TO WHOMSOEVER IT MAY CONCERN

7.1.2: The Institution has facilities and initiatives for

1. **Alternative sources of energy and energy conservation measures**
2. **Management of the various types of degradable and non degradable waste**
3. **Water conservation**
4. **Green Campus Initiatives**
5. **Disabled friendly, barrier free environment**

Options:

A. 4 or All of the above
B. 3 of the above
C. 2 of the above
D. 1 of the above
E. None of the above

Responses: Option A.4 or All of the above

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Manikandam, Trichy-620 012.

7.1 Institutional Values and Social Responsibilities

7.1.2 The Institution has Facilities and Initiatives for

1. Alternate Sources of Energy and Energy Conservation
2. Management of the Various types of Degradable and Non-Degradable
3. Water Conservation
4. Green Campus Initiatives
5. Disabled Friendly, Barrier Free Environment

GEO – TAGGED PHOTOGRAPHS / VIDEOS OF THE FACILITIES

Criterion 7	Institutional Values and Best Practice	100

Key Indicator 7.1 – Institutional Values and Best Practice

7.1.2: The Institution has facilities and initiatives for

1. **Alternative sources of energy and energy conservation measures**
2. **Management of the various types of degradable and non degradable waste**
3. **Water conservation**
4. **Green Campus Initiatives**
5. **Disabled friendly, barrier free environment**

Responses: **Option A.4 or All of the above**

GEO –TAGGED PHOTOGRAPHS / VIDEOS OF THE FACILITIES

TABLE OF CONTENTS

2	Management of the Various types of Degradable and Non-Degradable	Degradable and Non-Degradable Waste Bin
		Chemical Waste
		E-Waste
		Segregation of Waste
		Napkin Disposal Machine
3	Water Conservation	Rain Water Harvesting Pond
		Rain Water Harvesting Pit
		Bore Well
		Water Tank
		Water Distribution Lines
		Reverse Osmosis Plant (RO Plant)
		Water Purifier
		Waste Water Recycling
4	Green Campus Initiatives	List of Trees and Samples in College Campus
		Tree Plantation Program
		Go Green Poster
		Vehicle entry Restricted
		Say No to Plastic Poster
		Water Conservation Poster
		Barrier free Environmental Poster
		College Campus Photos
5	Disabled Friendly, Barrier Free Environment	Lift
		Ramp Facilities

		Wheel Chair
		Ambulance Facilities
		Fire Extinguishers and Fire Buckets
		Disabled Friendly Washroom (Boys)
		Disabled Friendly Washroom (Girls)

2022-2023

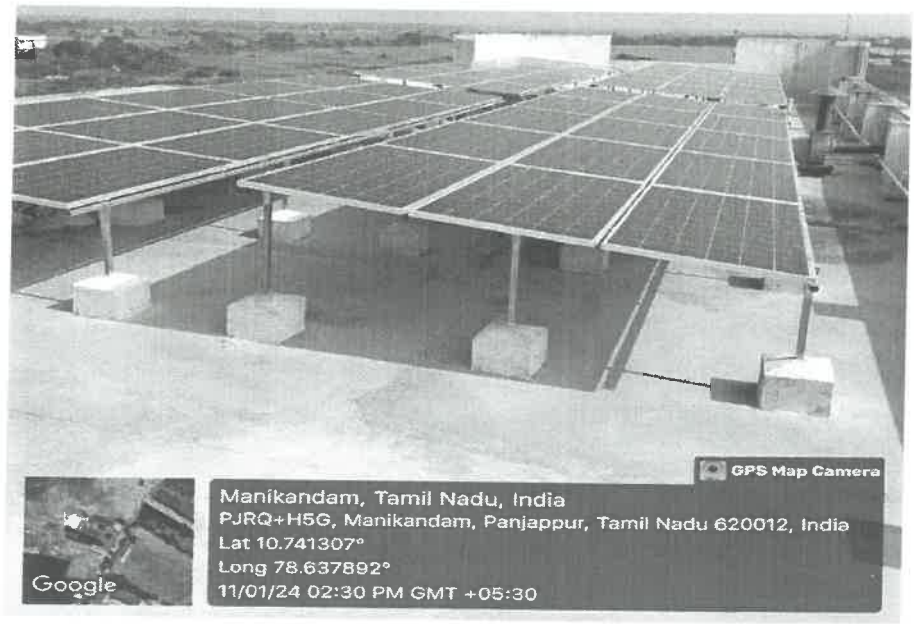
7.1.2: The Institution has facilities and initiatives for

1. ALTERNATIVE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

ALTERNATE SOURCES OF ENERGY AND ENERGYCONSERVATION MEASURES

SOLAR PANEL - 20 kW

Solar panels are a renewable energy sources that have been installed on our college campus to reduce carbon footprint and save energy costs. Solar panels can also help colleges achieve their sustainability goals and demonstrate their commitment to environmental stewardship.



Technical Specification for Panel : MODEL NO :KS72P320 , Kirloskar Solar

1. Maximum Power =320Watts
2. Maximum Power voltage (vmp) = 36.58 v
3. Maximum Power current(Imp) = 8.76 A
4. Open circuit voltage 45.92V
5. Short circuit current (ISC) = 9.12A
6. Safety class = II
7. Application class = A

Technical Specification for Inverter, MID 20k ktl3-x, GROWATT INVERTER

1. Maximum PV Voltage = 1100 DC v
2. PV Voltage Range = 160-1000 DC v
3. PV Isc = 33.8 DC
4. Max. Input current =27 DC
5. Max output power = 20,000W
6. Nominal output voltage = 230/400v AC v
7. Max Output current = 31.9 AC a
8. Nominal Output frequency = 50 / 60 hz.

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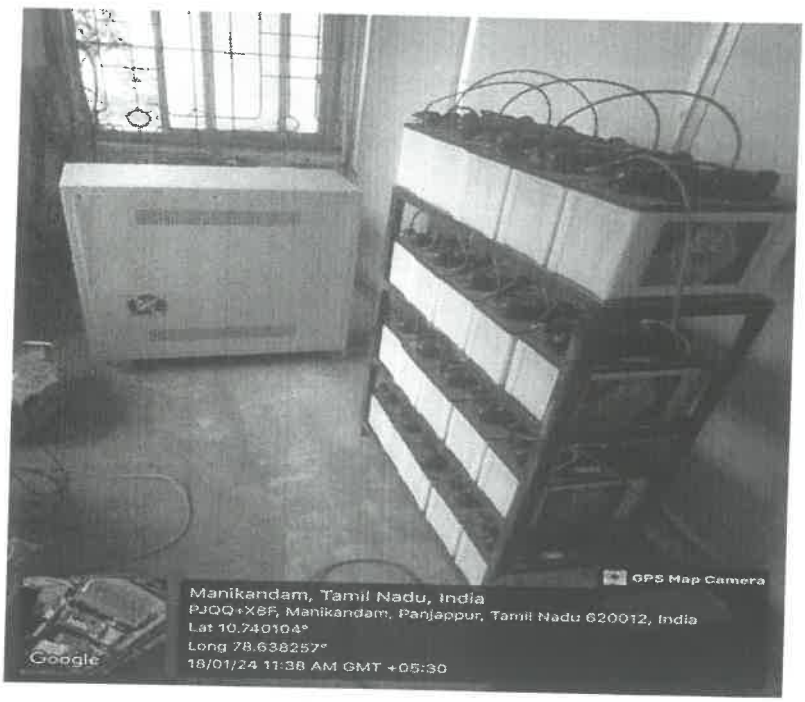
UNITTERUPTED POWER SUPPLY (20 KVA)

MAIN BUILDING – (COMPUITER LAB.1)

UPS systems provide continuous power backup during outages, ensuring critical operations like classroom technology, research equipment, and systems remain uninterrupted.



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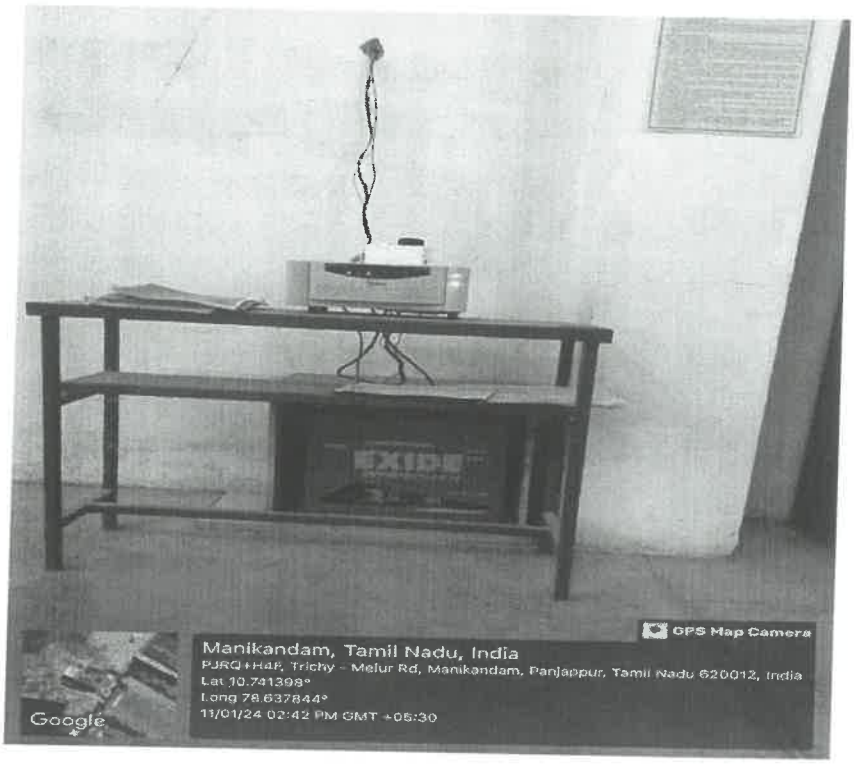
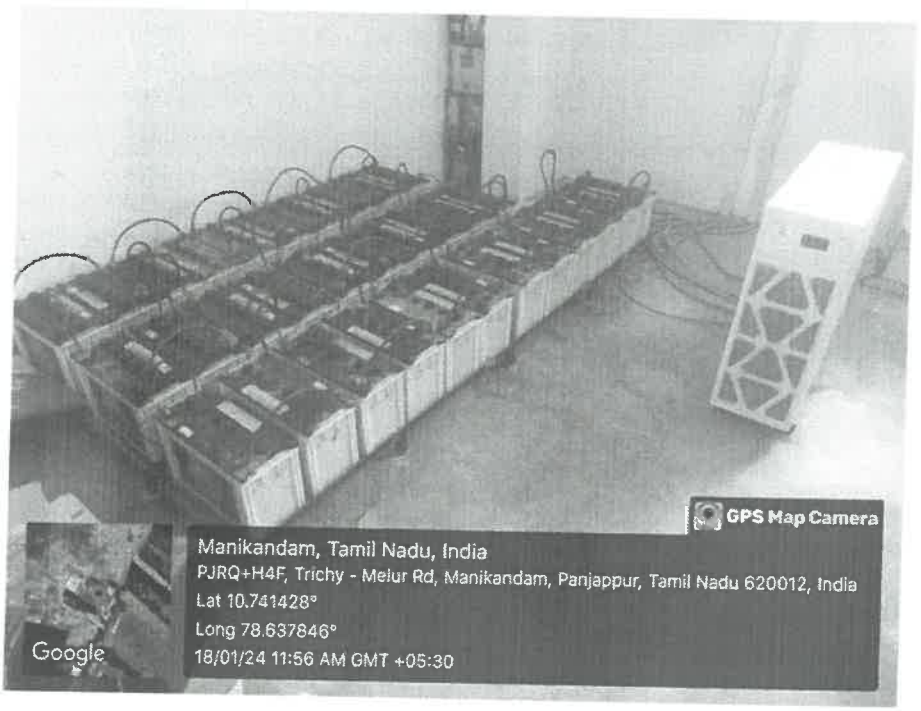
MAIN BUILDING – (OFFICE – 2 KVA)



UNITTERUPTED POWER SUPPLY – (30 KVA)



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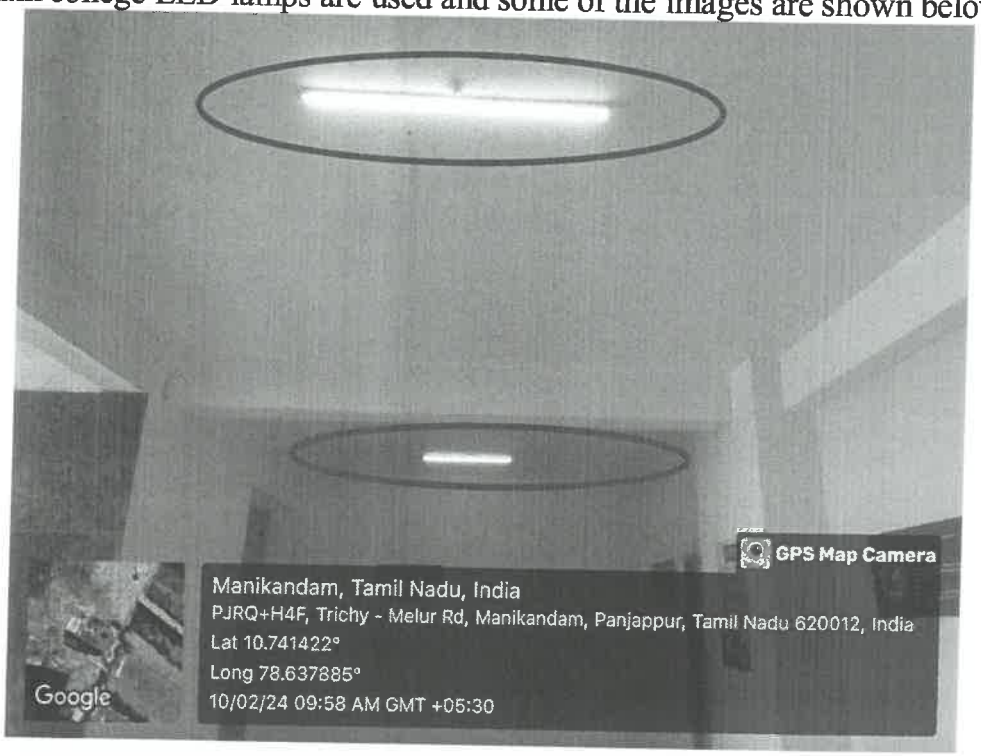
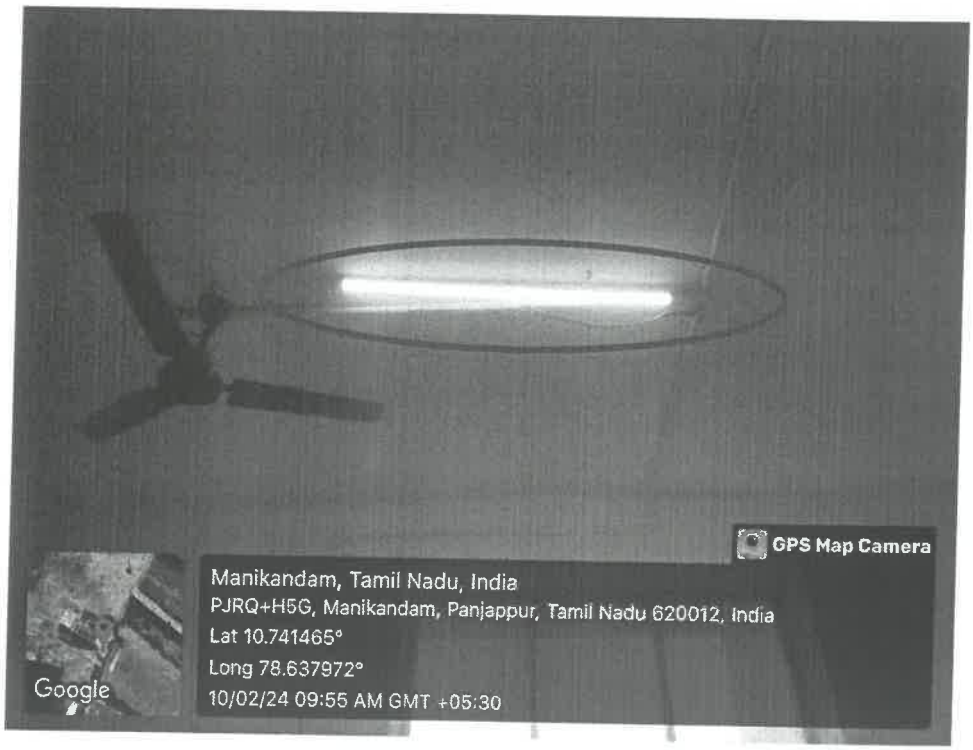
ENERGY CONSERVATION – LED LAMPS

In our main college LED lamps are used and some of the images are shown below.





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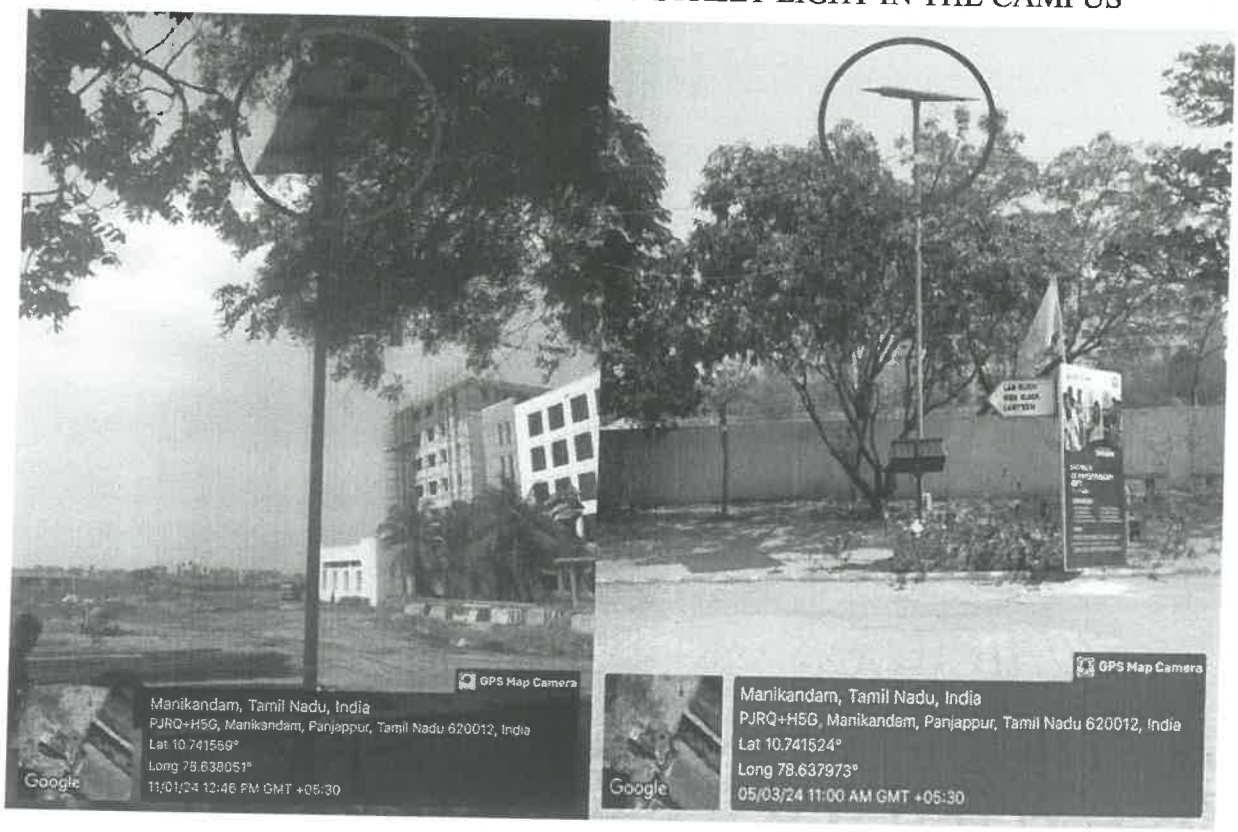
ENERGY CONSERVATION – SOLAR BASED STREET LIGHT IN THE CAMPUS



ENERGY CONSERVATION – E-VEHICLE

Battery Vehicles has reduced carbon foot print, improved air quality on college campus and cost savings.

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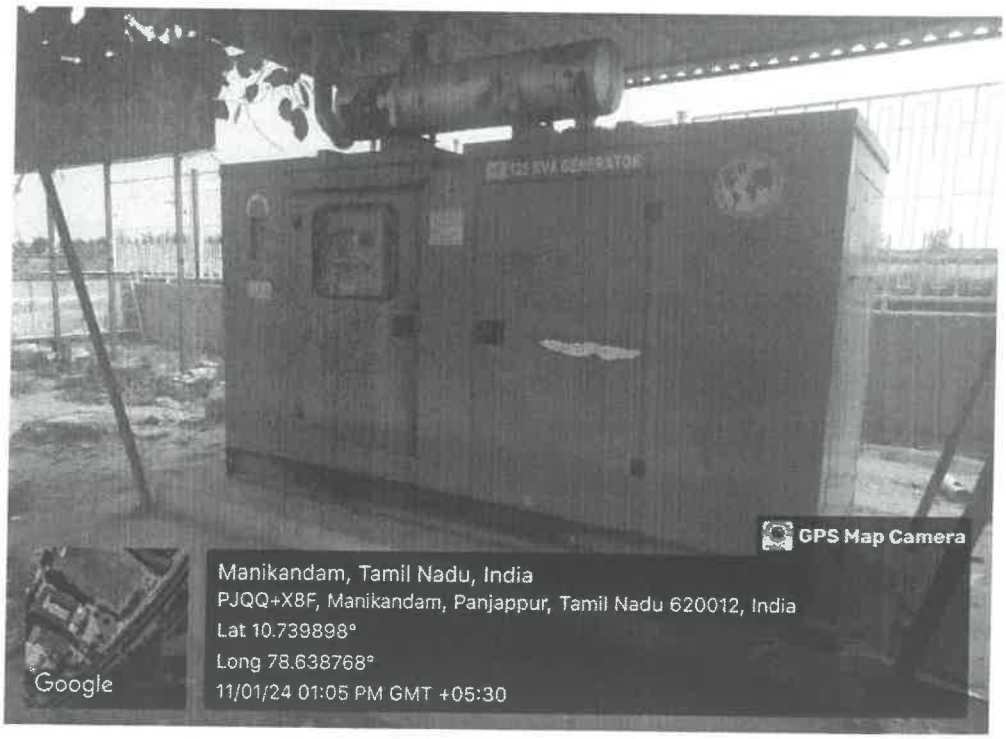
DIESEL GENERATOR (125 KVA)

Diesel generators are used in our college campus to provide the continuity of options during the power outages and emergency lighting in case of emergencies.



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7.1.2: The Institution has facilities and initiatives for

2. MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON DEGRADABLE WASTE

MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Main Building)

DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Main Building – First Floor)

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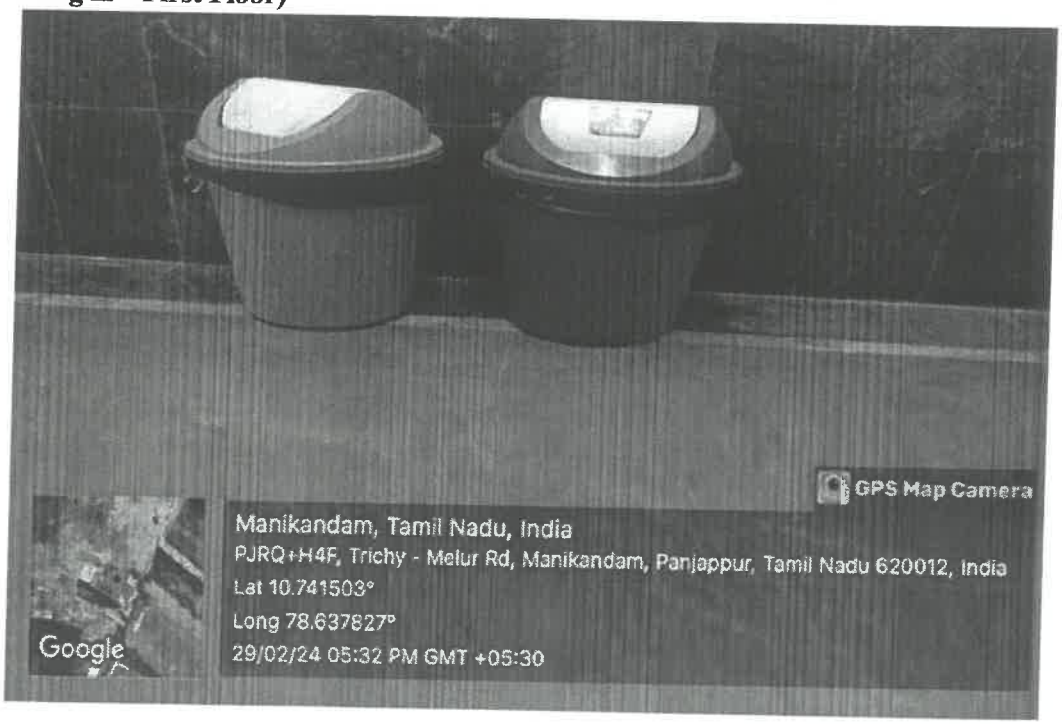
DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – Ground Floor)

DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – First Floor)



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DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – Second Floor)

CHEMICAL WASTE

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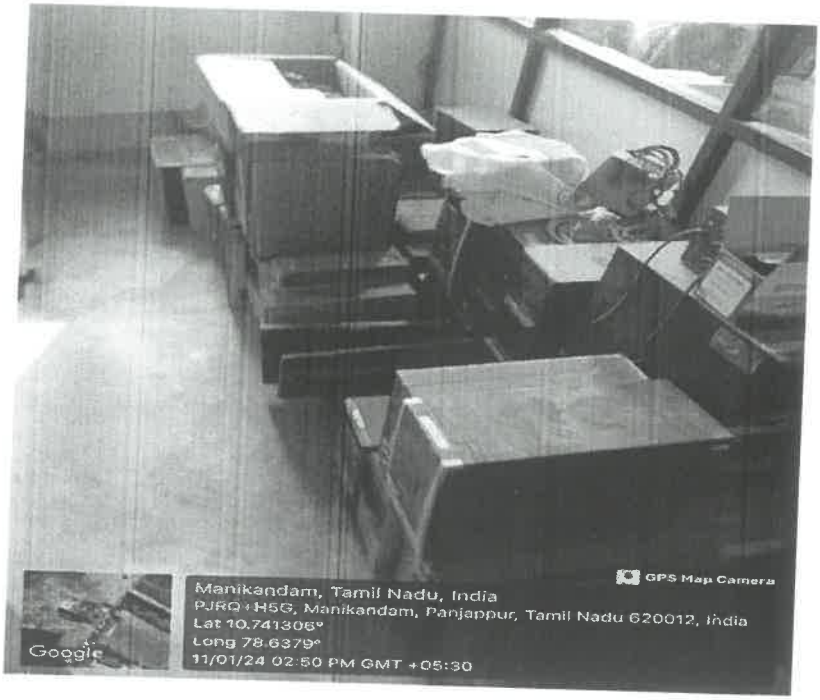
E WASTE



Dump Yard

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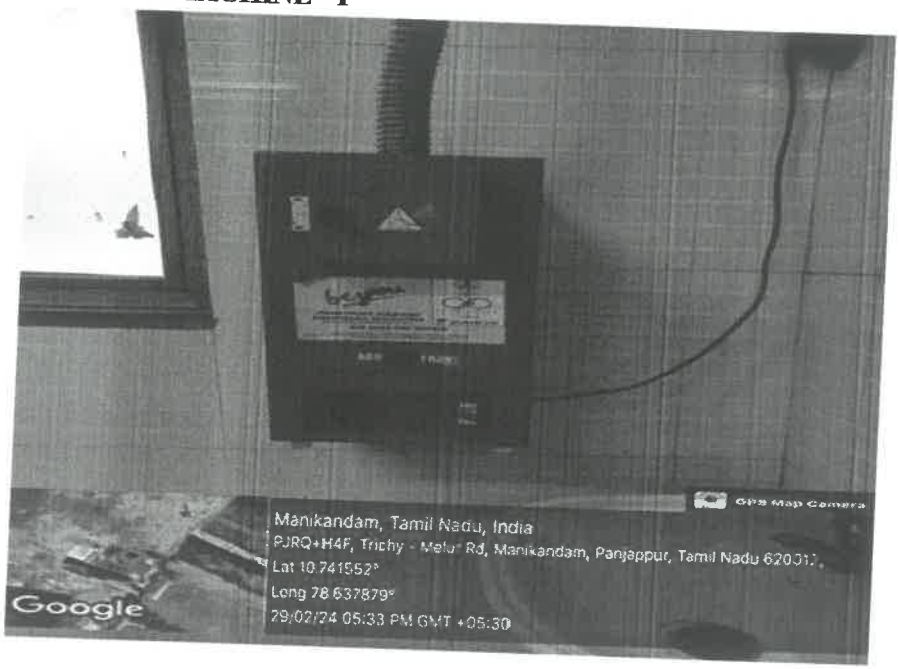
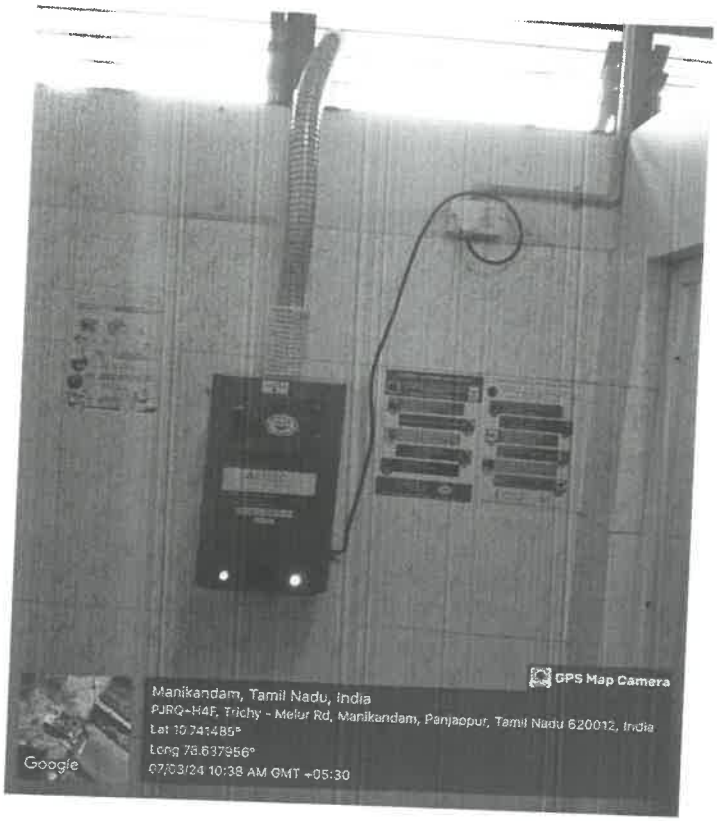
NAPKIN DISPOSAL MACHINE - I



NAPKIN DISPOSAL MACHINE - II



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SEGREGATION OF WASTE

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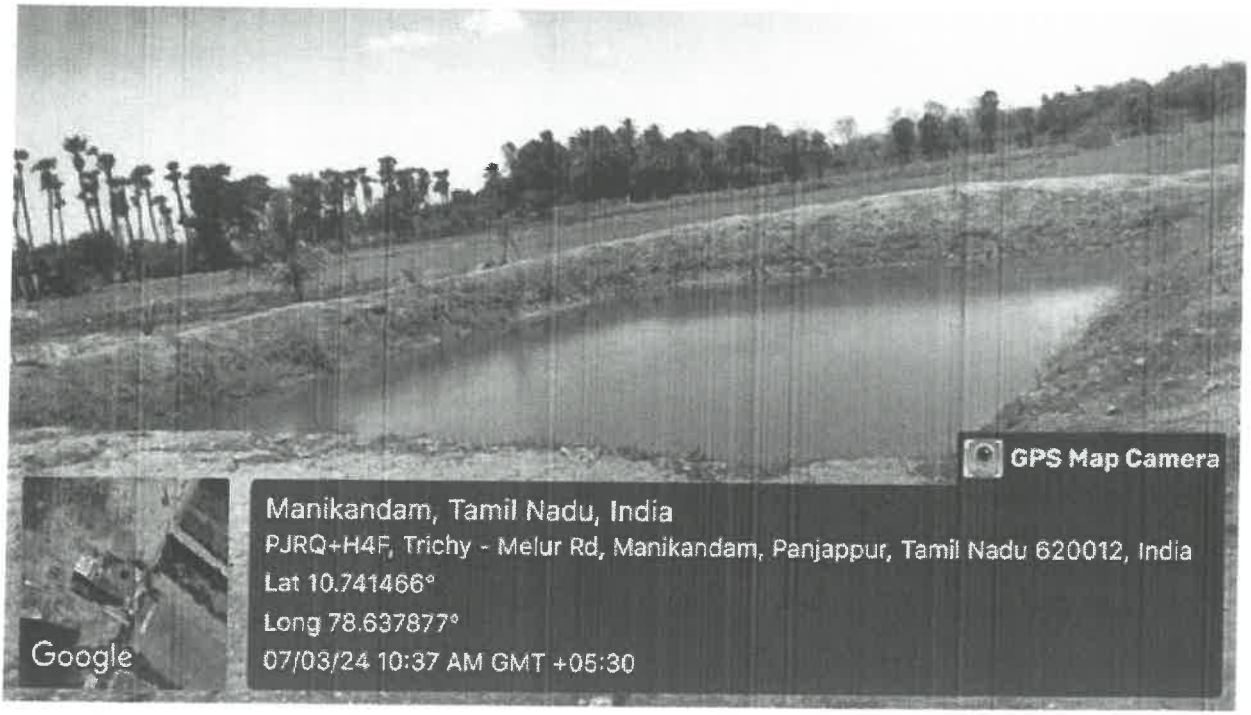
7.1.2: The Institution has facilities and initiatives for

3. WATER CONSERVATION

RAIN WATER HARVESTING POND



RAIN WATER HARVESTING PLAN AND STRUCTURE

The Institution emphasizes the importance of water conservation among students and staffs. Various measures are being taken to preserve and conserve it. The huge volume of rainwater from the rooftop is collected in rain water harvesting pits that are constructed in the campus. This water stored in the pits percolates down to the ground which helps in ground water level improvement. The institute ensures that the water wastage is minimized at an optimal level and the leaky taps and pipes are under regular check and hence no loss of water is observed, neither by any leakages nor by overflow from overhead tanks. Rain water harvesting provides an independent water supply during regional restrictions the water thus collected is then used for several purposes the institution adopts sprinkler procedure in large lawns and water is very judiciously used for plantation purposes, in the extreme summer season, when water is scarce the rain water thus collected and stored in the underground tank is then used for the maintenance of the green cover in the campus.

RAIN WATER HARVESTING PIT (1/5)

Rainwater harvesting pits are an essential component of RWH systems minimize storm water runoff, and contribute to environmental sustainability. In college campus rain water harvesting pit are provided around the building.

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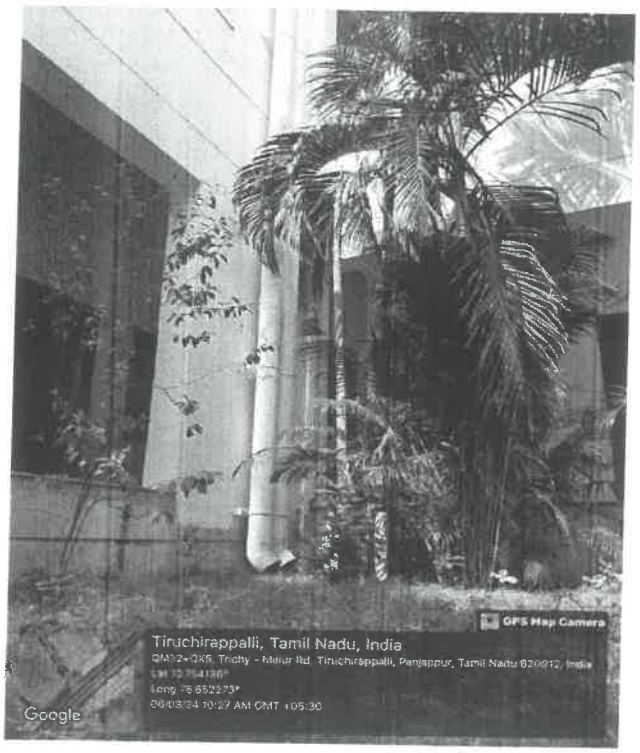
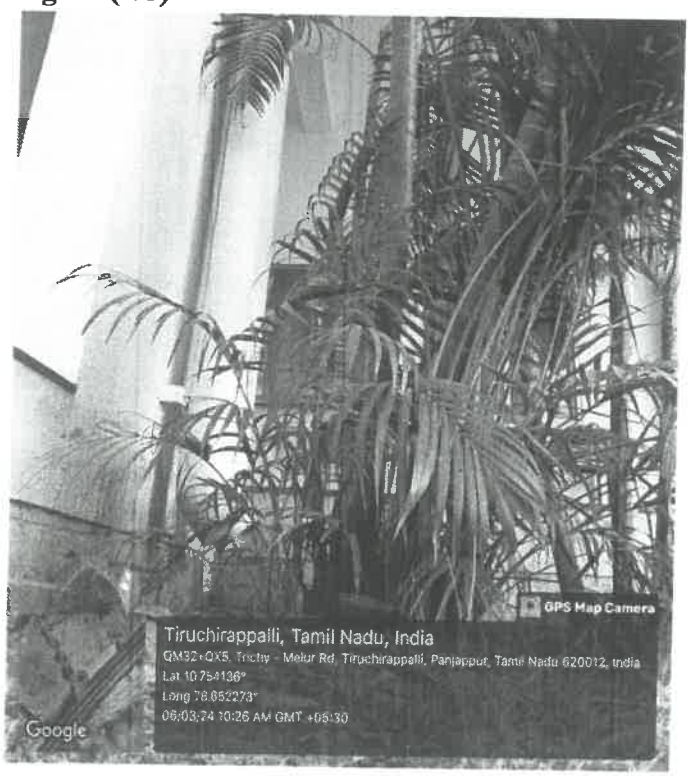


Rain Water Harvesting Pit (2/5)



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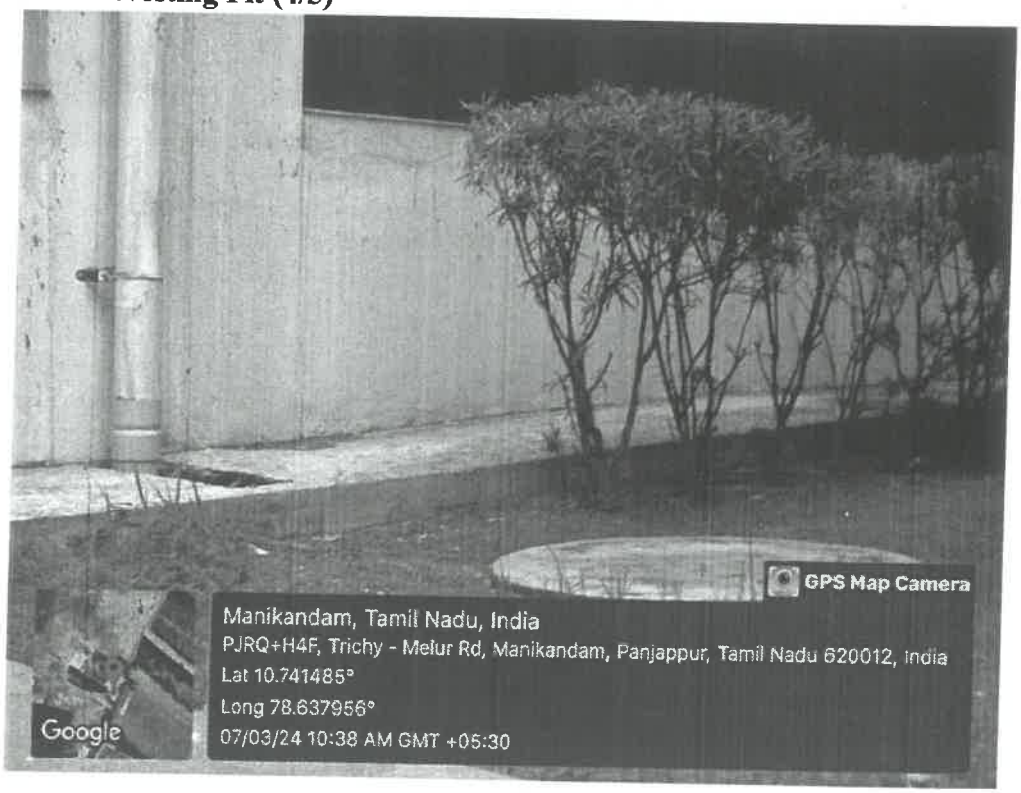
Rain Water Harvesting Pit (3/5)

Rain Water Harvesting Pit (4/5)



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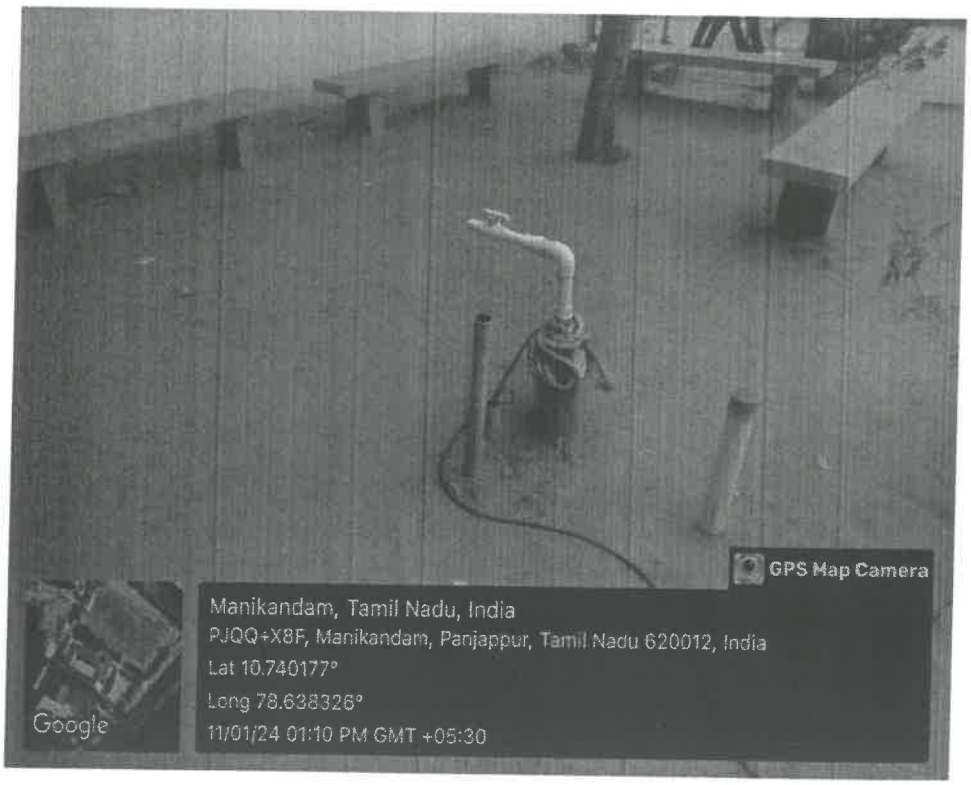
Rain Water Harvesting Pit (5/5)

BORE WELL 1



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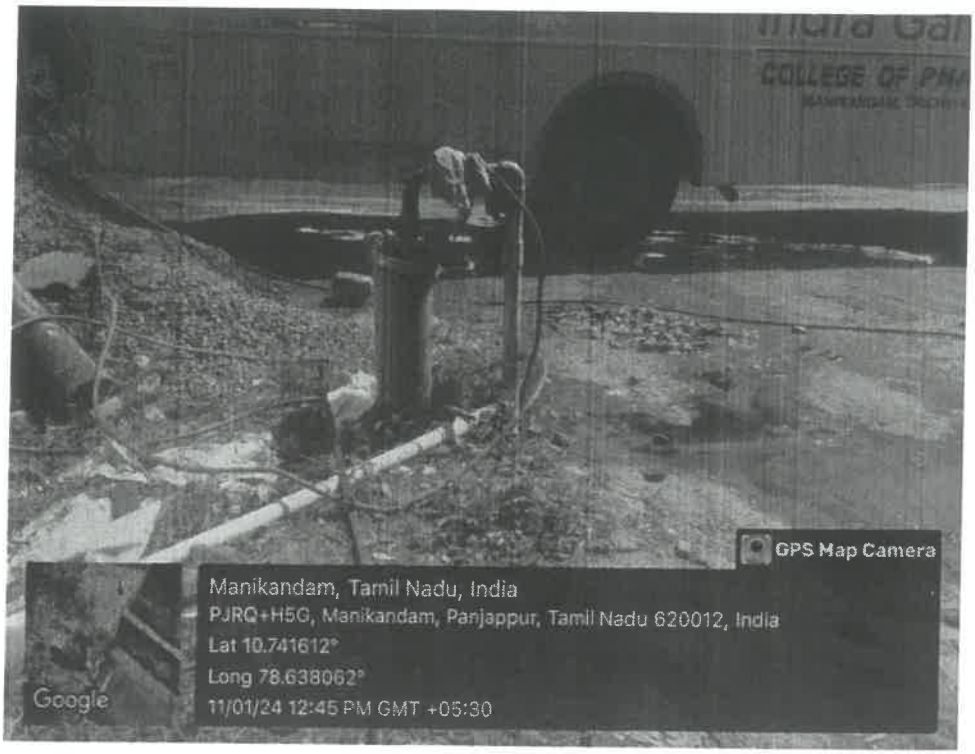
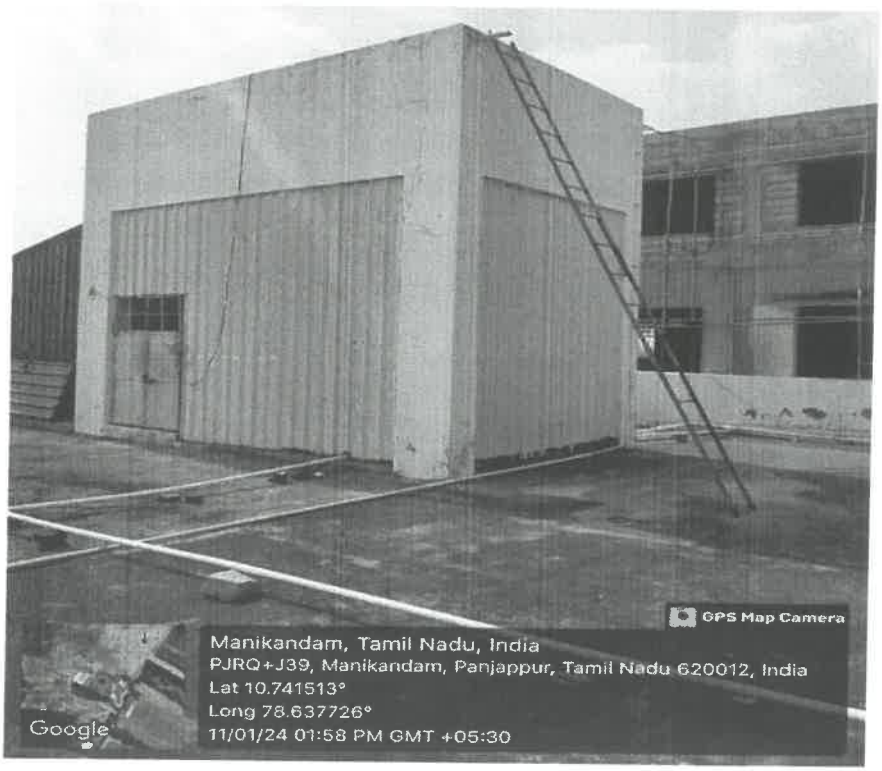
BORE WELL 2



WATER TANK – (MAIN BUILDING)



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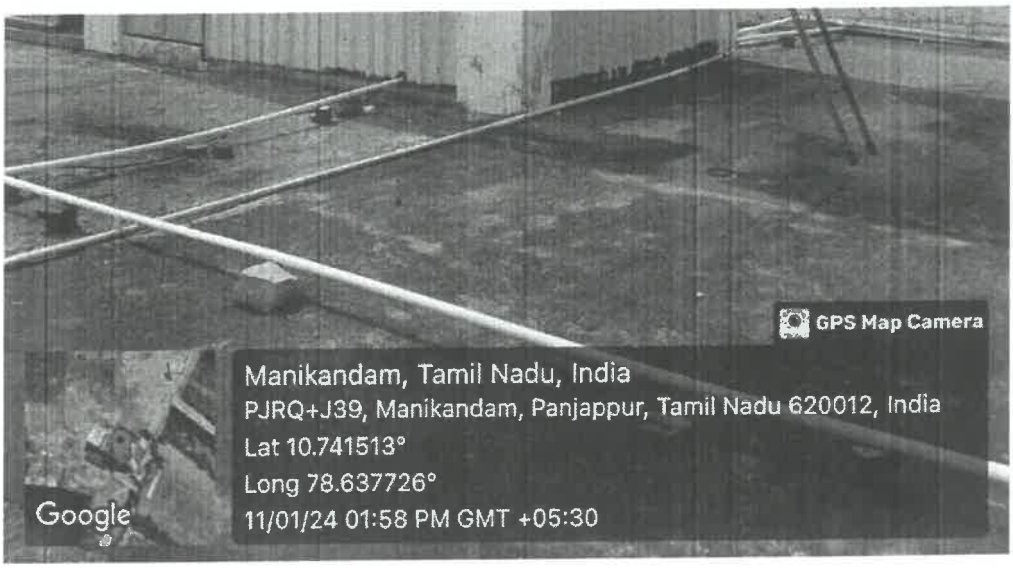
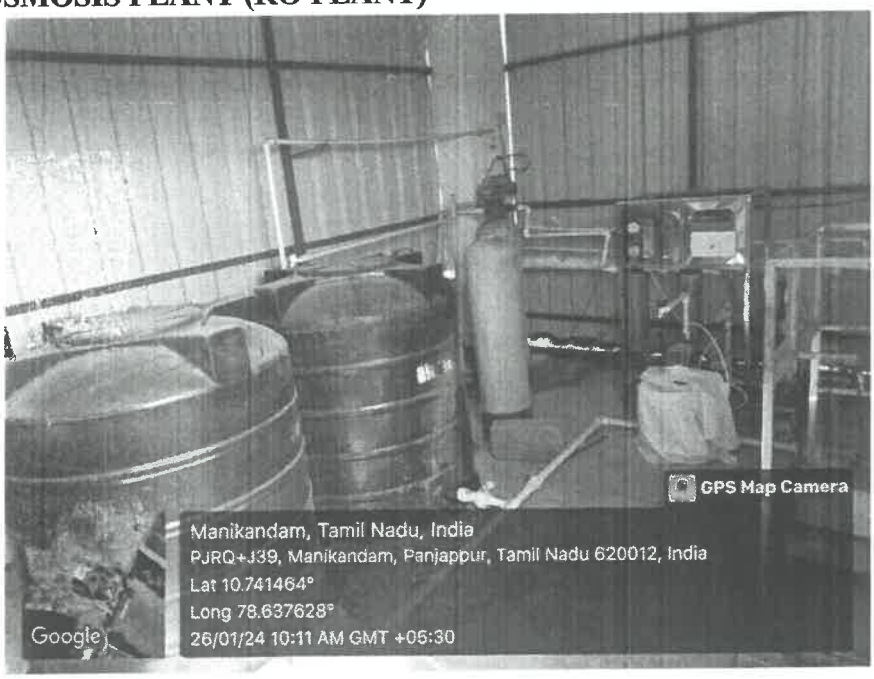
WATER DISTRIBUTION THROUGH PIPE LINES



REVERSE OSMOSIS PLANT (RO PLANT)



Waste Water Recycling - Drip Irrigation System

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7.1.2: The Institution has facilities and initiatives for

4. GREEN CAMPUS INITIATIVES

LIST OF TREES AND SAPLINGS IN COLLEGE CAMPUS

S.NO	Trees/ Saplings Tamil Name	Trees/Saplings English Name	Botanical NAME	COUNT	
				Trees	Saplings
1	Veppa Maram	Neem Tree	Azadirachta Indica	26	08
2	Naaval Maram	Java Plum or Indian Blackberry	Syzygium Cumini	38	05
3	Nochi Maram	Peacock Chaste Tree	Vitex Negundo	11	02
4	Netling Maram	Foxtail Palm	Wodyetia Bifurcata	97	15
5	Vaagai Maram	Syrrogate Tree	Albizia Lebbeck	50	17
6	Thennai Maram	Coconut Tree	Cocos Nucifera	88	18
7	Kumizh Thekku	Beechwood	Gmelina Arborea	53	11
8	Pungai Maram	Pongamia Tree	Milletia Pinnata	52	18
9	Badam Maram	Almond Tree	Prunus Dulcis	38	06
10	Malai Vemu Maram	Melia Dubia	Melila Composite Wild	8	02
11	Murungai Maram	Drumstick Tree	Moringa Oleiferea	7	04
12	Maa Maram	Mango Tree	Mangifera Indica	8	03
13	Konnai Maram	Indian laburnum Tree	Cassia Fisla	18	07
14	Nelli Maram	Gooseberry Tree	Phyllanthus Emblica	1	05
15	Thekku Maram	Teak Tree	Tectona Grandis	160	45
16	Koyya Maram	Guava Tree	Psidium Guajava	8	04
17	Pazha Maram	Jack Tree	Artocarpus Heterophyllus	2	-
18	Sapota Maram	Sapota Tree	Manilkara Zapota	6	01
19	Moongil Maram	Bamboo Tree	Bambusa vulgaris	19	09
20	Unknown			65	21
TOTAL				**761**	**213**

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TREE PLANTATION PROGRAM ON 2022- 2023

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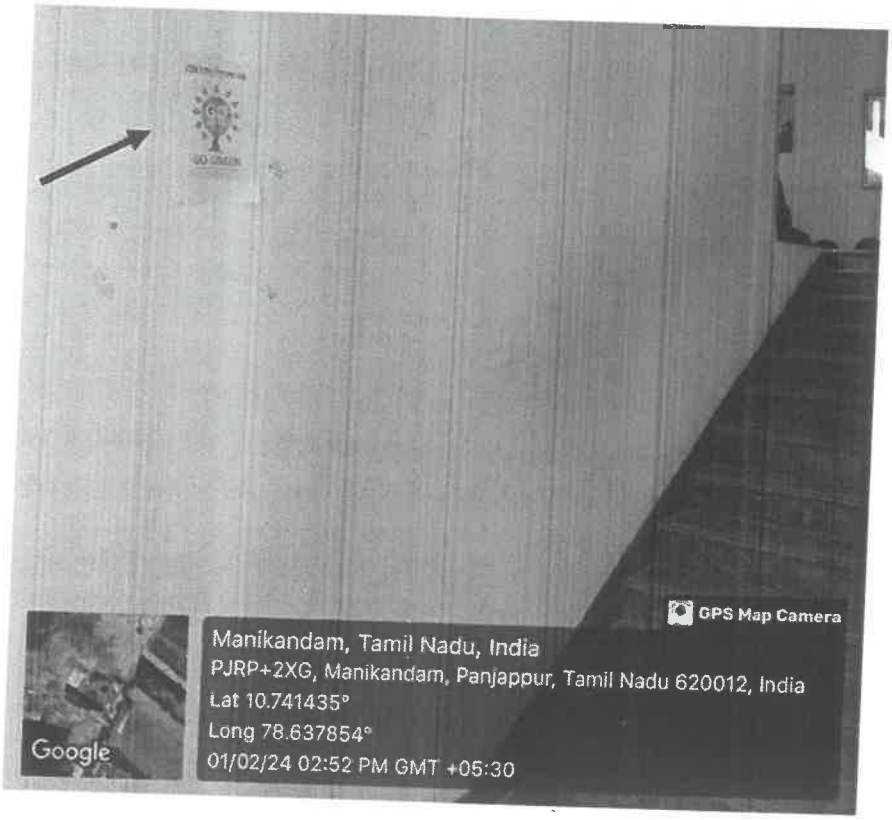
GO GREEN POSTER



VEHICLE ENTRY RESTRICTED

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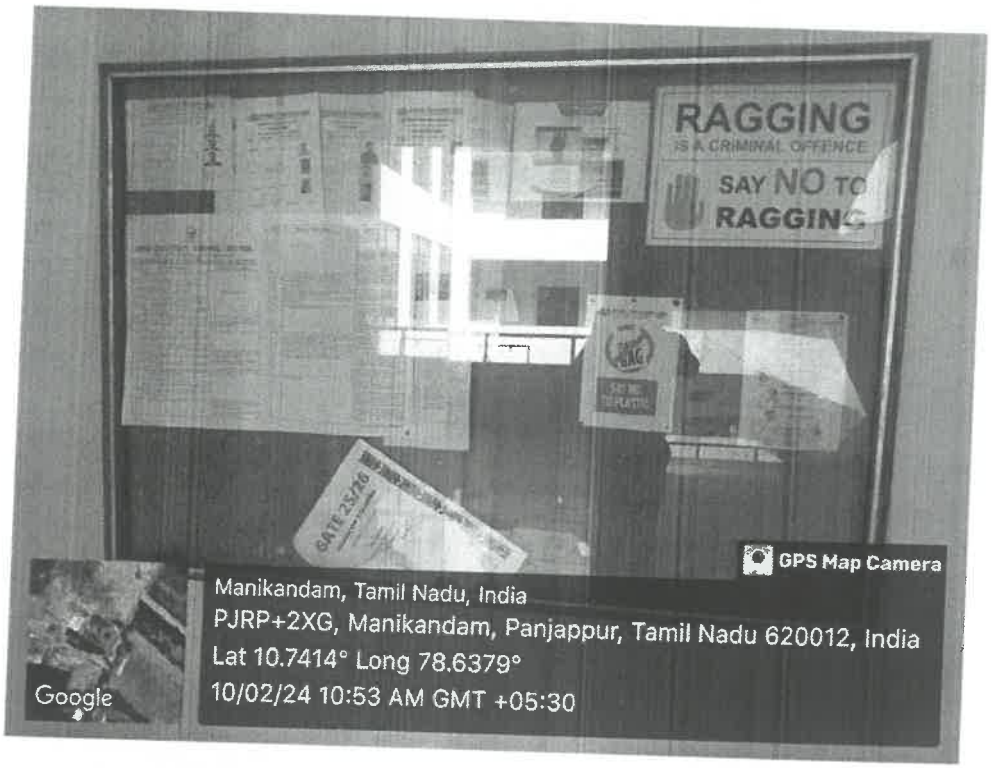
SAY NO TO PLASTIC POSTER ON NOTICE BOARD



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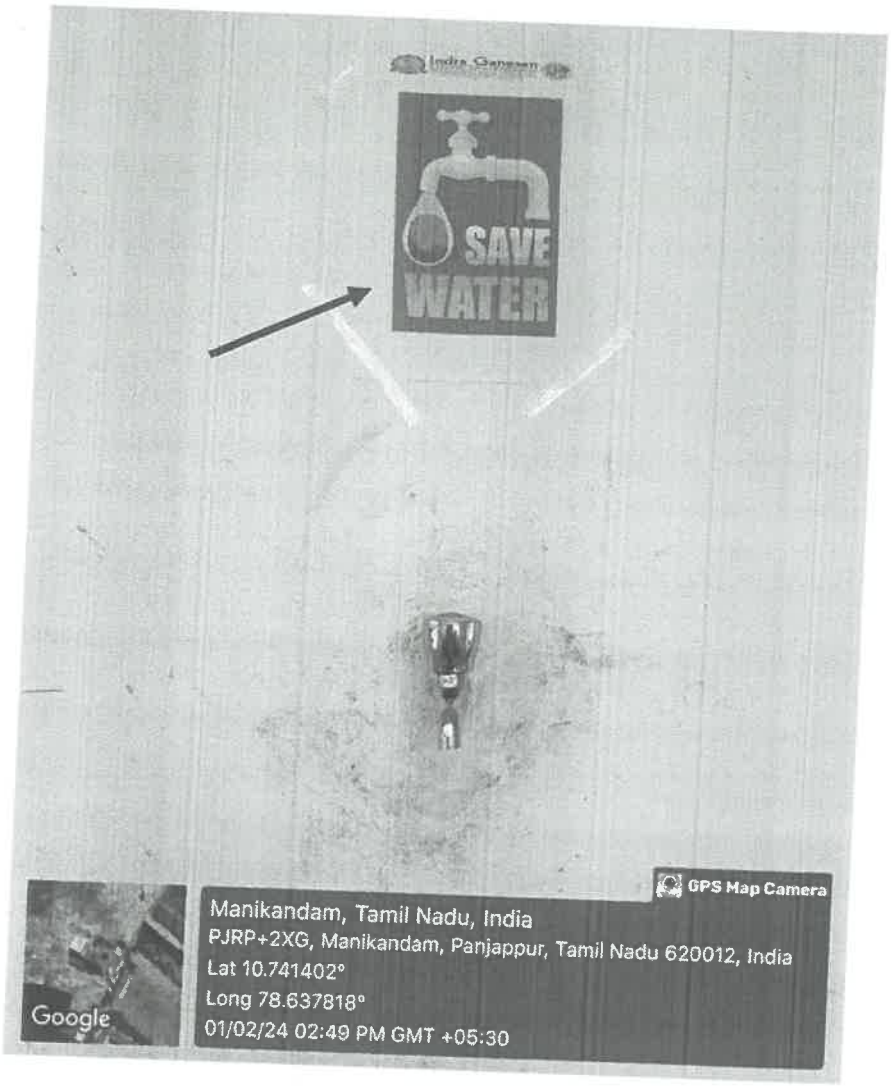
WATER CONSERVATION POSTER



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BARRIER FREE ENVIRONMENT POSTER

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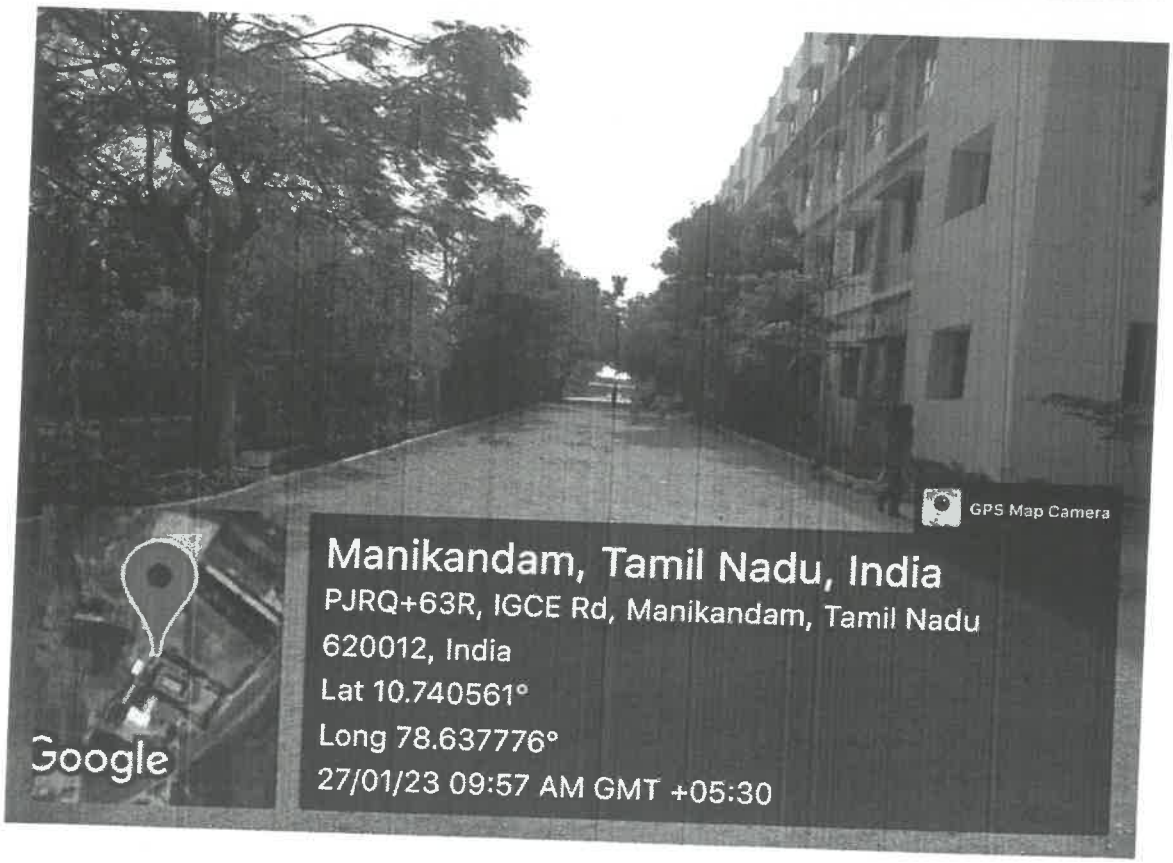
COLLEGE CAMPUS PHOTOS (Main Building with Garden)



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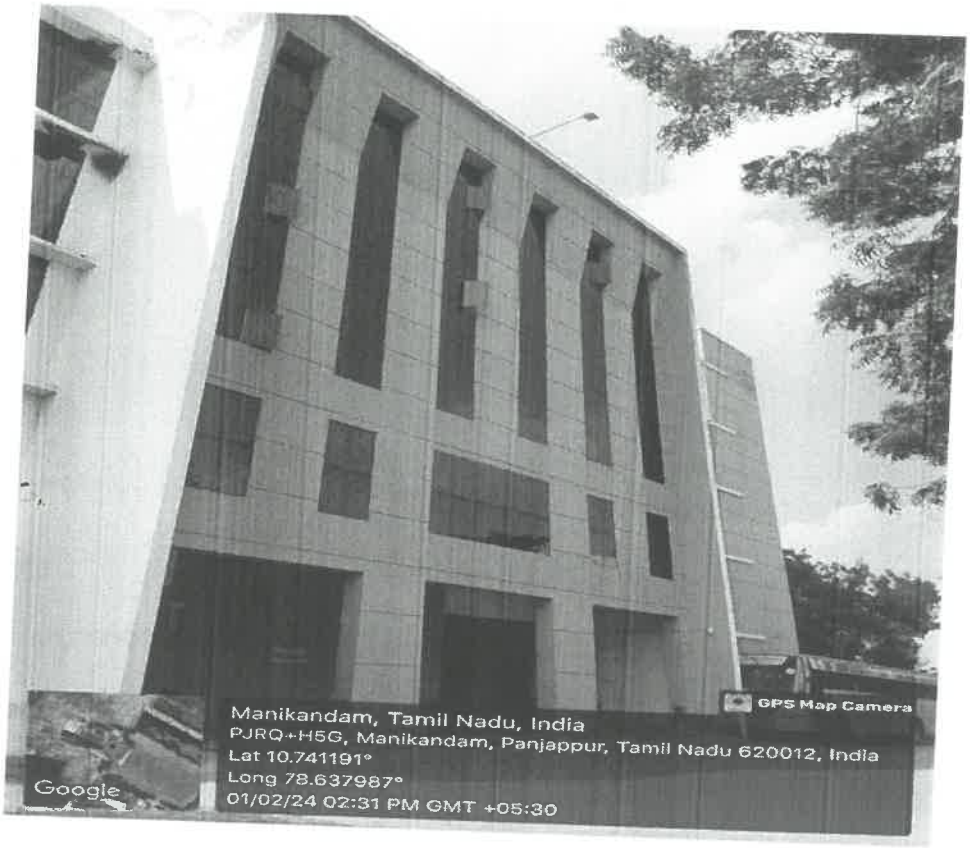
Block - II



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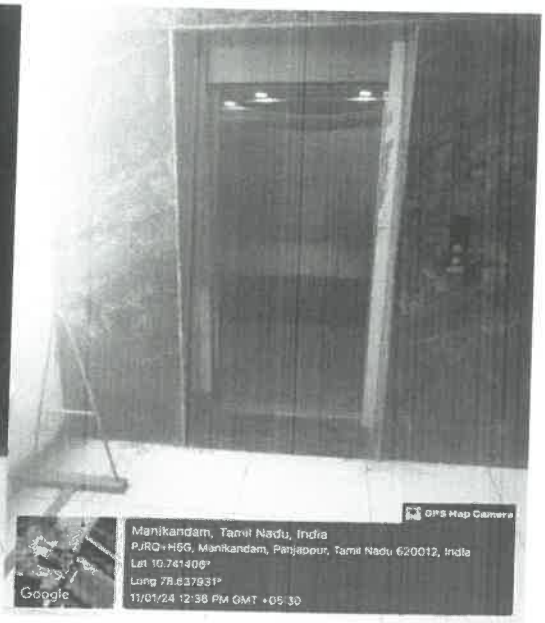
7.1.2: The Institution has facilities and initiatives for

5. DISABLED FRIENDLY, BARRIER FREE ENVIRONMENT

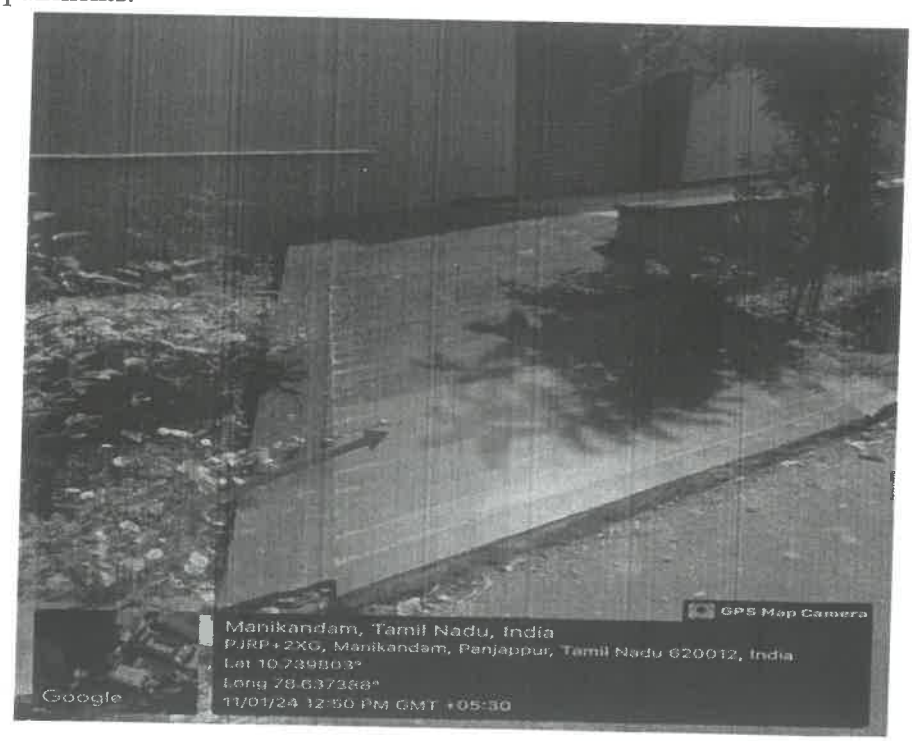
DISABLED FRIENDLY, BARRIER FREE ENVIRONMENT

LIFT



Ramp Facilities

Main building has a ramp designed for individuals with disabilities, particularly those with mobility impairments.



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WHEEL CHAIR

AMBULANCE FACILITIES

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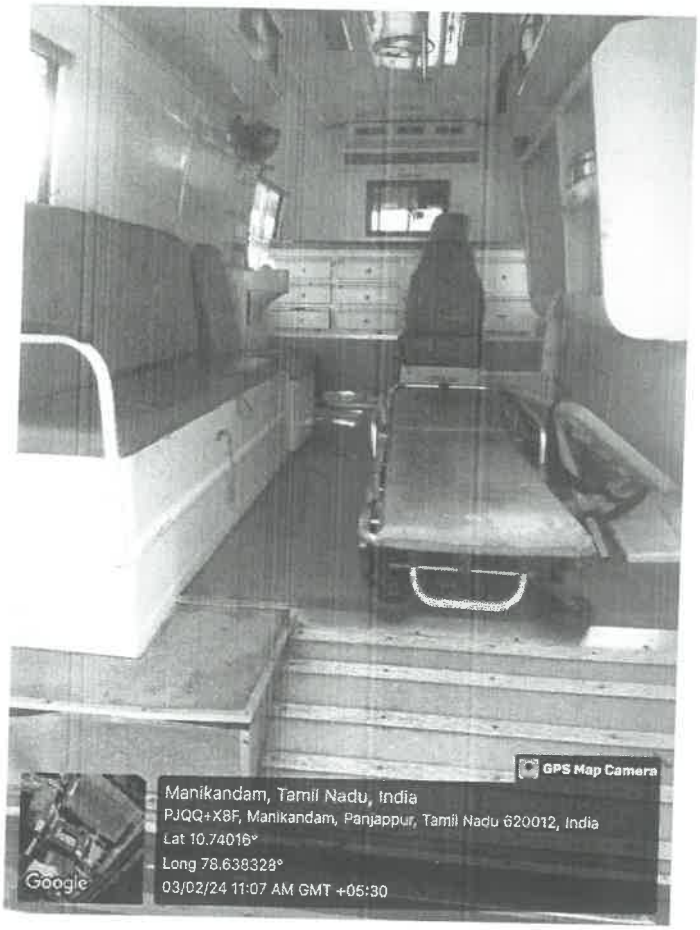

FIRE EXTIGUISHERS AND FIRE BUCKETS FIRE EXTIGUISHER
(Main Building - Ground Floor)

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.

FIRE EXTINGUISHERS - Main Building - First Floor

FIRE EXTINGUISHERS - Engineering Building - First Floor

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FIRE EXTINGUISHERS - Engineering Building – Second Floor

FIRE EXTINGUISHERS - Engineering Building – Third Floor

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FIRE BUCKETS - MAIN BUILDING 1 (First Floor)

FIRE BUCKETS - MAIN BUILDING 1 (Second Floor)

Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
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DISABLED FRIENDLY WASHROOM (Gens)

DISABLED FRIENDLY WASHROOM (Ladies)

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2021-2022

7.1.2: The Institution has facilities and initiatives for

1. ALTERNATIVE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

SOLAR PANEL - 20 KW

Solar panels are a renewable energy sources that have been installed on our college campus to reduce carbon footprint and save energy costs. Solar panels can also help colleges achieve their sustainability goals and demonstrate their commitment to environmental stewardship.

Technical Specification for Panel : MODEL NO :KS72P320 , Kirloskar Solar

1. Maximum Power =320Watts
2. Maximum Power voltage (vmp) = 36.58 v
3. Maximum Power current(Imp) = 8.76 A
4. Open circuit voltage 45.92V
5. Short circuit current (ISC) = 9.12A
6. Safety class = II
7. Application class = A

Technical Specification for Inverter, MID 20k ktl3-x, GROWATT INVERTER

1. Maximum PV Voltage = 1100 DC v
2. PV Voltage Range = 160-1000 DC v
3. PV Isc = 33.8 DC
4. Max. Input current =27 DC
5. Max output power = 20,000W
6. Nominal output voltage = 230/400v AC v
7. Max Output current = 31.9 AC a
8. Nominal Output frequency = 50 / 60 hz.

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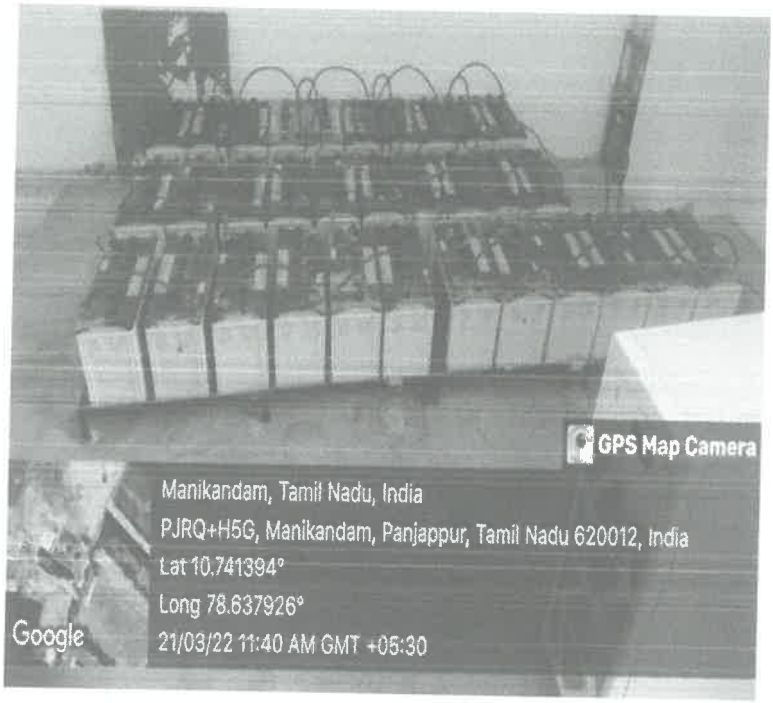
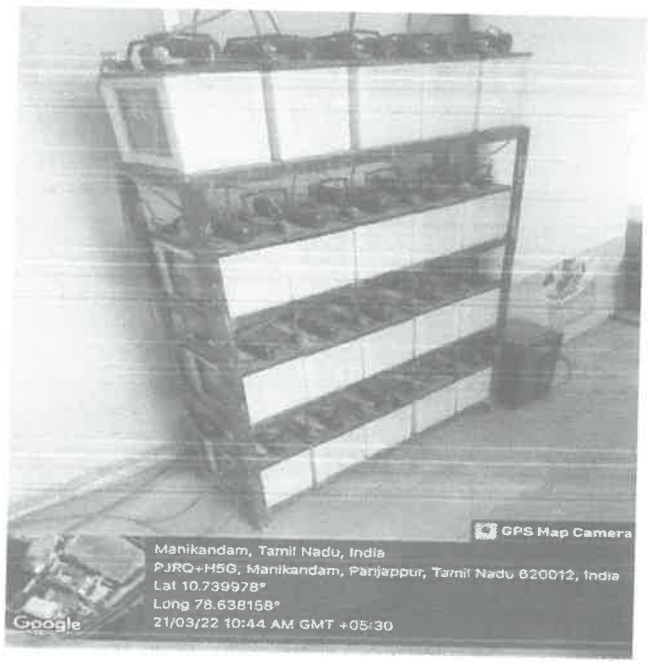
UNITTERUPTED POWER SUPPLY (20 VA)



MAIN BUILDING – (COMPUITER LAB.1)

UPS systems provide continuous power backup during outages, ensuring critical operations like classroom technology, research equipment, and systems remain uninterrupted.



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UNITTERUPTED POWER SUPPLY – (30 KVA)

ENERGY CONSERVATION – LED LAMPS

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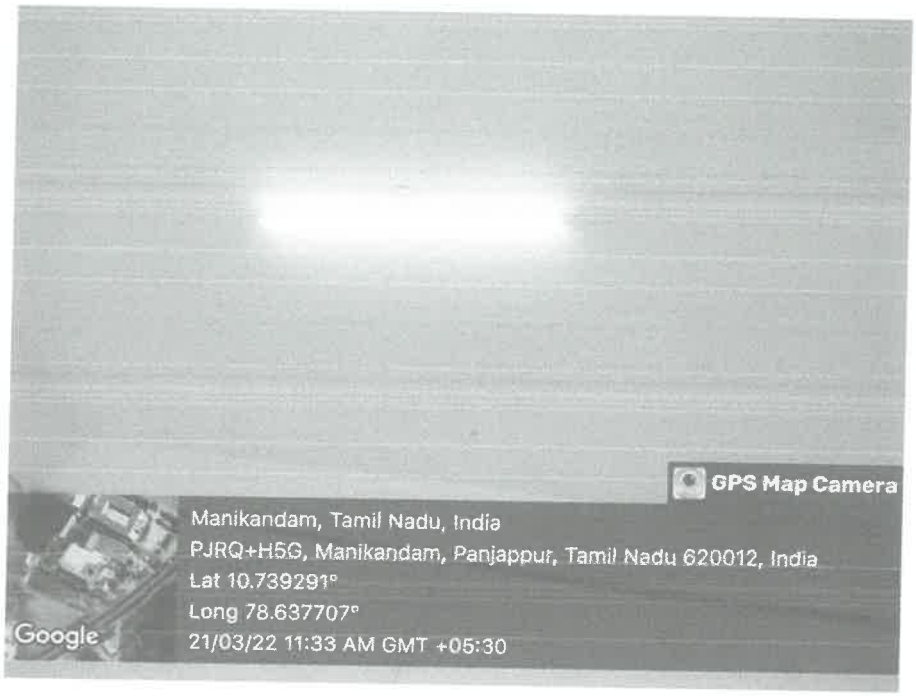
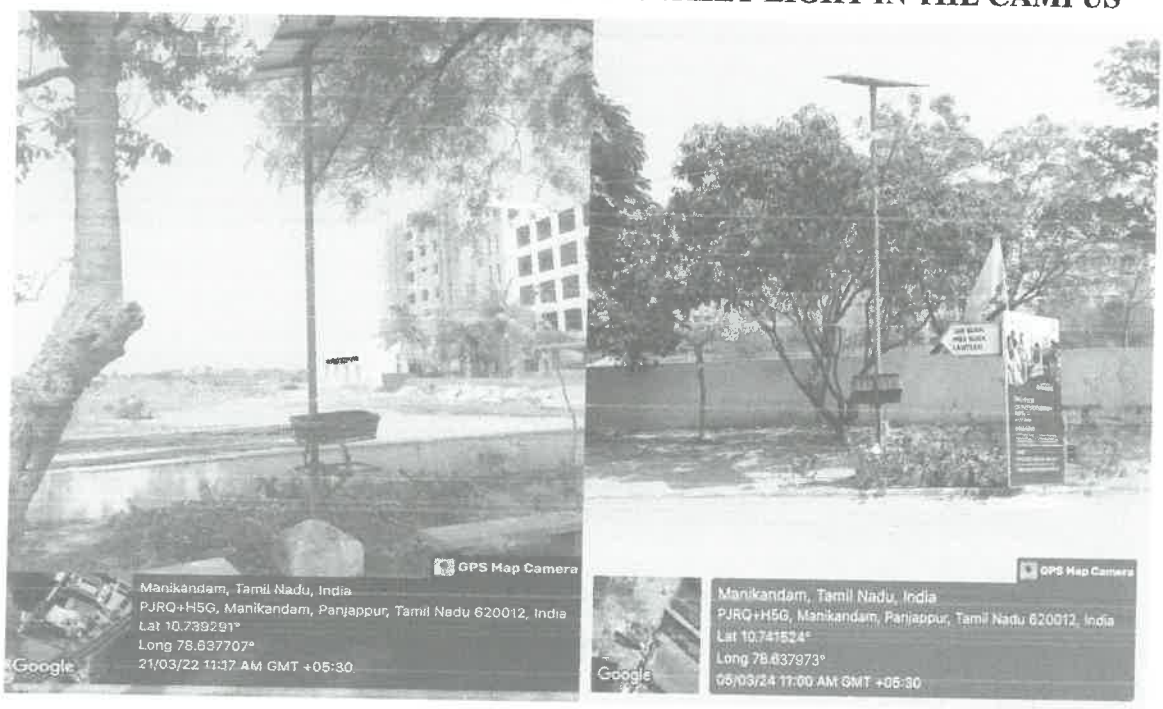
Manikandam, Trichy-620 012.

In our main college LED lamps are used and some of the images are shown below.



ENERGY CONSERVATION – SOLAR BASED STREET LIGHT IN THE CAMPUS



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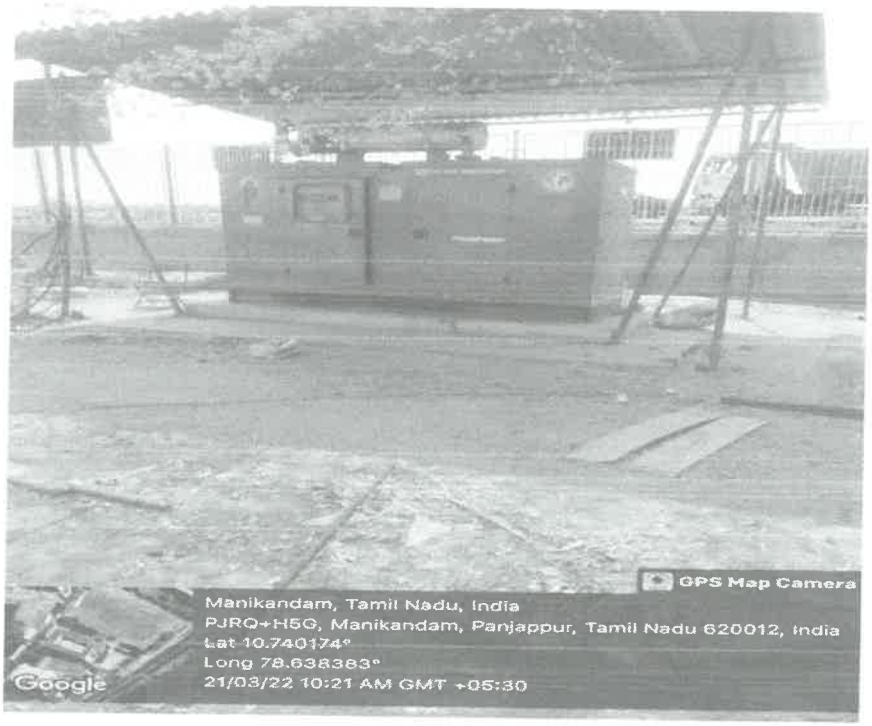
ENERGY CONSERVATION – E-VEHICLE

Battery Vehicles has reduced carbon foot print, improved air quality on college campus and cost savings.

DIESEL GENERATOR (125 KVA)

Diesel generators are used in our college campus to provide the continuity of options during the power outages and emergency lighting in case of emergencies.



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7.1.2: The Institution has facilities and initiatives for

2. MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON DEGRADABLE WASTE

MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Main Building)

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Main Building – First Floor)

DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – Ground Floor)

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CHEMICAL WASTE

E WASTE

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Principal
Indra Ganesan College of Engineering
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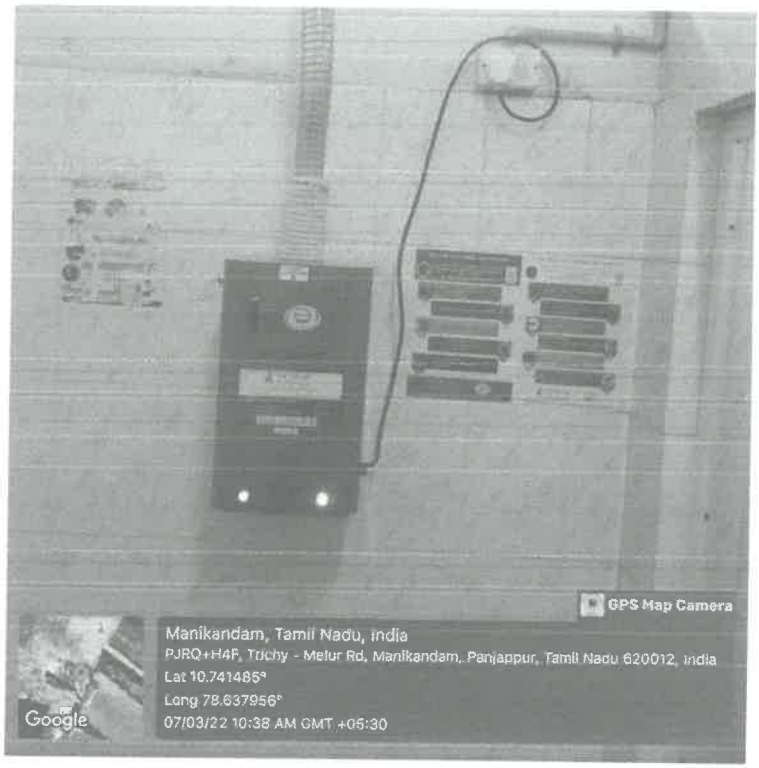
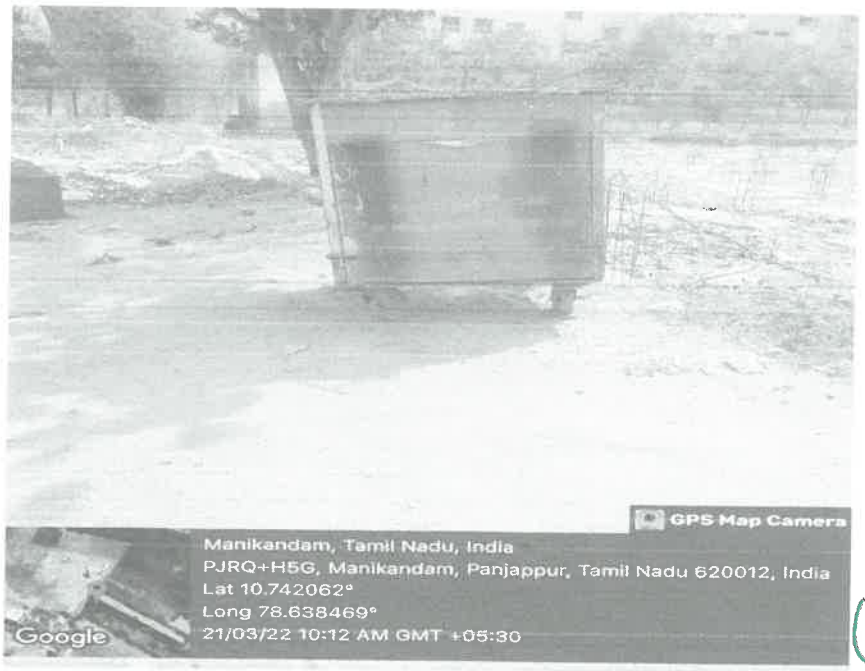
Manikandam, Trichy-620 012.

NAPKIN DISPOSAL MACHINE



SEGREGATION OF WASTE



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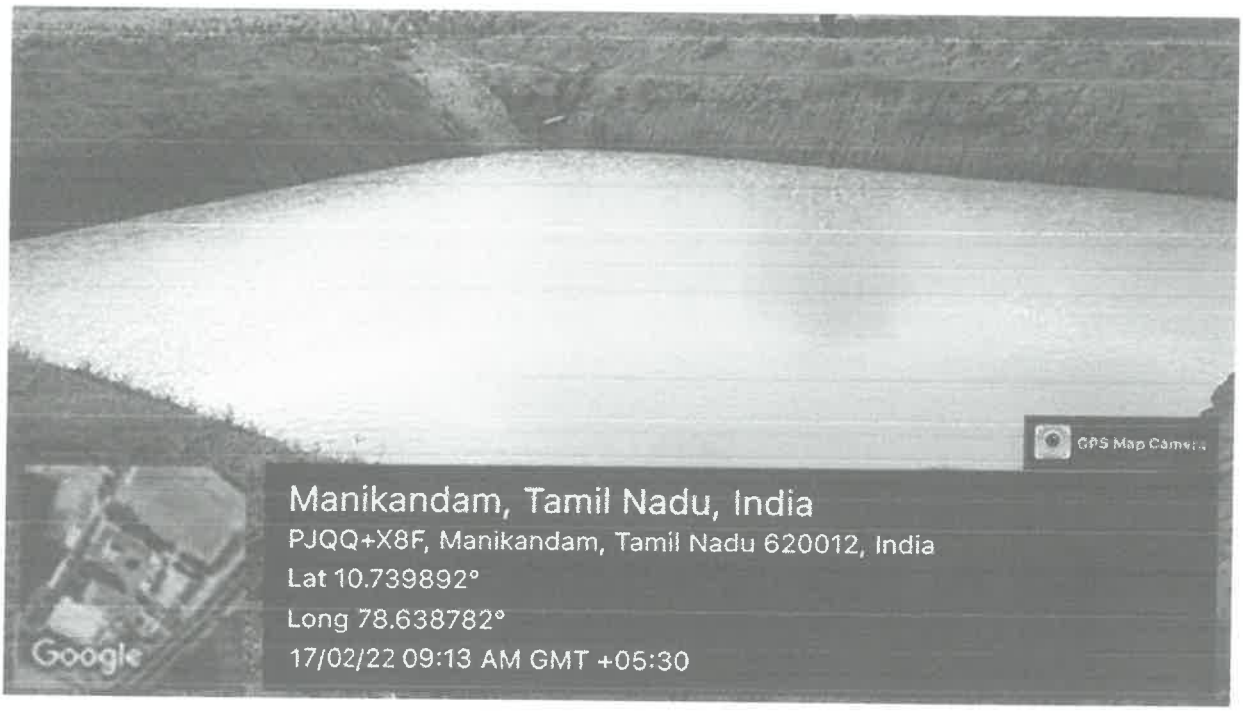
7.1.2: The Institution has facilities and initiatives for

3. WATER CONSERVATION

RAIN WATER HARVESTING POND



RAIN WATER HARVESTING PLAN AND STRUCTURE

The Institution emphasizes the importance of water conservation among students and staffs. Various measures are being taken to preserve and conserve it. The huge volume of rainwater from the rooftop is collected in rain water harvesting pits that are constructed in the campus. This water stored in the pits percolates down to the ground which helps in ground water level improvement. Rain water harvesting provides an independent water supply during regional restrictions the water thus collected is then used for several purposes the institution adopts sprinkler procedure in large lawns and water is very judiciously used for plantation purposes, in the extreme summer season, when water is scarce the rain water thus collected and stored in the underground tank is then used for the maintenance of the green cover in the campus.

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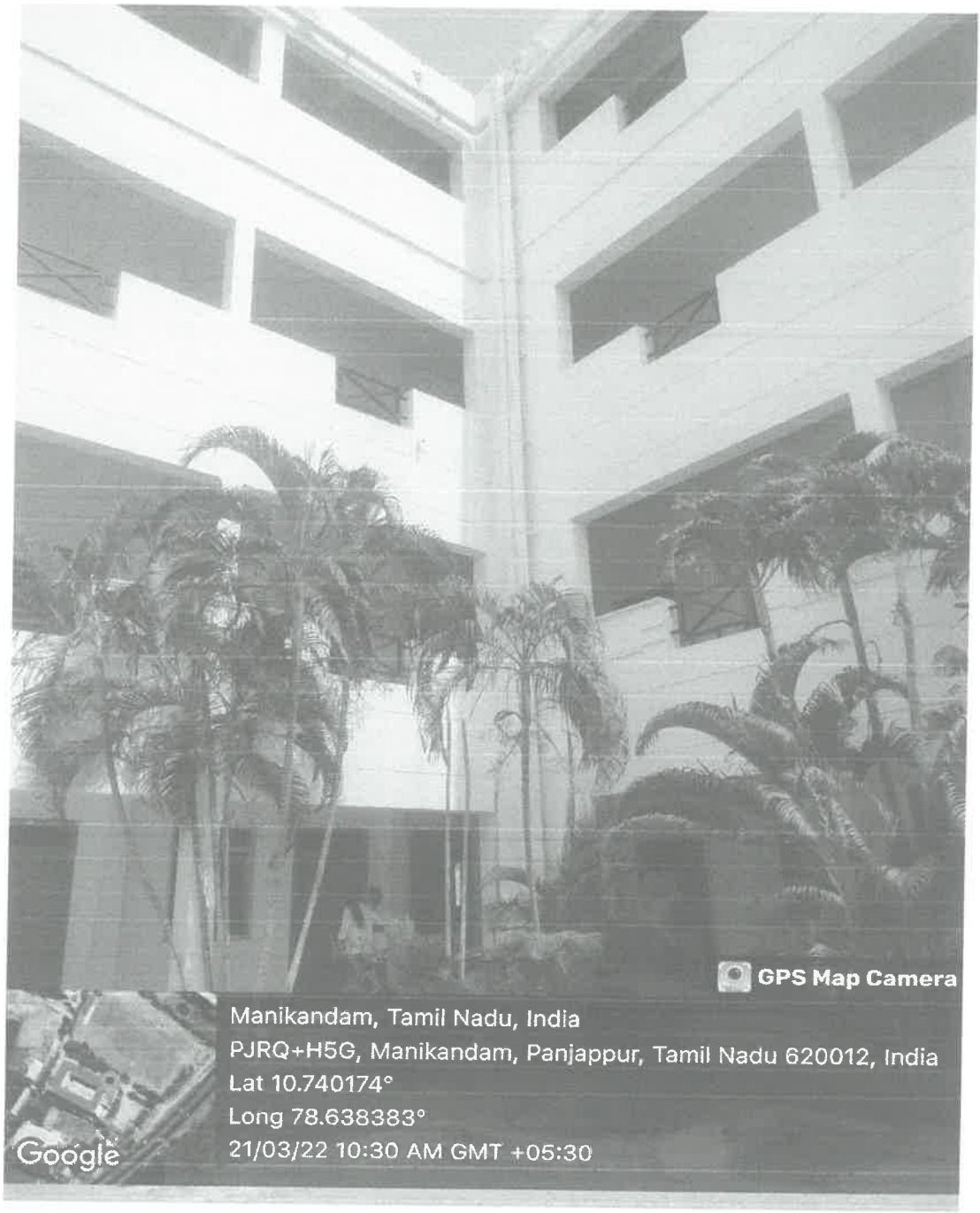
RAIN WATER HARVESTING PIT (1/4)



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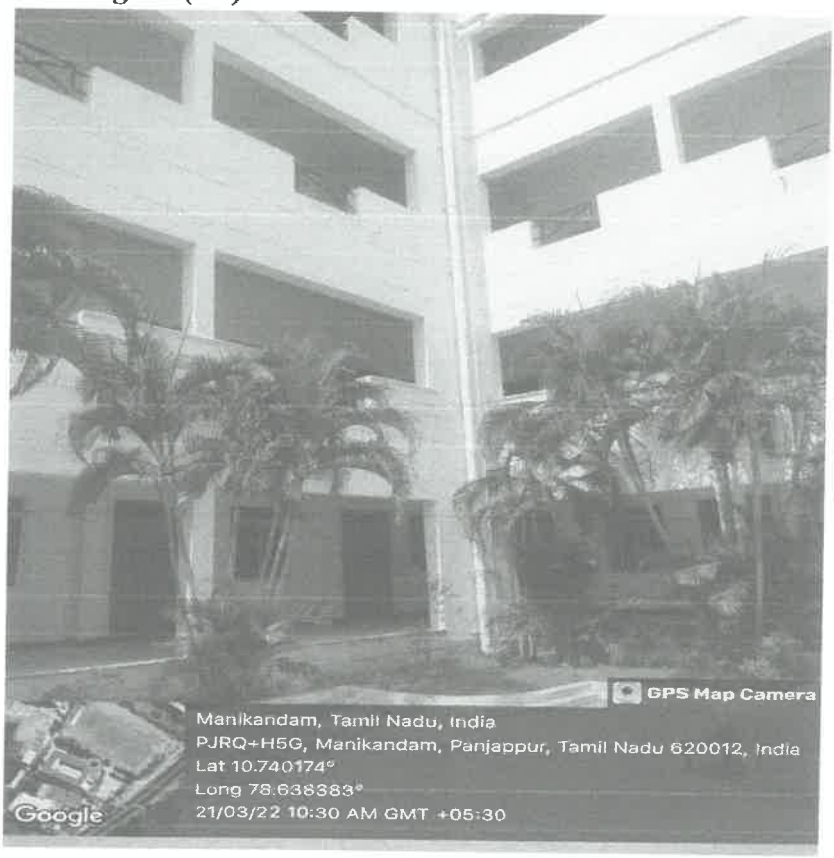
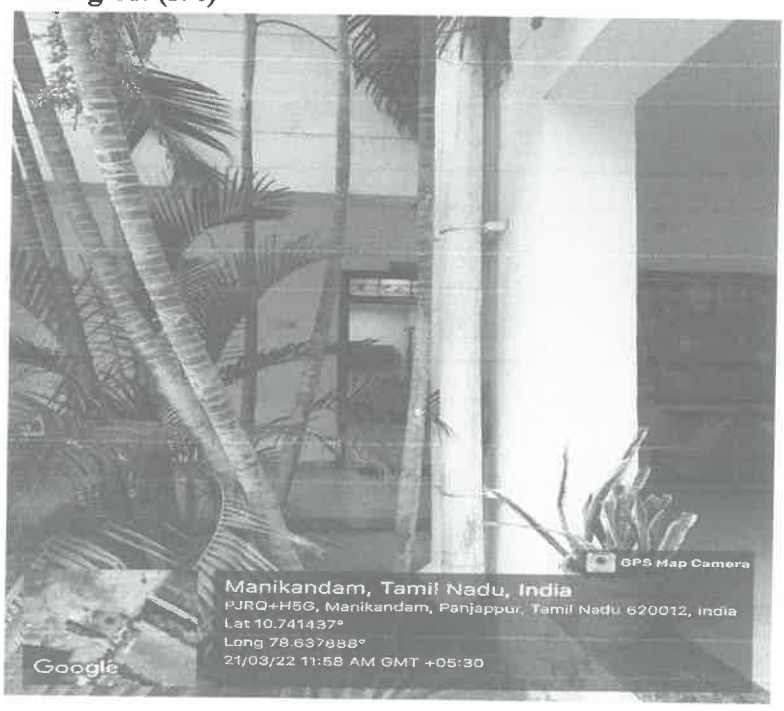
Rain Water Harvesting Pit (2/4)



Rain Water Harvesting Pit (3/4)



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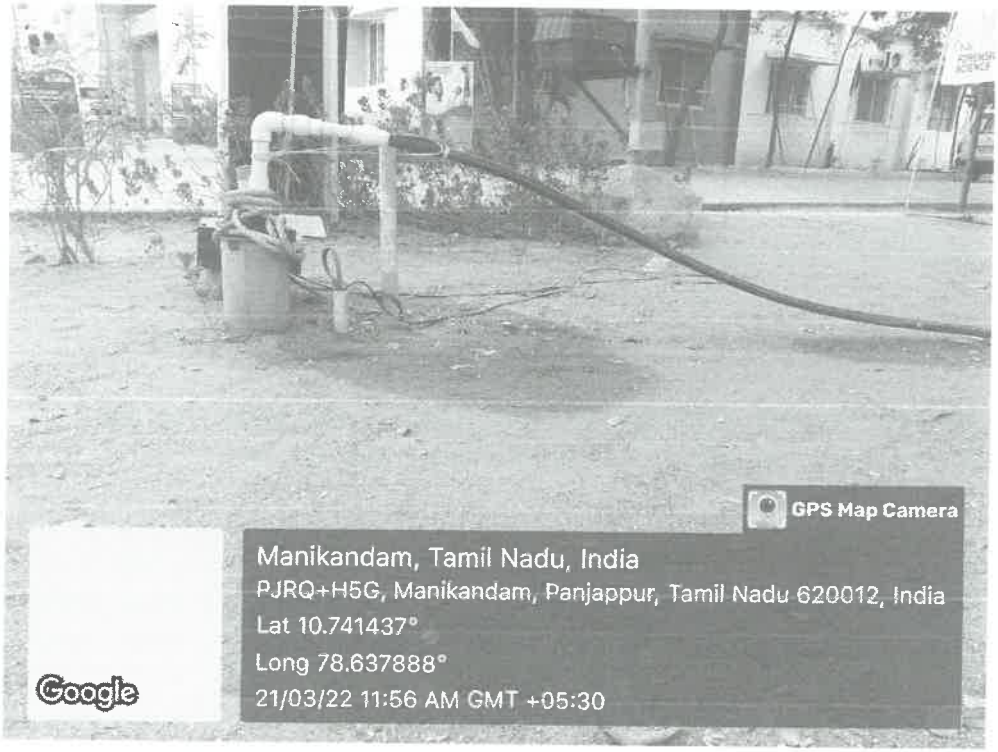
Rain Water Harvesting Pit (4/4)

BORE WELL 1



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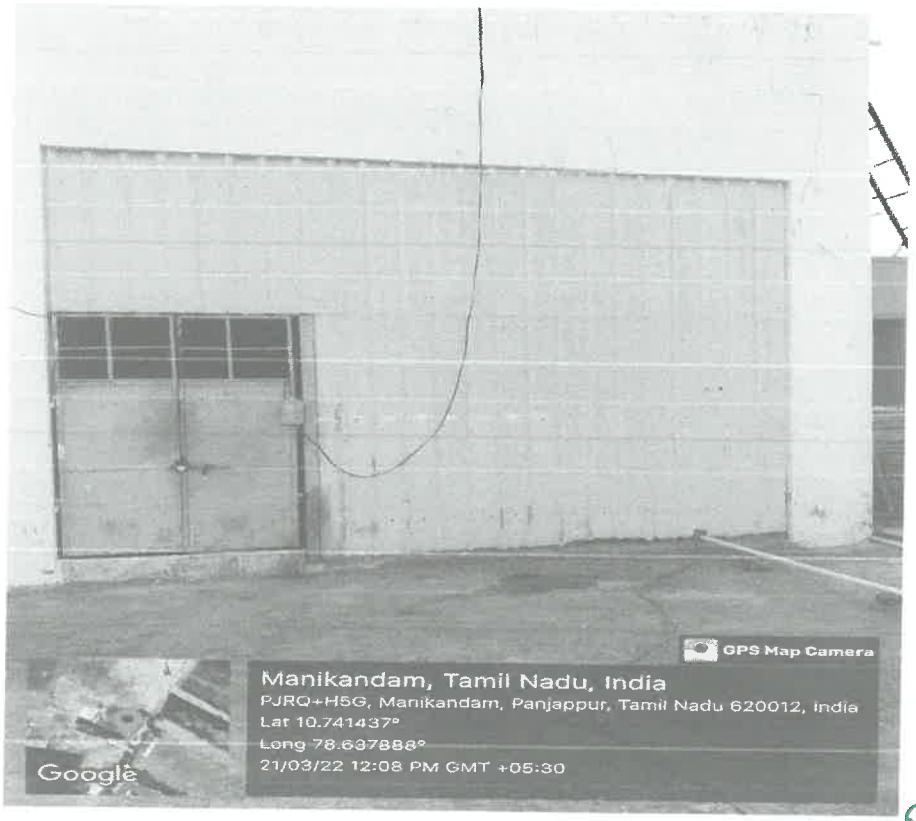
BORE WELL 2

WATER TANK – (MAIN BUILDING)



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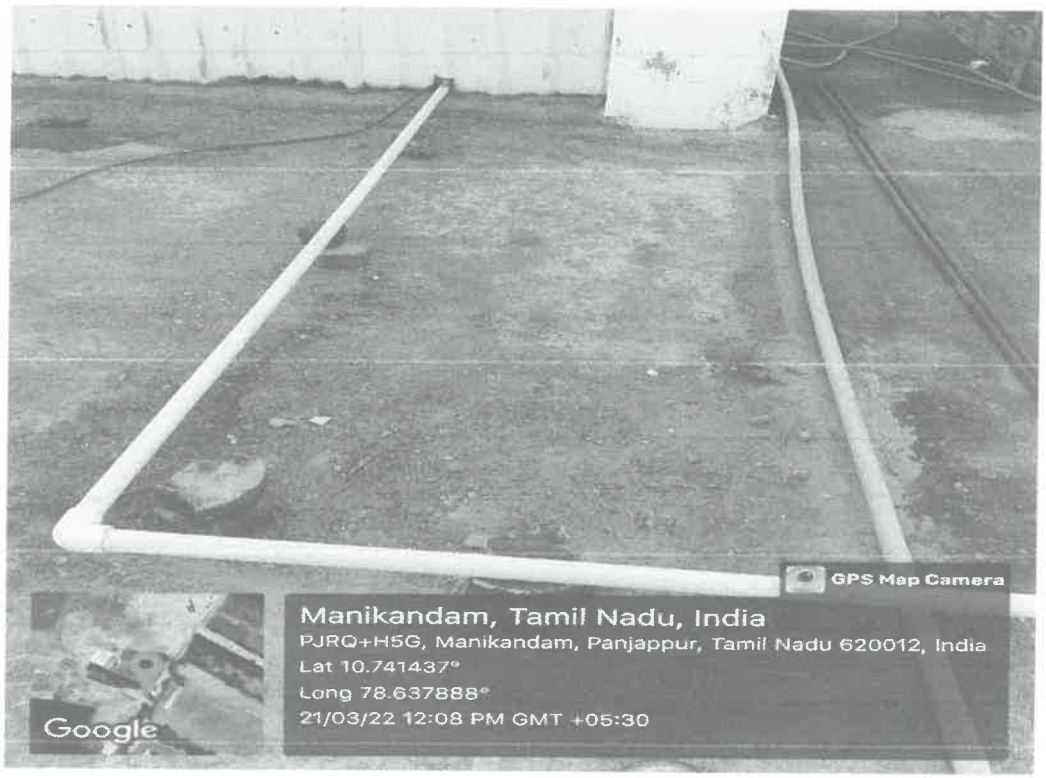
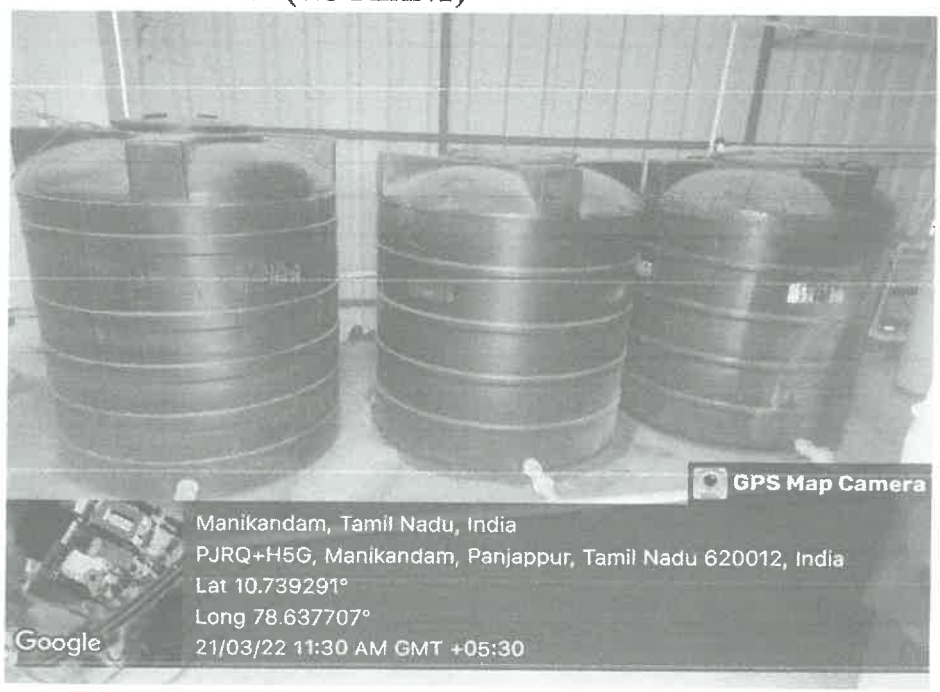
WATER DISTRIBUTION THROUGH PIPE LINES



REVERSE OSMOSIS PLANT (RO PLANT)



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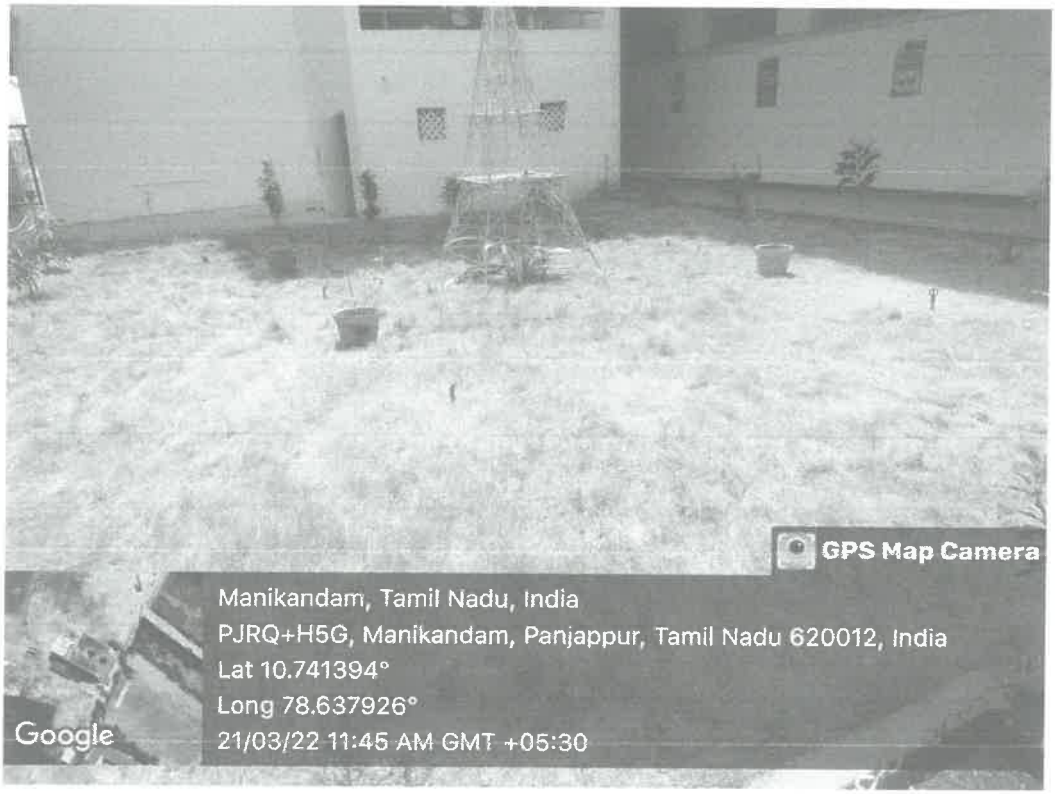
Waste Water Recycling - Drip Irrigation System



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7.1.2: The Institution has facilities and initiatives for

4. GREEN CAMPUS INITIATIVES

LIST OF TREES AND SAPLINGS IN COLLEGE CAMPUS

S.NO	Trees/ Saplings Tamil Name	Trees/Saplings English Name	Botanical NAME	COUNT	
				Trees	Saplings
1	Veppa Maram	Neem Tree	Azadirachta Indica	24	08
2	Naaval Maram	Java Plum or Indian Blackberry	Syzygium cumini	34	05
3	Nochi Maram	Peacock chaste tree	Vitex negundo	09	02
4	Netling Maram	Foxtail Palm	Wodyetia Bifurcata	97	12
5	Vaagai Maram	Syrrogate tree	Albizia Lebbeck	50	15
6	Thennai Maram	Coconut Tree	Cocos Nucifera	80	13
7	Kumizh Thekku	Beechwood	Gmelina Arborea	53	11
8	Pungai Maram	Pongamia Tree	Milletia Pinnata	52	13
9	Badam Maram	Almond Tree	Prunus dulcis	35	06
10	Malai Vemu Maram	Melia dubia	Melila Composite Wild	8	02
11	Murungai Maram	Drumstick tree	Moringa Oleiferea	7	04
12	Maa Maram	Mango Tree	Mangifera Indica	8	03
13	Konnai Maram	Indian laburnum tree	Cassia Fisla	13	07
14	Nelli Maram	Gooseberry Tree	Phyllanthus Emblica	1	05
15	Thekku Maram	Teak Tree	Tectona Grandis	150	45
16	Koyya Maram	Guava tree	Psidium Guajava	8	04
17	Pazha Maram	Jack tree	Artocarpus Heterophyllus	2	-
18	Sapota Maram	Sapota Tree	Manilkara Zapota	6	01
19	Moongil Maram	Bamboo tree	Bambusa vulgaris	19	09
20	Unknown			58	21
TOTAL				**719**	**198**

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TREE PLANTATION PROGRAM ON 2021- 2022

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Indra Ganesan College of Engineering
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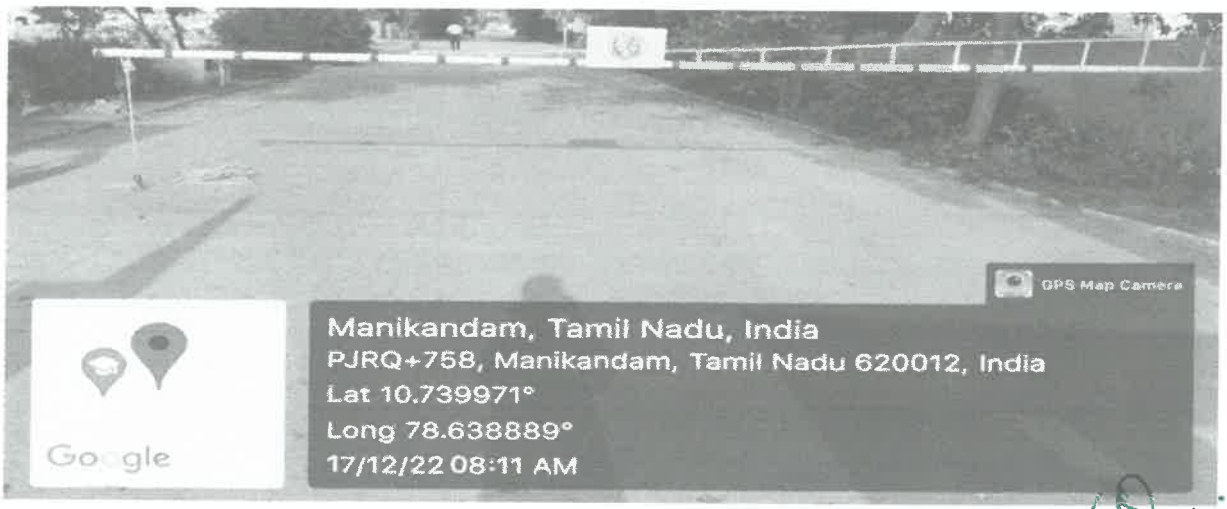
GO GREEN POSTER

VEHICLE ENTRY RESTRICTED



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Indra Ganesan College of Engineering
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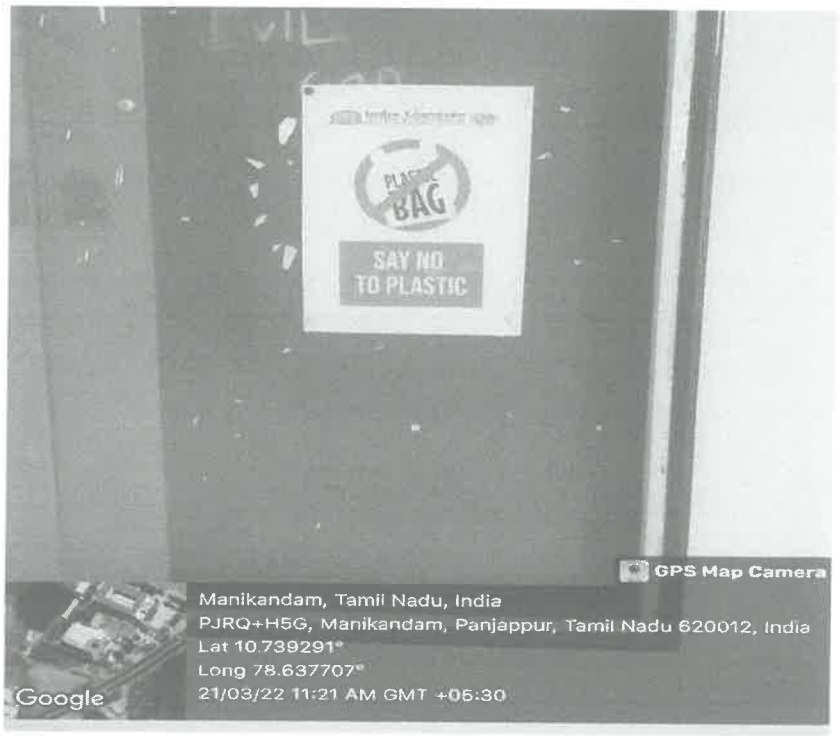
Manikandam, Trichy-620 012.

SAY NO TO PLASTIC POSTER ON NOTICE BOARD



WATER CONSERVATION POSTER

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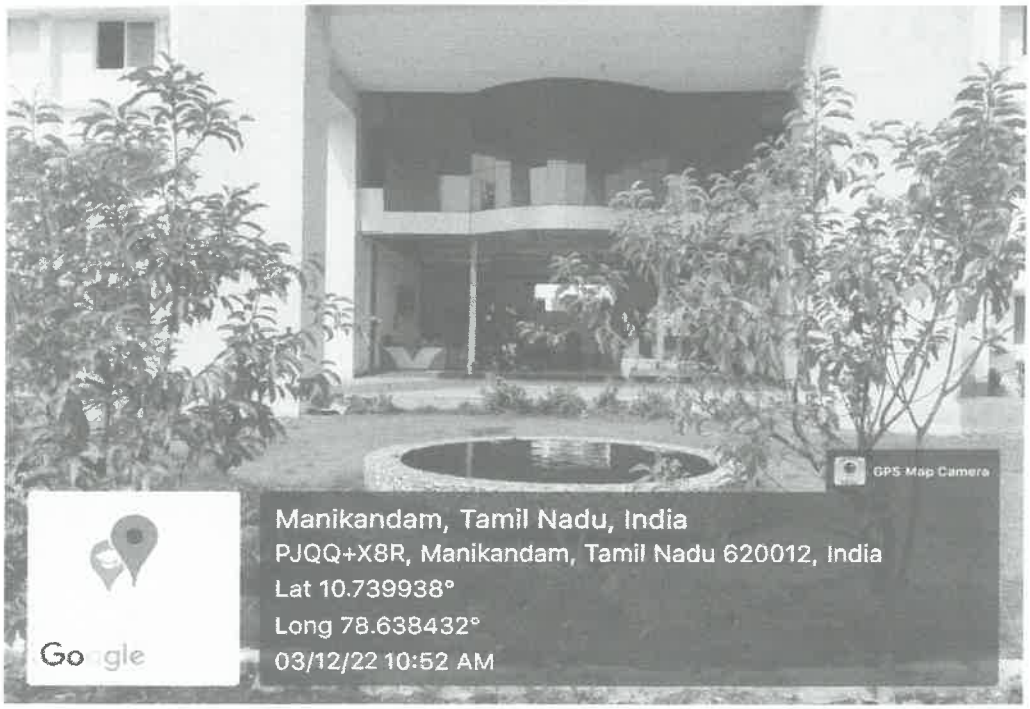
BARRIER FREE ENVIRONMENT POSTER

COLLEGE CAMPUS PHOTOS (Main Building with Garden)



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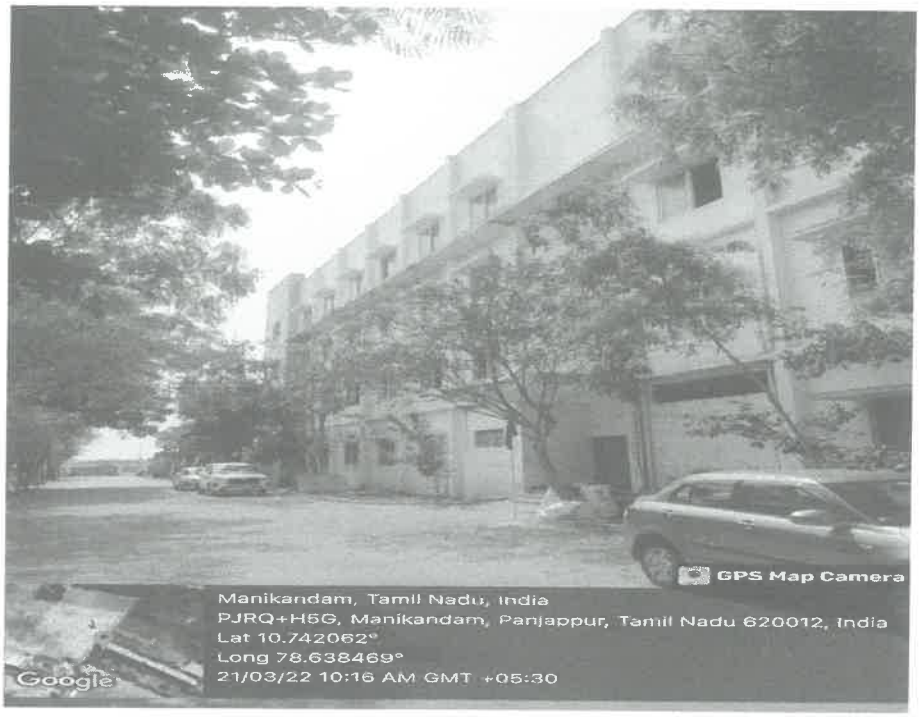
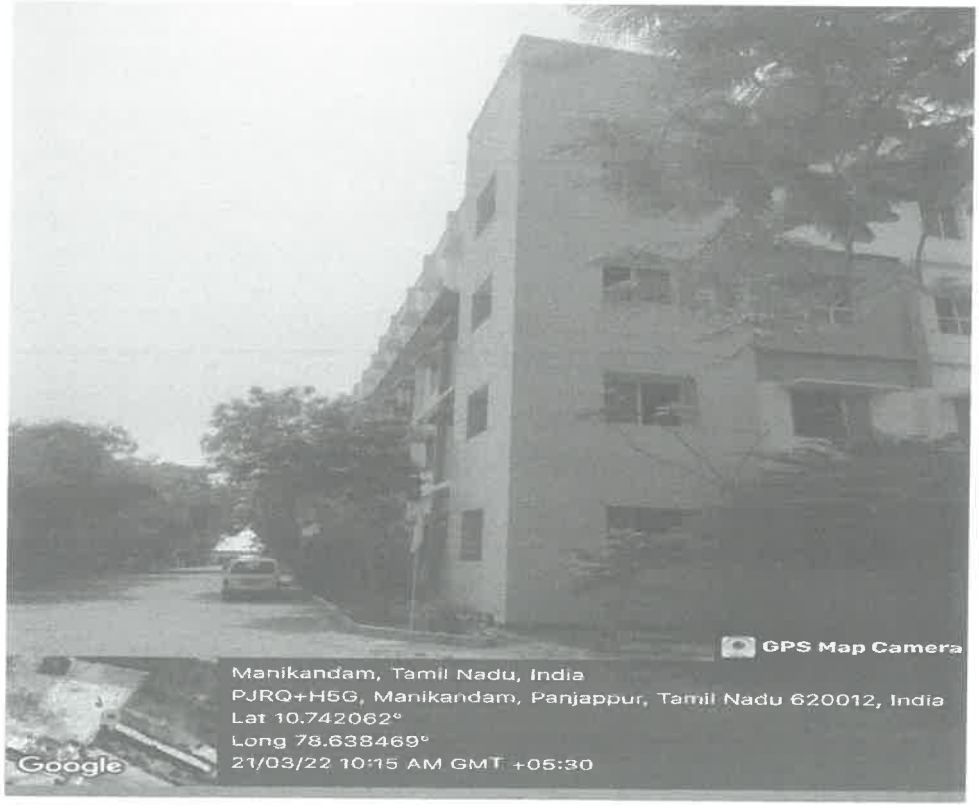


BLOCK - II



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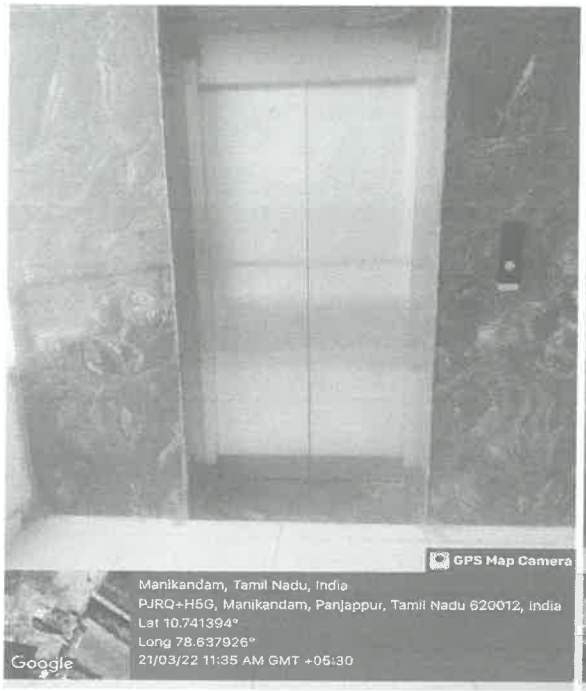
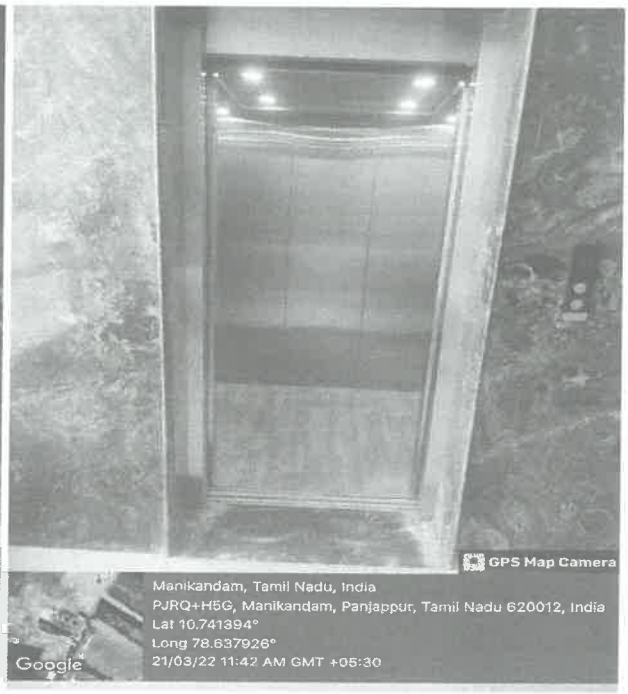
7.1.2: The Institution has facilities and initiatives for

5. DISABLED FRIENDLY, BARRIER FREE ENVIRONMENT

LIFT





RAMP FACILITIES

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WHEEL CHAIR

AMBULANCE FACILITIES

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FIRE EXTIGUISHERS AND FIRE BUCKETS FIRE EXTIGUISHER
(Main Building - Ground Floor)

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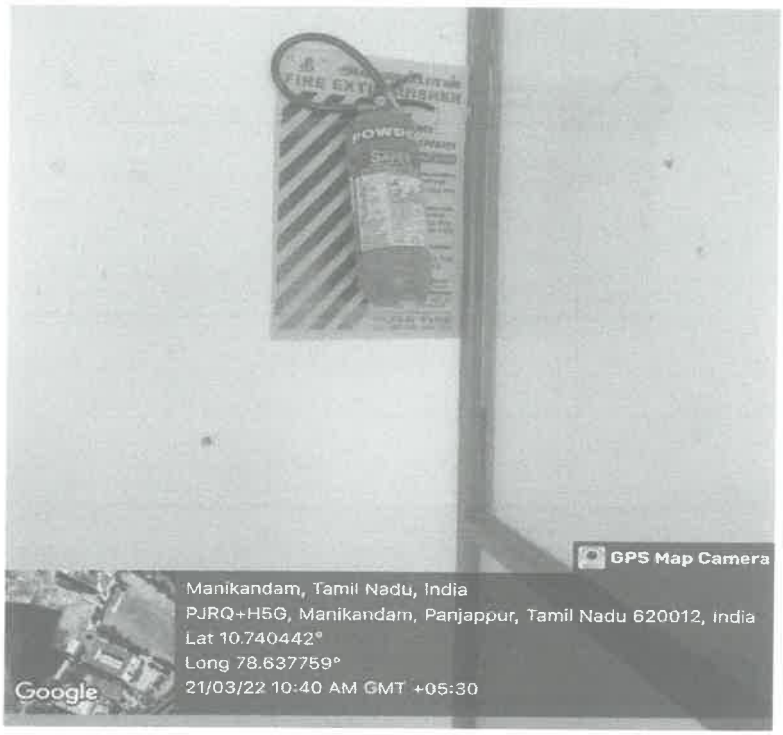
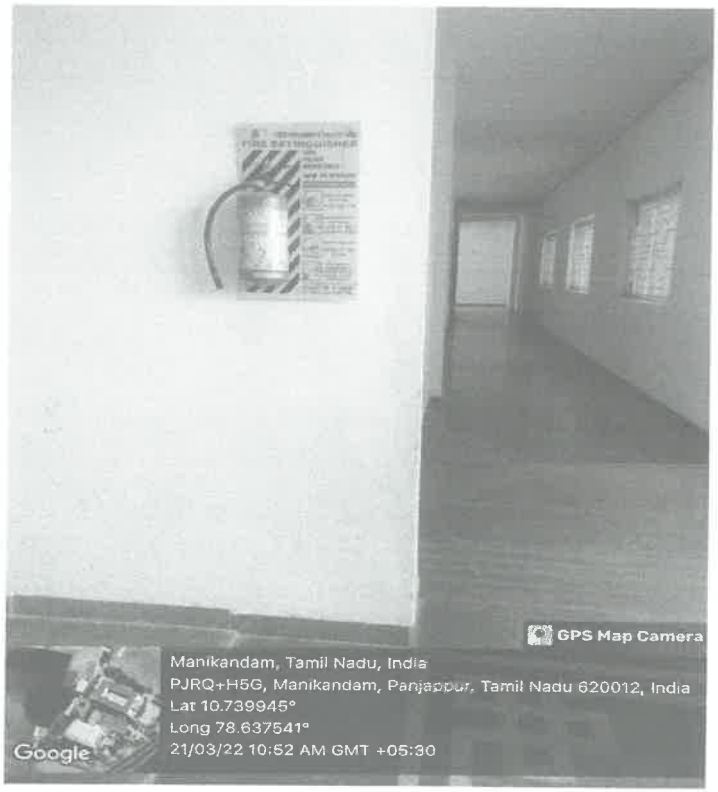
FIRE EXTINGUISHERS - Main Building - First Floor



FIRE EXTINGUISHERS - Engineering Building - First Floor



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FIRE EXTINGUISHERS - Engineering Building – Second Floor

FIRE BUCKETS - MAIN BUILDING 1 (First Floor)

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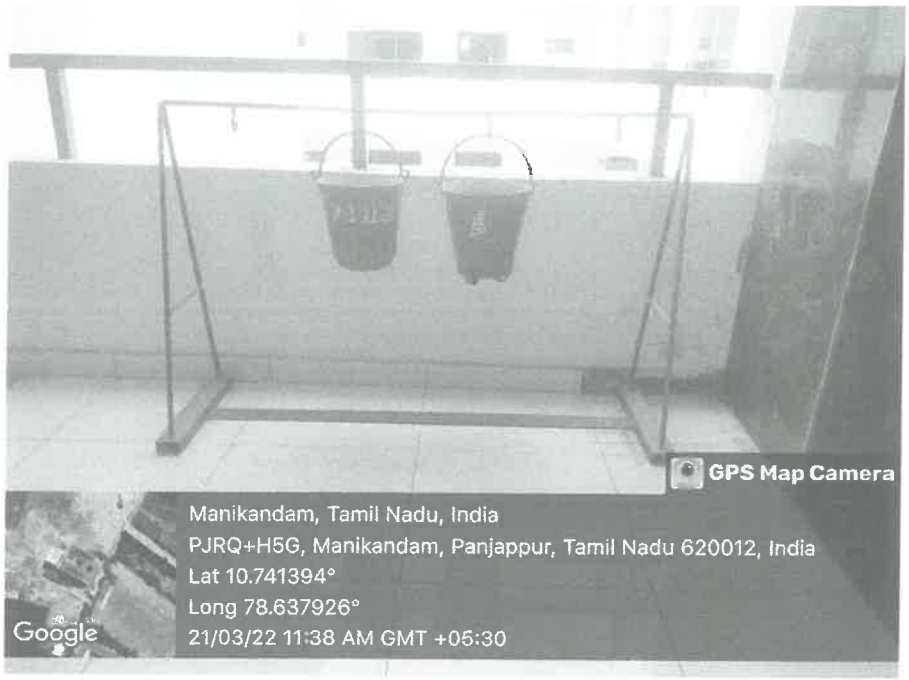
FIRE BUCKETS - MAIN BUILDING 1 (Second Floor)



DISABLED FRIENDLY WASHROOM (Gens)

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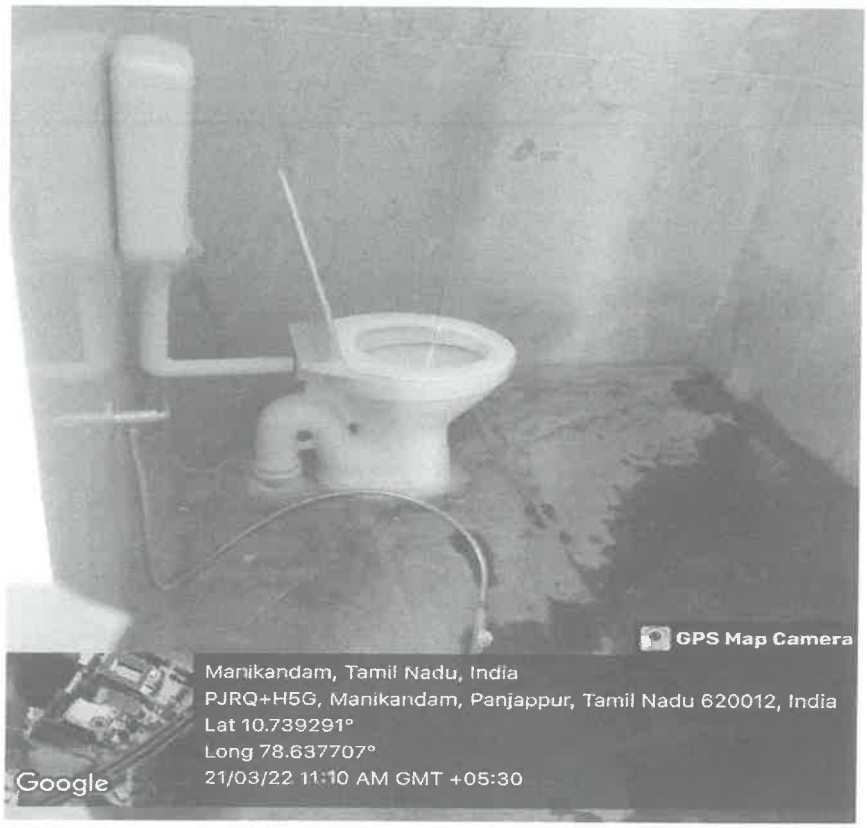
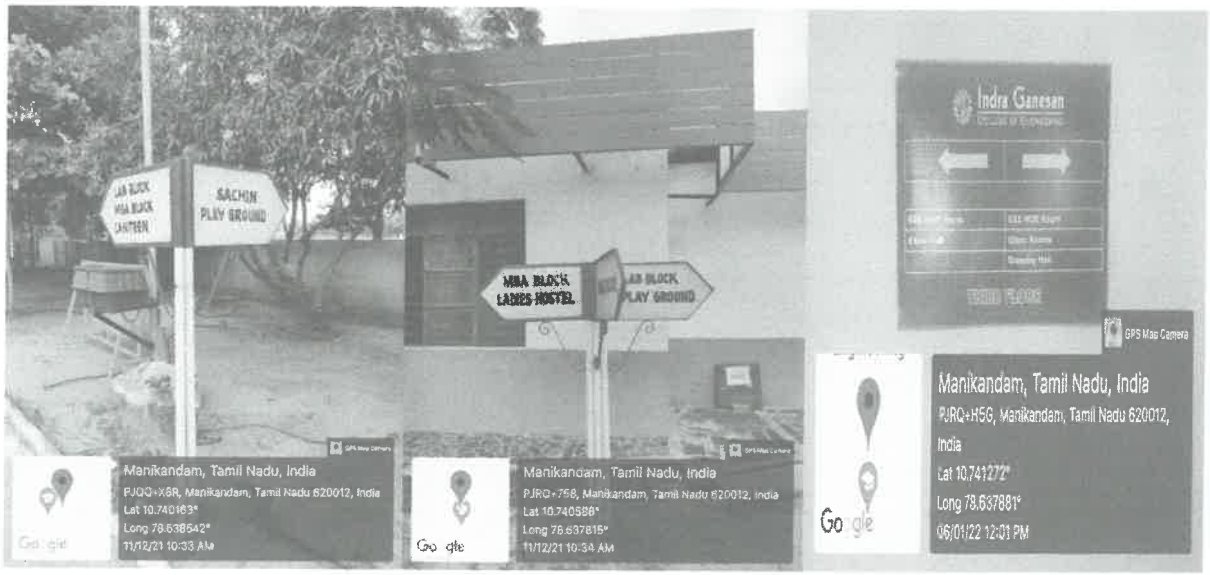
DISABLED FRIENDLY WASHROOM (Ladies)



SIGNAGE INCLUDING TACTILE PATH



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2020-2021

7.1.2: The Institution has facilities and initiatives for

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1. Maximum Power =320Watts
2. Maximum Power voltage (vmp) = 36.58 v
3. Maximum Power current(Imp) = 8.76 A
4. Open circuit voltage 45.92V
5. Short circuit current (ISC) = 9.12A
6. Safety class = II
7. Application class = A

Technical Specification for Inverter, MID 20k ktl3-x, GROWATT INVERTER

1. Maximum PV Voltage = 1100 DC v
2. PV Voltage Range = 160-1000 DC v
3. PV Isc = 33.8 DC
4. Max. Input current =27 DC
5. Max output power = 20,000W
6. Nominal output voltage = 230/400v AC v
7. Max Output current = 31.9 AC a
8. Nominal Output frequency = 50 / 60 hz.

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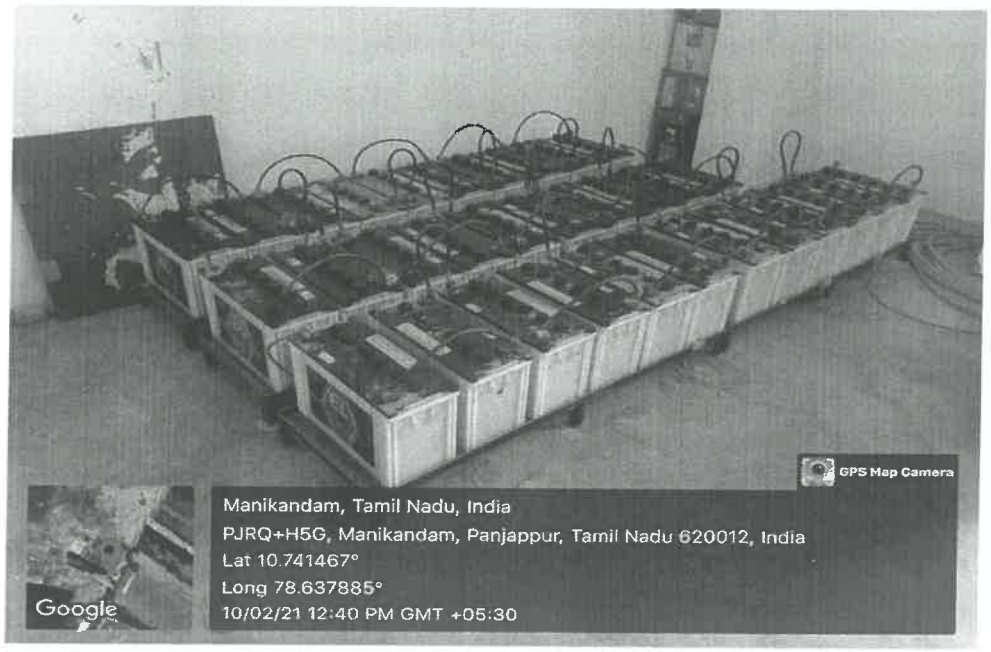
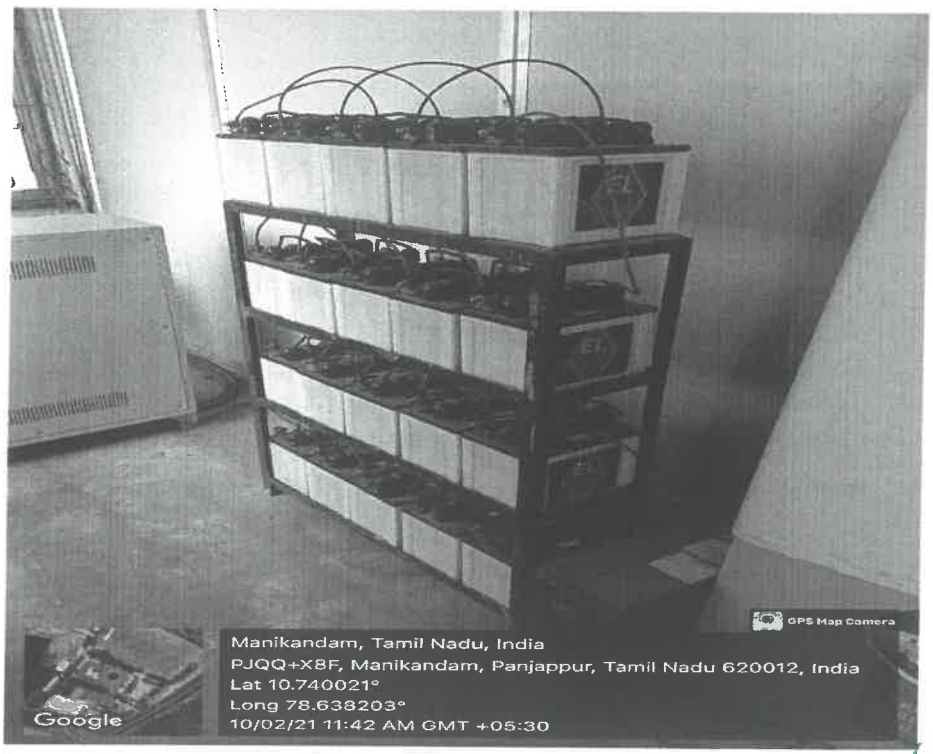
UNITTERUPTED POWER SUPPLY (20 KVA)



MAIN BUILDING – (COMPUITER LAB.1)

UPS systems provide continuous power backup during outages, ensuring critical operations like classroom technology, research equipment, and systems remain uninterrupted.



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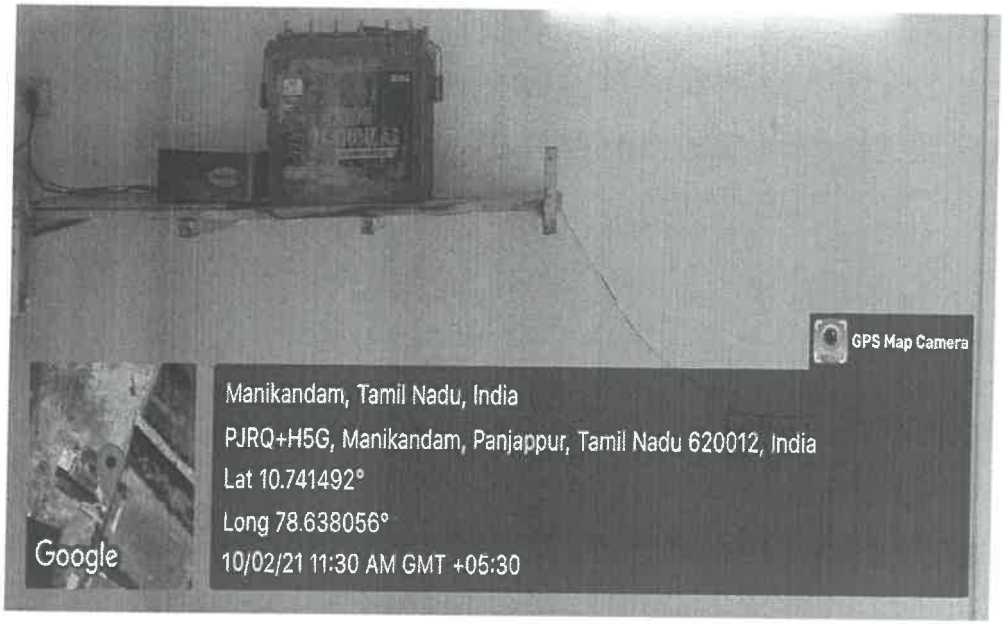
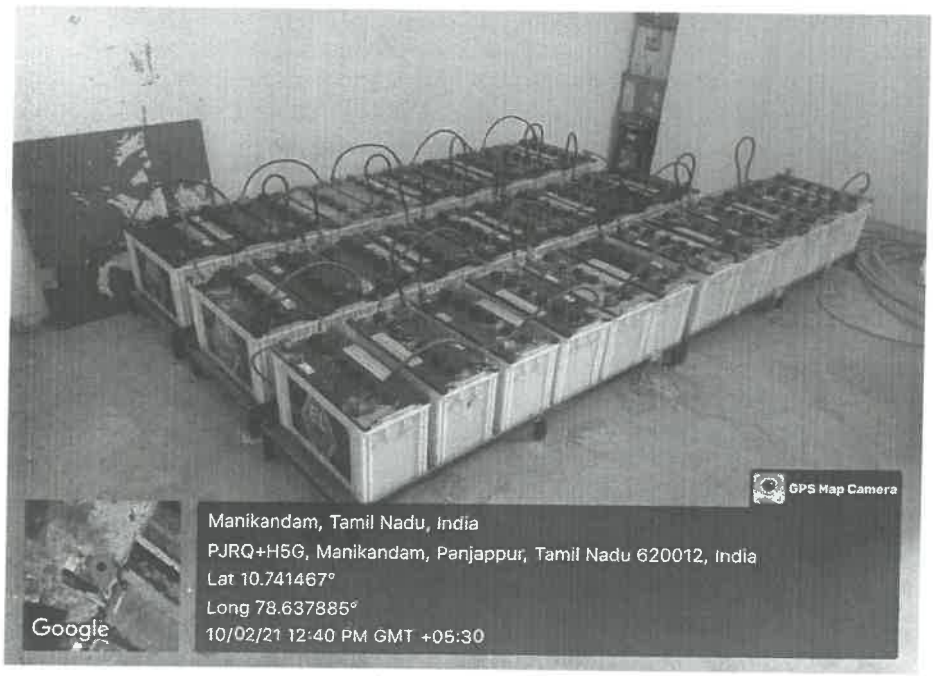
MAIN BUILDING – (OFFICE – 2 KVA)



UNITTERUPTED POWER SUPPLY – (30 KVA)



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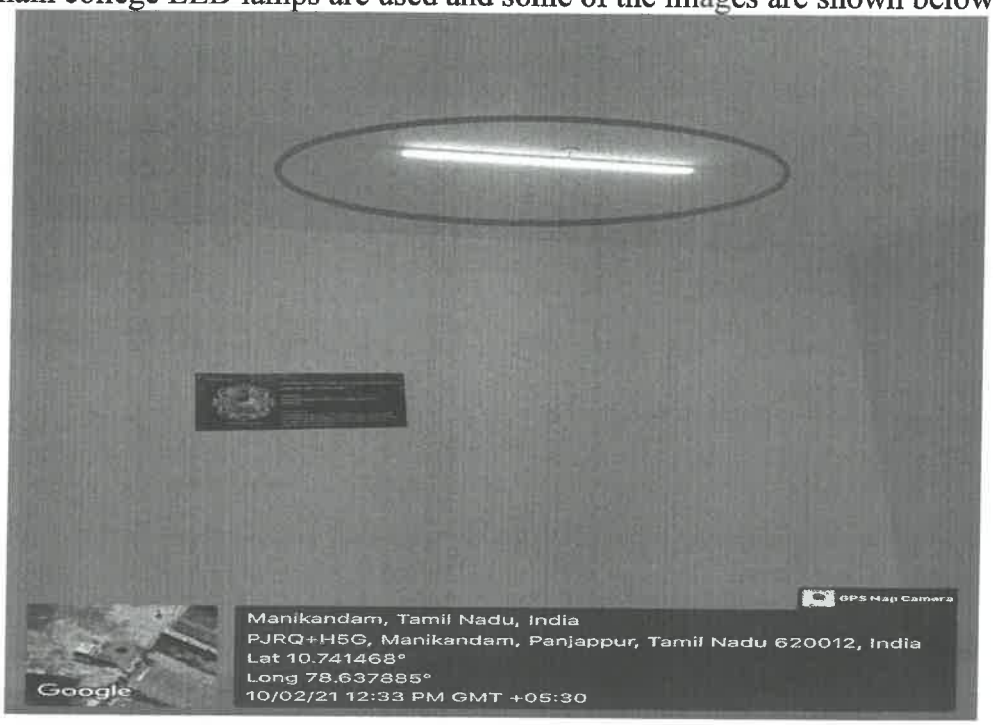
ENERGY CONSERVATION – LED LAMPS

In our main college LED lamps are used and some of the images are shown below.



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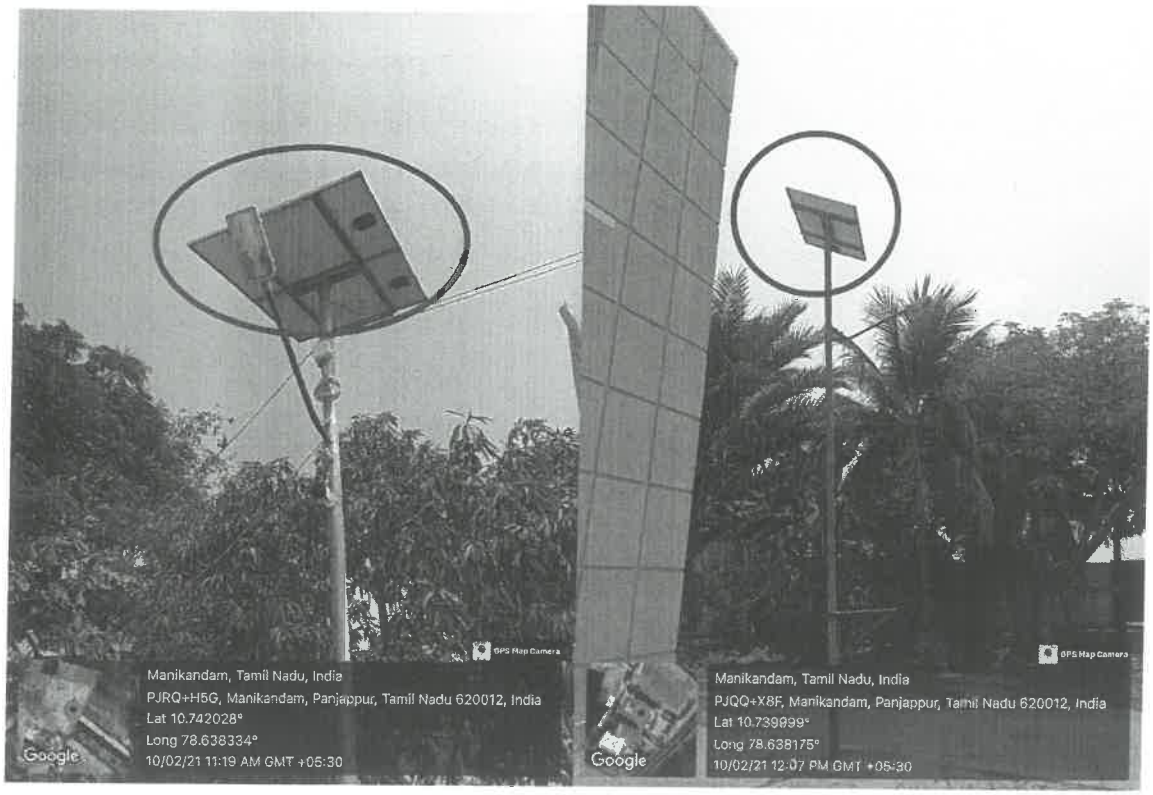
ENERGY CONSERVATION – SOLAR BASED STREET LIGHT IN THE CAMPUS



ENERGY CONSERVATION – E-VEHICLE

Battery Vehicles has reduced carbon foot print, improved air quality on college campus and cost savings.

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DIESEL GENERATOR (125 KVA)

Diesel generators are used in our college campus to provide the continuity of options during the power outages and emergency lighting in case of emergencies.

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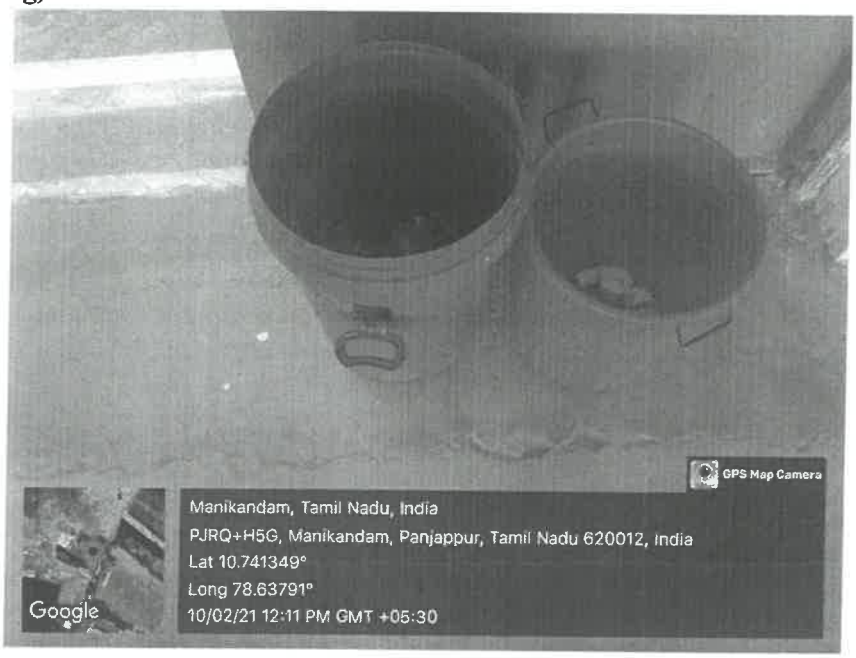
7.1.2: The Institution has facilities and initiatives for

2. MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON DEGRADABLE WASTE

Degradable and Non Degradable Waste Bin
(Main Building)



DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Main Building – First Floor)

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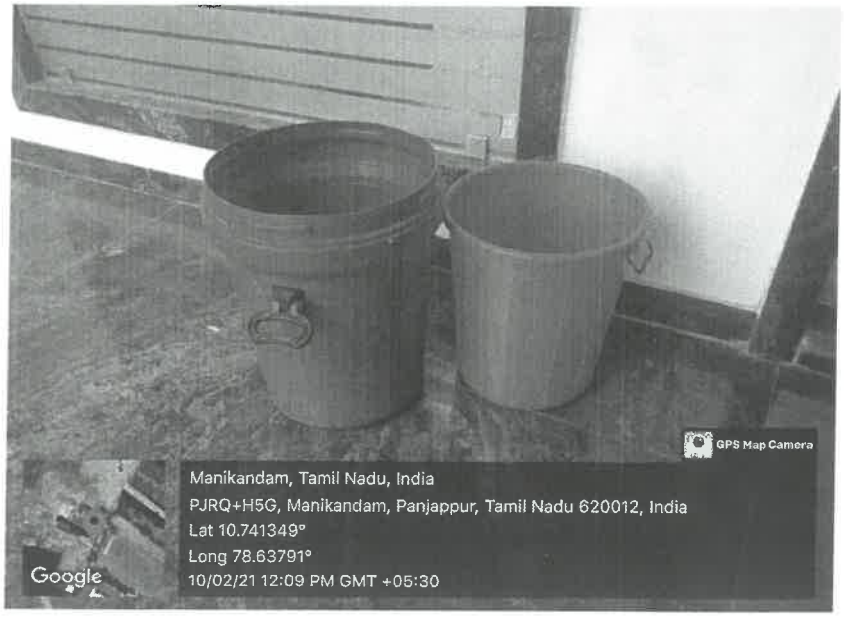
DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – Ground Floor)



DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – Second Floor)

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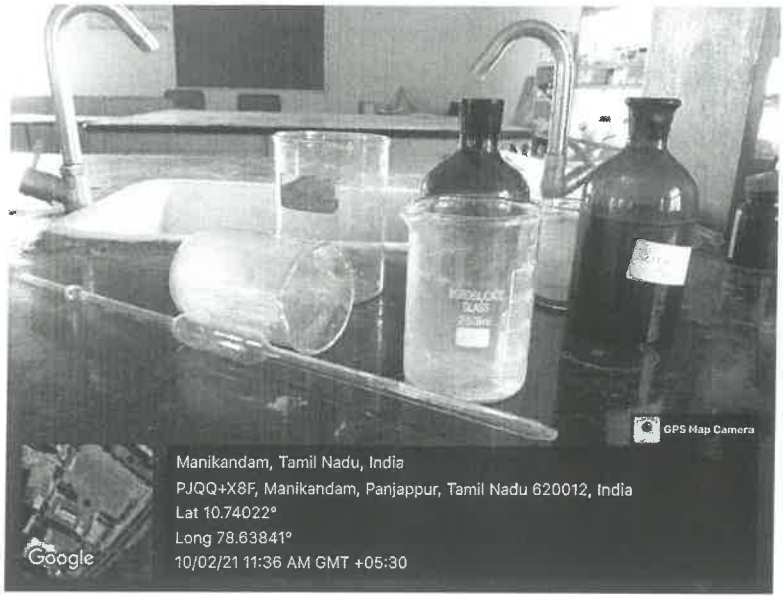
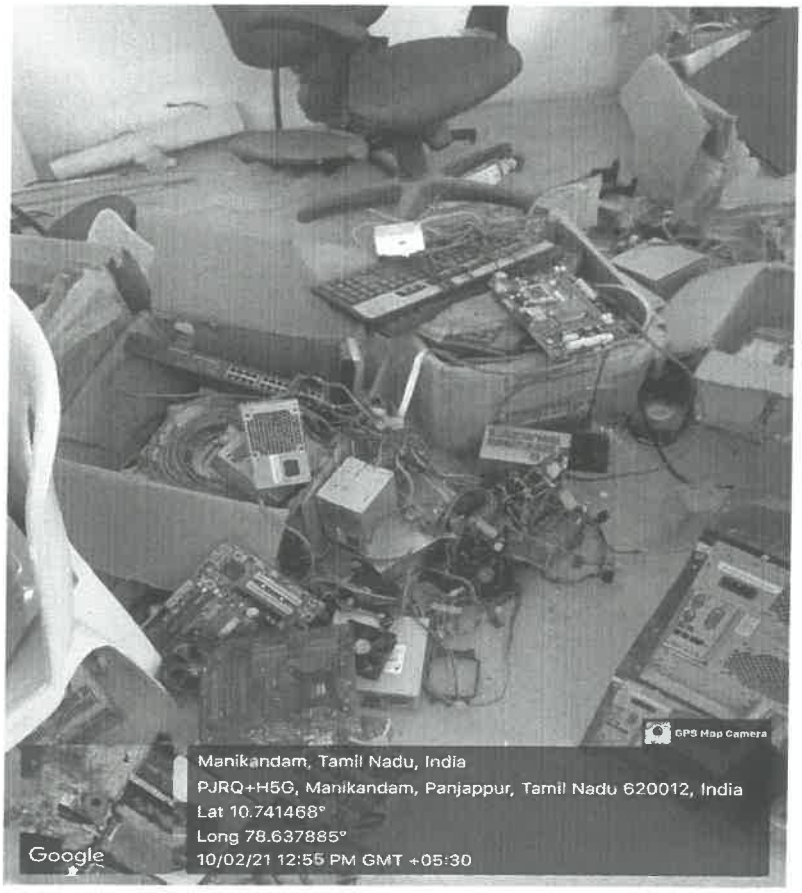
CHEMICAL WASTE



E WASTE



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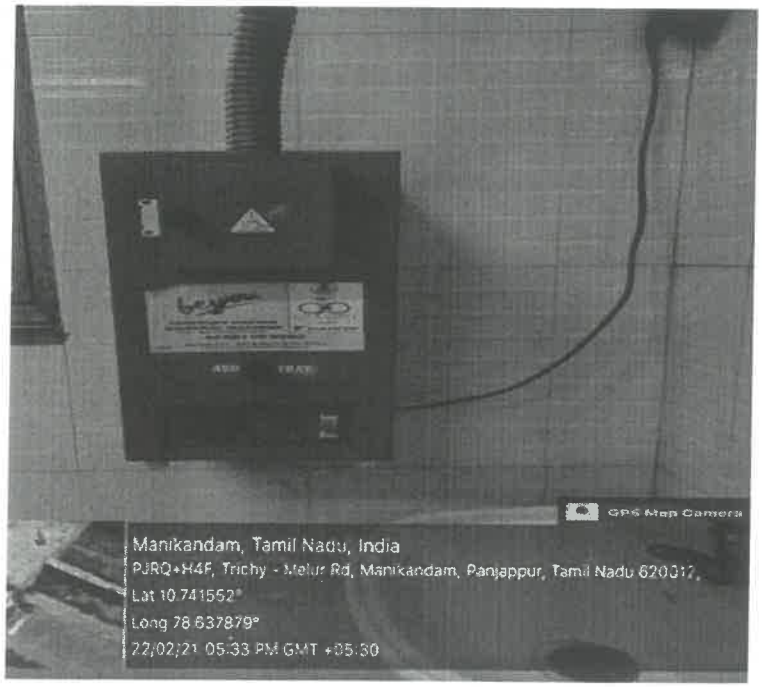
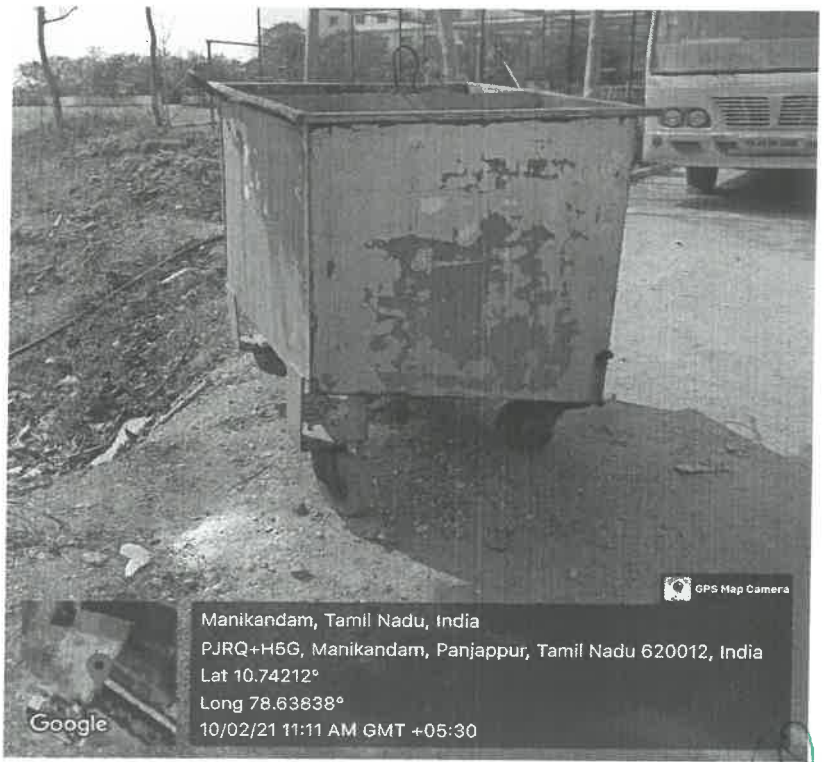
NAPKIN DISPOSAL MACHINE



SEGREGATION OF WASTE



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7.1.2: The Institution has facilities and initiatives for

3. WATER CONSERVATION

RAIN WATER HARVESTING POND

RAIN WATER HARVESTING PLAN AND STRUCTURE

The Institution emphasizes the importance of water conservation among students and staffs. Various measures are being taken to preserve and conserve it. The huge volume of rainwater from the rooftop is collected in rain water harvesting pits that are constructed in the campus. This water stored in the pits percolates down to the ground which helps in ground water level improvement. The institute ensures that the water wastage is minimized at an optimal level and the leaky taps and pipes are under regular check and hence no loss of water is observed, neither by any leakages nor by overflow from overhead tanks. Rain water harvesting provides an independent water supply during regional restrictions the water thus collected is then used for several purposes the institution adopts sprinkler procedure in large lawns and water is very judiciously used for plantation purposes, in the extreme summer season, when water is scarce the rain water thus collected and stored in the underground tank is then used for the maintenance of the green cover in the campus.

RAIN WATER HARVESTING PIT (1/4)

Rainwater harvesting pits are an essential component of RWH systems minimize storm water runoff, and contribute to environmental sustainability. In college campus rain water harvesting pit are provided around the building.

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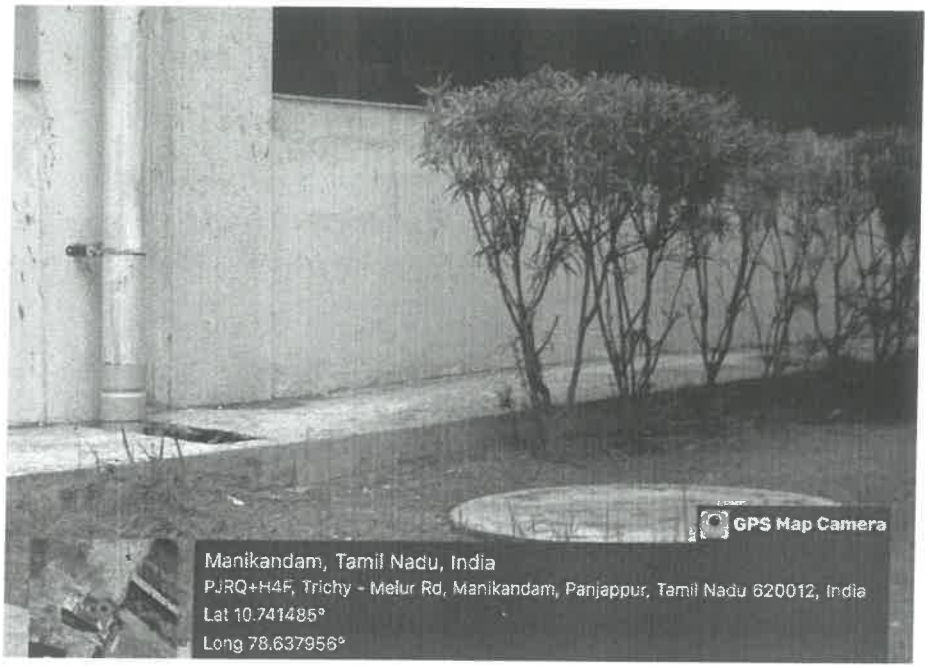

Rain Water Harvesting Pit (2/4)

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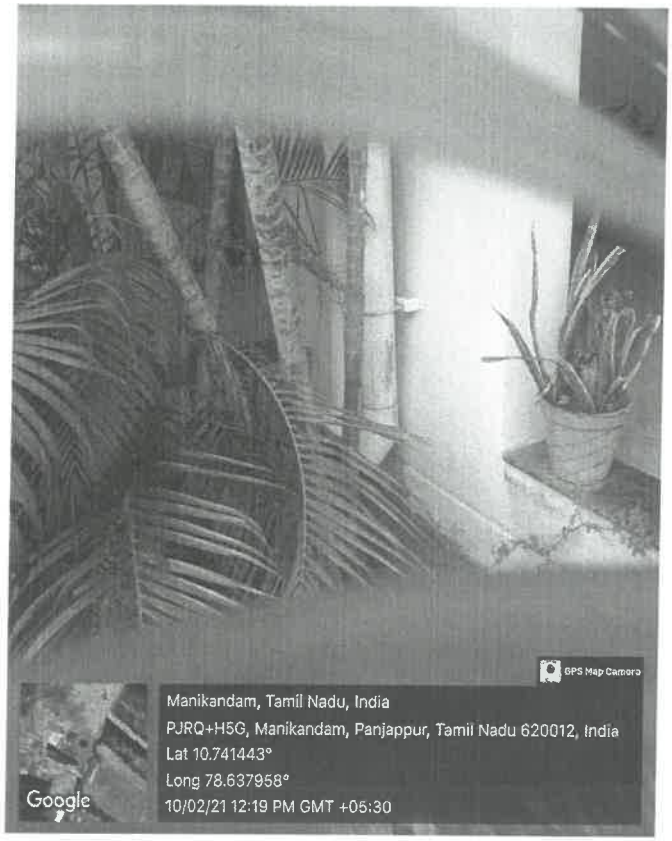
Rain Water Harvesting Pit (3/4)



Rain Water Harvesting Pit (4/4)

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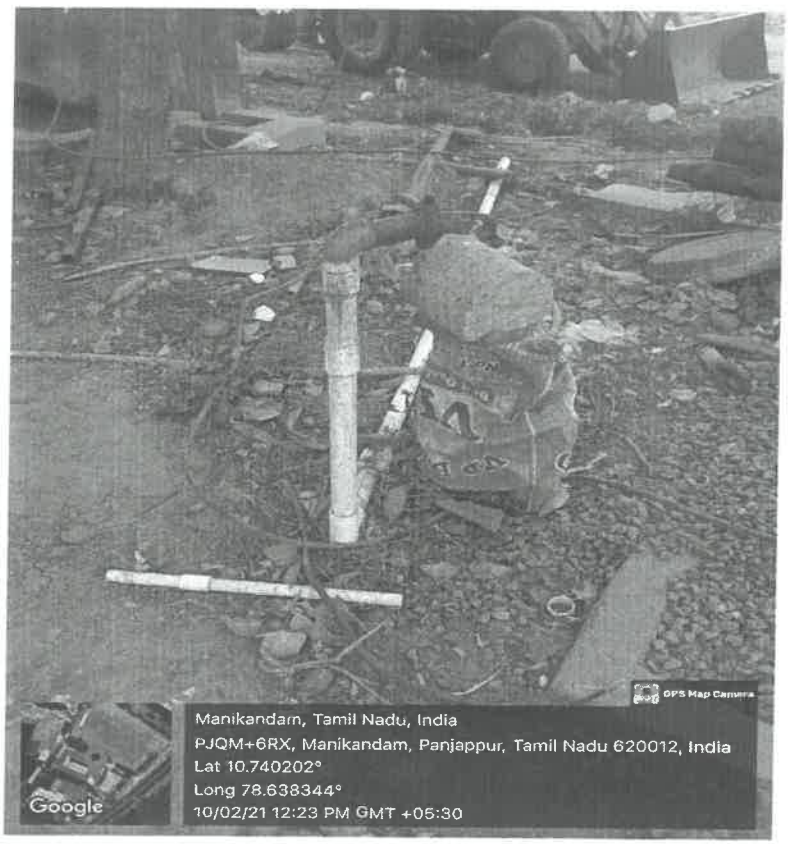
BORE WELL 1

BORE WELL 2



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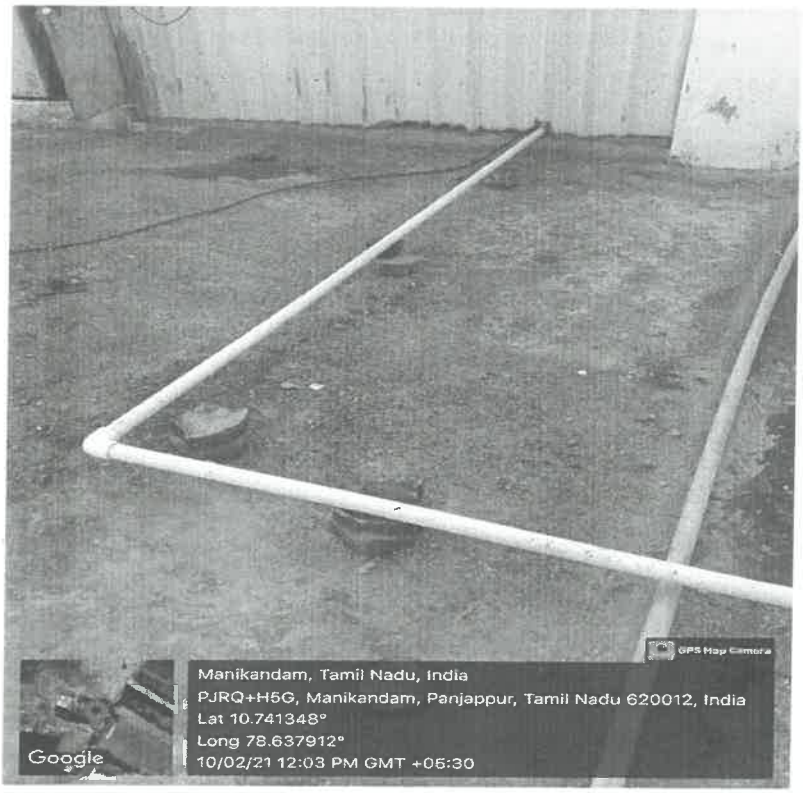
WATER TANK – (MAIN BUILDING)

WATER DISTRIBUTION THROUGH PIPE LINES



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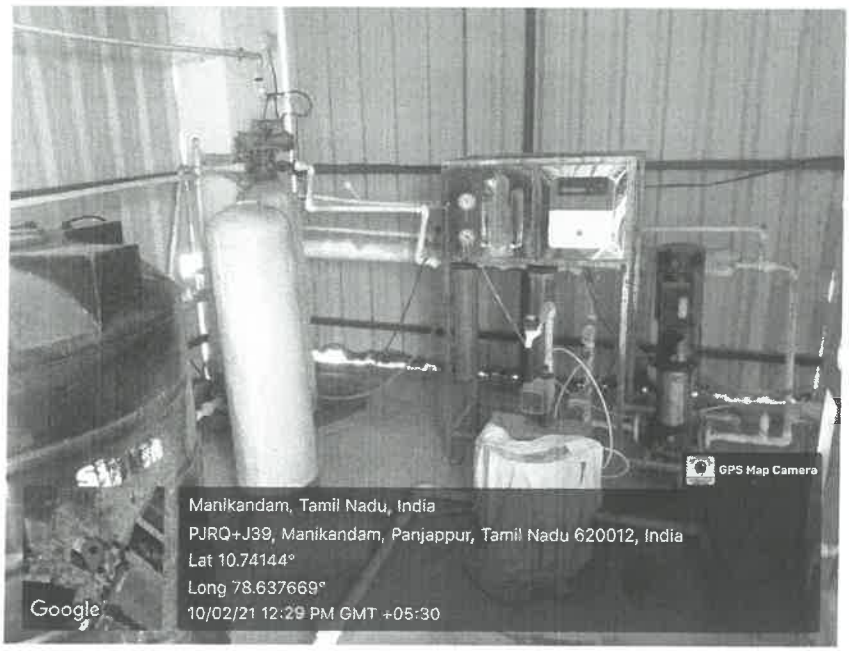
REVERSE OSMOSIS PLANT (RO PLANT)



Waste Water Recycling - Drip Irrigation System

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7.1.2: The Institution has facilities and initiatives for

4. GREEN CAMPUS INITIATIVES

LIST OF TREES AND SAPLINGS IN COLLEGE CAMPUS

S.NO	Trees/ Saplings Tamil Name	Trees/Saplings English Name	Botanical NAME	COUNT	
				Trees	Saplings
1	Veppa Maram	Neem Tree	Azadirachta Indica	26	08
2	Naaval Maram	Java Plum or Indian Blackberry	Syzygium cumini	38	05
3	Nochi Maram	Peacock chaste tree	Vitex negundo	11	02
4	Netling Maram	Foxtail Palm	Wodyetia Bifurcata	97	08
5	Vaagai Maram	Syrrogate tree	Albizia Lebbeck	50	07
6	Thennai Maram	Coconut Tree	Cocos Nucifera	88	19
7	Kumizh Thekku	Beechwood	Gmelina Arborea	63	06
8	Pungai Maram	Pongamia Tree	Milletia Pinnata	62	08
9	Badam Maram	Almond Tree	Prunus dulcis	38	06
10	Malai Vemu Maram	Melia dubia	Melila Composite Wild	8	02
11	Murungai Maram	Drumstick tree	Moringa Oleiferea	7	09
12	Maa Maram	Mango Tree	Mangifera Indica	8	03
13	Konnai Maram	Indian laburnum tree	Cassia Fisla	18	07
14	Nelli Maram	Gooseberry Tree	Phyllanthus Emblica	1	05
15	Thekku Maram	Teak Tree	Tectona Grandis	80	05
16	Koyya Maram	Guava tree	Psidium Guajava	8	04
17	Pazha Maram	Jack tree	Artocarpus Heterophyllus	2	-
18	Sapota Maram	Sapota Tree	Manilkara Zapota	6	01
19	Moongil Maram	Bamboo tree	Bambusa vulgaris	19	06
20	Unknown			48	21
TOTAL				**684**	**158**

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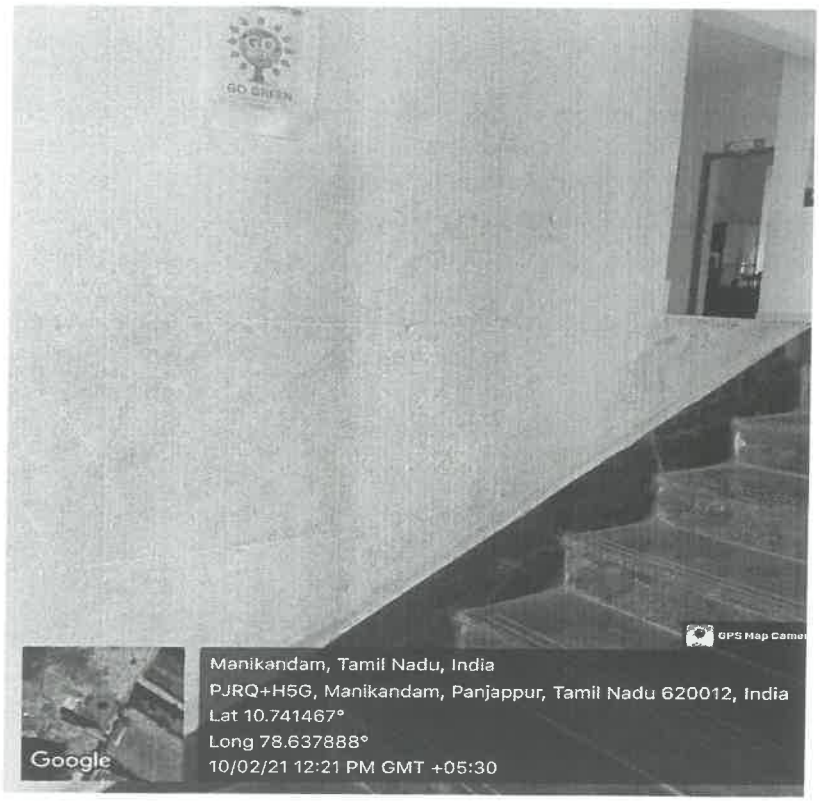
TREE PLANTATION PROGRAM ON 2020- 2021

GO GREEN POSTER



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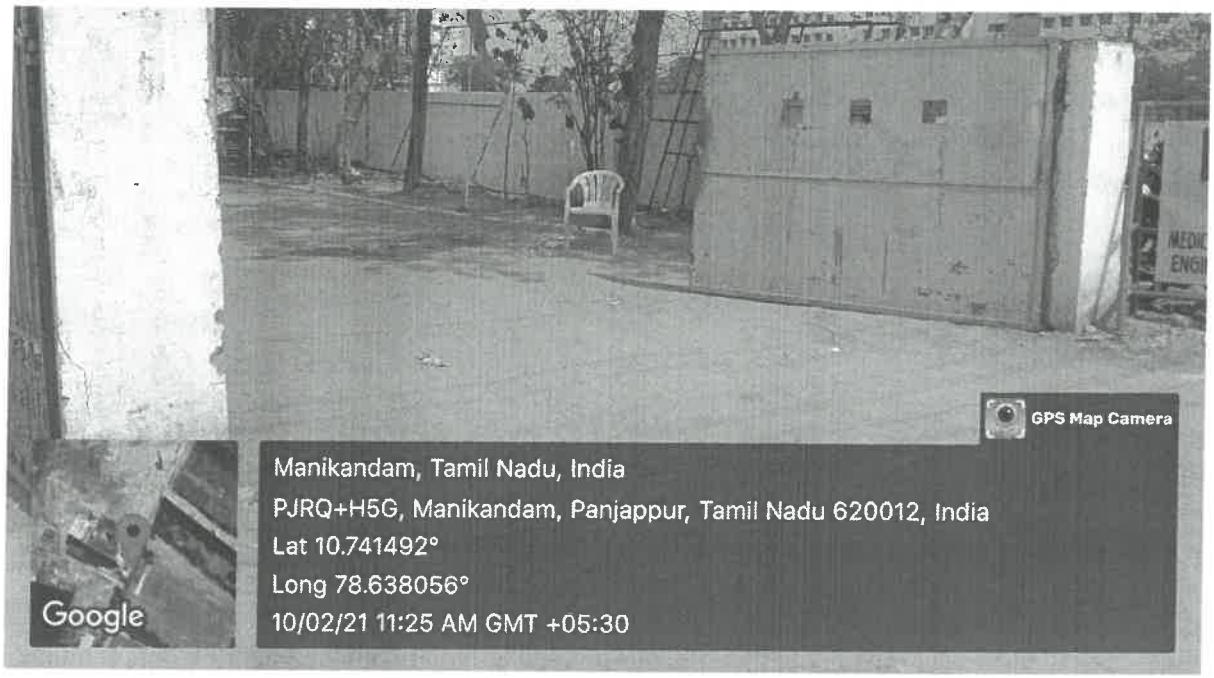
VEHICLE ENTRY RESTRICTED



SAY NO TO PLASTIC POSTER ON NOTICE BOARD

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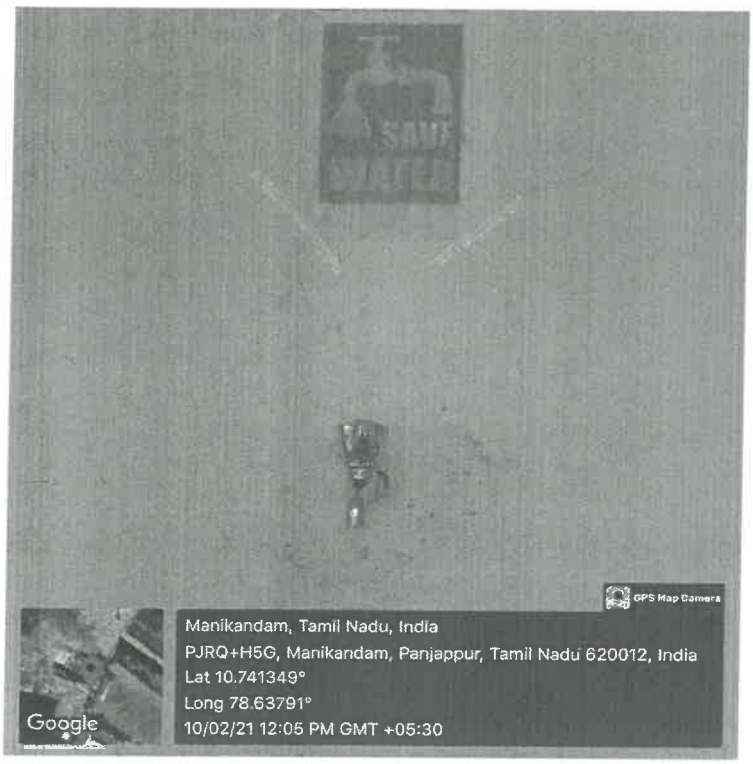
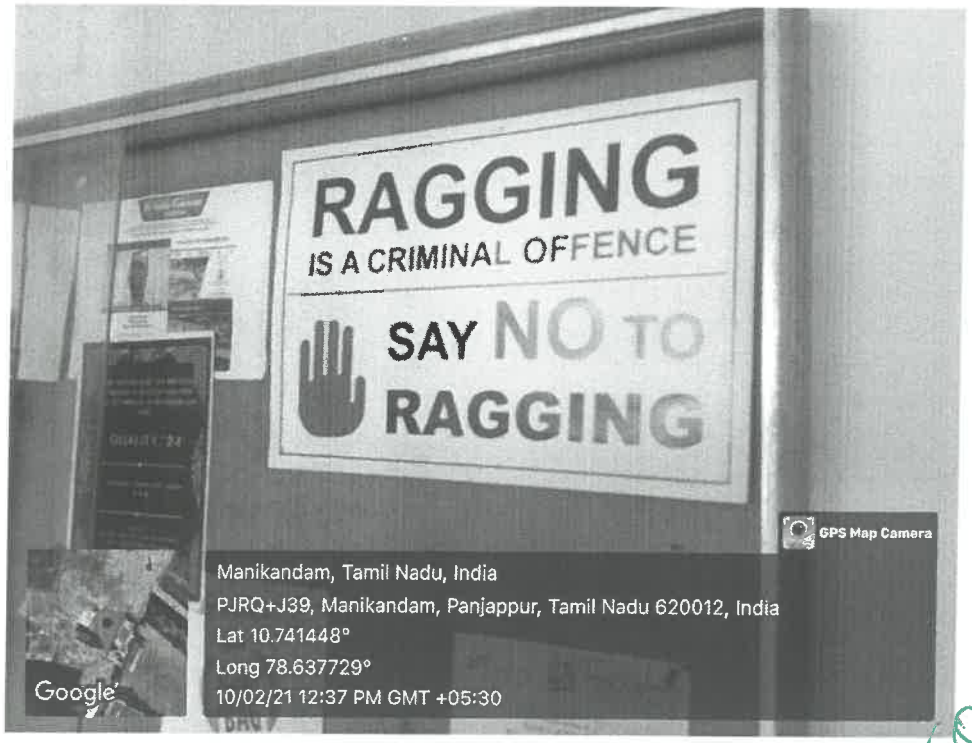
WATER CONSERVATION POSTER



BARRIER FREE ENVIRONMENT POSTER



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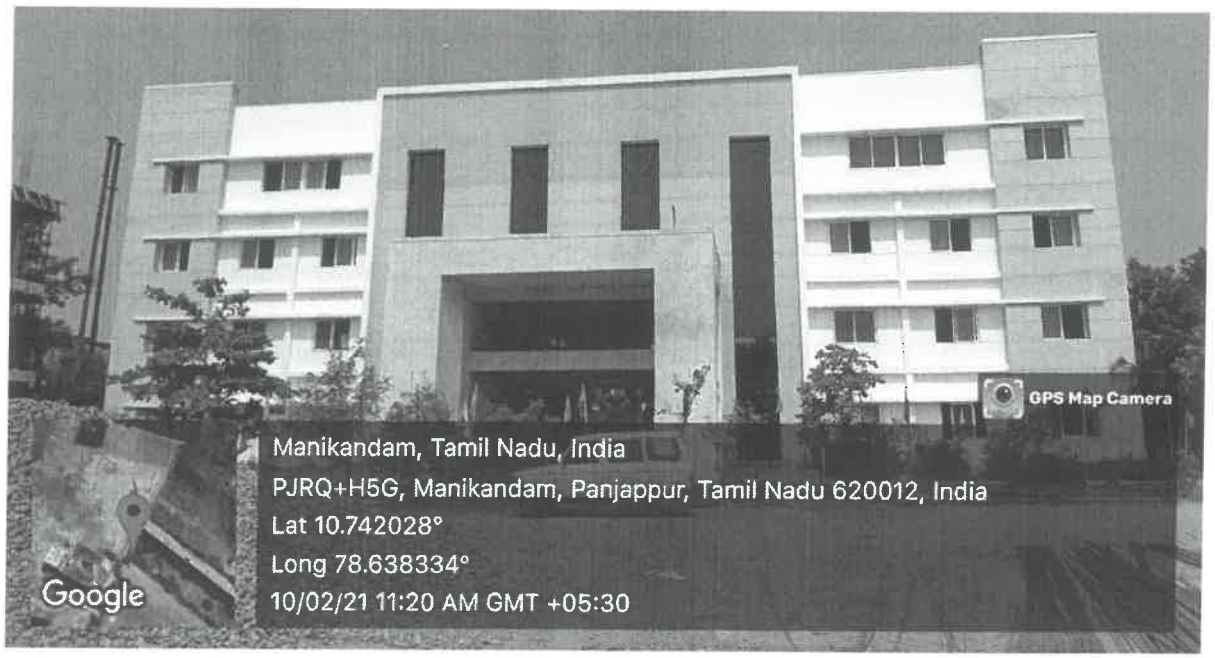
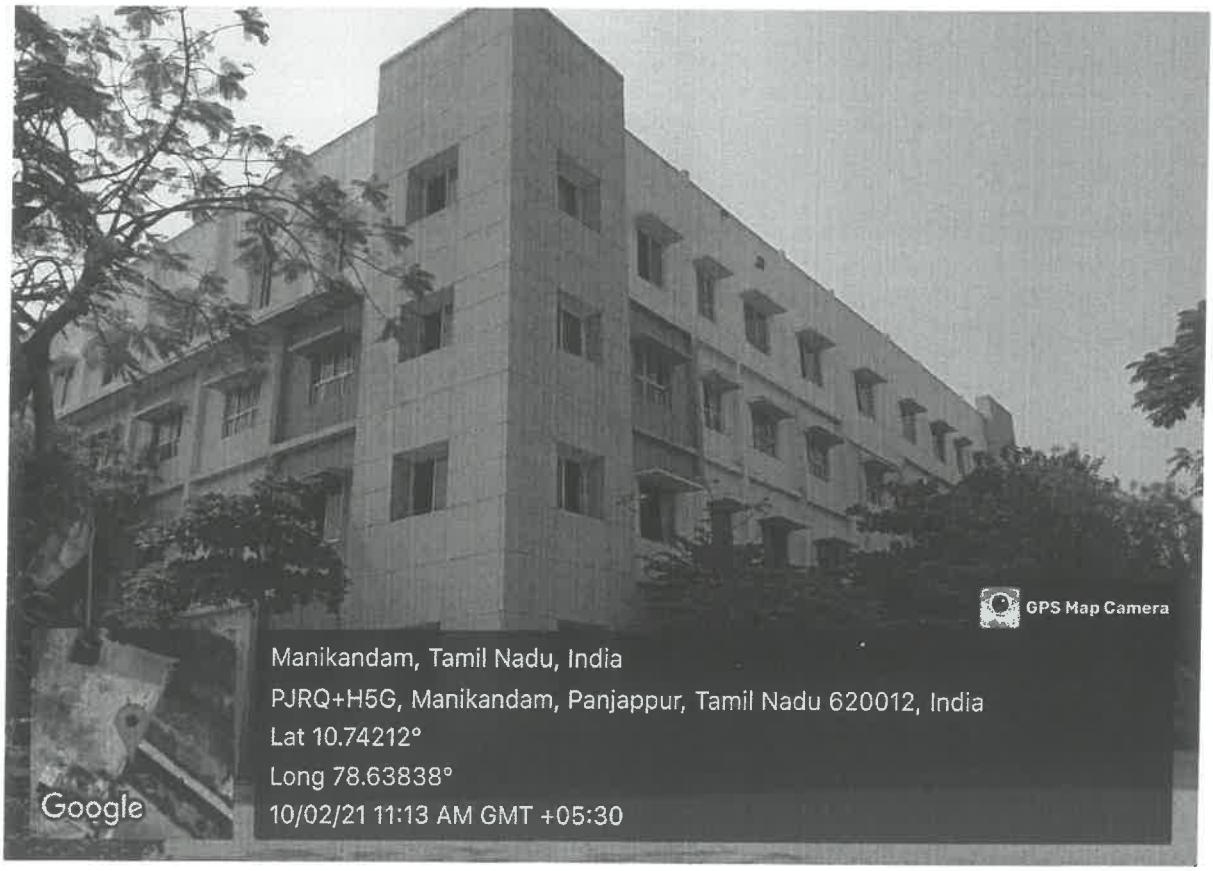
COLLEGE CAMPUS PHOTOS (Main Building with Garden)





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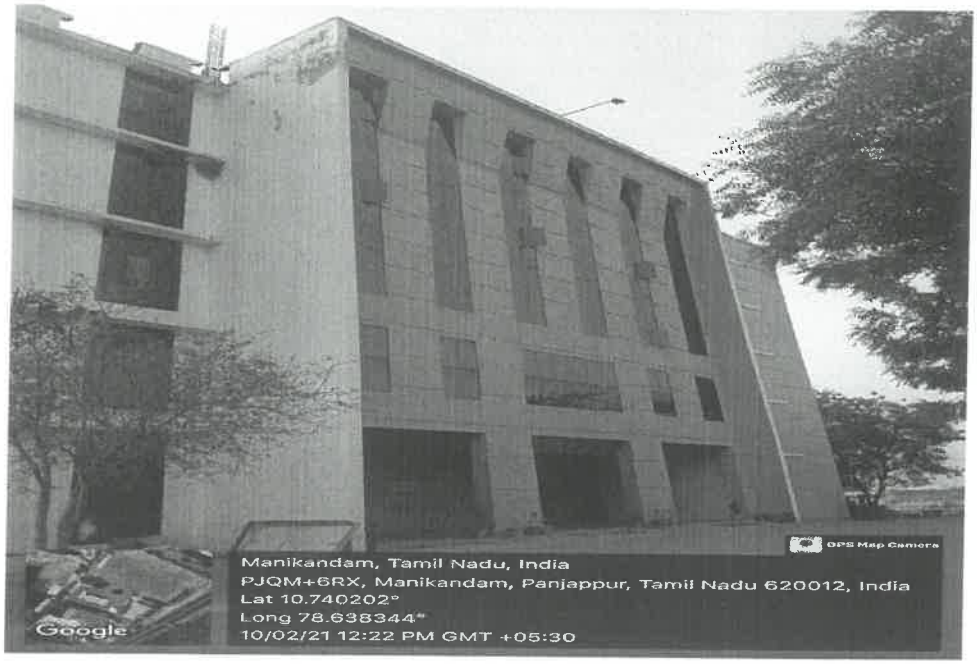
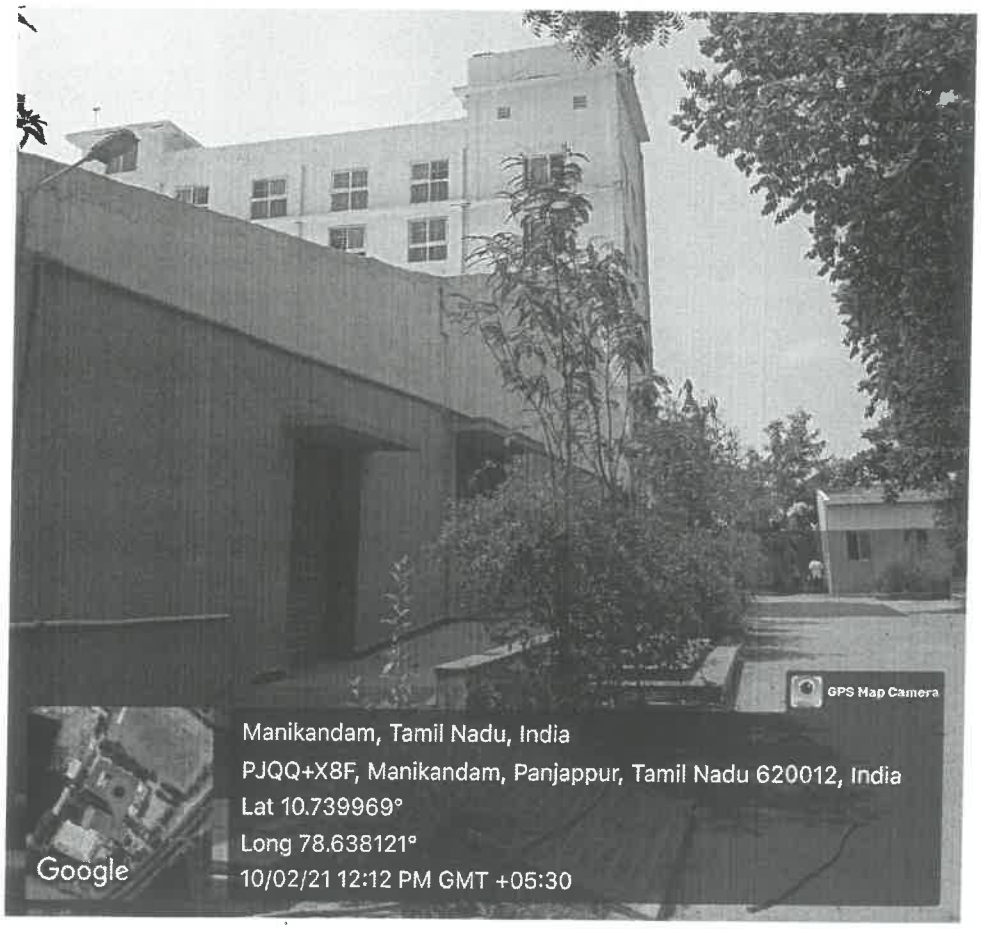
BLOCK - II





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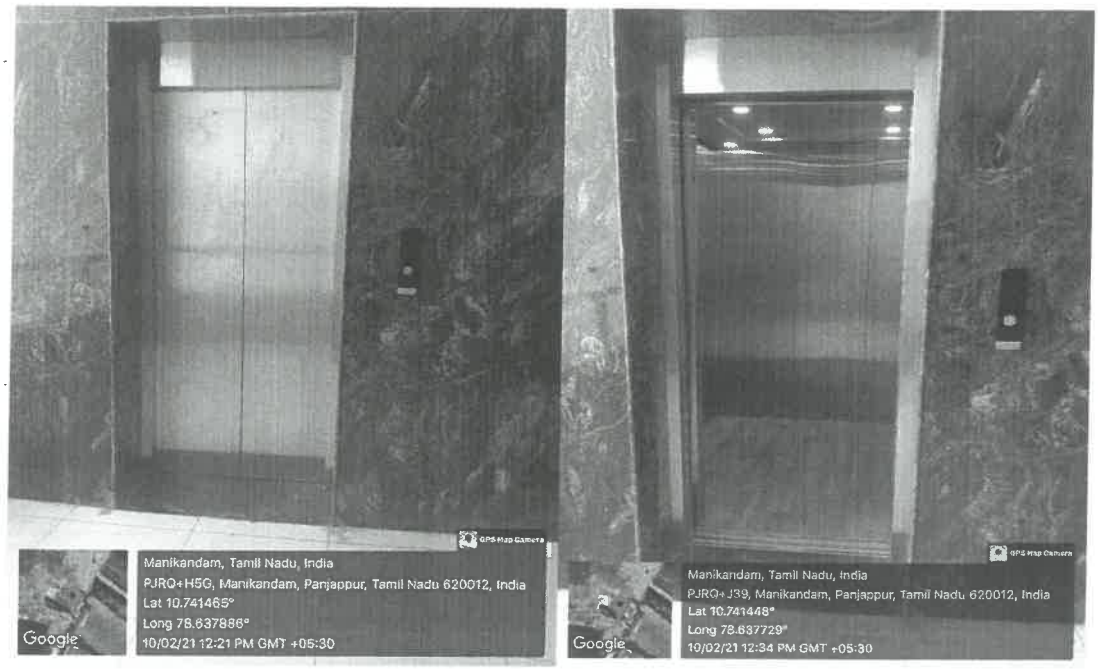
7.1.2: The Institution has facilities and initiatives for

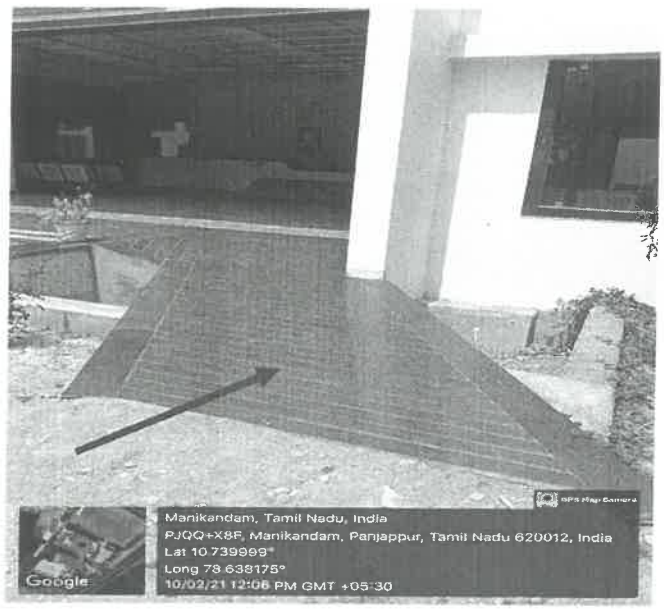
5. DISABLED FRIENDLY, BARRIER FREE ENVIRONMENT

LIFT



Ramp Facilities

Main building has a ramp designed for individuals with disabilities, particularly those with mobility impairments.



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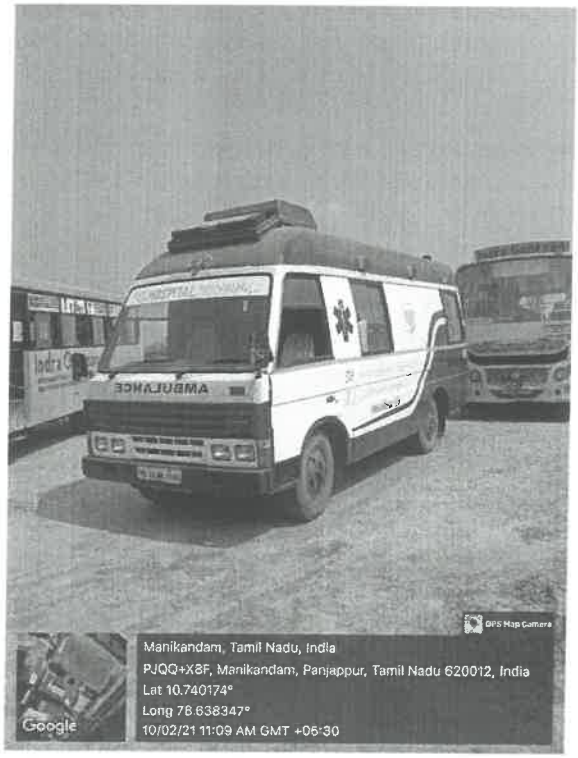
WHEEL CHAIR

AMBULANCE FACILITIES



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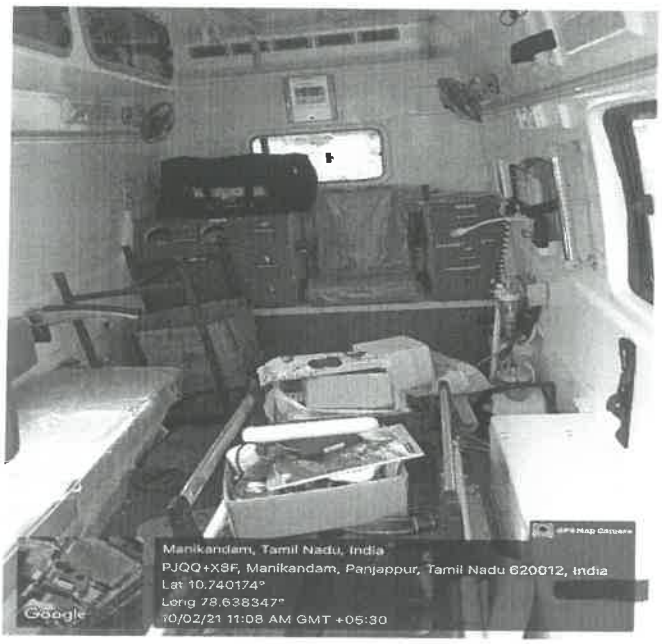

FIRE EXTIGUISHERS AND FIRE BUCKETS FIRE EXTIGUISHER
(Main Building - Ground Floor)

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Principal
Indra Ganesan College of Engineering
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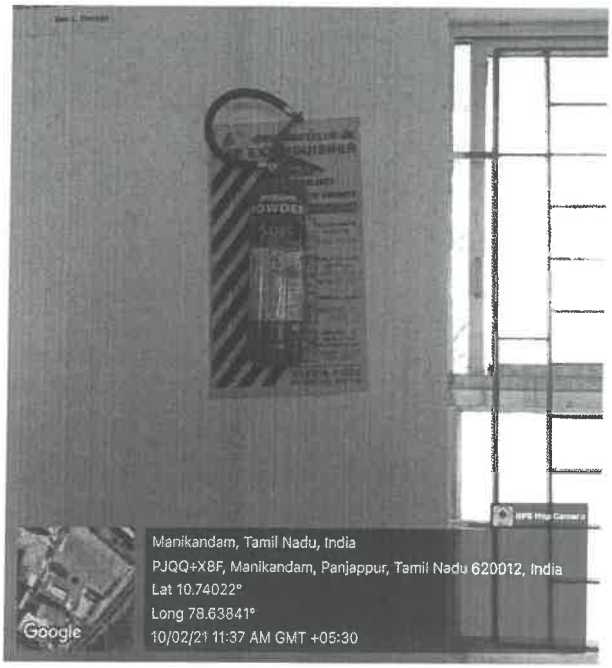
Manikandam, Trichy-620 012.

FIRE EXTINGUISHERS - Main Building - First Floor



FIRE EXTINGUISHERS - Engineering Building - First Floor

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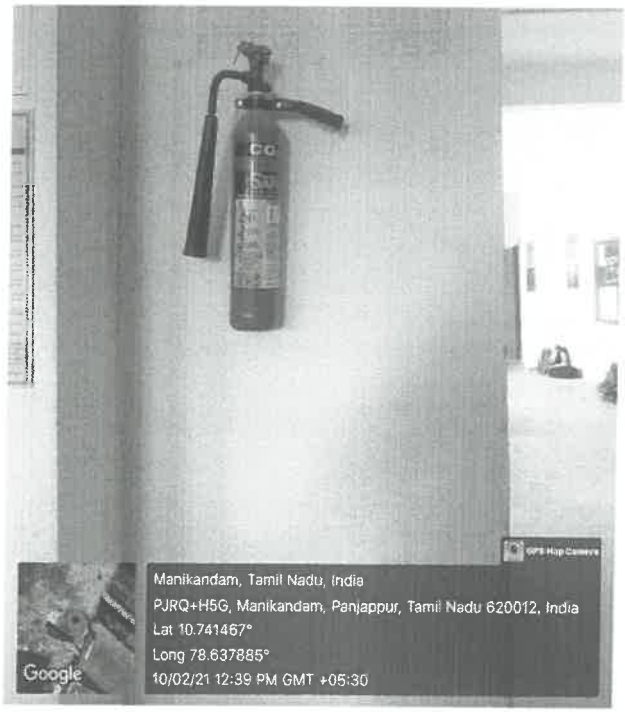
Manikandam, Trichy-620 012.

FIRE EXTINGUISHERS - Engineering Building – Second Floor

FIRE EXTINGUISHERS - Engineering Building – Third Floor



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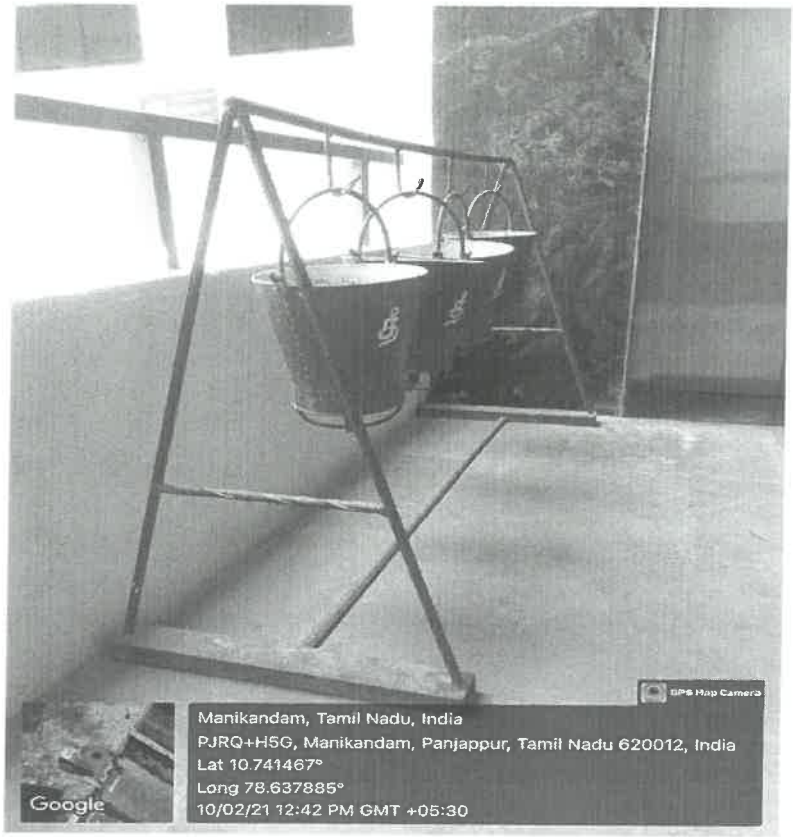
FIRE BUCKETS - MAIN BUILDING 1 (First Floor)



FIRE BUCKETS - MAIN BUILDING 1 (Second Floor)

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DISABLED FRIENDLY WASHROOM (Gens)

DISABLED FRIENDLY WASHROOM (Ladies)

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2019-2020

7.1.2: The Institution has facilities and initiatives for

1. ALTERNATIVE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

SOLAR PANEL - 100 KW

Solar panels are a renewable energy sources that have been installed on our college campus to reduce carbon footprint and save energy costs. Solar panels can also help colleges achieve their sustainability goals and demonstrate their commitment to environmental stewardship.

Technical Specification for Panel : MODEL NO :KS72P320 , Kirloskar Solar

1. Maximum Power =320Watts
2. Maximum Power voltage (vmp) = 36.58 v
3. Maximum Power current(Imp) = 8.76 A
4. Open circuit voltage 45.92V
5. Short circuit current (ISC) = 9.12A
6. Safety class = II
7. Application class = A

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Technical Specification for Inverter, MID 20k ktl3-x, GROWATT INVERTER

1. Maximum PV Voltage = 1100 DC v
2. PV Voltage Range = 160-1000 DC v
3. PV Isc = 33.8 DC
4. Max. Input current =27 DC
5. Max output power = 20,000W
6. Nominal output voltage = 230/400v AC v
7. Max Output current = 31.9 AC a
8. Nominal Output frequency = 50 / 60 hz.

UNITTERUPTED POWER SUPPLY (20 KVA)

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IG Valley, Madurai Main Road
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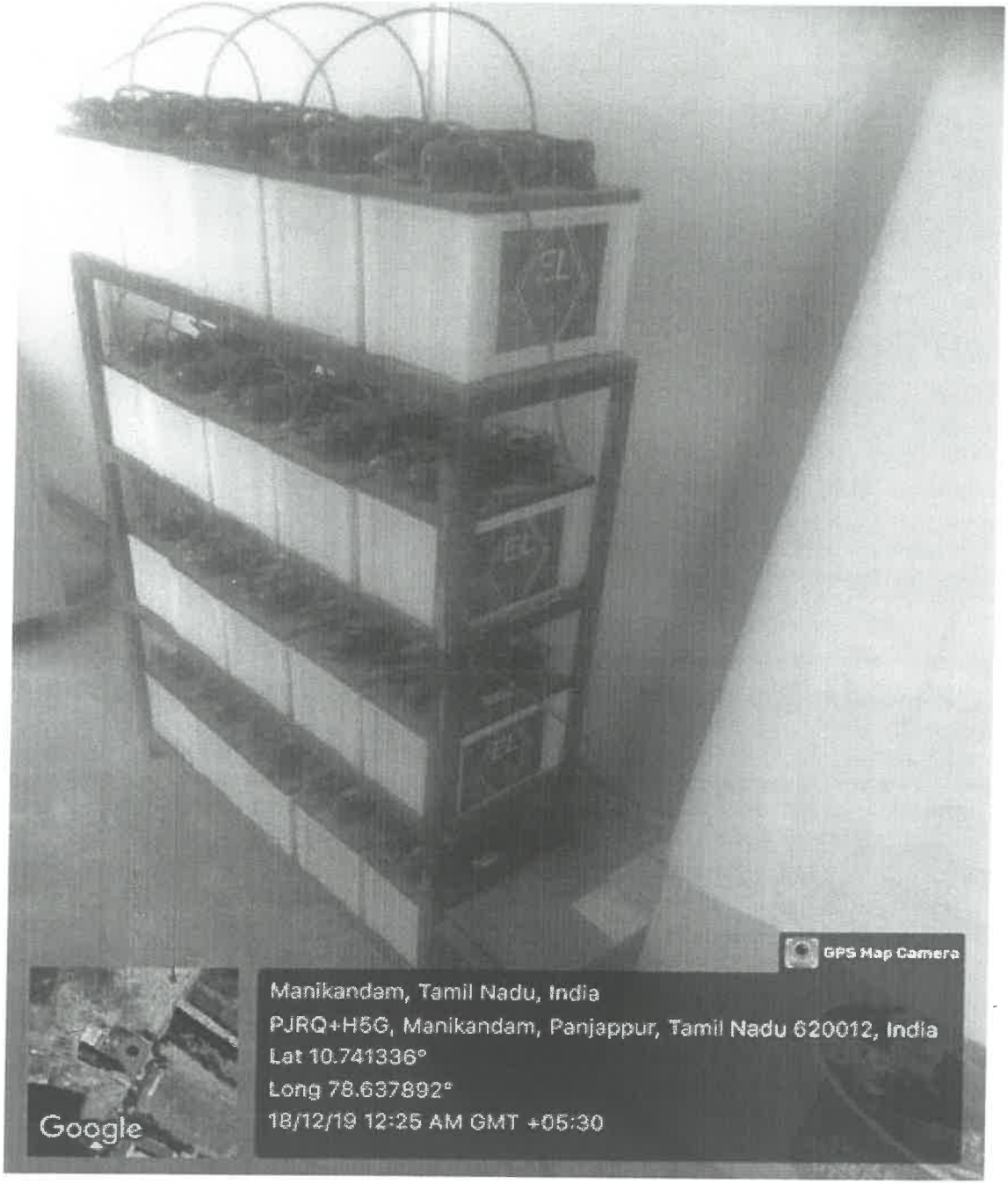
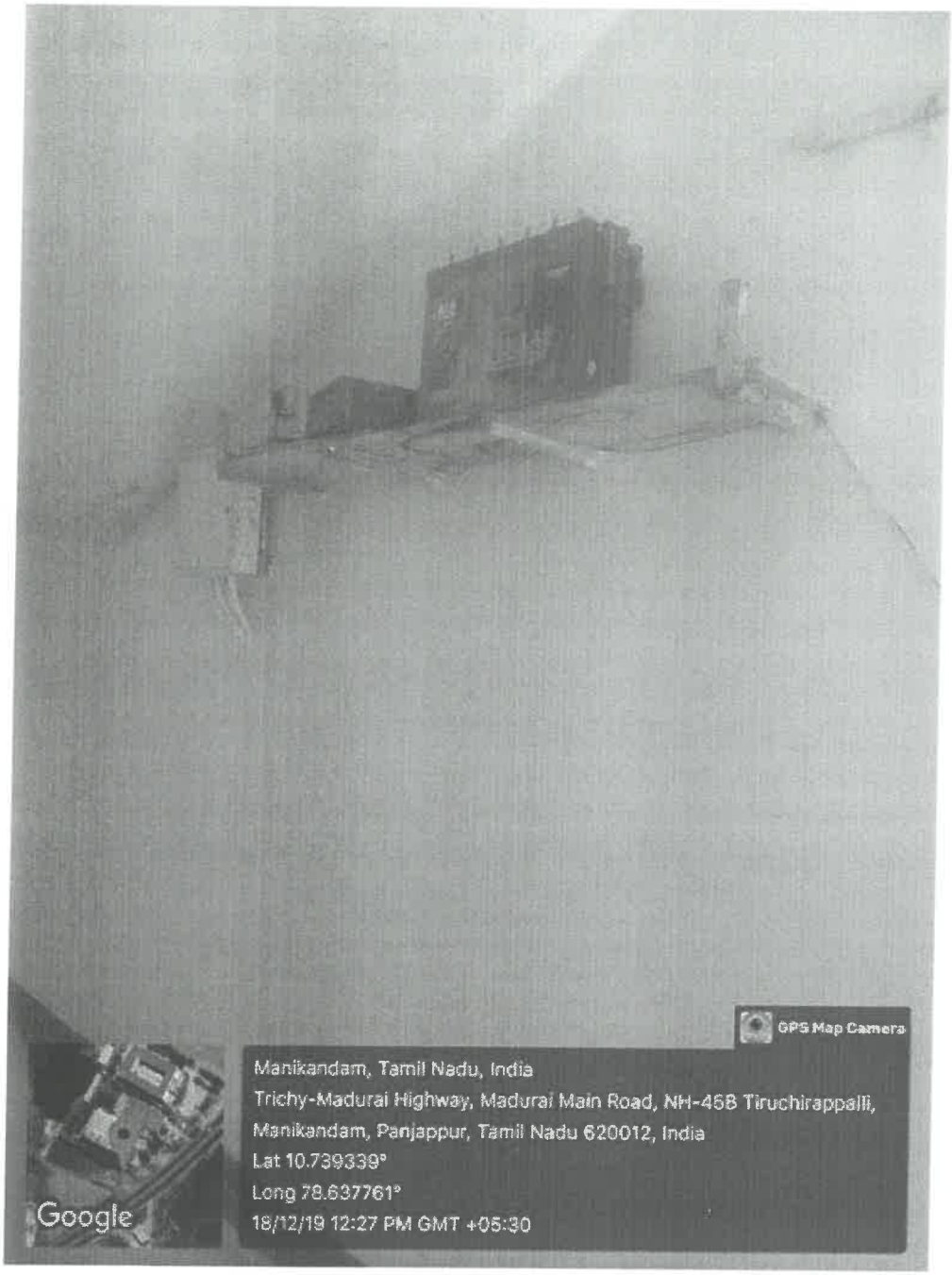
MAIN BUILDING – COMPUITER LAB.1

UPS systems provide continuous power backup during outages, ensuring critical operations like classroom technology, research equipment, and systems remain uninterrupted.



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

MAIN BUILDING – OFFICE – 2 KVA



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

UNITTERUPTED POWER SUPPLY – 30 KVA

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

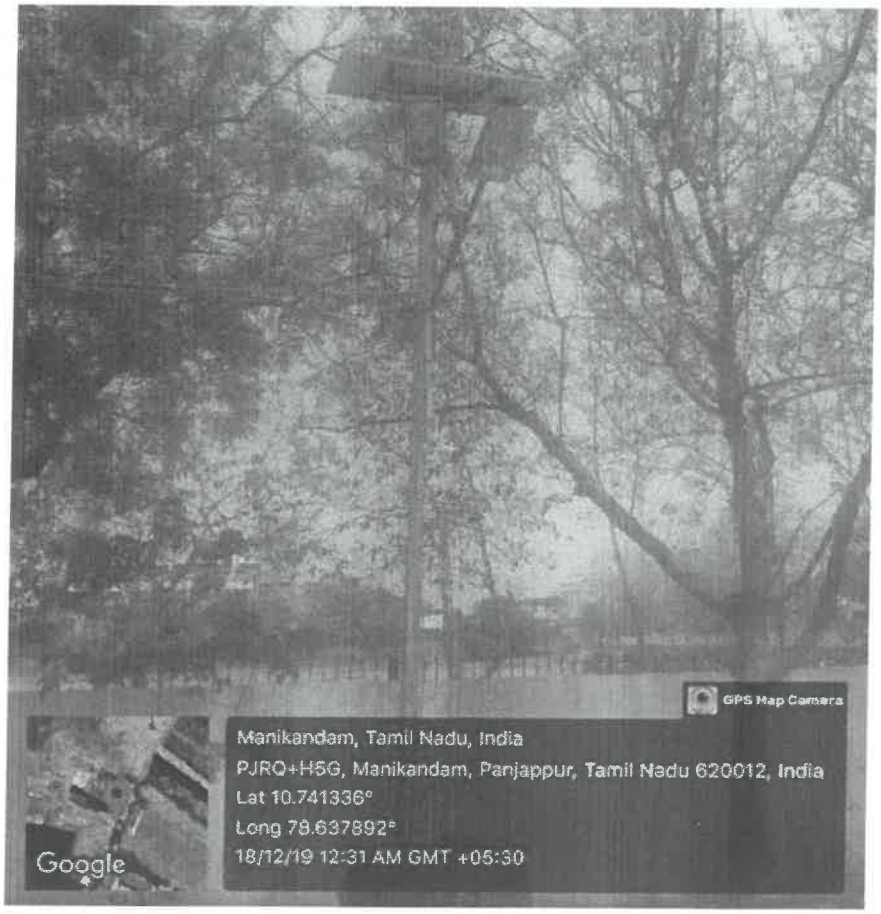
ENERGY CONSERVATION – LED LAMPS

In our main college LED lamps are used and some of the images are shown below.

ENERGY CONSERVATION – SOLAR BASED STREET LIGHT IN THE CAMPUS

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

ENERGY CONSERVATION – SOLAR BASED STREET LIGHT IN THE CAMPUS



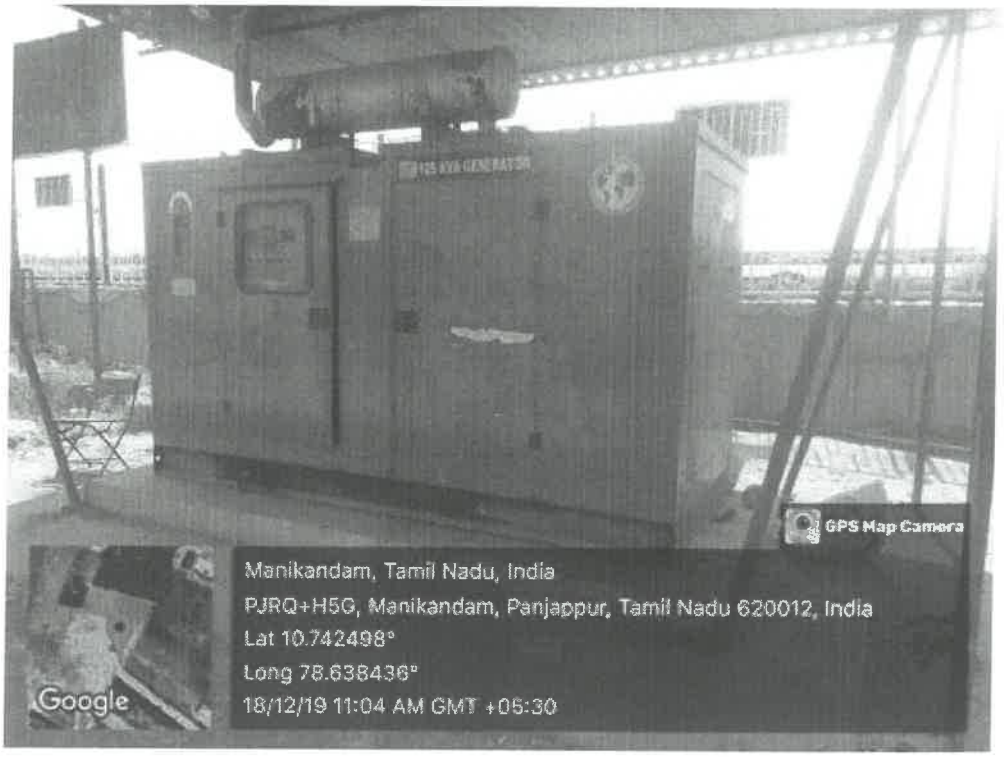
ENERGY CONSERVATION – E-VEHICLE

Battery Vehicles has reduced carbon foot print, improved air quality on college campus and cost savings.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

DIESEL GENERATOR (125 KVA)

Diesel generators are used in our college campus to provide the continuity of options during the power outages and emergency lighting in case of emergencies.

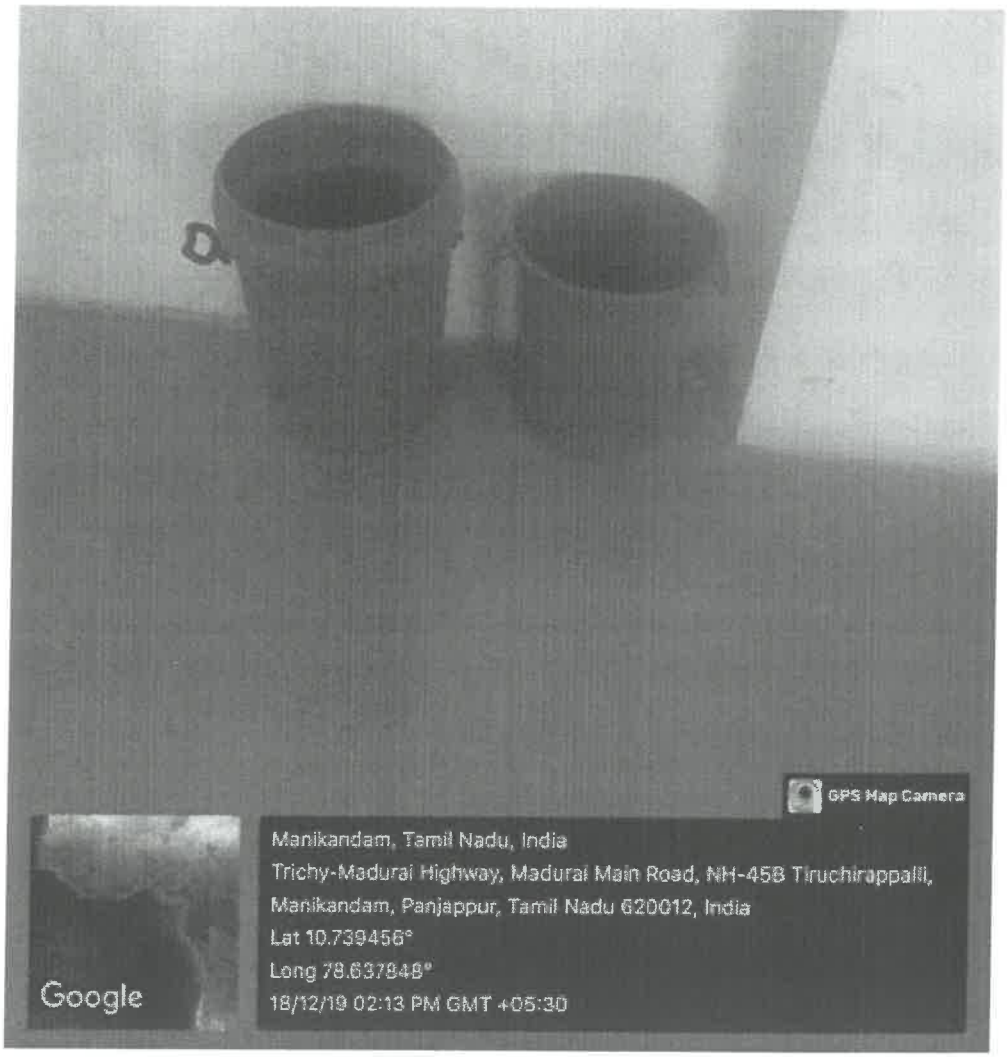


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

7.1.2: The Institution has facilities and initiatives for

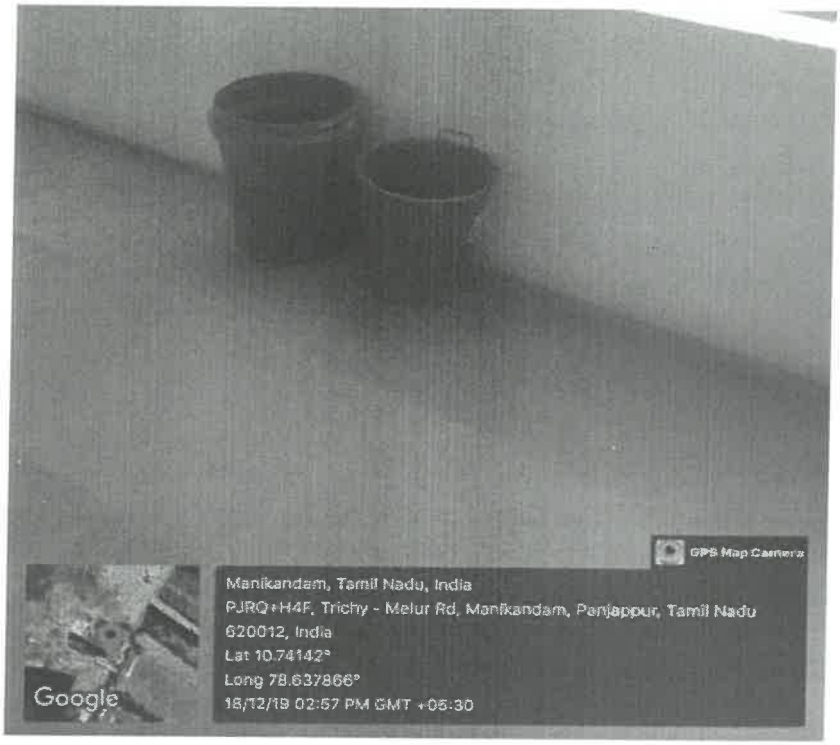
1. MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON DEGRADABLE WASTE

Degradable and Non Degradable Waste Bin - Main Building



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

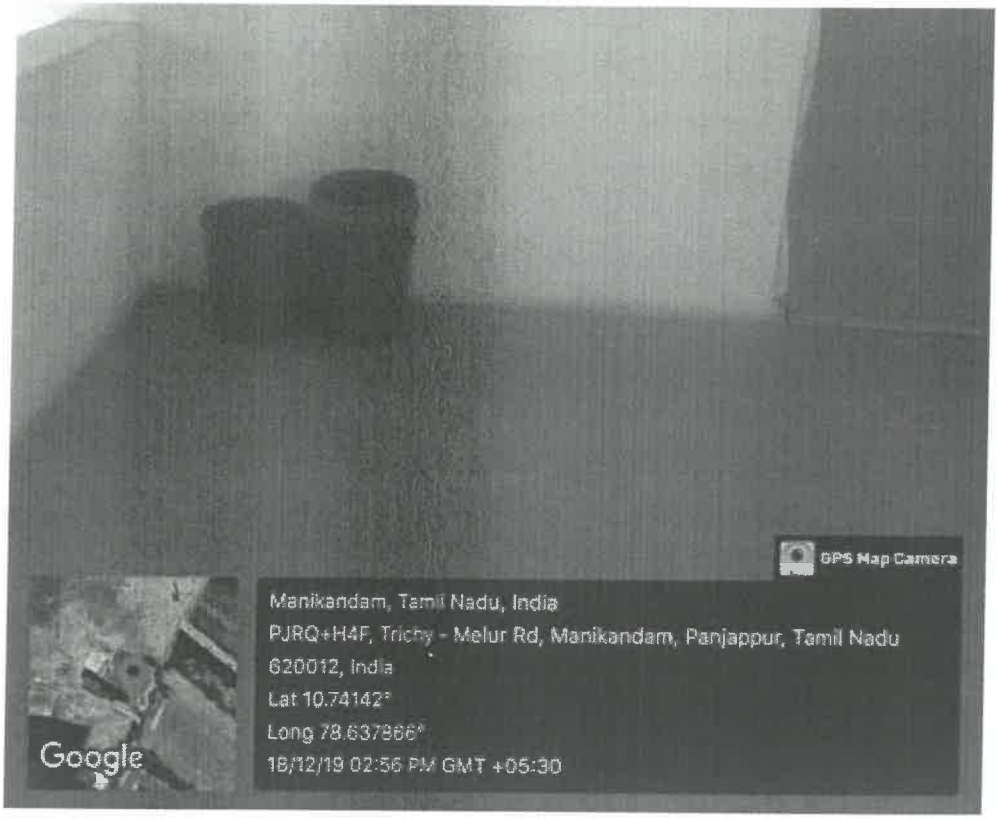
DEGRADABLE AND NON DEGRADABLE WASTE BIN -Main Building – First Floor



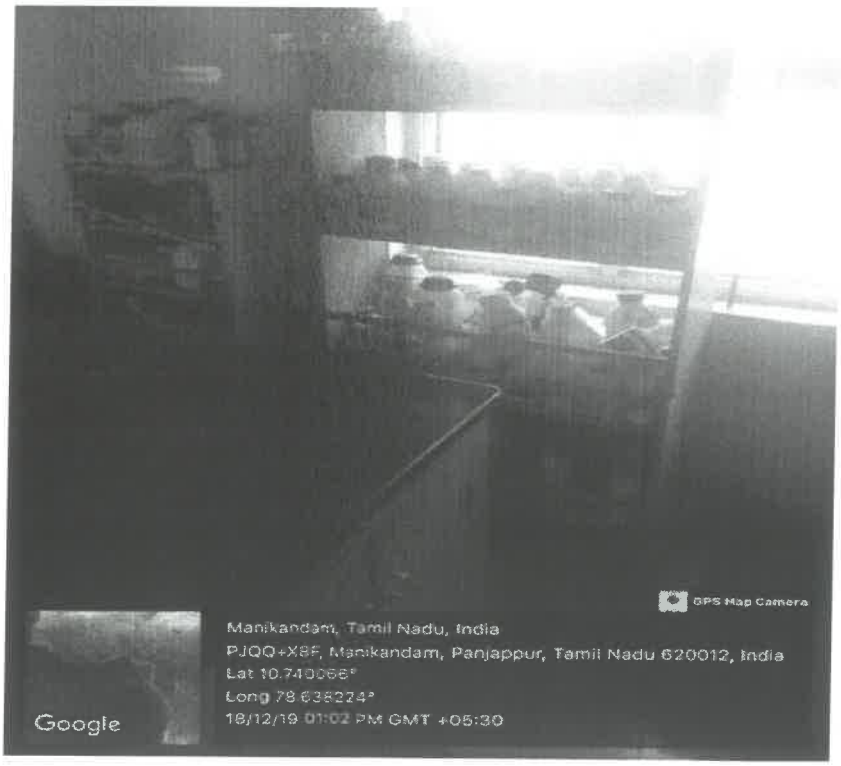
DEGRADABLE AND NON DEGRADABLE WASTE BIN

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

DEGRADABLE AND NON DEGRADABLE WASTE BIN - Building II – First Floor



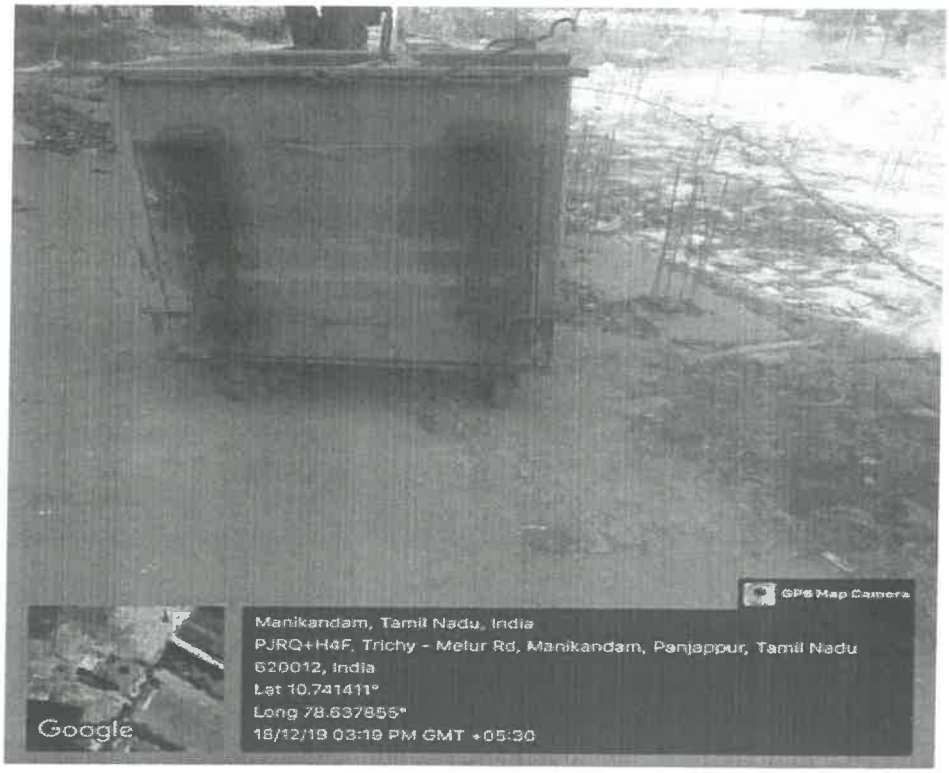
CHEMICAL WASTE



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

E -WASTE

SEGREGATION OF WASTE

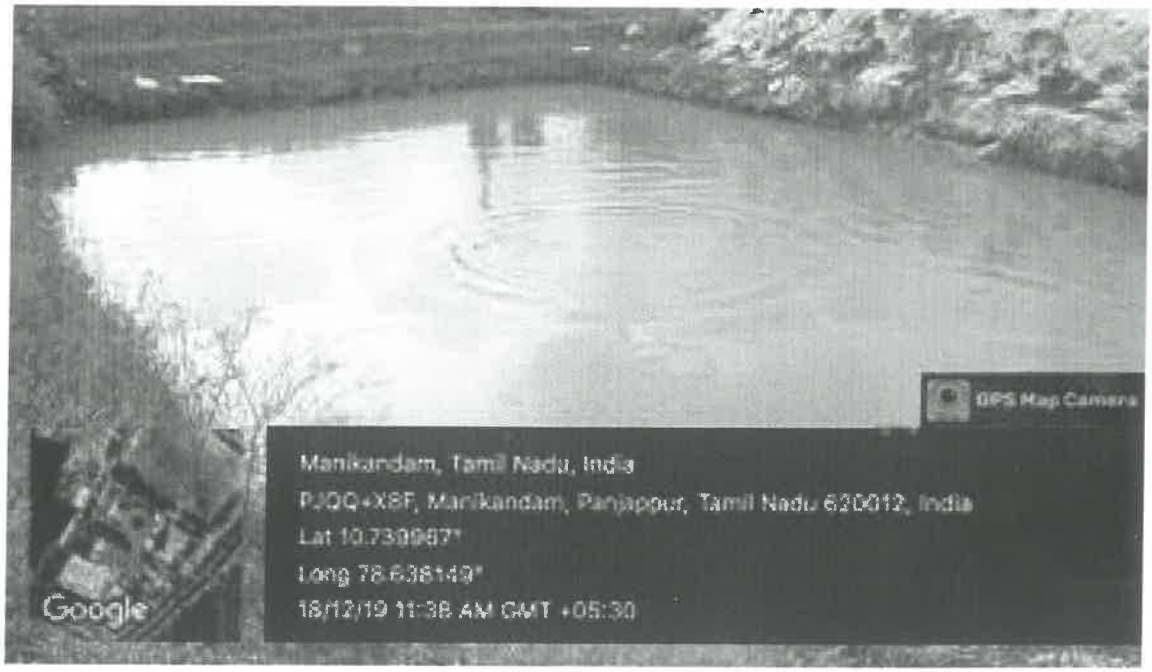


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

7.1.2: The Institution has facilities and initiatives for

3. WATER CONSERVATION

RAIN WATER HARVESTING POND



RAIN WATER HARVESTING PLAN AND STRUCTURE

The Institution emphasizes the importance of water conservation among students and staffs. Various measures are being taken to preserve and conserve it. The huge volume of rainwater from the rooftop is collected in rain water harvesting pits that are constructed in the campus. This water stored in the pits percolates down to the ground which helps in ground water level improvement. The institute ensures that the water wastage is minimized at an optimal level and the leaky taps and pipes are under regular check and hence no loss of water is observed, neither by any leakages nor by overflow from overhead tanks. Rain water harvesting provides an independent water supply during regional restrictions the water thus collected is then used for several purposes the institution adopts sprinkler procedure in large lawns and water is very judiciously used for plantation purposes, in the extreme summer season, when water is scarce the rain water thus collected and stored in the underground tank is then used for the maintenance of the green cover in the campus

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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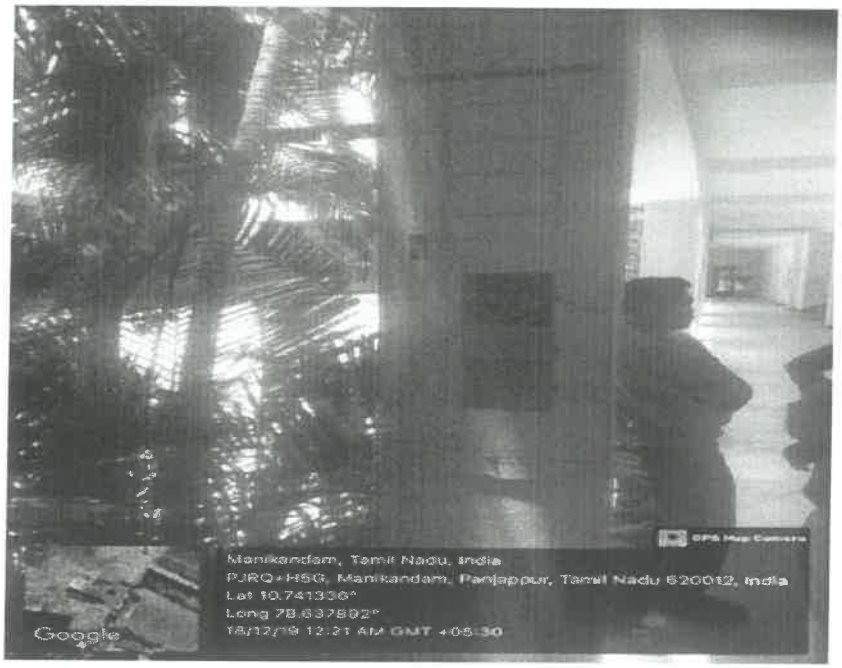


RAIN WATER HARVESTING PIT

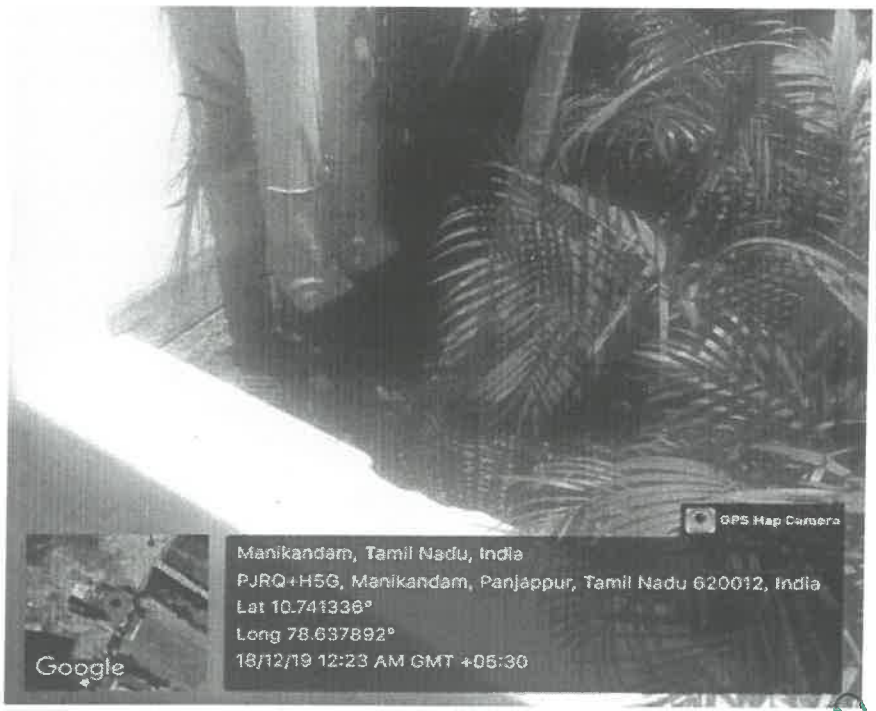
Rainwater harvesting pits are an essential component of RWH systems minimize storm water runoff, and contribute to environmental sustainability. In college campus rain water harvesting pit are provided around the building.

Rain Water Harvesting Pit (1/3)

Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Rain Water Harvesting Pit (2/3)

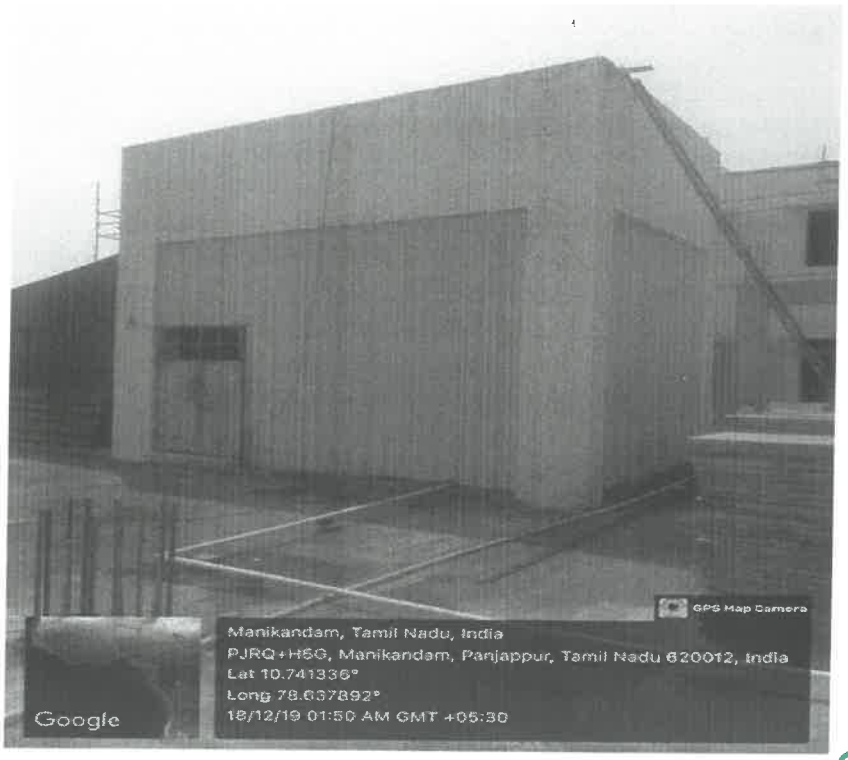
Rain Water Harvesting Pit (3/3)



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

BORE WELL 1

WATER TANK



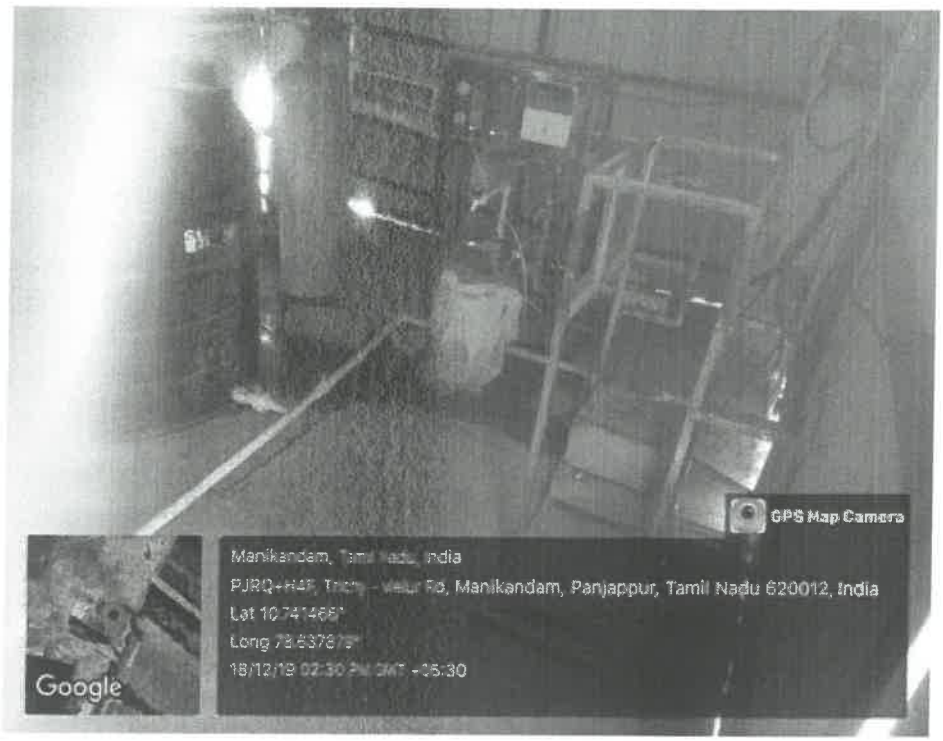
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

WATER DISTRIBUTION THROUGH PIPE LINES

Waste Water Recycling Plant

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

REVERSE OSMOSIS PLANT (RO PLANT)



Dr. G. Balakrishnan, M.E., Ph.D
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Waste Water Recycling - Drip Irrigation System

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

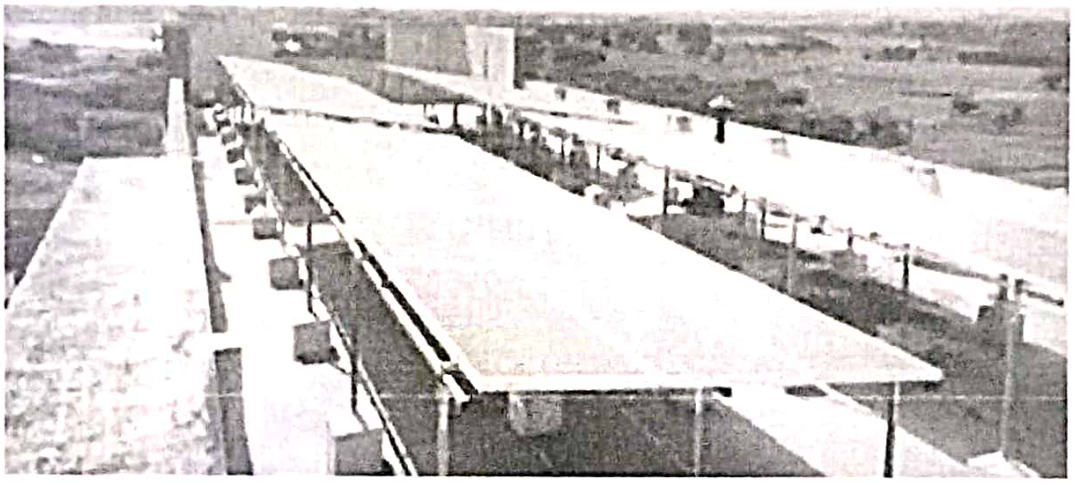

2018-2019

7.1.2: The Institution has facilities and initiatives for

1. ALTERNATIVE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

SOLAR PANEL - 100 KW

Solar panels are a renewable energy sources that have been installed on our college campus to reduce carbon footprint and save energy costs. Solar panels can also help colleges achieve their sustainability goals and demonstrate their commitment to environmental stewardship.



Technical Specification for Panel : MODEL NO :KS72P320 , Kirloskar Solar

1. Maximum Power =320Watts
2. Maximum Power voltage (vmp) = 36.58 v
3. Maximum Power current(Imp) = 8.76 A
4. Open circuit voltage 45.92V
5. Short circuit current (ISC) = 9.12A
6. Safety class = II
7. Application class = A

Technical Specification for Inverter, MID 20k ktl3-x, GROWATT INVERTER

1. Maximum PV Voltage = 1100 DC v
2. PV Voltage Range = 160-1000 DC v
3. PV Isc = 33.8 DC
4. Max. Input current =27 DC
5. Max output power = 20,000W
6. Nominal output voltage = 230/400v AC v
7. Max Output current = 31.9 AC a
8. Nominal Output frequency = 50 / 60 hz.

Dr. G. Balakrishnan, M.E., Ph.D.,
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IG Valley, Madurai Main Road
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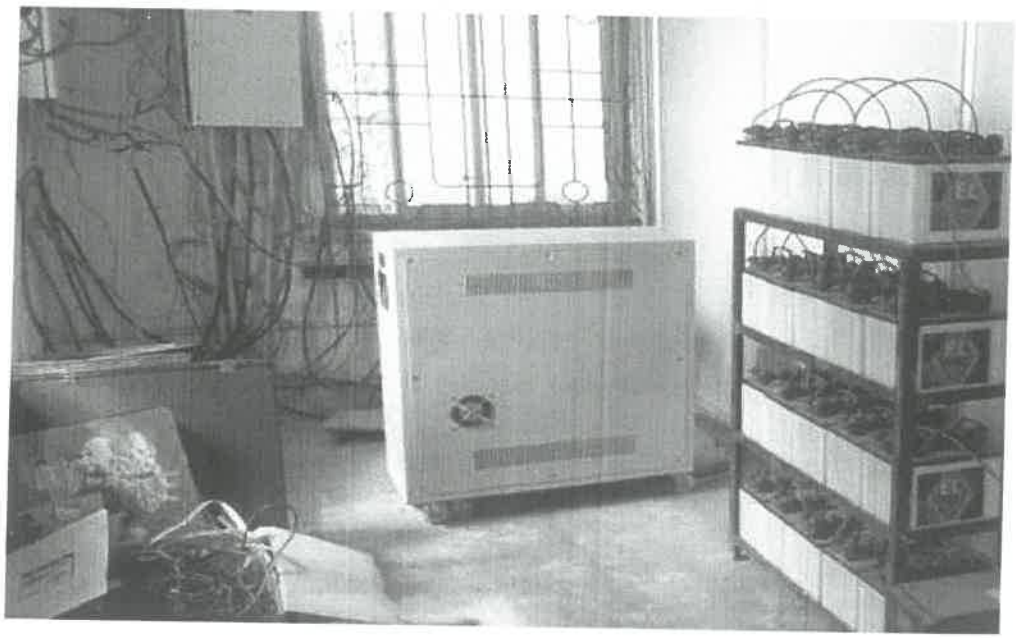
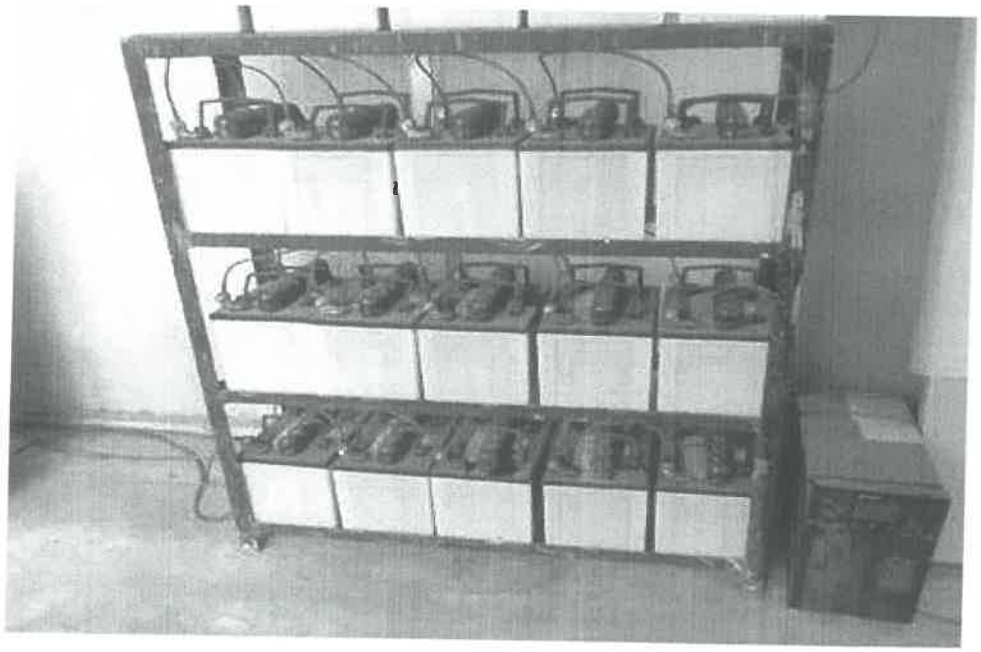
UNITTERUPTED POWER SUPPLY (20 KVA)



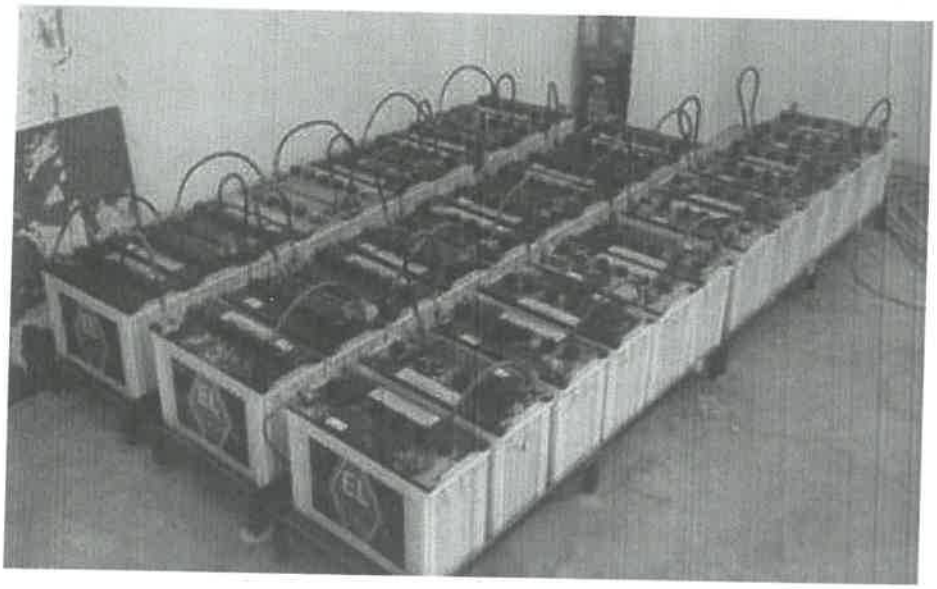
(MAIN BUILDING – COMPUITER LAB.1)

UPS systems provide continuous power backup during outages, ensuring critical operations like classroom technology, research equipment, and systems remain uninterrupted.



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
[illegible]dam, Trichy-620 012.

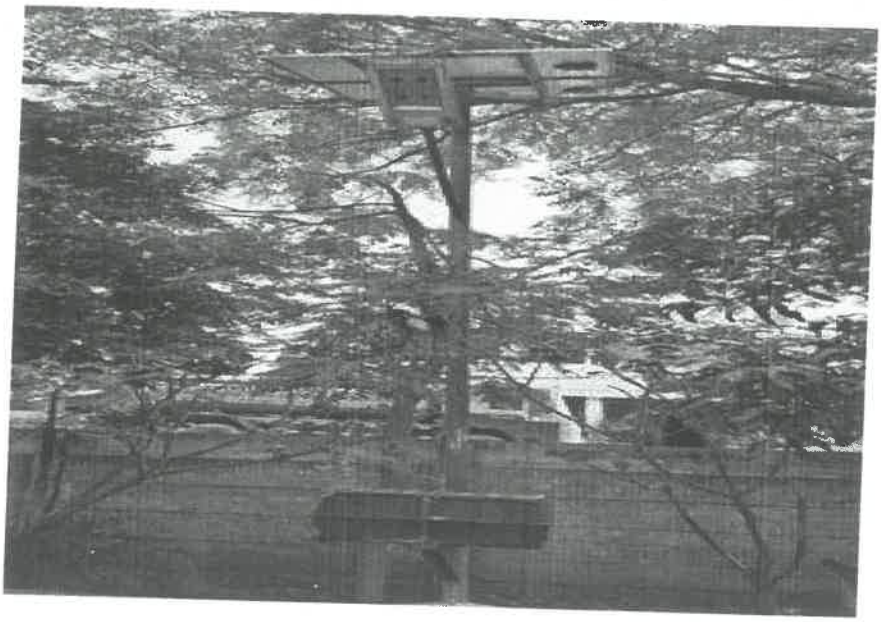
UNITTERUPTED POWER SUPPLY – 30 KVA



ENERGY CONSERVATION – LED LAMPS

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
M[illegible] Trichy-620 012.

ENERGY CONSERVATION – SOLAR BASED STREET LIGHT IN THE CAMPUS



DIESEL GENERATOR

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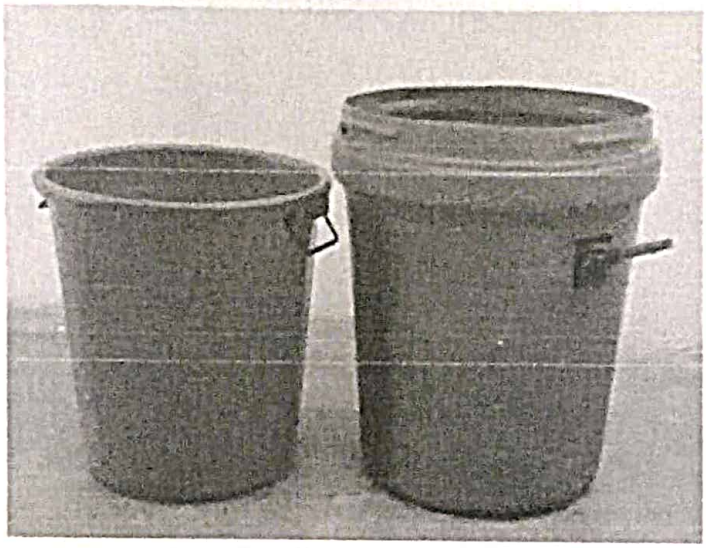
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
[illegible]-620 012.

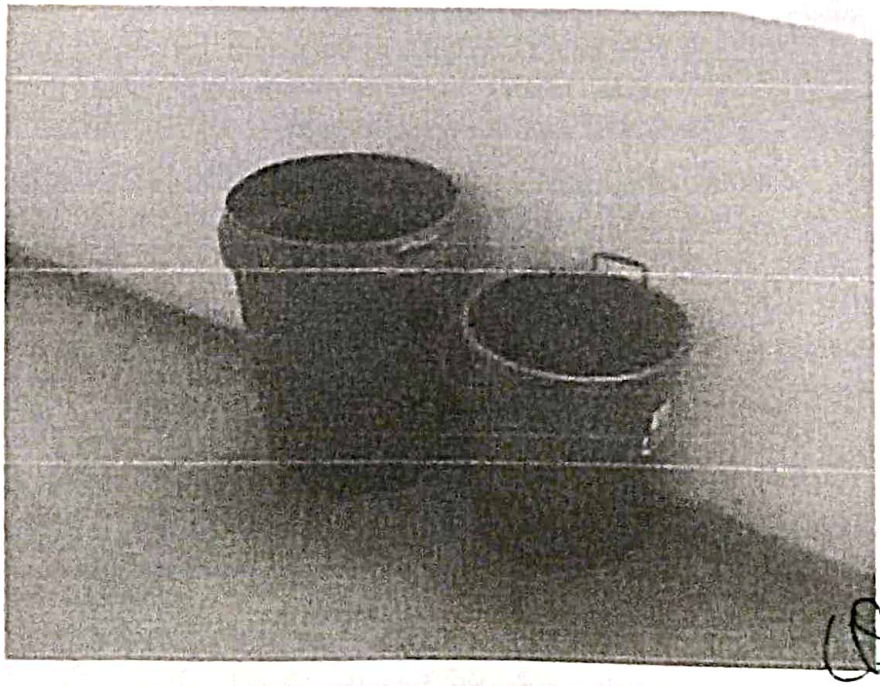
7.1.2: The Institution has facilities and initiatives for

2. MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON DEGRADABLE WASTE

DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Main Building)



DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Main Building – First Floor)



Dr. G. Balakrishnan, M.E., Ph.D.,
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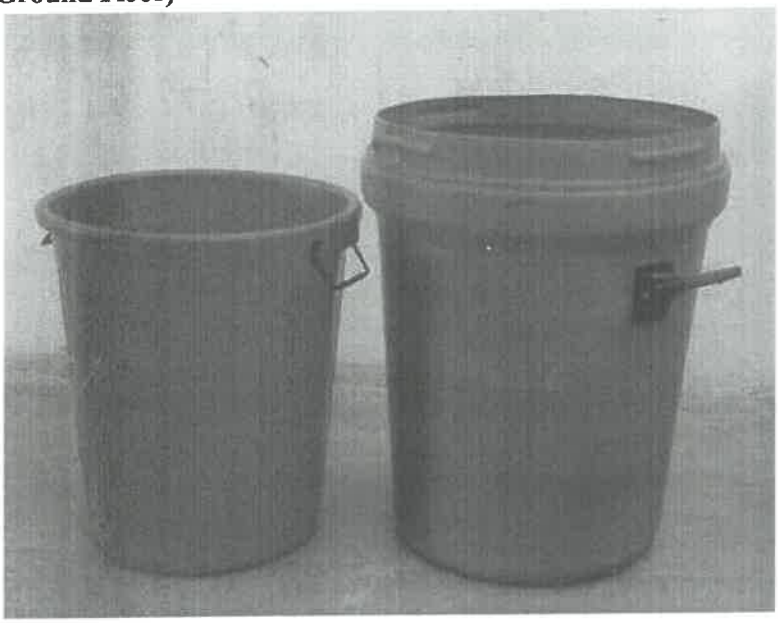
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

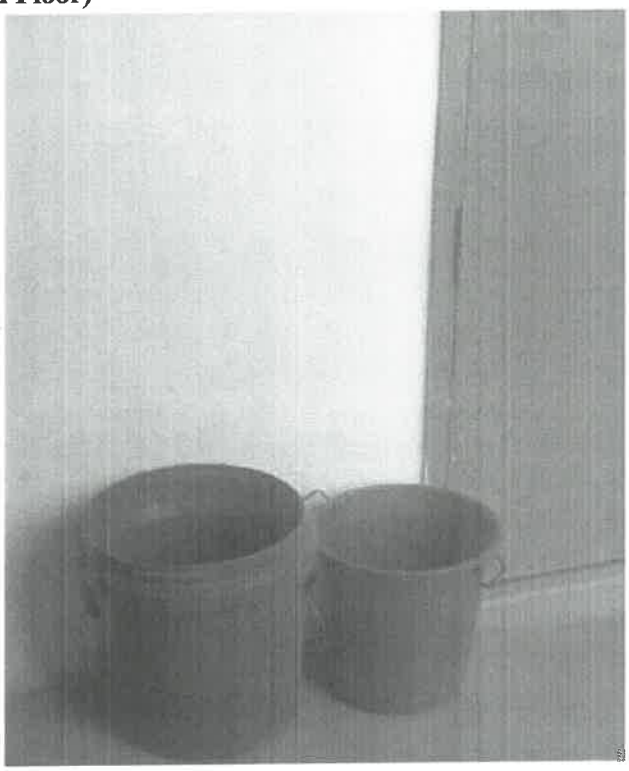
DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – Ground Floor)



DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – First Floor)

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
...ndam, Trichy-620 012.

DEGRADABLE AND NON DEGRADABLE WASTE BIN
(Building II – Second Floor)



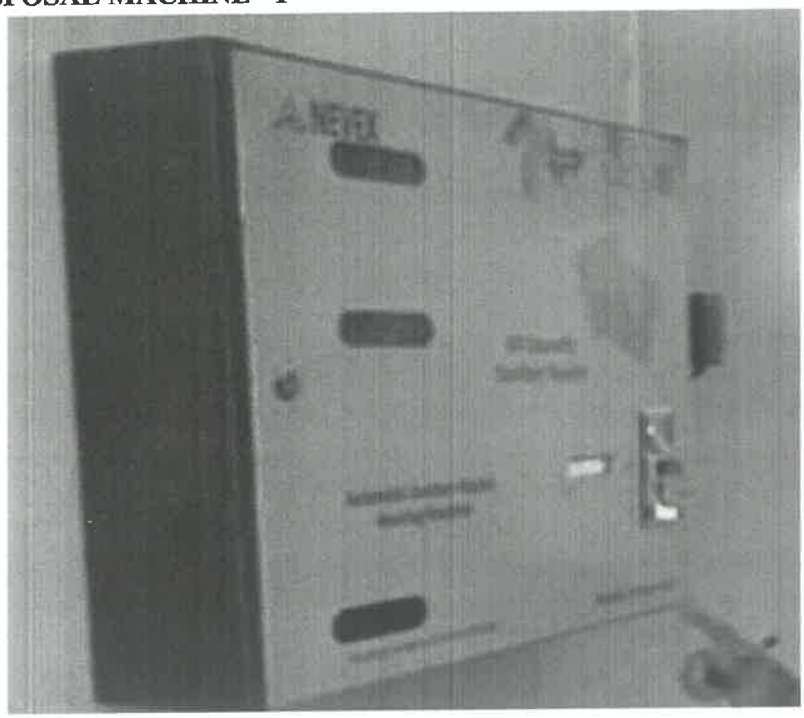
CHEMICAL WASTE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

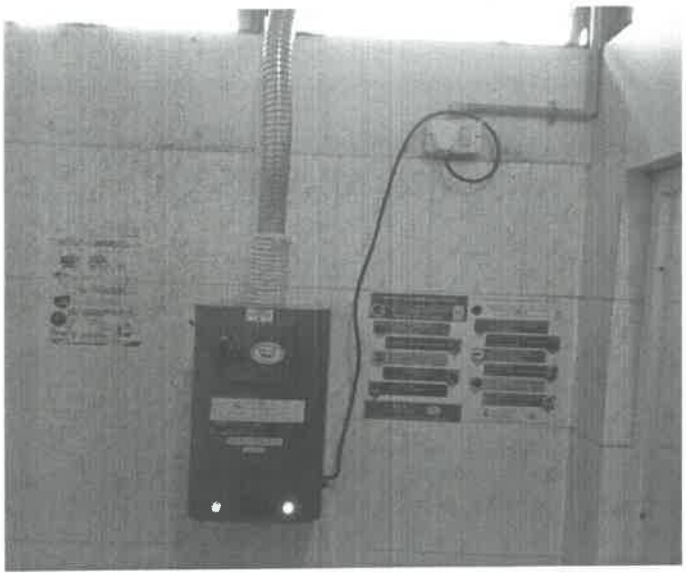
E WASTE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

NAPKIN DISPOSAL MACHINE - I

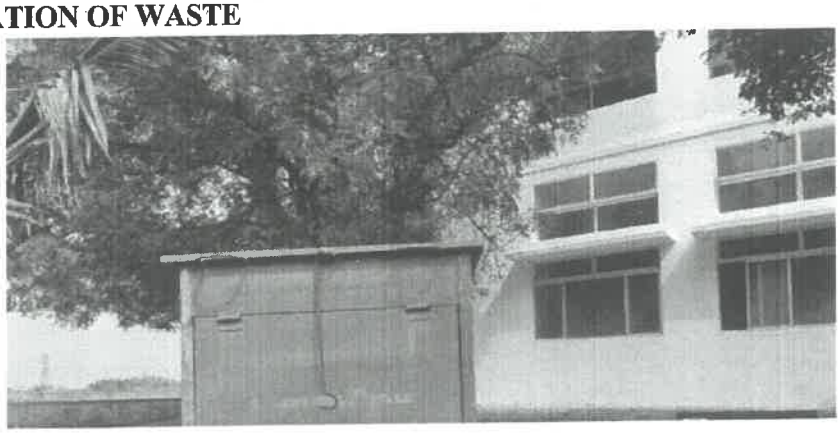


NAPKIN DISPOSAL MACHINE - II



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

SEGREGATION OF WASTE



Dr. G. Balakrishnan, M.E., Ph.D.,
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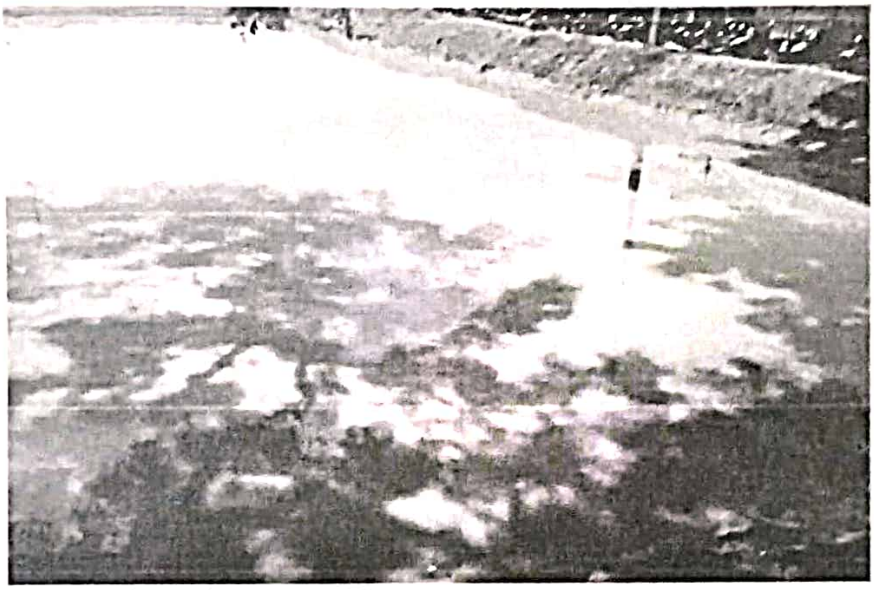
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

7.1.2: The Institution has facilities and initiatives for

3. WATER CONSERVATION

RAIN WATER HARVESTING POND



RAIN WATER HARVESTING PLAN AND STRUCTURE

The Institution emphasizes the importance of water conservation among students and staffs. Various measures are being taken to preserve and conserve it. The huge volume of rainwater from the rooftop is collected in rain water harvesting pits that are constructed in the campus. This water stored in the pits percolates down to the ground which helps in ground water level improvement. The institute ensures that the water wastage is minimized at an optimal level and the leaky taps and pipes are under regular check and hence no loss of water is observed, neither by any leakages nor by overflow from overhead tanks. Rain water harvesting provides an independent water supply during regional restrictions the water thus collected is then used for several purposes the institution adopts sprinkler procedure in large lawns and water is very judiciously used for plantation purposes, in the extreme summer season, when water is scarce the rain water thus collected and stored in the underground tank is then used for the maintenance of the green cover in the campus.

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IG Valley, Madurai Main Road
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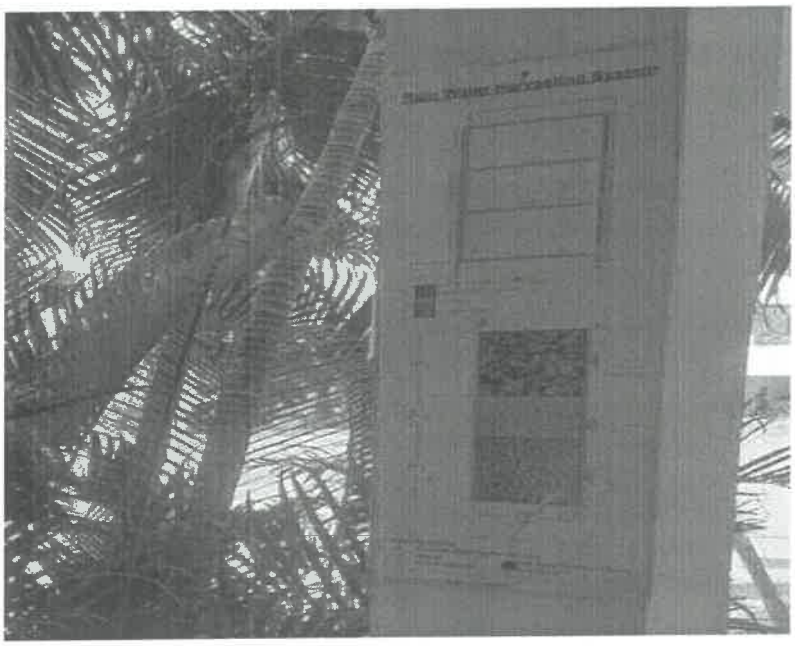
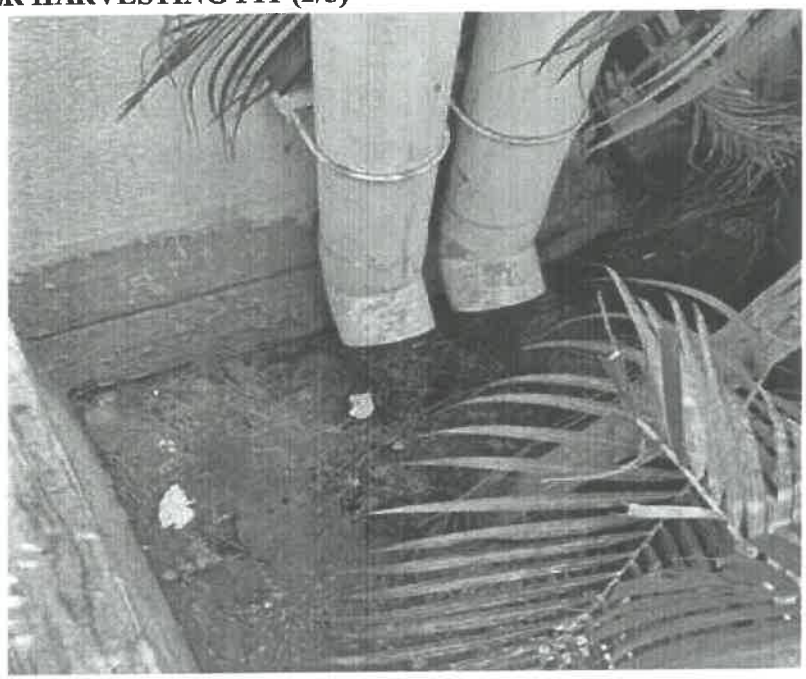


RAIN WATER HARVESTING PIT (1/5)

Rainwater harvesting pits are an essential component of RWH systems minimize storm water runoff, and contribute to environmental sustainability. In college campus rain water harvesting pit are provided around the building.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

RAIN WATER HARVESTING PIT (2/5)



RAIN WATER HARVESTING PIT (3/5)

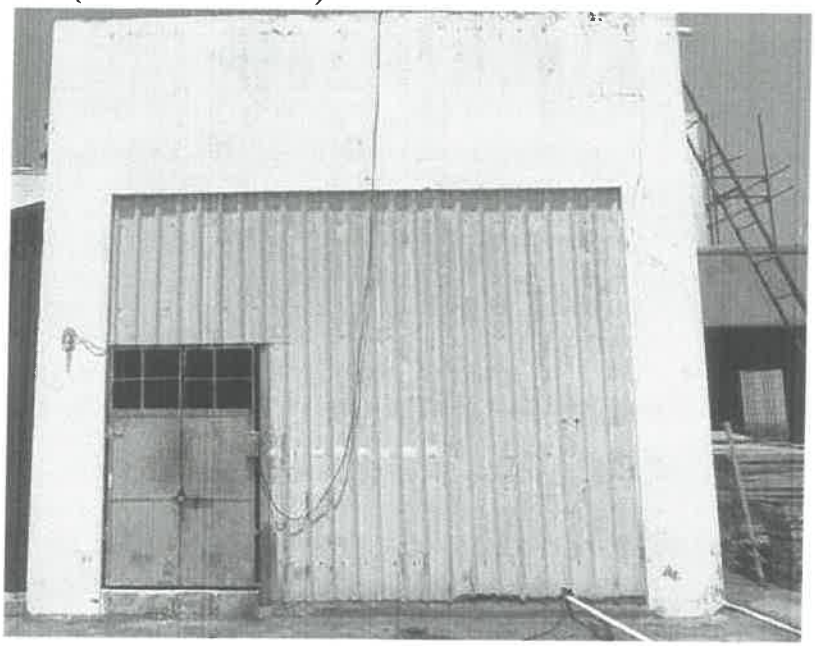
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
Main Road
620 012.

RAIN WATER HARVESTING PIT (4/5)

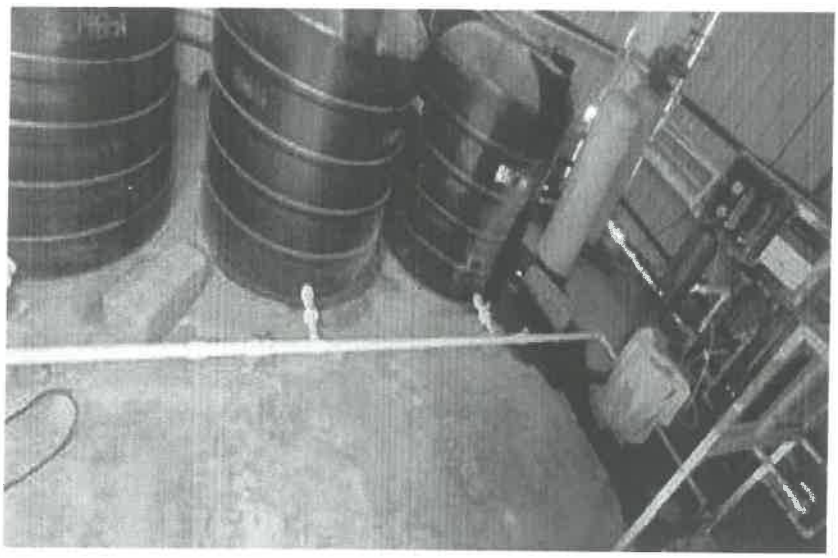
BORE WELL

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
[illegible]-620 012.

WATER TANK – (MAIN BUILDING)



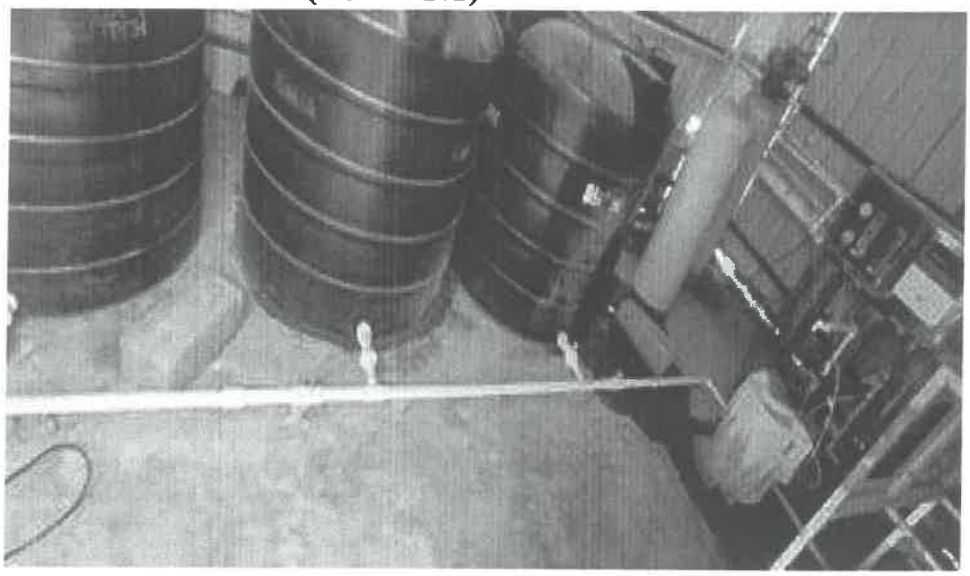
WATER DISTRIBUTION THROUGH PIPE LINES



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
620 012.

WASTE WATER RECYCLING PLANT

REVERSE OSMOSIS PLANT (RO PLANT)



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
[illegible] Trichy-620 012.

WASTE WATER RECYCLING - DRIP IRRIGATION SYSTEM

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
Main Road

7.1.2: The Institution has facilities and initiatives for

4. GREEN CAMPUS INITIATIVES

LIST OF TREES AND SAPLINGS IN COLLEGE CAMPUS

S.NO	Trees/ Saplings Tamil Name	Trees/Saplings English Name	Botanical NAME	COUNT	
				Trees	Saplings
1	Veppa Maram	Neem Tree	Azadirachta Indica	26	01
2	Naaval Maram	Java Plum or Indian Blackberry	Syzygium cumini	38	05
3	Nochi Maram	Peacock chaste tree	Vitex negundo	11	02
4	Netling Maram	Foxtail Palm	Wodyetia Bifurcata	77	5
5	Vaagai Maram	Syrrogate tree	Albizia Lebbeck	50	7
6	Thennai Maram	Coconut Tree	Cocos Nucifera	50	8
7	Kumizh Thekku	Beechwood	Gmelina Arborea	53	11
8	Pungai Maram	Pongamia Tree	Milletia Pinnata	40	8
9	Badam Maram	Almond Tree	Prunus dulcis	38	06
10	Malai Vemu Maram	Melia dubia	Melila Composite Wild	8	02
11	Murungai Maram	Drumstick tree	Moringa Oleiferea	7	04
12	Maa Maram	Mango Tree	Mangifera Indica	8	03
13	Konnai Maram	Indian laburnum tree	Cassia Fisla	18	07
14	Nelli Maram	Gooseberry Tree	Phyllanthus Emblica	1	05
15	Thekku Maram	Teak Tree	Tectona Grandis	90	10
16	Koyya Maram	Guava tree	Psidium Guajava	8	04
17	Pazha Maram	Jack tree	Artocarpus Heterophyllus	2	-
18	Sapota Maram	Sapota Tree	Manilkara Zapota	6	01
19	Moongil Maram	Bamboo tree	Bambusa vulgaris	19	04
20	Unknown			50	3
TOTAL				**600**	**97**

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TREE PLANTATION PROGRAM ON 2018- 2019

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Principal
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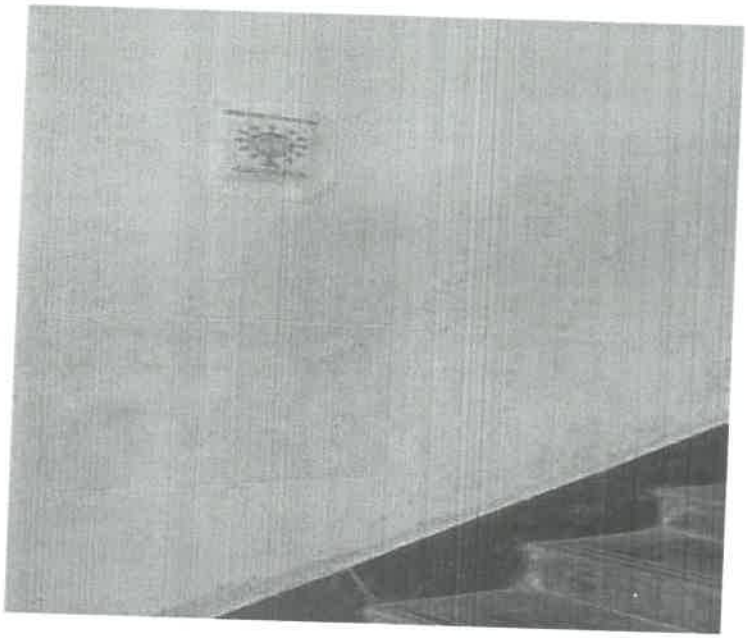
[illegible] Valley, Madurai Main Road
[illegible]12.

GO GREEN POSTER



VEHICLE ENTRY RESTRICTED

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SAY NO TO PLASTIC POSTER ON NOTICE BOARD

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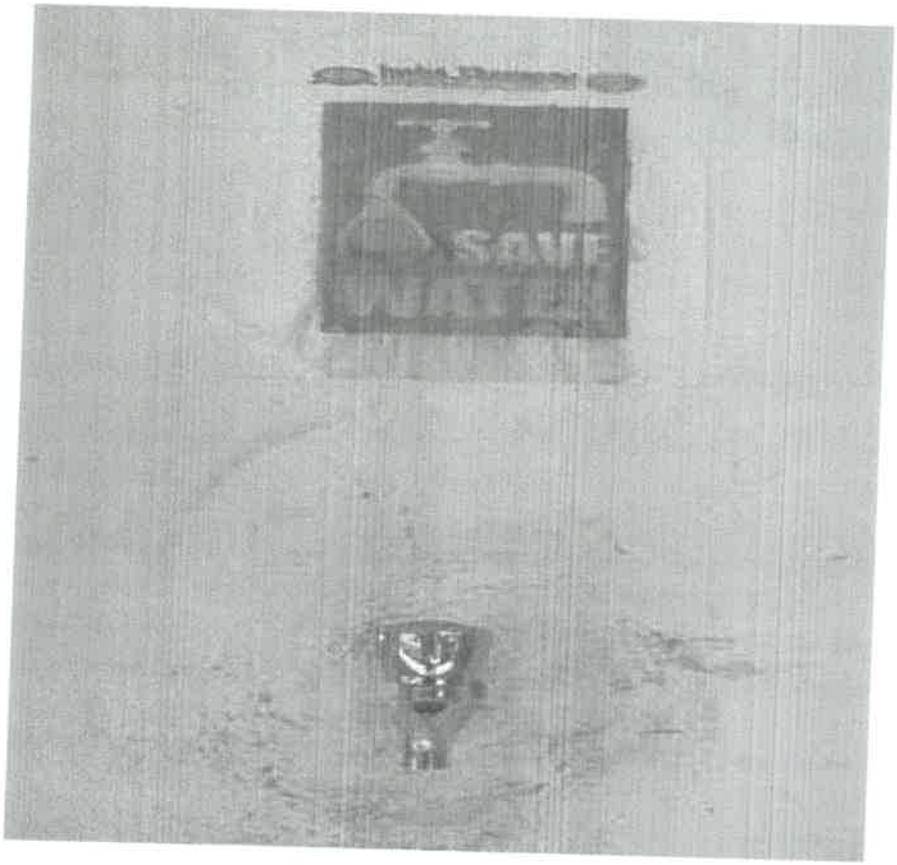
WATER CONSERVATION POSTER



COLLEGE CAMPUS PHOTOS (Main Building with Garden)

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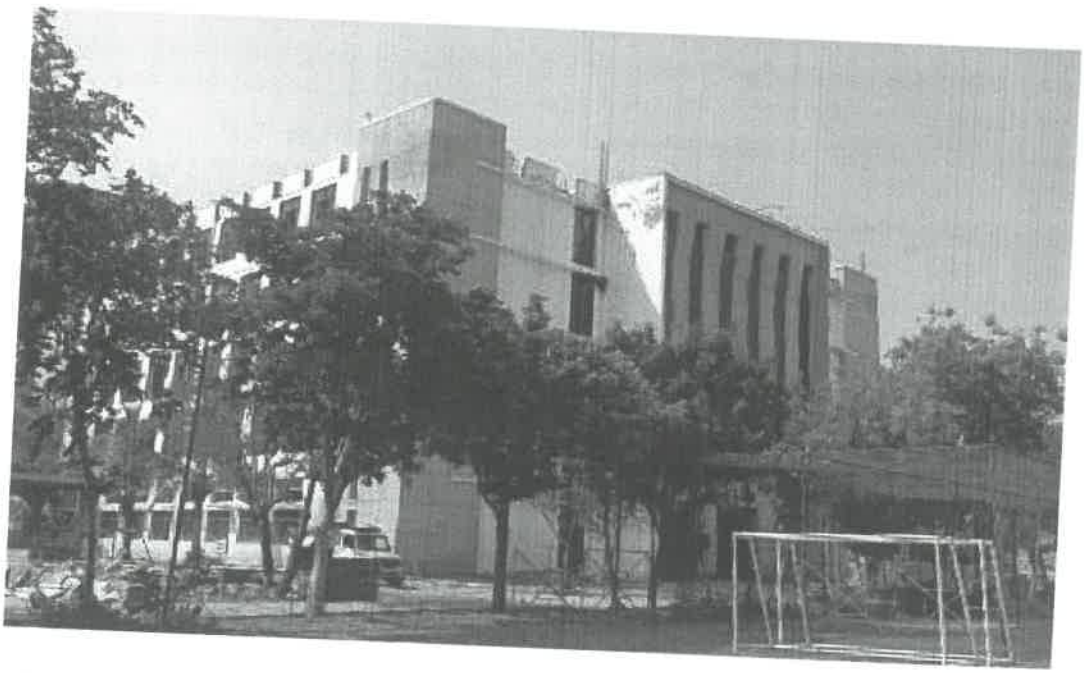
Block - II



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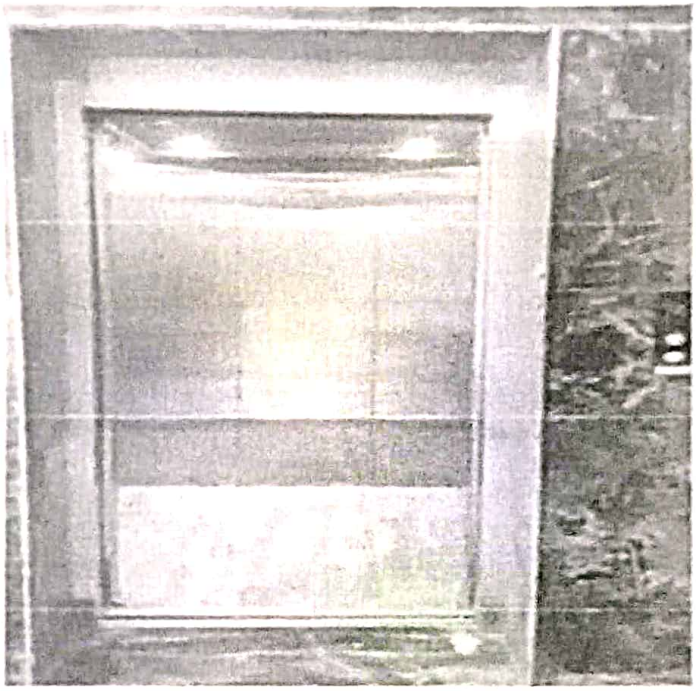
7.1.2: The Institution has facilities and initiatives for

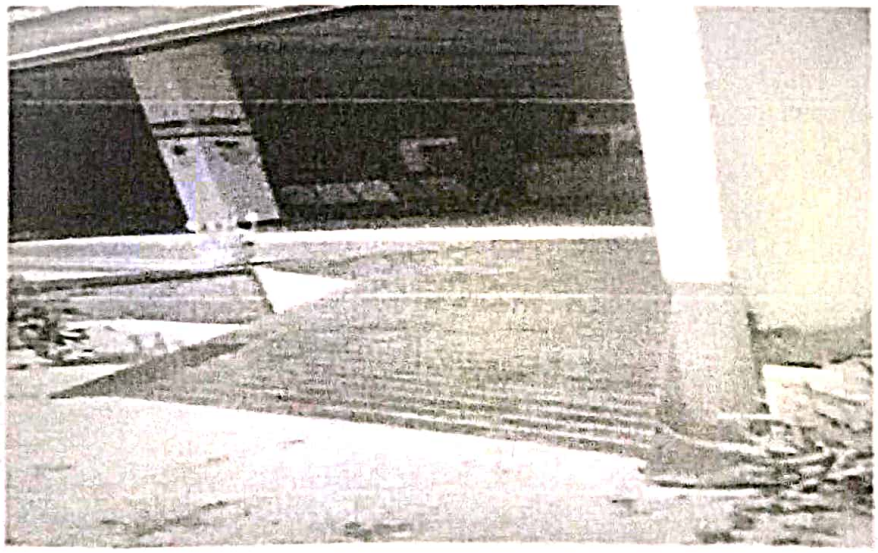
5. DISABLED FRIENDLY, BARRIER FREE ENVIRONMENT

LIFT



Ramp Facilities

Main building has a ramp designed for individuals with disabilities, particularly those with mobility impairments.



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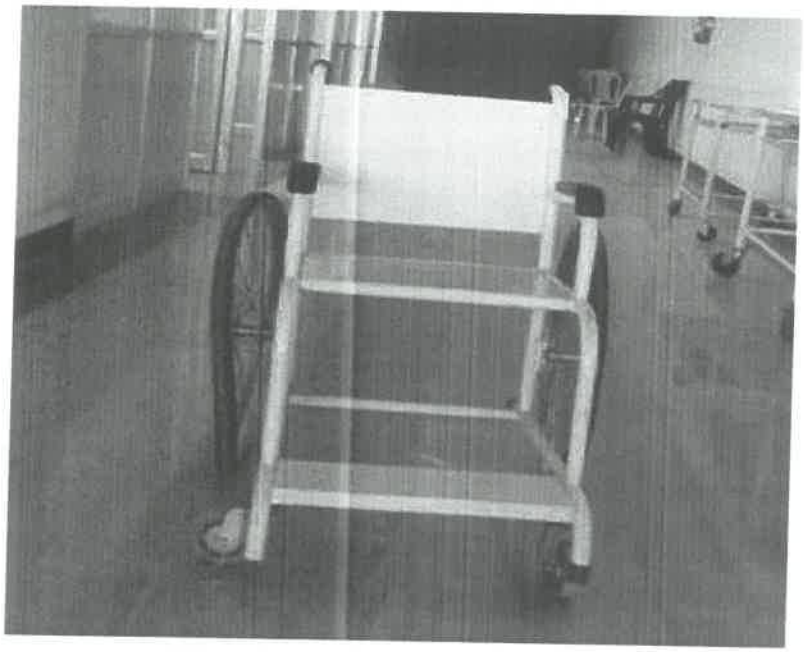
WHEEL CHAIR



AMBULANCE FACILITIES

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Indra Ganesan College of Engineering
Main Road

FIRE EXTIGUISHERS AND FIRE BUCKETS FIRE EXTIGUISHER
(Main Building - Ground Floor)

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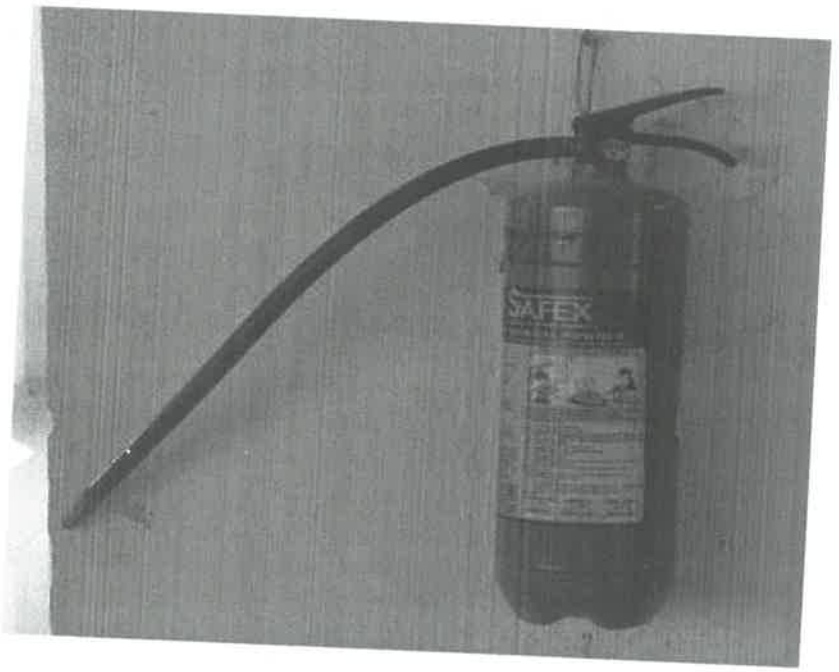
FIRE EXTINGUISHERS - Main Building - First Floor

FIRE EXTINGUISHERS - Engineering Building - First Floor



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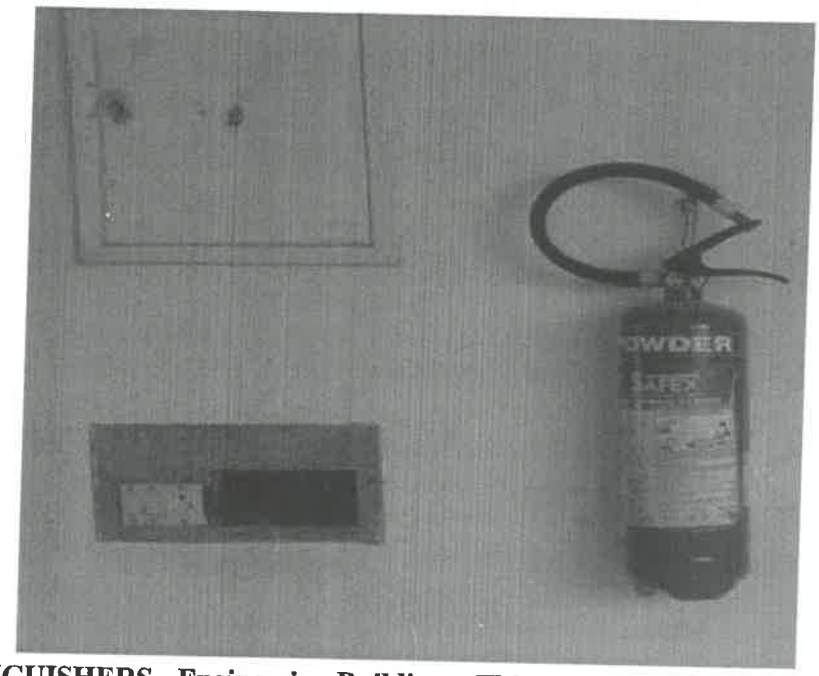
Indra Ganesan College of Engineering

FIRE EXTINGUISHERS - Engineering Building – Second Floor



FIRE EXTINGUISHERS - Engineering Building – Third Floor

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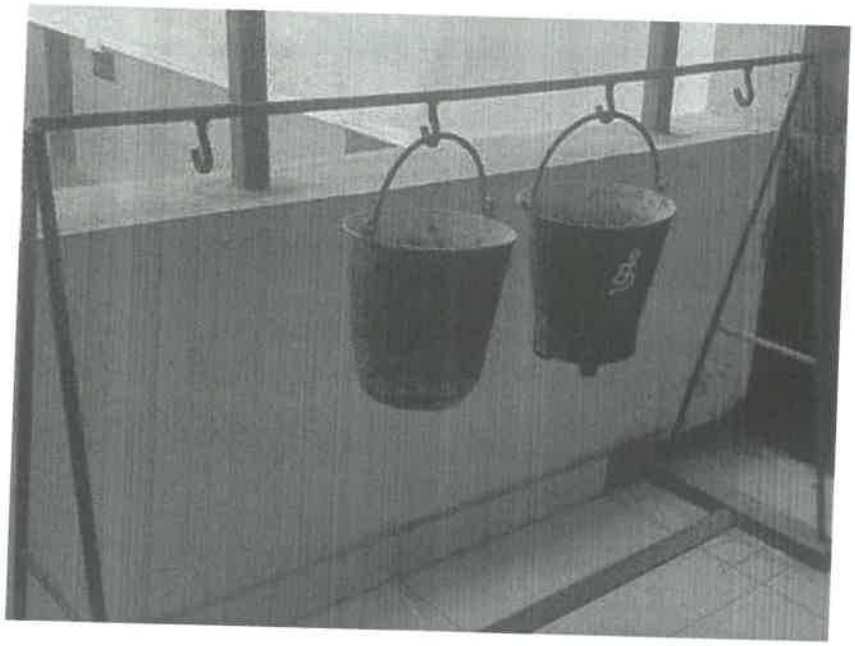
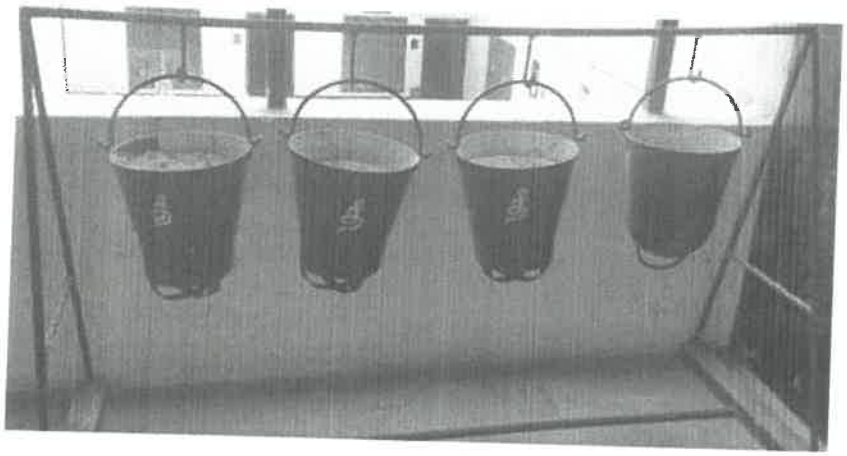
FIRE BUCKETS - MAIN BUILDING 1 (First Floor)



FIRE BUCKETS - MAIN BUILDING 1 (Second Floor)



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DISABLED FRIENDLY WASHROOM (Gens)

DISABLED FRIENDLY WASHROOM (Ladies)

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Principal
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[illegible]-620 012.