



# BHARAT INSTITUTE OF TECHNOLOGY

Mangalpally, Ibrahimpatnam, R.R. District, PIN-501510

(Affiliated to JNTUH, Approved by AICTE and PCI, New Delhi. Accredited by NAAC)

## Green Audit Details

### Campus details:

**Total campus area:** 120 Acres

**Buildup area:** 10 Acres

**Total Car parking area:** 1 Acre

### List of flora and Fauna

Flora (Plant species)	Fauna (Mammals, Birds and insects)
<i>Azadirachta indica</i> (Neem )	<i>Calotes versicolor</i> (garden Lizard)
<i>Mangifera Indica</i> (Mango)	<i>Pavo Cristatus</i> (peacock)
<i>Carica Papaya</i>	<i>Naja Naja</i> (Indian Cobra)
<i>Coco nucifera</i> (Coconut)	<i>Pyrrhocoris apterus</i> (fire bug)
<i>Musa paradisiaca</i> (Banana)	<i>Funambulus palmarum</i> (Squirrel)
<i>Citrus sinensis</i>	<i>Omocestus viridulus</i> (grass hopper)
<i>Psidium Guajava</i>	<i>Lasius niger</i> (black ant)
<i>Prunica grantum</i>	<i>Craspidocephalus gramineus</i> (Indian Green snake)
<i>Hibiscus Rosa sinensis</i>	<i>Corvus</i> (Crow)
<i>Sygium cumini</i>	<i>Columba Livia</i> (pigeon)
<i>Bougainvillea glabra</i>	<i>Psittacula krameri</i> (parrot)
<i>Bougainvillea Spectabilis</i>	<i>Petronia Petronia</i> (rock sparrow)
<i>Tamarindus Indica</i>	<i>Passer domesticus</i> (house sparrow)
<i>Bambusa</i>	<i>Rattus rattus</i> (rat)
<i>Plumera Alba</i>	<i>Xylocopa</i> (carpenter bee)
<i>Ficus religiosa</i>	<i>Felias Catus</i> (cat)
<i>Annona squamosa</i>	<i>Hemidactylus Frenatus</i> (lizard)
<i>Butea Monosperma</i>	<i>Blatella Germanica</i> (cockroach)
<i>Terminalia Catappa</i>	<i>Cryptomphalus Aspersus</i> (snail) in rainy season
<i>Lawsonia Inermis</i>	<i>Polypedatus Maculatus</i> (frog)
<i>Ziziphus Mauritiana</i>	<i>Coptotermes formosanus</i> (termite)
<i>Embllica officinalis</i> (Amla)	<i>Chameleonidaea</i> (chameleon)
<i>Aloe Barbadensis</i> Miller	<i>Troides minos</i> (butterfly)
<i>Ocimum Sanctum</i>	<i>Lumbricus Terrestris</i> (earthworm)
<i>Eucalyptus globules</i>	<i>Apis mellifera</i> (honey bee)
<i>Saraca Asoca</i>	<i>Harpaphe Hydeniana</i> (millipede)
<i>Terminalia Chebulia</i>	<i>Herpestes javanicus</i> (mangoose)
<i>Withania Somniferum</i>	<i>Oryctolagus cuniculus</i> (rabbit)



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<i>Piper longum</i>	<i>Xylocopa latipes</i> (black bee)
<i>Circuma longa</i>	<i>Sphaerotheca breviceps</i> (frog)
<i>Citrus Limonii</i> (lemon)	<i>Fowlea Piscator</i> (water snake)
<i>Plumeria Alba</i>	<i>Macaca Mulatta</i> (monkey)



## Details of documents records and Photos

### Disability facilities



Wheel Chair facility in the campus



Ramp facility within the camps

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Mangalpally (V), Ibrahimpatnam (M),  
R.R. Dist - 501 510, Telangana.





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## Vegetation to maintain the indoor climate



Plants and Herbs, Garden near to the labs and class rooms to maintain indoor climate

  
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## MEDICINAL GARDEN

The well established medicinal plant garden is available in the area of about 200 sqmts. The objective of establishing this garden is to maintain conservatory of the most common and important species of medicinal plants which are being used in day-to-day primary health care

- ✓ Medicinal garden is maintained by department of Pharmacognosy
- ✓ The total area of the garden is 200 square meters.
- ✓ The boundary of the garden is well demarcated.
- ✓ The overlook of the garden gives an impression of a permanent arrangement.
- ✓ Various types of herbs, shrubs, trees, plants growing under shade have been planted in demarcated area
- ✓ Proper water supply, sufficient sunlight are maintained with sufficient shade.
- ✓ All the plants present in the medicinal garden are protected from weeds.
- ✓ Name boards are fixed by detailing the name of the plants.

## List of Medicinal plants planted in the garden

Common name	Botanical name	Famiy	Composition /Parts useful	Medicinal Uses
ORCHID TREE	<i>BauheniaVariegata</i>	Fabaceae	Triterpenoids (Whole plant)	Anti-helmenthic
VAILI (Chaste tree)	<i>Vitex Negundo</i>	Lamiaceae	Isoquercetin (whole plant)	Antiinflammatory
YELLOW BELLS	<i>Tecoma Stans</i>	Bjgonaceae	Phytosterol alkaloids (Leaves)	Diuretic
KUKKA VELAGA	<i>Naringi Crenulata</i>	Rutaceae	Phenols (leaves)	Dysentry and Epilepsy
SEEMA BURUGA	<i>Jatropha Glandulifera</i>	Euphorbiaceae	Jatrophine (Seeds, leaves, roots & Latex)	Skin disorders and snake bites
FIG	<i>Ficus Carica</i>	Moraceae	Polyphenols (fruit)	Laxative
BAEL	<i>Crateva Marmelos</i>	Rutaceae	Alkaloids (Fruit, leaves)	Antidysentry
TULSI	<i>Ocimum sanctum</i>	Lamiaceae	Leaves/Seed	Cough, Cold, bronchitis, expectorant
POMEGRANATE	<i>Punica granatum</i>	Punicaceae	Anthocyanins (fruit)	Antioxidant
HIBISCUS	<i>Hibiscus Rosa Sinensis</i>	Malvaceae	Flavonoids, Biotin (Leaves and flowers)	Antimicrobial
GUAVA	<i>Psidium Guava</i>	Myrtaceae	Vit-C, Folic acid (fruit and Leaves)	Antidiabetic, Anticholesterol
NEEM	<i>Azadirachta indica</i>	Meliaceae	Nimbin (leaves and fruits)	Antiseptic, Antidiabetic
MANGO	<i>Mangifera Indica</i>	Anacardiaceae	IsoMangiferin, Tannins (fruit and leaves)	Analgesic, epilepsy, hypertensive and Antiviral
AMLA	<i>Phyllanthus Emblica</i>	Phyllanthaceae	Fruit	Vitamin — C, cough, diabetes, cold, laxativ, hyper acidity.
GANNERU	<i>Apocyanaceae</i>	Apocyanaceae	Nereoderin (Root Bark)	Diuretic, emetic
SAPTAPARNI	<i>Alstonia Scholaris</i>	Apocyanaceae	Triterpenoids	Antipyretic
ASHOKA	<i>Saraca asoca</i>	Caesalpinaceae	Bark, Flower	Menstrual Pain, uterine, disorder, Diabetes
ASHWAGANDHA	<i>Withania somnifera</i>	Solanaceae	Root, Leafs	Restorative Tonic, stress, nerves disorder, aphrodisiac
BRAHMI	<i>Bacopa monnieri</i>	Scrophulariaceae	Whole plant	Nervous, Memory enhancer, mental disorder
CHIRATA	<i>Swertia chiraita</i>	Gentianaceae	Whole Rant	Skin Desease, Burning, censation, fever
GUDMAR	<i>Gymnema sylvestre</i>	Asclepiadaceae	Leaves	Diabetes, hydrocil, Asthama.
GUGGUL	<i>Commiphora wightii</i>	Burwaccac	Gum rasine	Rheumatid arthritis, paralysis, laxative
KALMEGH	<i>Andrographis paniculata</i>	Scanthaceae	Whole Rant	Fever, weakness, release of gas.
MAKOI	<i>Solanum nigrum</i>	Solanaceae	Fruit	Dropsy, General debility, Diuretic, anti dysenteric
PASHAN BHEDA	<i>Coleus barbatus</i>	Lamiaceae	Root	Kidney stone
SARPAGANDHA	<i>Ranwolfia serpentine</i>	Apocynaceae	Root	Hyper tendon, insomnia
SHATAVARI	<i>Asparagus acemosus</i>	Liliaceae	Tuber, root	Enhance lactation, general weakness, fatigue, cough
SENNA	<i>Cassia augustifolia</i>	Liliaceae	Dry Tubers	Rheumatism, general debility tonic, aphrodisiac
VAI VIDANGA	<i>Embelia Ribes</i>	Myrsinaceae	Root, Fruit	Skin disease, Snake Bite, Helminthiasi
PEPPERMINT	<i>Mentha pipertia</i>	Lamiaceae	whole plant	Digestive, Pain killer
HENNA/MEHDI	<i>Lawsennia iermis</i>	Lytharaceae	whole plant	Burning, Steam, Anti Imflammatory
PALASH	<i>Butea Monosperma</i>	Fabaceae	Glucosides (Flowers)	Immunity and energy beverages
GRITKUMARI	<i>Aloe Verra</i>	Liliaceae	Fresh leaves	Laxative, wound healing, skin burns, ulcer, Antidiabetic
SADABAHAR	<i>Vincea rosea</i>	Apocyanaceae	Whole Rant	Leaukamia, hypotensiv, antispasmodic, antidote
BRINGHRAJ	<i>Eclipta alba</i>	ASTERACEAE	Seed	Anti-inflammatory, Digestive, hairtonic.
KUCHLA	<i>Strychnus nuxvomica</i>	Loganiaceae	Seed	Nervous, Paralysis, healing wound
HARIDA	<i>Terminalia chebula</i>	Combretaceae	Seed	Wound ulcer, leprosy, inflammation, cough
BAHERA	<i>Terminalia bellerica</i>	Comretaceae	whole paint	Cough, insomnia, dropsy, vomiting
GOKHRU	<i>Tribulus terrestris</i>	Lygophyl laceae	Whole Rant	Sweet cooling, Aphrodisiac, appetizer, digestive, urinary





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ANANTMOOL	<i>Hemidesmus indicus</i>	Asclepiadaceae	Root, leaf	Appetiser, Carminative, aphrodisiac, astringent
MANDUKAPARNI	<i>Centella asiatica</i>	Umbelliferae	Whole plant	Antiinflammatory, Jundice, Diuretic, Diarrhoea
DULAGONDI	<i>Mucuna Pruriens</i>	Fabaceae	Whole plant	Nervous, Disorder, Constipation, Nephromy, Strangury, Dropsy
DALCHINI	<i>Cinnamomum</i>	Lauraceae	Bark, Oil	Bronchitis, Asthma, Cardiac, Disorder, Fever
KUTAJA	<i>Holarhenna</i>	Apocynaceae	Bark, Seed	Scabies, Antipyretic, Amoibic dysentery
ATIS	<i>Aconitum heterophyllum</i>	Ranunculaceae	Root	Astringent, tonic, diarrhea, dyspepsia, cough
NARANJI VAMU	<i>Apium graveolens</i>	Umbelliferae	Root	Dropsy, laxative, appetizer anthelmintic antispasmodic
INDRAYAN/VERRI	<i>Citrullus colocynthis</i>	Curcubitaceae	Root	Atipyretic, bronchitis, asthma jaundice anemia, elephantiasis

Geo pics of some important flora available in the campus



*Phyllanthus emblica*



*Catharanthus roseus*



*Ocimum sanctum*



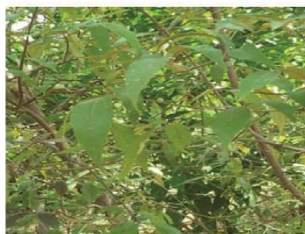
*Nyctanthes arbor-tristis*



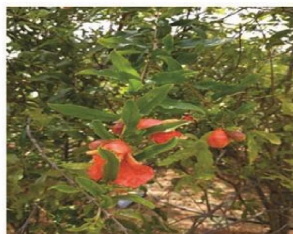
*Clitoria ternatea*



*Psidium guajava*



*Vitex negundo*



*Punica granatum*



*Hibiscus rosa-sinensis*



*Adhatoda vasica*



*Cocos nucifera*



*Nerium indicum*

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*Sterculia foetida*



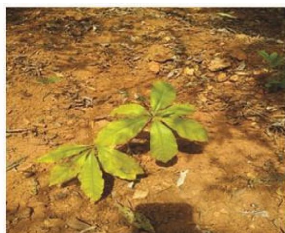
*Euphorbia milli*



*Alstonia Scholaris*



*Blyphyllant*

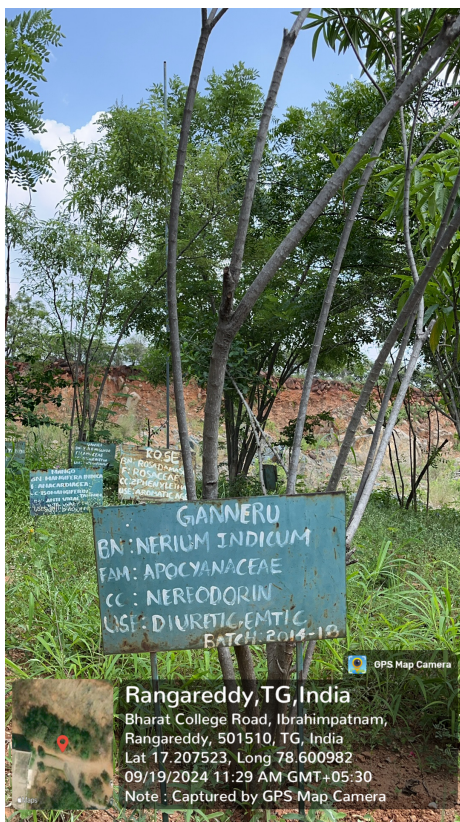


*Coroupita Gulaneis*



*Bauhinia variegata*

Geotagged pics of the Important Medicinal plants available in the Medicinal garden



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**Sign Boards of Green Campus, Go Green, Eco friendly Campus, etc., to create awareness among the stakeholders.**



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**Building plan and design document to verify whether the building is constructed without disturbing the endangered species, HVAC system, etc.,**



The buildings were constructed without disturbing the natural rocks.

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Training, outreach and Awareness programmes conducted for Green initiatives and sustainable development.

<p>Program</p> <h2>World Environment Day</h2>  <p>Theme: "Only One Earth"</p> <p>DATE: 05/06/2022 TIME : 10.30 AM-1:30 PM</p>	<p><b>Bharat Institute of Technology (BIT) Pharmacy</b> Approved by AICTE &amp; PCI, Affiliated to JNTUH, NAAC Accredited, Recognized (2f) UGC. Mangalpally (v), Ibrahimpatnam (m), Rangareddy (dist.), Telangana.</p>  <p><b>ABOUT OUR MISSION AND VISION</b> To build nation's one among the best centers of excellence engaged in providing overall pharmaceutical Education including training and research. Bharat Institute of technology (Pharmacy) firmly believes that right knowledge and ethical responsibility drives individual commitment for the service of mankind.</p>	 <p>We want to have a positive impact on the planet</p>
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Bharat NSS Volunteers given their immense service in the flood affected area



**NATIONAL  
SERVICE SCHEME**

**CLEAN INDIA CAMPAIGN**

cleanliness drive on  
**19th October 2022**



**BHARAT INSTITUTE OF TECHNOLOGY (BIT)**  
Approved by AICTE, Pharmacy Council of India and Affiliated to JNTUH  
Sponsored by: CHINTA REDDY MADHUSUDHAN REDDY EDUCATIONAL SOCIETY  
Mangalpally (Village), Ibrahimpatnam (Mandal), Ranga Reddy District - 501510  
Accredited by NAAC




## NSS Volunteers @Flood Affected Region



**అంత్యక్షణ**  
**నిత్యసేవ సేవకుల పంపిణీ**

● నిత్యసేవ సేవకుల పంపిణీ: నిత్యసేవ సేవకులు నిత్యసేవ సేవకుల పంపిణీ చేస్తున్నారు. నిత్యసేవ సేవకులు నిత్యసేవ సేవకుల పంపిణీ చేస్తున్నారు. నిత్యసేవ సేవకులు నిత్యసేవ సేవకుల పంపిణీ చేస్తున్నారు.




**IMMENSE SERVICE IN THE MULUGU FLOOD AFFECTED REGION IN WARANGAL BY NSS OF BHARAT TEAM**

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Date: 10.03.2022

## ENERGY AUDIT

The following members were deputed by the head of the institute for the committee of energy audit. This committee implements the energy conservation measures in the institute.

Committee members

Sl No	Position	Name of the staff
1.	Coordinator	Dr. Shibnath
2.	Co-coordinator	Dr. Srikanth
3.	Member	Ms. Twila
4.	Member	Mrs. P. Haritha
5.	Member	Ms. Rachel

The deputed committee members are responsible for strict implementation and monitoring the energy conservation within the campus

### **Objective**

To monitor the energy consumption pattern of the college and take necessary steps to minimize power wastage

Energy management is an important element of sustainable development of the campus and is also related to campus carbon foot print. Energy auditing is related to recycling and necessary steps taken to minimize demand that is connected to environmental deterioration

### **Energy Audit report**

Electrical appliances/Instruments (Regular use)	Number	Power (W/Units)	Total power (Watts)	KW	Operation /day	KW/hr	No of days in months	Total consumption/Month
LED Tube lights	92	18	1656	1.656	4	6.624	25	165.6
Projector	4	280	1120	1.120	1	1.120	20	22.4
Fan	87	60	5220	5.220	4	20.88	20	417.6



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Computers	47	250	11750	11.750	2	23.5	20	470
Printers	7	50	350	0.350	1	0.350	25	8.75
AC	3	3500	10500	10.500	1	10.500	20	210
Refrigerator	4	150	600	0.6	24	14.4	30	432
Oven	4	1500	6000	6.0	2	12	10	120
Exhaust fan	9	32	288	0.288	4	1.152	25	28.8
HPLC	1	260	260	0.260	1	0.260	10	2.6
UV	1	220	220	0.220	1	0.220	10	2.2
Dissolution apparatus	1	220	220	0.220	1	0.220	10	2.2
Autoclave	1	1700	1700	1.700	1	1.700	10	17
Magnetic stirrers	23	60	1380	1.380	2	2.76	20	55.2
Hot plate stirrers	3	500	1500	1.500	1	1.500	20	30

  
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## Fuel Consumption

BHARAT INSTITUTE OF TECHNOLOGY Mangalpally(V), Ibrahimpatnam, R.R. Dist. Ph:08414-252265,252645					
FUEL CONSUMPTION- GENERATOR Ledger Account					
1-Apr-23 to 6-May-24					
Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
8-May-23	To COLLEGE CASH Being cash paid towards the purchase of Diesel for Generator for office use as per bill of Indian Oil dated 05-05-2023, MIGP no. 245, 25-4-2023, S/MRC no. 19038, 05-05-2023.	GENERAL CASH PAYMENT	GP-57	1,500.00	
16-Jun-23	To COLLEGE CASH Being cash paid towards the purchase of diesel for generator as per bill dated 13-6-2023 of Indian Oil, MIGP no. 273, 13-6-2023, S/MRC no. 19034, 13-6-2023.	GENERAL CASH PAYMENT	GP-84	2,000.00	
10-Jul-23	To COLLEGE CASH Being cash paid towards the purchase of Diesel for office generator as per bill of Indian Oil dated 07-07-2023, MIGP no. 418, 07-07-2023, S/MRC no.19043, 08-07-2023. Diesel purchased for Rs.3000/- , Qty. 20.44 litres @ Rs.97.82/-.	GENERAL CASH PAYMENT	GP-107	3,000.00	
6-Sep-23	To COLLEGE CASH Being cash paid towards the Diesel purchased for office generator as per bill dated 05-09-2023, MIGP no. 487, 5-9-2023, S/MRC no. 21006, 06-09-2023.	GENERAL CASH PAYMENT	GP-186	3,000.00	
8-Nov-23	To COLLEGE CASH Being cash paid towards the purchase of Diesel for Office Generator at BIT on 08-11-2023 as per bill of G Muthyam Reddy filling station, Sheriguda, diesel purchased 15.33 liters @ Rs.97.82/- per liter, MIGP no. 352, 08-11-2023.	GENERAL CASH PAYMENT	GP-280	1,500.00	
2-Feb-24	To COLLEGE CASH Being cash paid towards the purchase of diesel for generator for office as per bill dated 18-11-2023 of Indian Oil G.Muthyam reddy filling station, Sheriguda, MIGP no. 357, 18-11-2023.	GENERAL CASH PAYMENT	GP-354	1,500.00	
3-Feb-24	To COLLEGE CASH Being cash paid towards the purchase of Diesel for Generator as per bill of Indian Oil dated 17-1-2024 MIGP no. 529, 17-1-2024, Quantity 20.44 Litres.	GENERAL CASH PAYMENT	GP-363	2,000.00	
				14,500.00	
By	Closing Balance				14,500.00
				14,500.00	14,500.00





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## Power Consumption

4/20/24, 9:39 PM HT Billing System

**SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED**

H.T.C.C. Bill for the Month of March 2024, Date: 01-Apr-24

PAYABLE ON OR BEFORE Dated : 15-Apr-24 DISCONNECTION DATE: 30-Apr-24

Contracted MD (KVA/HP)	200	Consumer Number	SRN1243
Specified Voltage(KV)	11	Name	M/S. CHINTHA REDDY MADHUSUDHAN
Actual Voltage(KV)	11	Address1	EDUCATIONAL SOCIETY
Feeder	180211440301 (CF)	Address2	MANGALPALLY(V),
Category	2A	Address3	IBRAHIMPATNAM,R.R.DIST

DESCRIPTIONS	KWH	KVAH	KVA	TOD1	TOD2
Reading On 31-MAR-24	2003493.00	2180915.00	101.38	336673.00	230494.00
Reading On 01-MAR-24	1982893.00	2160048.00		333370.00	228706.00
Difference ST-01	20600	20867		3303	1788
Multiplying Factor	1	1	1	1	1
Total Consumption	20600	20867	101.384	3303	1788
Monthly Minimum Units	4000		160		
Main Consumption	20867		0	L&F	0

DESCRIPTIONS	RATE	KVA/UNITS	AMOUNT Rs.
Demand Charges Normal	Rs. 475	160	76000.00
Demand Charges Penal	Rs. 950	0	0.00
Energy Charges	Ps. 880	20867	183629.60
Incentive TOD1 (FR: 311924 IR: 309527)			-2397.00
Incentive TOD2 (FR: 105037 IR: 104231)			-806.00
TOD Charges	Ps. 100	5091	5091.00
Electricity Duty	Ps. 6	20867	1252.02
Colony Charges	Ps. 730	0	0.00
L&F Charges	Ps. 880	0	0.00
Green Energy Charges	Ps. 0	0	0.00
FSA Charges	Ps.		

Supplier Name	Net KWH	KVA	TOD
Arrears as on 31/03/24			

Sub Total 262769.62

Customer Charges 2000.00

ACD Surcharge 0.00

UI Charges 0.00

Gross Subsidy Surcharge 0.00

1/2

4/20/24, 9:39 PM HT Billing System

C.C.Charge	TCS on Arrears
Court Case Rs.	0
Others Rs.	0 0.00
Total Rs.	0

Additional Surcharge on OA	0.00
RKVAH surcharge HYDEL	
RKVAH surcharge WIND	
Late Payment Charges	0.00
Interest on ED	0.00
Penal Interest	
Difference Voltage Surcharge	0.00
Wheeling Charges	0.00
Transmission Charges	0.00
Other Charges-I	0.00
Other Charges-II	0.00
Gross Total	264770.00
Inc. Rec. from Govt.	0.00
IT TCS U/s 206C(1H)	0.00
Net Bill Amount	264770.00
Total Arrears	0.00
Total Amount Payable	264770.00

Amount in Words: Two Lakh Sixty Four Thousand Seven Hundred and Seventy Rupees Only.

Note: ACD Due for 2023-24 Rs. 0

Note: PAY YOUR BILL THROUGH THE SBI A/C NO. SPDCLPSRN1243

IFSC CODE: SBIN004266

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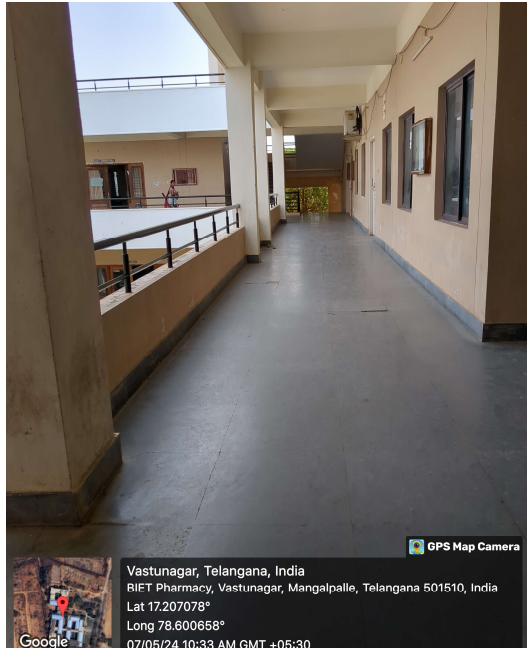
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## Details of Documents Records and photos

Corridor area for effective lighting and air circulation to the stakeholders.



Generators, Transformers, UPS, Inverters, Converters, Compressor and Stabilizer for power back-up to alternative current supply facility in each building



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Solar panel, Solar street lights and Solar water heater installed towards renewable energy utilization.





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AC, Air Cooler, Refrigerator, Invertor, Converter, Generator & Stabilizer (Star rating sticker may be focused) for energy consumption



Vastunagar, Telangana, India  
BIET Pharmacy, Vastunagar, Mangalpalle, Telangana  
Lat 17.207336°  
Long 78.600594°  
07/05/24 11:00 AM GMT +05:30



Vastunagar Telangana India

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**Standard Operating Procedure for the available Instruments (Lift, AC, Air Cooler, Refrigerator, Invertor, Transformer, Convertor, Generator, Stabilizer, etc.,)**



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<b>TITLE:</b>	Refrigerator and Freezer Unit Use and Monitoring
<b>SCOPE:</b>	Research and Animal Program Personnel
<b>RESPONSIBILITY:</b>	Lab Incharges, All Animal Program Personnel, Biotechnology
<b>PURPOSE:</b>	To Outline the Proper Procedures for Use and Maintenance of Refrigerator/Freezer Units.

### I. PURPOSE

1. This procedure outlines the use and maintenance/monitoring of refrigerator units located within the Labs and animal facilities.

### II. RESPONSIBILITY

1. It is the responsibility of the Lab incharge in conjunction with the department to ensure that equipment is appropriately cleaned, maintained in good working condition and available to research personnel as requested.

### III. EQUIPMENT USE

1. All refrigeration/freezer units should be regularly inspected and kept clean.
2. Food and beverages for human consumption will only be stored in refrigerator/freezers located in designated break rooms and canteen.
3. All reagents, chemicals, biological samples, animal diets, carcasses, and other substances requiring refrigeration will be placed in an appropriate container to prevent the possibility of spills, leakage, odors, or spoilage prior to storage in refrigerator/freezer unit.
4. Bottles, tubes, and containers with a cap or top must be stored in an upright position in such a way to insure their stability.
5. All reagents, biological samples, animal diets, carcasses, or any substance stored in refrigerator will be appropriately labeled with the exception of

  
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considered the property of Comparative Medicine and may be utilized at the discretion of the Facility Manager.

8. Explosive, flammable, or corrosive substances are not to be stored in general refrigerator units and should be stored in laboratory refrigerators specifically for that purpose.

#### IV. EQUIPMENT MONITORING

1. The Lab incharge and the Department head are responsible for the refrigerators and freezers located within animal facilities and used for storing reagents, pharmaceuticals, biological samples, animal diets, or other substances that require specific environmental temperature control and could affect the measurement, or assessment of research data.
2. High and low temperature range will be recorded at least weekly on the **Monitoring Log** located on the unit being monitored. This log should contain the unit or ID number, the facility, and location of the unit, the highest and lowest recorded, date, and initial of person doing the monitoring.
3. At least monthly the Head of the department or Lab incharge shall inspect and initial the log to insure the unit and its contents are being properly monitored. Monthly, these logs will be submitted to the Laboratory head for accordance with **SOP regulations**.

#### IV. MAINTENANCE

1. Inspect condition of unit and electrical cord/plug to ensure safe operation. Equipment determined to be unsafe will be removed from service immediately.
2. Clean unit periodically by wiping down with a mild disinfectant/soap solution.
3. Any additional maintenance/service should be performed by authorized personnel.

#### V. REFERENCES





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Natural Ventilation like open windows, ridge roof, etc., and Mechanical Ventilators such as Exhaust fans, box vent, solar powered, roof turbines, electric vents, etc., for effective day lighting, air circulation and heat emission.



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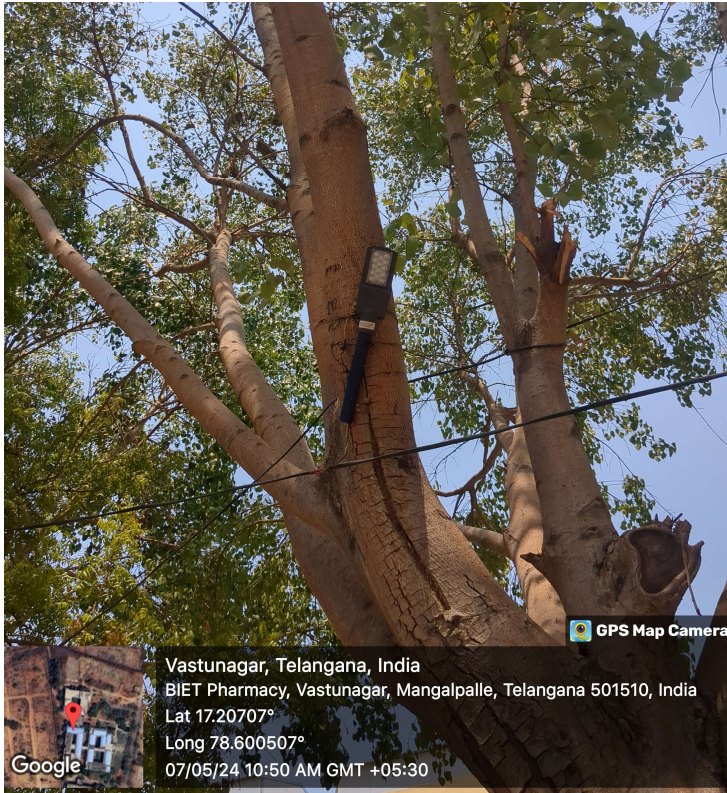
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## Sensors (Lights, Doors and Taps) for energy conservation and saving opportunities

Sensor based lights (For energy conservation)



## Power room facilities for safety measures dedicated to electrical equipment and power distribution



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**Parking area (Buses, Cars, Motor cycles etc.,) for safety and effective maintenance.**



Vastunagar, Telangana, India

College Buses are parked in the open space located distant from Building premises to ensure Safety







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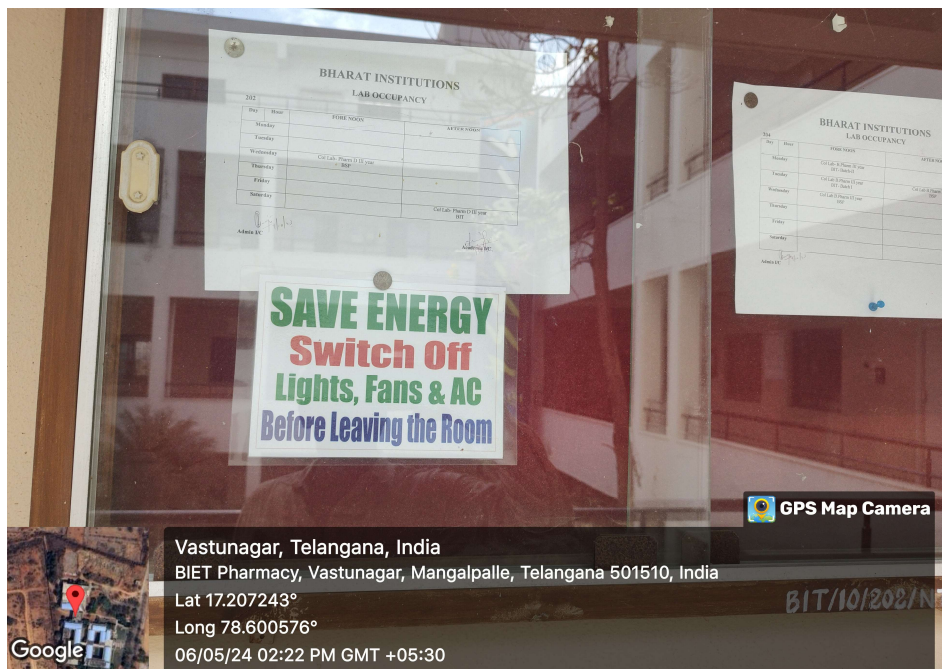
## E - Vehicles to control air pollution and carbon emission

Students and staff are motivated to use eco friendly electric vehicles to reduce the air and noise pollution



## Sign boards for energy conservation and saving opportunities (Switch off Light / Fans when not required, Save energy, Energy conservation, etc.)

Save energy boards displayed on Notice boards







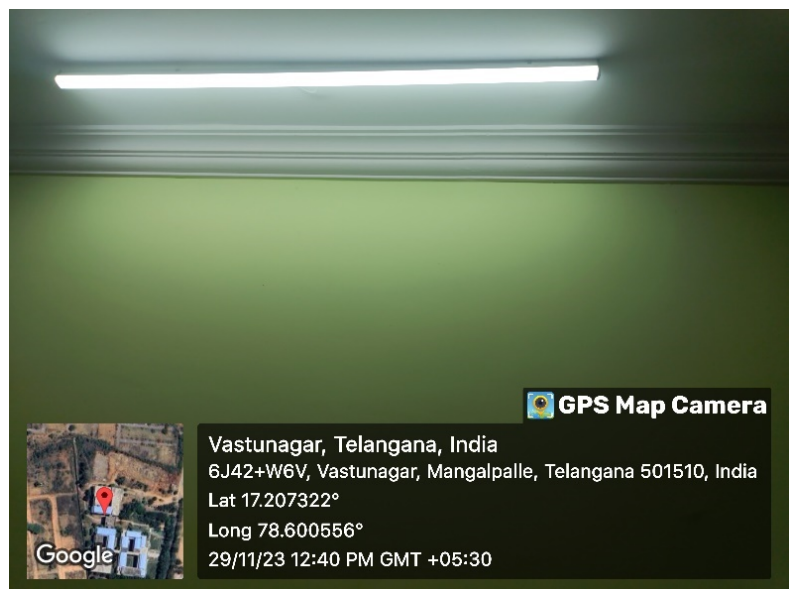
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Replacement of fluorescent (tube) lights, incandescent lamp, insect traps and sodium vapour lights with CFL / LED lamps towards energy saving opportunities.



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