

Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512 (Approved by A.I.C.T.E, Recognized by the Govt. of T.S., Permanent Affiliation from JNTUH, Hyderabad) Accredited by "NAAC with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B). Website: www. https://aits-hyd.org/, E-mail: principalaith@gmail.com, Contact No: 9848924705

## 7.1.2.

# 1: The Institution has facilities and initiatives for Alternate sources of energy and energy conservation measures.

GEO-TAGGING Photographs of the Facilities and initiatives for Alternate sources of energy and energy conservation measures:

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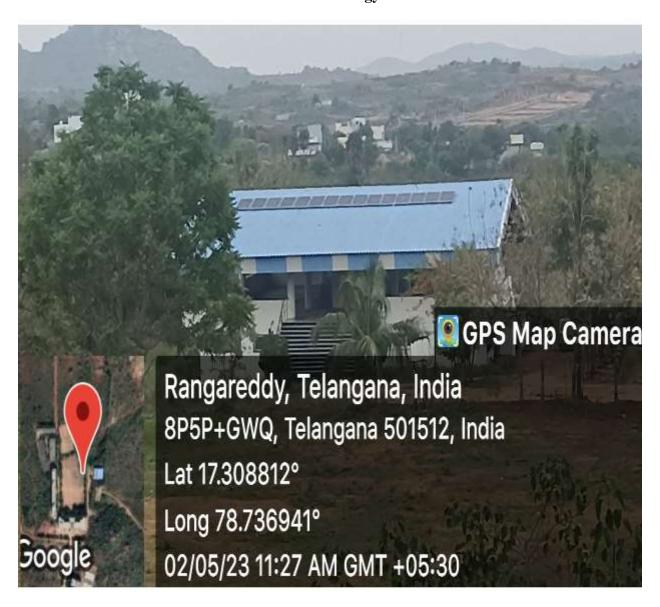
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# 7.1.2.1: The Institution has facilities and initiatives for Alternate sources of energy and energy conservation measures.

# 1. Solar Energy:



Front view of Solar Power plant with 5 KWp.

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## 2. Biogas Plant:

AITH practices in the collection of solid waste in the campus by placing dust bins at every corner of the corridor, class rooms, canteen, ground etc. Separate bins are used for dry and wet waste. The collected waste is dumped in the biogas plant of AITH to convert waste to energy.





Bio Gas plant at college

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# 3. Wheeling to the GRID:



Wheeling to GRID connection.



Wheeling to GRID arrangement with display of Metering.

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# 4. Sensor-Based energy conservation:



Sensor-Based street lights in Campus.

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5. Use of LED bulbs or power efficient equipment.



Usage of LED bulbs in LAB



Usage of LED bulbs

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# 7.1.2.1: The Institution has facilities and initiatives for Alternate sources of energy and energy conservation measures.

# **Additional and Other relevant Information:**

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College Code: T8 ESTD: 2005

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur (V&P), Batasingaram (Post), Abdullapurmet (M), R.R.Dist., Hyderabad - 501 5 12. (Approved by AICTE, Recognized by the GOVT. of T.S., Permanent Affiliation from JNTUH, Hyderabad.) Accredited by "NAAC" with "A" Grade, Recognized by UGC Under Section 2(f) and 12(B).

Website: aits-hyd.org

Phone: 08415-201689 (O)

Mobile: 9848924705

Purchase Order

E-mail : principalaith@gmail.com Fax

: 08415-201688

Date: 01.04,2021

M/s Cirnos Solar

#42-738, S.P. Nagar, Moula Ali HYDERABAD - 500 040

Sub : Solar Power - Reg.

Ref: Your Quotation No.333 dt. 30.03.2021

S.No	Description o	Unit Price	Qty	Total in Rs.
01	SKWp Roof Mount Grid-Tie PV System Components of this system includes:	2,55,000.00	, 1	2,55,000.00
02	Solar Panel of 390 Wp/Cells	250	14	
03	Fronius Symo 5.0-3-5 Inverter with WLAN/LAN		01	
04	HBL T GEL VRLA Battery: 2V Series, Cap: 48V 120 Ah		NA	
05	Fronius Smart Meter 57KA		01	22,000.00
06	AC/DC Safety Disconnects		01	The state of the s
07	Electrical Distribution Equipment		01	766
08	Electrical Material and Internal Wiring		01	
09	Fixed Angle Roof Mounting Galvanised structures	-	01	-
10	Engineering Design			-
11	Module Cleaning System		18	-
12.	Boom Lift charges			
13	AMC for 5 years as per MNRE specifications			
14	Freight			
		Installatio	n charges	5,000.00
			Sub Total	2,77,000.00
			GST @ 5%	9,695.00
	(6)		GST @ 18%	
		C	ost of Project	3,06,653.00
		Pscount @ 5%		
		Net C	ost of Project	
		TOTAL PROJECT COST ROUNDED		2,90,000.0

(Rupees Two Lakh Ninety Thousand only)

Terms & Conditions:

Payments

50% advance payment, 30% payment after delivery at the college

premises. 20% after installation and inspection.

Delivery Transportation

Warranty

Within One week College premisés at

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PRINCIPAL Annamectarya institute o Technology & Sciences Phylour (V), Balaningerian (Post)



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office com.

# **COMMERCIAL PROPOSAL**

# FOR

ENGINEERING, PROCUREMENT, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF

3KWp or 5KWp GRID TIE ROOF TOP SOLAR POWER GENERATING SYSTEM

# AT

Annamacharya Institute of Technology and Sciences; Hyderabad.

From Grace Solar, H.No. 42-738, S.P.Nagar, Moulaali, Hyderabad. 500040. TS. Websie: www.gracesolar.in Email: solarpeople@gmail.com

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Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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College Code : T8 ESTD: 2005

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur (V), Batasingaram (Post), Abdullapurmet (M), R.R.Dist., Hyderabad - 501 512.

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Accredited by "NAAC" with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B).

Mobile: 9848924705 9912344480

PURCHASE ORDER

Website : aits-hyd.org E-mail : principalaghy

principalagh@gmail.com

To The NextEra Energy Resources, #5.5-846/14, Jahangir ragar colony, Chinthalkunta, L. B. Nagar, Hyderabad 500070. E-mail!neeru@neeru.co

Dear Sir,

Sub: Biogas Plant for using cooking and Manure generation – Purchase Order- Reg Ref: Your Estimate No: 014/IBP-2/TS/21-22 Dated: 01.09.2021

With reference to your listimation vide Reficited, we are pleased to our purchase order.

S.No	Description	Quantity	Rate in INR	GST	Total our scope of work in INR
I	Biogas Palant				
	Gas Reactor: Supply of Reactor made with 2.5 mm thick (12 guige) MS sheet for the cover angle iron, flunge plates, painting etc., and installation testing commissioning and external surface of the done final coats with blue print. Supply, installation and commissioning of the plant including gas generation, supply, gas distribution system, supplying gas from plant site to end user points and total trial run.	01			40,000/~
1	Burner & Gas Pipeline				
	Supply Installation of canteen burners with suitable pipes, values and instrumentation etc., Laying of pipeline (up to 10 meters)	02	Ls.		20,000/-
1	Sub Total				60,000
	GST@5%		to come in	M	3000
	T	otal out scor	e of Work	In INR	63,000

(Sixty Three Thousand Only)

## Terms and Conditions:

- One Year service warranty apply.
- 2 50% Payment along with purchase order and 50% on successful commission of the project.

#### Bank Details:

Bank Name: AXIS BANK, BNREDDY NAGAR BRANCH, HYDERABAD Bank Account No: 917020067741338(Current A C)

Bank IFSC code: UTIB0003061

Account Holder's Name: NextEra Energy Resources

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Annamacharya Institute
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Purchase Order of Bio Gas Plant

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College Code: T8



# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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NextEra Energy Resources

Camp Office: C/o. Centre for Energy Technology, B/12, University College
of Engineering, Osmania University, Hyderabad-500 007

Read. Office: # 5-5-846/14, Jahangir Nagar Colony, Chinthalkunta,
L. B. Nagar, Hyderabad-500 070-Telangana
Tel: +91 94412 84442, +91 9493862240 E-mail: neeru@neeru.co, http://www.neeru.co

014/IBP-2/TS/21-22

September 1\*, 2021

To Annamacharya Institute of Technology Sciences Piglipur (Village), Batasingaram (Post), Abdullapurmet (Mandal), Ranga Reddy District, Hyderabad 501512, Telangana

> Submission of Cost Estimation for 2 M³/Day Sub:-'Food Waste Based Biogas Plant for

using cooking and Manure generation - Reg.

Ref: Our discussions held on 30-08-2021

Dear Sir,

With reference to the above subject cited, we are submitting the estimation for installation of '2 M³/Day Flouting Dome type biogas plant at your Institution to meet cooking applications and generating bio

Next Era Energy Resources ("NEERU") was registered with an aim to provide turnkey / EPC contract services, developing Biofuel, Biomass and biogas based renewable energy projects for electrical & thermal applications on decentralized basis with intellectual partnership of 'Centre for Energy Technology', Osmania University, Hyderabad http://www.neeru.co. We are pleased to submit our Techno-commercial offer cum proposal for setting up of a Biogas Plant detailed below:

SI. No.	Description	Quantity in Nos.	Rate in INR	Total our scope of work in INR
1	Biogas Plant			
	Gas Reactor: Supply of reactor made with 2.5mm thick (12 gauge) MS Sheet for the cover angle iron, flange plates, painting etc., and installation testing commissioning and external surface of the dome final coats with blue paint. Supply, installation & commissioning of the plant including gas generation system, gas distribution system, supplying gas from plant site to end user points and total trial run.	01		40,000/-
II	Burner & Gas Pipeline			
74	Supply installation of canteen burners with suitable pipes, valves, and instrumentation etc. Laying of pipeline [up to 10 Meters]	02	Ls.	20,000/-
	Sub Total			60,000/-
	GST @ 5%			3,000/-
	Total Our	Scope of W	ork in INF	63,000/-

Note: All civil works of above plant are not included in the above estimation.

For above execution of above works following are our terms:

- 1. Our GSTIN: 36AANFN8274C1ZZ Our PAN: AANFN8274C
- 2. The project implementation strategy adopted will be supply, installation & commissioning of the project including gas generation system, gas distribution system, supplying gas from plant site to end user points, electrical and thermal appliances.
- 3. Delivery/completion of work: The system will be refurbished, supplied, installed, and commissioned within 30 days from the date of receipt of advance amount along with the work order. The work will commence within 10 days from receipt of advance amount.

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- Payment: 50% advance along with the purchase order and 50% on successful commission of the project. The payment shall be in the favour of "NextEra Energy Resources" payable at Hyderabad. You may also be deposit / transfer to the Current Account No. 917020067741338 with IFS Code: UTIB0003061 at Axis Bank, B N Reddy Nagar Branch, Hyderabad
- Warranty: The biogas plant will be under warranty for a period of one year from the date of commissioning against all manufacturing defects. We will undertake site visits as & when required to ensure proper functioning of the plant during the warranty period.
- 6. Taxes: included and any variation in taxes at the time of delivery will be applicable to your account.
- 7. Validity: The offer shall be valid for 45 days from the date of submission of the offer.
- Suitable storage for materials, and simple accommodation and sanitation at site for technical staff & labour, during the project execution period.
- Continuous water and electricity supply during fabrication of the project to be provided by client at free of cost and arrange for erection of gas reactor during installation commissioning processes.

We eagerly await your approval & work order in the name of 'NextEra Energy Resources' to execute the above job.

Thanking you,

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MVN REDDY] ounder-6: CEO el: 9441284442

Encl: Description and technical specifications of the plant

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#### INTRODUCTION

Institutions messes operate daily and provide meals and snacks to all the students and staff. The messes in the Institute's campus generate good amount of kitchen waste (uncooked) and food waste. Besides, there is wet organic waste generated from the staff/ faculty quarters/ residence.

The waste generated from these facilities is eminently suited for biogas and bio-manure production. Presently, LPG is used as fuel for cooking food in these canteen.

A clean energy project is proposed to treat this solid organic waste generated from different sources within the campus premises in Bio-digester using bio-methanation technology to produce biogas and bio-manure.

Biomethanation is an attractive technology among the biological methods since it generates biogas comprising mainly methane and carbon dioxide. Methane in biogas can be used as fuel for thermal applications or it can be converted into electricity. The digestate/slurry from biomethanation plant has high nutritive value and it can be used as manure.



The kitchen/ food waste has high carbohydrate and high moisture content and thus is a good substrate for the production of biogas through biomethanation process. Biomethanation process also reduces the load of organic pollutants in terms of reduction of TS, VS, BOD and COD. Thus, biomethanation is an eco-friendly technology for the treatment of solid waste organic waste.

### Brief Introduction of NextEra Energy Resources

NextEra Energy Resources (hereinafter referred to as "NEERU") is a leading firm having more than two decades of expertise in setting up of Biogas based renewable energy projects for electrical & thermal applications.

NEERU has installed more than 50 Biogas Power [off-grid] Projects up to 50 KVA in universities, colleges, institutions, farm houses, dairy farms,

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NEERU has installed more than 5,000 domestic biogas plants in rural areas in Odisha, Andhra Pradesh and Telangana and 1,400 fixed chullahsin institutions and dhabas. NEERU hasbuilt over 36 large size Biogas plants at various institutions, which are being used for cooking purposes.

## Benefits of the Proposed Biogas Plant

- The solids organic waste generated within the campus from various sources can be treated in Biogas plant for generation of clean/ green energy and manure
- Bio-methanation based biogas plant provides eco-friendly solution for disposing large quantity of waste generated in Institution premises
- To create a green/Swaatch Institution
- Use of biogas in place of LPG for cooking avoids greenhouse gas emissions (GHG)
- It keeps environment clean and eco-friendly
- The manure produced from Biogas plant is a good compost and excellent fertilizer, which can be used for plantations and gardens developed in the campus. The manure can substitute chemical based fertilizers, if any.

## Feedstock for the Proposed Biogas Plant

- Uncooked Vegetable & fruit waste from Kitchen
- Food waste from messes
- Wet organic waste from residential quarters
- Green garden waste/cattle Dung
- Food waste generated from food courts
- Any other biodegradable, solid waste generated within the farm areas

The above feed stock is produced entirely within the premises of the farm on daily basis and there is no need to depend on external sources.

### Brief Description of Bio-methanation Technology and its Products

Biogas is a gaseous fuel produced from biomass such as animal waste, food waste, Solid waste, fruit waste, dry leaves, grass, straw etc. during the anaerobic fermentation process. Biogas contains 55-65% methane (CH<sub>4</sub>) and 30-40% carbon dioxide (CO<sub>2</sub>), water vapour (H<sub>2</sub>O), hydrogen, carbon monoxide (CO), and about 5% hydrogen sulphide (H<sub>2</sub>S). The heat value (calorific value) of biogas is 4,713 kCal/m<sup>3</sup>. The picture below depicts the schematic of a biogas plant.

#### Advantages of Biogas

The quantum of biodegradable waste generated such as cow dung, food waste, fruit waste, and vegetable waste has become a social and environmental problem. Inadequate capturing, storage, and lack of proper treatment techniques led to degradation of local air, soil, and water quality. Pollutants generated by mismanaged waste include biochemical oxygen demand (BOD), pathogens, nutrient loading, methane, and ammonia. If the above organic materials are left to atmosphere, they

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decay and emit methane to the atmosphere. Methane is 20 times more hazardous than carbon dioxide in terms of greenhouse effect and global warming.

The generation of biogas from such solid wastes protects the environment by not only reducing the harmful emissions to the environment but also reducing the burning of fossil fuels. Utilization of biogas can reduce or eliminate energy costs. The thermal energyrequired for water heating or buildings heating can be obtained by directly burning biogas in a boiler or furnace or from a heat recovery system connected to the engine-generator.

The energy generated from biogas will also reduce the country's dependence on fossil fuels and contributes to energy security.

## Anaerobic Digestion Technology

Anaerobic digestion of food waste, solid waste, fruit waste is a promising technology that has been shown to effectively address many of the problems associated with food waste/ manure management while providing a reliable energy resource. Anaerobic digestion is by no means a new technology. India has enormous potential for large scale application of anaerobic digestion if properly designed, constructed, and managed. The anaerobic digestion systems can be a successful manure management tool on farms, waste disposal units, landfills, etc. Using food waste and manure as the input, an anaerobic digester yields three daily valuable outputs i.e., Biogas, solid fiber, nutrient-rich liquid.

### **Production Process of Biogas**

The process of bio-gas production is anaerobic digestion of wastes and takes place in two stages and these are: (i) acid formation stage and (ii) methane formation stage. In the acid formation stage, the bio-degradable complex organic compounds of solids and cellulose present in the waste materials are acted upon by a group of acid forming bacteria present in the dung and reduce them into organic acids, CO<sub>2</sub>, H<sub>2</sub>, NH<sub>4</sub> and H<sub>2</sub>S. Since the organic acids are the main products in this stage, it is known as acid forming stage and this serves as the substrates for the production of methane by methanogenic bacteria.

In the second stage, groups of methanogenic bacteria act upon the organic acids to produce methane gas and also reduce CO<sub>2</sub> in the presence of H<sub>2</sub> to form methane (CH<sub>4</sub>). At the end of the process the amount of oxygen demanding materials in the waste product is reduced to within the safe level for handling by human beings.

There are four types of methanogenic bacteria, namely (i) methano-bacterium, (ii) methanospirillium, (iii) methano-coccus, and (iv) methano-circina. These bacteria are oxygen sensitive and photo-sensitive and do not perform effectively in the presence of oxygen and light.

### Composition of Biogas

Biogas mainly comprises of hydro-carbons which are combustible and can produce heat and energy when burnt. The chemical formula of the hydrocarbon is CH<sub>4</sub> where C stands for carbon and H for hydrogen and chemically the gas is termed as methane gas. The biogas produced by anaerobic digestion does not contain pure methane and has several impurities. A typical composition of biogas gas obtained from the process is given below in Table 1 below:

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Table 1: Typical Composition of Biogas from Anaerobic Digestion

Constituent	Percentage (%)
Methane	60,0
Carbon dioxide	38.0
Nitrogen	0.8
Hydrogen	0.7
Carbon Monoxide	0.2
Oxygen	0.1
Hydrogen Sulfide	0.2

### Bio-manure (By-product)

The proposed biogas plant by anaerobic digestion technology will produce manure as a useful byproduct. The average NPK content of the manure (farm yard manure-FYM) is about 0.5, 0.2 and % respectively. The biogas slurry is rich in NPK by more than four times than ordinary dung when converted into FYM.

When the country is faced with shortage of fertilizers and has to spend enormous amount for its import, the application of biogas slurry will go a long way in replacing the chemical fertilizers. Biogas slurry or FYM not only adds NPK but it protects the soil porosity and texture. These are established benefits. Table 2 below presents the typical NPK composition of manures:

Table 2: NPK Composition in Typical Manures

Item	N	P2O5	K₂O
Bio-gas slurry	1.4	1.0	0.8
Farm Yard Manure (FYM)	0.5	0.2	0.5
Town Compost	1.5	1.0	1.5

#### Plant Details and components

This design consists of a deep well shaped underground digester connected with inlet and outlet pipes at its bottom, and separated by a partition wall dividing the 3/4th of the total height into two parts.

A mild steel gas storage drum is inverted over the slurry, which goes up and down around a guide pipe with the accumulation and withdrawal of gas.

<u>Digester:</u> This is the fermentation tank and is built partially or fully underground. It is generally cylindrical in shape and made up of bricks and cement mortars. It holds the slurry within it for the period of digestion for which it is designed.

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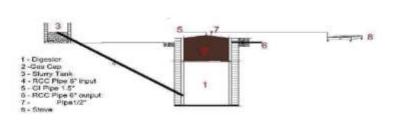
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<u>Gasholder</u>: This component is meant for holding the gas after it leaves the digester. It may be a floating drum or a fixed dome on the basis of which the plants are broadly classified. The gas connection is taken from the top of this holder to the gas burners or for any other purposes by suitable pipelines. The floating gas holder is made up of mild steel sheets and angle iron and is required to exert pressure of 10 cms of water in the gas dome masonry and exert a pressure up to 7.5 cm water column.

Slurry mixing tank: This is a tank in which the dung is mixed with water and fed to the digester through an inlet pipe.

Outlet tank and slurry pit. An outlet tank is usually provided in a fixed dome type of plant from where slurry in directly taken to the field or to a slurry pit. In case of a floating drum plant, the slurry is taken to a pit where it can be dried or taken to the field for direct applications.

Capacity of the	Daily required food/cattle	Daily replacement	Bio-manure production per
biogas digester	dung waste	of LPG per day	day in dry matter
2M³/day	25kg/day	0.5- Kg/day	6Kg.

Manpower requirement: These plant needs very little maintenance, one person half an hour in every day for general cleanliness and maintenance.

### Climatic twin effect:

The use of renewable energy reduces the CO2-emissions through a reduction of the demand for fossil fuels. At the same time, by capturing uncontrolled methane emissions, the second most important greenhouse gas is reduced:

#### The impact on the greenhouse effect

The greenhouse effect is caused by gases in the atmosphere (mainly carbon dioxide CO2), which allow the sun's short wave radiation to reach the earth surface while they absorb, to a large degree, the long wave heat radiation from the earth's surface and from the atmosphere.

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Proposal for Food Waste based Biogas Plant for Thermal Application

# AboutNEERU

SI. N o.	Item	Details
1	Name of the Firm/Company	NEXT ERA ENERGY RESOURCES [Formerly NextEra Energy Resources LLP and merged to the above]
2	Short Name	NEERU
3	Legal status of the Organization	Registered under the section 58 [1] of the Partnership act, 1932 Govt. of India
4	II &MediumEnterprises &Medium Development(MSMED)Act200	RegisteredunderMicro,Small &MediumEnterprises for Udyog Aadhaar. [TS09B0026556]
5	Registration no and date under startup registration under Department of Industrial Policy and Promotion, Govt. of India	Registered under Department of Industrial Policy and Promotion, Ministry of Commerce & Economy, Govt. of India No. DIPP7592
6	Income Tax Registration number- PAN No.	AANFN8274C
7	GST/CGST Registration	36AANFN8274C1ZZ
8	OfficeAddress with Contact details	# 5-5-811, Jahangir Nagar Colony, Chinthalkunta, L.B. Nagar, Hyderabad-500 070-Telangana-India E-mail:neeru@neeru.co
9	Contact Person with Telephone No. etc.,	Mr. M.V. N. Reddy Tel: 94412 84442/ 94938 62240 E-mail: vnr@neeru.co
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Proposal for Food Waste based Biogas Plant for Thermal Application

	KVA in universities, colleges, if farms, agro industries, etc. In domestic biogas plants in relangana and 1,400 fixed che built over 100 large size Biogas used for cooking purposes.	n 50 Biogas Power [off-grid] Projects up to 50 institutions, farm houses, dairy farms, poultry addition, NEERU has installed more than 5,000 ural areas in Odisha, Andhra Pradesh and sullahs in institutions and dhabas. NEERU has plants at various institutions, which are being
	power generation in Municip Gaushalas with Central Finan	ional / Community biogas plants for cooking / alities, Institutions, Industries Temples and ce Assistance under Biogas Power [Off-grid] and Renewable Energy, Govt. of India
11	Mechanism/ process of budgetpreparation,approval& control	Each project is taken up after completion of detailed designs, planning and estimates as per approved design of MNRE.
12	System of monitoring and evaluation of schemes/ budgetary controls within the Firm	Project is monitored at predefined events

## Affiliations/PartnershipstoNational/International Agencies

NEERUempanelledwith various Central/State Govt. Organizations doing excellent work in the field of sustainable energy services as below:

- a) <u>BhabhaAtomicResearch Centre (BARC)</u>,Trombay, Mumbai, Govt. of India: 'Technology Transfer &Collaboration Division' for setting up Nisarguna a Biogas Plant Based on Biodegradable Waste Plants in India.
- b) OSMANIA UNIVERSITY: Service support partner for a joint venture program for developing, conducting a few courses in energy/new renewable energy technologies and service support, working in 'Centre for Energy Technologies' at Osmania University Campus.
- Ministry of Commerce & Industry, Govt. of India: Recognized Start-up Company, (DIPP7592) underthe Department of Industrial Policy and Promotion, Ministry of Commerce & Industry, Govt. of India
- d) <u>Biogas Development Training Centre (BDTC)</u>, Ministry of New &Renewable Energy, GOI, Bhubaneswar, Odisha: Authorized agency for conducting trainings in biogas based renewable energy technologiesunderthe schemes of Ministry of New & Renewable Energy, Govt. of India in Andhra Pradesh and Telangana.
- e) <u>Department of Biotechnology, Khadi& Village Industries Commission</u>,(KVIC)Govt. of India Andhra Pradesh /Telangana to establishment of biogas based renewable energy projects in Andhra Pradesh& Telangana States.
- f) Ministry of Defense, Govt. of India: A recognized agency under Ministry of Defenseand are associated with Defense Institute of Bio-energy Research DIBER/DRDO and DefenseResearchDevelopment Laboratories, DRDL, wereassociated to setup renewable energy generation projects at their sites.

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Proposal for Food Waste based Biogas Plant for Thermal Application

- Nuclear Power Corporation of India Limited, (NPCIL) Govt. of India: Empanelled to carryout Corporate Social Responsibility CSR' related activities/projects at NPCI stations/project cites in India.
- h) MSME, Govt. of India: A 'Udyam Registration' registered enterprise under (MSMED) Act 2006, (UDYAM-TS-09-0014184) Ministry of Micro, Small and Medium Enterprises, Goyt, of India
- i) ITE & C Department, Govt. of Telangana: Recognized as start-up (ID:TSSR00176) by the State Innovation Cell, Information Technology, Electronics and Communications Department, Govt. of Telangana.
- j) Telangana State Renewable Energy Development Corporation Ltd., (TSREDCO): Authorized as an approved distributer for distribution of LED Bulbs & BLDC Fans and other renewable energy products in Ranga Reddy District on behalf of TSREDCO, Govt. of Telangana.
- k) Confederation of Indian Industry (CII), New Delhi: 'Awarded Certificate of Appreciation' From CII for our efforts towards sustainable Management of waste through innovative solution as a start-up and participation in the CII 3R Awards 2021.

Annamectarys institute of Technology & Sciences Pigliour (V), Balantagerium (Post) Millapurmet (M), R.R. Olst. HYD-50<sup>4</sup> 823.

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GSTIN: 36AANFN8274C1ZZ



Date: 29-10-2021



NextEra Energy Resources

Regd. Office: # 5-5-848/14, Jahangir Nagar Colony, Chinthalkunta,
L. B. Nagar, Hyderabad-500 070-Telangana

Camp Office: C/o. Centre for Energy Technology, B/12, University College of
Engineering, Osmania University, Hyderabad-500 007

Tel: +91 94412 84442, +91 9493862240

E-mail: neeru@neeru.co, http://www.neeru.co

#### TAX INVOICE

Invoice No. NEERU/21-22/031

Details of Receiver	Details of Consignee	Purchase order/supply order
[Billed to]	[Shipped to:]	No. & Date
Annamacharya Institute of Technology Sciences Piglipur (Village), Batasingaram (Post), Abdullapurmet (Mandal), Ranga Reddy District, Hyderabad 501512, Telangana	Annamacharya Institute of Technology Sciences Piglipur (Village), Batasingaram (Post), Abdullapurmet (Mandal), Ranga Reddy District, Hyderabad 501512, Telangana	Ref. No. Nil Dated: 01-09-2021

Buye	r's GS1IN			1	
SL No.	HSN Code	Description of Item	Qty.	Rate Rs.	Total Amount in INR
1	84 05 10 90	WASTE TO ENERGY (BIOGAS) PLANT Supply of 6 cum per day waste to energy system etc.,	01	63,000/-	60,000/-
			_	GST @ 5%	3,000/-
			TOTAL	INVOICE VALUE	63,000/-
		Amount Chargeable [in words]: Indian B	upees Sixtty three	Thousand Only	v. Venille video

#### Tax Amount Details:

SL	HSN/SAC	Taxable	1 9	CGST		SGST	1 3	IGST	Total Tax
No.	Code	Value	0/6	Amount	%	Amount	96	Amount	in INR
1	84051090	60,000/-	2.5	1,500/-	2.5	1,500/-		-	3,000/-
			-					Total	3,000/-

Our Banker Details: Axis Bank, B N Reddy Nagar, Sagar Road, Hyderabad, A/c. No. 917020067741338 - IFSC : UTIB0003061 NextErn Energy Resources'

#### Terms & Conditions:

- Cheque/DD to be made in favor of "NextEra Energy Resources"
- Goods once sold will not be taken back and any disputes, arising out of this sale or subject to Ranga Reddy District, Telangana iurisdiction.
- Declaration: We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Certified that the particulars given above are true and correct.





PRINCIPAL Annamecharya Insulute of Technology & Sciences Pilipor (V), Balandorem (Post) Milaporma (M), Rc, Dist, 4Y0-50\* 88

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Technology & Schoologers (Post)
Plylop (V), Batesingers (Post)
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# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512 (Approved by A.I.C.T.E, Recognized by the Govt. of T.S., Permanent Affiliation from JNTUH, Hyderabad) Accredited by "NAAC with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B). Website: www. https://aits-hyd.org/, E-mail: principalaith@gmail.com, Contact No: 9848924705

# **Additional Information**

# Energy Consumed by the College before & after Solar Power plant Installation.

Energy Consumed by the AITH from TSSPDCL Before and after Solar Power plant Installation.

	Before	e Solar Plant Installation	After Solar Plant Installation		
	Month &	Energy Consumed in	Month &	Energy Consumed in	
S.No	Year	KWh(units)	Year	KWh(units)	
01	Jan'2021	5666	May' 2021	4996	
02	Feb'2021	7991	June' 2021	4531	
03	Mar'2021	9121	July' 2021	6456	
04	April'2021	7922			

Note: AITH has a leased line HT.



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# 7.1.2.2: The facilities in the institution for management of the various types of degradable and non-degradable waste.

Relevant Documents (Agreements/ MoUs) with approved Authorities

# **INDEX**

Details	Page No.
Business Proposal with NextEra Energy Resources	26
MoU with NextEra Energy resources	28
Business Proposal with M K Paper Industries	32
Weighing bill	34
Pay back receipt	38
	Business Proposal with NextEra Energy Resources  MoU with NextEra Energy resources  Business Proposal with M K Paper Industries  Weighing bill

PRINCIPAL
Annamectarys Institute of Technology & Sciences
Phylour (V), Betavalogeram (Post)
bdullapurmat (M), R.R. Dist. HYD-50\* 525.



Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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NextEra Energy Resources

Camp Office: C/o Centre for Energy Technology, Br12, University College
of Engineering, Osmania University, Hyderabad-500 007

Regd Office: # 5-5-840/14, Jahangir Nagar Colory, Chirthalkunta,

L. B. Nagar, Hyderabad-500 070 Telangaria

Tel: #81-94412-84442, #81-9463882240 E-mail neeru@neeru.co, http://www.neeru.co

No. NEERU/Ew/

Date:

To Annamacharya Institute of Technology & Sciences, Piglipur (V), Abdulpurmet (M), Bataisngaram, Hayatnagar, R R Dist., Hyderabad - 501512.

Sub: Proposal for lifting recyclable waste from your esteemed institution - Regarding.

Ref: Through Phone call conversation - from PAO AITS.

Sir / Madam,

NextEra Energy Resources is a technology based waste management start -up by young and socially responsible entrepreneurs with an objective to safeguard the environment. With reference to the above subject cited, we are submitting the proposal for lifting recyclable waste from your esteemed institution

Next Era Energy Resources ("NEERU") was registered with an aim to provide turnkey / EPC contract services, developing Biofuel, Biomass and biogas based renewable energy projects for electrical & thermal applications on decentralized basis with intellectual partnership of 'Centre for Energy Technology', Osmania University, Hyderabad <a href="http://www.neeru.co.">http://www.neeru.co.</a>

We recover dry recyclable waste and help the material get to their next best use by ensuring that it is being recycled / up re-cycled efficiently which in turn helps to conserve natural resources and protect the environment. We would like to pick the dry recyclable from your institution at below mentioned prices:

S.No	Description of Item	Price (Rs. / Kg
1	Paper waste *(Books, old records, newspaper, etc) excluding hard bond Covers	12.00
2	Metal waste	15.00
3	Plastic	6.00
4	E-Waste :-	No see and the
S	CPU working	260.00
6	CPU Not-working	150.00
7	CPU only Cabinet	50.00
В	Server (s)	260.00
9	LCD Monitors working	260.00
10	LCD Monitors not-working	100.00
11	CRT Monitors	70.00
12	Core/Dual core Laptops (Not-working Condition)	300.00
1.3	Aprocessors Laptops (Not-working Condition)	160.00
14	Core/Dual core Laptops (Working Condition)	600.00
15	i-processors Laptops (Working Condition)	1000.00
16	Big Zerox / scanner machines	400.00
17	Dot Matrix Printers	100.00
18	Printers	150.00
19	Keyboards	50.00
20	Mouses	36.00
21	SMPS (Not-working)	20.00
22	Hard disks	30.00
23	Mother boards	50.00
24	Head Phones	20.00

PRINCIPAL Annamectarys institute of Technology & Sciences Platour (V), Betweengerism (Post) \$49, 100 to 1470-50\* \$49, 100 to 1470-50\*

College Code: T8



# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

 $Piglipur(V), \ Batasingaram(Post), \ Adbullapurmet \ (M), \ R \ R \ Dist., \ Hyderabad \ -501512 \\ \textbf{(Approved by A.I.C.T.E, Recognized by the Govt. of T.S., Permanent Affiliation from JNTUH, Hyderabad)}$ Accredited by "NAAC with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B). Website: www. https://aits-hyd.org/, E-mail: principalaith@gmail.com, Contact No: 9848924705

nnamectarys institute o Technology & Sciences

25	RAM	30.00
26	UPS	100.00
27	Cables Kg	30.00
28	Modems	40.00
29	Switch (s)	40.00
30	Voltmeters	110.00
31	Routers	30.00
32	Inverter generator	100.00

\*\* Looking forward for green collaborations with your esteemed institutions in solid waste Management.

Thanking you,

Yours faithfully, For NextEra Energy Res



Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512 (Approved by A.I.C.T.E, Recognized by the Govt. of T.S., Permanent Affiliation from JNTUH, Hyderabad) Accredited by "NAAC with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B). Website: www. https://aits-hyd.org/, E-mail: principalaith@gmail.com, Contact No: 9848924705

College Code : T8 ESTD: 2005

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur (V), Batasingaram (Post), Abdullapurmet (M), R.R.Dist., Hyderabad - 501 512.

(Approved by AICTE, Recognized by the GOVT. of T.S., Permanent Affiliation from JNTUH, Hyderabad.)

Accredited by "NAAC" with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B).

Mobile: 9848924705

9912344480

Website: aits-hyd.org

E-mail: principalaith@gmail.com

# MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as "MOU") is signed between two parties on the day of 5th January 2023 in Hyderabad with the objective of smooth functioning between the two organizations working towards providing Waste Management and Waste to Energy solutions to the Institution BY AND BETWEEN:

- ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES, Piglipur(V), Batasingaram, Abdullapurmet (M), R.R.Dist, Hyderabard-501512, Telangana, its administrators, assigns and successors represented by HOD/Principal, who is duly authorized to sign and execute AND
  - 'NextEra Energy Resources', having its office at C/o Centre for Energy Technology, University College of Engineering, Osmania University, Hyderabad-500 007 Telangana, represented by its Managing Partner Mr. MVN Reddy S/o M. Sanjeeva Reddy resident of Hyderabad.

(Herein after referred to as "NEERU" which expression shall unless it be repugnant to the context or meaning thereof, be deemed to mean and include is successors and assignees) of the OTHER PART:

Whereas Annamacharya Institute of Technology & Sciences has agreed to collect and give away the dry recyclable waste including any kind of Dry and Wet Waste generated in its college.

# NOW THIS MOU WITNESSETHAS AS UNDER:

This is an agreement for a synergic alliance between **Annamacharya Institute** of Technology & Sciences and NEERU for the social cause of recycling of Dry Waste and Environment Protection through recycling.

Page 1 of 5

PRINCIPAL

Annamactuarya institute o

Technology & Sciences
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Plafeer (V), Balandegeram (Post)



Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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#### Article-1:

Roles and Responsibilities of Annamacharya Institute of Technology & Sciences:

- 1. To ensure soured segregation of dry and wet waste at college premise through its Teaching staff, housekeeping staff and Students.
- 2. Annamacharya Institute of Technology & Sciences will give away any kind of paper waste (white papers, records, newspaper, carton boxes etc), metal waste, plastic waste & e- waste.
- 3. Annamacharya Institute of Technology & Sciences shall motivate student to bring dry recyclables like paper, plastic, Metal etc. from their home and contribute to NEERU.
- Annamacharya Institute of Technology & Sciences will put up color coded bins for waste segregation at different points in college premises.

#### Article-2:

# Roles and responsibilities of NEERU:

- 1. NEERU will collect dry recyclable waste and old records from college and bring to their facility without any spillage.
- 2. NEERU will organize sorting of the dry waste into different categories baling, and appropriate disposal of Wet Waste convert into biomethanation process for using cooking fuel.
- 3. NEERU shall undertake necessary measures for dispatch of the sorted recyclables for recycling at its own cost.
- 4. E- Waste will be recovered by NEERU authorized partnering company and safely dismantle / discard the waste.
- 5. NEERU will make payment to Annamacharya Institute of Technology & Sciences directly into their accounts for the dry recyclable waste collected against the accurate weighment and the type or category of the dry waste. The payment shall be made on later than 15 days from the date of purchase of dry waste from the waste collector. NEERU on the request of Annamacharya Institute of Technology & Sciences may give New A4 paper sheets, Notebooks and Stationary against the value of dry recyclable waste lifted.

#### Article-3:

#### Performance of Obligations

- 1. The details laid out in this MOU, notwithstanding the essence and spirit of this MOU is an understanding between Annamacharya Institute of Technology & Sciences and NEERU.
- 2. Any notice or other communication under or in connection with this agreement shall be in writing in the English language and shall be delivered personally or sent by way of e-mail to the party due to receive the notice or communication at its address set out in this contract or such other address as either party may specify by notice in writing to other.

Technology & Sciences



Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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#### Article-4:

Address for Communication:

For NEERU:	For Annamacharya Institute of Tech & Sc
'Next Era Energy Resources', C/o Centre for Energy Technology, University College of Engineering,	ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES, Piglipur(V),
Osmania University,	R.R.Dist, Hyderabard- 501512,
Hyderabad-500 007 Telangana	Telangana.
Email: neeru@neeru.co	E-mail: principalaith@gmail.com
Tel: 9441284442	Tel: 9848924705, 9848924706

# Article-5: Execution of this agreement shall be deemed to be

A confirmation by both the parties that no benefit, either in cash or kind has been provided by either party to the other party or to any officer or employee, or any relative / associate of any office or employee of either party or of any of their associate institutions/ companies in order to enter into this agreement, and An undertaking by both the parties not to provide any benefit, either in cash or kind to any officer / employee / relative / associate of any officer or employee of either party as rewards or consideration either for entering into this MOU of other matter relating to this agreement.

# Article-6: Force Majeure:

Neither party shall be liable for damages for any delay or failure to perform its obligations here under, if such delay or failure is due to reasons beyond the control of the concerned party including without limitation, strikes, riots, wars, fires, epidemics, quarantine restrictions, unusually severe weather, earth quakes, explosions, acts of God or state or any public enemy or acts mandated by applicable laws, regulation or order, whether valid or invalid, or any Governmental body.

## Article-7: Dispute Resolution:

It is understood by both the parties that this agreement is for a social cause and not to make any profit out of the understanding. The parties covenant that they will comply with all applicable laws and regulations in their conduct pursuant to this agreement. Any dispute arising out of this agreement shall be first attempted to settle amicably between the parties.

> PRINCIPAL Technology & Sciences Annamachar Plyliper (V), Salamingerian (Post) lapermet (M), R.R. Dist. HYD-50\* 525



 $\begin{array}{c} Piglipur(V),\,Batasing aram(Post),\,Adbullapurmet\,(M),\,R\,\,R\,\,Dist.,\,Hyderabad\,-\,501512\\ (Approved\,by\,\,A.I.C.T.E,\,Recognized\,by\,\,the\,\,Govt.\,of\,\,T.S.,\,Permanent\,\,Affiliation\,\,from\,\,JNTUH,\,Hyderabad) \end{array}$ Accredited by "NAAC with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B). Website: www. https://aits-hyd.org/, E-mail: principalaith@gmail.com, Contact No: 9848924705

In witness whereof the parties hereto have signed this agreement on the day, month and year mentioned hereinbefore.

For

Annamacharya Institute of

Technology & Sciences

Annamacharya Institu Technology & Science

Piolour (V), Batasingeram (P) Acous Witness: R. Dist. HYD-5

For

NextEra Energy Resources

1.

2.

PRINCIPAL
Annamectarya Institute of
Technology & Sciences
Plyfour (V), bateringerier (Post)



Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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> Cell: 9177618411 9703474428 mkpaper60@gmail.com

# M.K. PAPER INDUS'

We are the Purchasers of Old Records & Waste Paper, Newspapers, Computer Scrap & Iron Scrap, Batteries Etc.

Off.: HAPPY HOMES, TOWER 5, FLAT NO. 412, UPPARPALLI, HYDERABAD. T.S. - 500 048 FACTORY: RING ROAD, UPPARPALLI, DAIRY FARM, HYDERABAD, T.S. 500048.

Administrative Officer

Bill

QUOTATION

SI.No.	Description	Tons	Kgs.	Rate per Ton
1 1000	<b>可以为为的</b>	95742	E 847 - 8 1038	tate per 10h
2	Old Books		184540	= 21,780/-
3				1,100/
4	Iron Commercial Scrop	200	FORSE	15,120/-
5	Carlo Carlo State Control of the Carlo Car		1200年1120日1120日1120日	WHITE THE PARTY OF
6	Plastic Scran	25-00	105 115	1,575/-
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8	and the same of th			160,2010
9	DEATH AND THE REST OF THE REST OF	Grant	ToTal->	38,475/-
10				
11				Olympia Land
12				a Profession

(We purchase all type of Scrap Items (or) Scrap in Lots) (And all type of working condition machines and Materials Etc)

As, our firm is providing raw material to the same Semi Scale Industries, which provides daily bread and butter to the poor labours by providing employment.

Awaiting eagerly for your kind and favourable approval. Thanking you sir,

Contact Mobile No: 9177618411 / 9703474428

Yours faithfully,

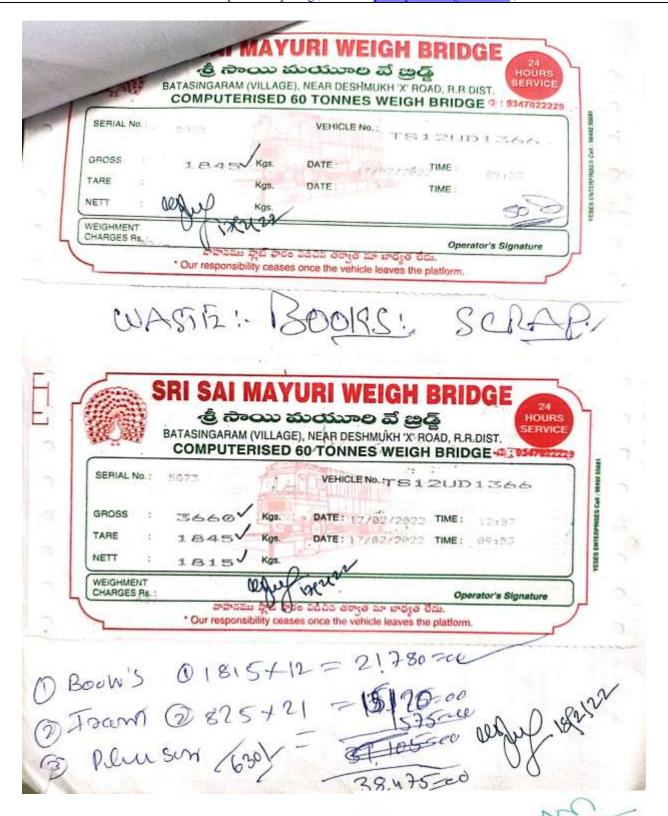
FOR M.K. PAPER INDUSTRIES

PRINCIPAL nnamecharya Institute o' Technology & Sciences Pigliper (V), Bataningerim (Post) lapurmat (M), R.R. Dist. HYD-504 Annamacha



Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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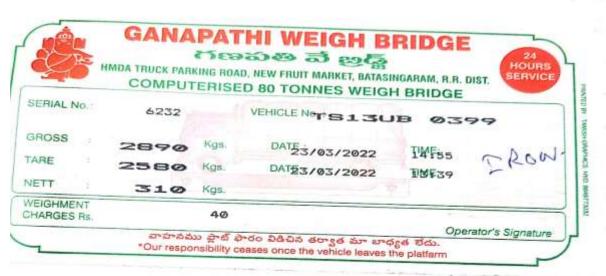
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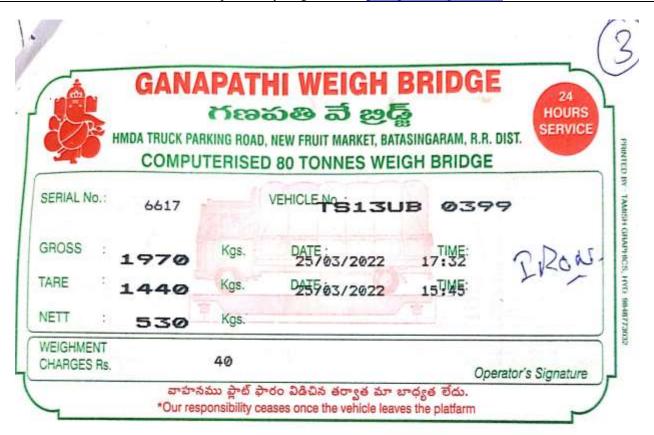
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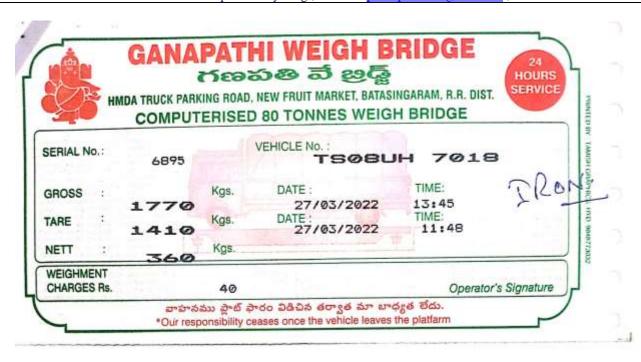


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Pighour (V), Balaningeram (Post)
Abdullaperma (M), R.R. Dist. MYD-591 889



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GROSS :	2160	Kgs.	DATE: 27/03/2022	TIME: 14:45	O
TARE :	1770	Kgs.	DATE:	TIME:	1300153
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Ourthern.

(ORIGINAL)

# MACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES Piglipur, Batasingaram (Panchayath), Hayathnagar (M), Hyderabad, R.R.Dist. 501512

#### RECEIPT

No.: 145

Date: 22-Feb-2022

NAME

: M K PAPER INDUSTRIES (SCRAP)

ROLL NO

COURSE

JNTU Fee

**Tuition Fee** 

Transport Fee

Miscellaneous Fee

Placement Fee

Examination Fee

TOTAL :

38,475.00

Indian Rupees Thirty Eight Thousand Four Hundred Seventy Five Only

Chq/D.D.No: RRN 205408356295 \* Cheque subject to realisation.

Date: 22-Feb-2022

Branch:

Authorized Senatory

(ORIGINAL)

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram (Panchayath), Hayathnagar (M), Hyderabad, R.R.Dist. 501512

#### RECEIPT

No.: 1

Date: 11-Apr-2022

NAME

: M K PAPER INDUSTRIES (SCRAP)

ROLL NO

COURSE

JNTU Fee

Tuition Fee Transport Fee

Miscellaneous Fee

Placement Fee

Examination Fee

TOTAL

20,000.00

Indian Rupees Twenty Thousand Only

Chg/D.D.No: RRN NO 210105213205 Bank : CBI BATASINGRAM BRANCH

Date: 11-Apr-2022 Branch:

\* Cheque subject to realisation.

Signator

PRINCIPAL Annamecharya Institute o Technology & Sciences

College Code: T8



## ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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(ORIGINAL)

## MACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram (Panchayath), Hayathnagar (M), Hyderabad, R.R.Dist. 501512

#### RECEIPT

No.: 2

Date: 11-Apr-2022

NAME

: M K PAPER INDUSTRIES (SCRAP)

ROLL NO

COURSE

JNTU Fee

**Tuition Fee** 

Transport Fee

Miscellaneous Fee

Placement Fee Examination Fee

TOTAL

25,040.00

Indian Rupees Twenty Five Thousand Forty Only

Chg/D.D.No: RRN NO.210105196589

CEI BATASINGRAM BRANCH

\* Cheque subject to realisation.

Date: 11-Apr-2022

Branch:

Authorized Signatory

PRINCIPAL

Annamecharya Institute of Technology & Sciences Pigliour (V), Balantagerium (Post) Milapermet (M), R.R. Olat, HYD-50<sup>4</sup> 823.

College Code: T8



## ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur(V), Batasingaram(Post), Adbullapurmet (M), R R Dist., Hyderabad - 501512

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(ORIGINAL)

## ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram (Panchayath), Hayathnagar (M), Hyderabad, R.R. Dist. 501512

RECEIPT

No.: 2417

Date: 5-Mar-2022

NAME

: Miscellaneous Income

ROLL NO

: Received From ASM Reddy

COURSE

: Rec.No:

JNTU Fee

**Tuition Fee** 

Transport Fee

Miscellaneous Fee

Placement Fee

Examination Fee

TOTAL :

2,500.00

ndian Rupees Two Thousand Five Hundred Only

Chg/D.D.No:

Date: Branch:

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# 7.1.2.2: The facilities in the institution for management of the various types of degradable and non-degradable waste.

Geo-tagged Photographs of the Facilities.

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1	Solid waste management.	41
2	Liquid waste Management.	43
3	Biomedical waste Management.	45
4	E-waste Management.	46
5	Waste recycling system.	47

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# 7.1.2.2: The facilities in the institution for management of the various types of degradable and non-degradable waste.

#### 1. Solid waste Management:



Separation of wet and dry waste



Collection of Dry and wet waste by Gram Panchayat Vehicle.

 $_{\rm Page}41$ 



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Collection of Dry and Wet waste in College Premises



Conversion of food waste to Bio gas through bio gas plant

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#### 2. Liquid waste Management.



RO water plant



Sprinkle water system for plants in campus premises

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Rain



Bore well recharge pit

nnamacharys institute of Technology & Sciences Piglipur (V), Belandingerism (Post) Inpurmet (M), R.A. Dist. HYD-50\* SE.



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### 3. Biomedical Waste Management:



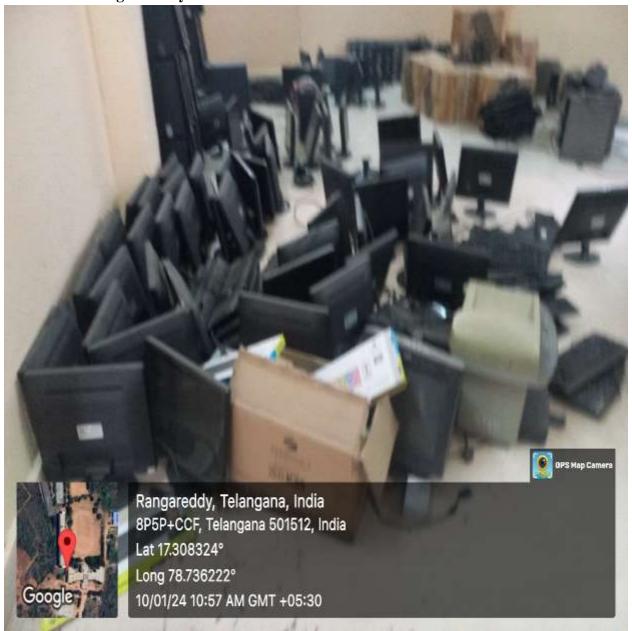
Vending and burning machine in the institution premises

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#### 4. E-waste management System.



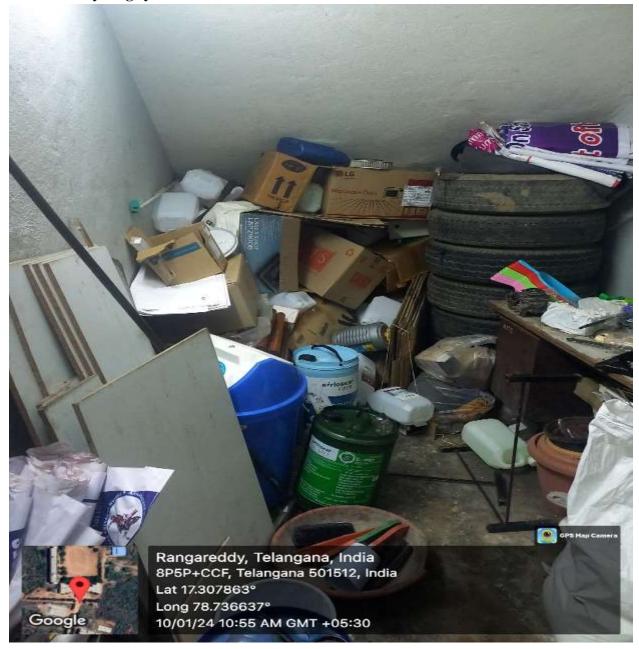
Disposal of digital waste.

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## 5. Waste recycling system.



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# 7.1.2.2: The facilities in the institution for management of the various types of degradable and non-degradable waste.

## **Other Relevant information**

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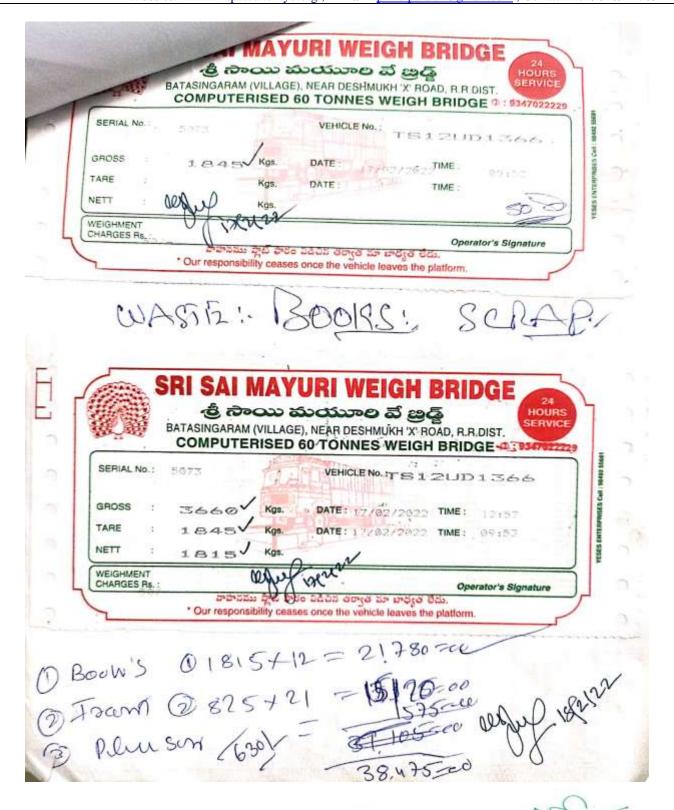
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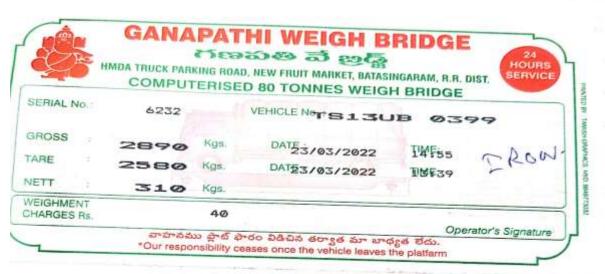
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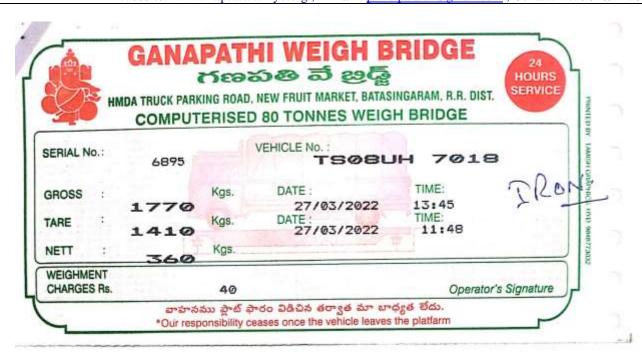
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## ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

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RECEIPT

No.: 2417

Date: 5-Mar-2022

NAME

: Miscellaneous Income

ROLL NO

: Received From ASM Reddy

COURSE

: Rec.No:

JNTU Fee

**Tuition Fee** 

Transport Fee

Miscellaneous Fee

Placement Fee

Examination Fee

TOTAL :

2,500.00

ndian Rupees Two Thousand Five Hundred Only

Cha/D.D.No:

Date: Branch:

Cheque subject to realisation.

**Authorized Signator** 

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#### RECEIPT

No.: 145

Date: 22-Feb-2022

NAME

: M K PAPER INDUSTRIES (SCRAP)

ROLL NO

COURSE

JNTU Fee

**Tuition Fee** 

Transport Fee

Miscellaneous Fee

Placement Fee

Examination Fee

TOTAL : 38,475.00

Indian Rupees Thirty Eight Thousand Four Hundred Seventy Five Only

Chg/D.D.No: RRN 205408356295

Date: 22-Feb-2022

Branch:

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#### RECEIPT

No.: 1

Date: 11-Apr-2022

: M K PAPER INDUSTRIES (SCRAP) NAME

ROLL NO COURSE

> JNTU Fee **Tuition Fee** Transport Fee Miscellaneous Fee Placement Fee

Examination Fee

TOTAL 20,000.00

Indian Rupees Twenty Thousand Only

Chg/D.D.No: RRN NO 210105213205 : CEI BATASINGRAM BRANCH Bank Cheque subject to realisation. Date: 11-Apr-2022

Branch:

Authorized Signatory

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#### RECEIPT

No.: 2

Date: 11-Apr-2022

: M K PAPER INDUSTRIES (SCRAP) ROLL NO COURSE

NAME

JNTU Fee **Tuition Fee** Transport Fee Miscellaneous Fee Placement Fee Examination Fee

> TOTAL 25,040.00

Indian Rupees Twenty Five Thousand Forty Only

Chg/D.D.No: RRN NO.210105196589 CEI BATASINGRAM BRANCH Date: 11-Apr-2022

Branch: \* Cheque subject to realisation.

**Authorized Signatory** 

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#### 7.1.2.3: Water conservation facilities available in the institution:

Geo – Tagging photographs of Water conservation facilities:

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#### 7.1.2.3: Water conservation facilities available in the institution:



Rain harvesting pit



Bore well recharge pit (Mini Dam)

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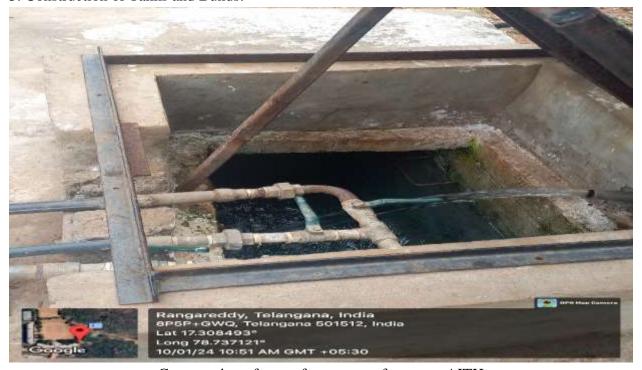
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#### 3. Construction of Tanks and Bunds:



Construction of sump for storage of water at AITH



Overhead tank at AITH (A-Block)

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Overhead tank at AITH (B-Block)

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Pigliour (V), Bataningerian (Post)
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#### 4. Waste water Recycling:



RO plant in Campus



RO plant in Campus

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## 7.1.2.4: Green campus initiatives:

Policy documents

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**Date: 30<sup>th</sup> June 2017** 

#### The Green Policy of the Institution

#### **Introduction:**

Our institution is known for its "Clean and Green" campus where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus and beyond the campus. The green campus concept offers the institution an opportunity to take the lead in redefining its environmental culture through instilling environmental ethics among students and staff. The college also promotes "Clean and Green" campus through adopting, practicing and promoting environmental friendly practices among students and staff to generate Eco-consciousness among them and in the world around them.

#### **Scope of the Policy:**

The Green Campus, Energy an Environment Policies will develop exciting new co-curricular and extracurricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, administrative functions from the standpoints of energy efficiency, sustainability and the environment. The focus areas of this policy are:

- Clean Campus Initiatives
- Landscaping Initiatives
- Clean Air Initiatives
- ❖ Water Conservation through Rainwater Harvesting System
- ❖ Waste Management processes: Solid Waste Management, Liquid Waste Management, E-Waste Management
- Awareness Initiatives
- ❖ Implementation of Green Audit, Energy Audit and Environmental Audit

#### **Objectives of the Policy:**

To continuously improve the efficiency and effectiveness in use of all resources, including energy and water, and to reduce consumption in the amount of wastre produced, recovering and recycling waste where possible.

- ❖ To make the campus plastic free.
- ❖ To conduct Environmental and Energy audits from time to time.
- ❖ To minimize the use of paper in administration by following the policy for E-governance.
- ❖ To protect and conserve ecological systems and resources within the campus.

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#### **Environmental Policy of the College:**

The Institution is committed to manage its campus in accordance with responsibilities towards promoting sustainable environment.

#### **Clean Campus Initiatives:**

- ❖ Institution had pledged to actively co-ordinate cleanliness activities in the college and beyond the campus in accordance with the vision of Swacch Bharath Abhiyan through NSS. The broad vision is as follows:
- ❖ Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives and by conducting rallies on themes connected with 'Swachh Bharath Abhiyan' in and around the college campus.
- ❖ Staff Members and students will be encouraged to participate in the cleanliness drive in the college campus.
- ❖ Events such as Poster and Slogan competitions, Essay Writing, Speeches, Skits on 'Swachh Bharat' will be organized.
- \* Rallies will be conducted to create mass awareness.
- ❖ Conduct workshops on the Rs. 3 Reduce Re-using and Re-cycling of waste.
- ❖ Commit to manage waste and maintain clean campus especially during college events.

#### **Landscaping Initiatives:**

The campus landscape, like its buildings, can be seen as the physical embodiment of a college's values. It plays a vital part of the life of a campus, providing space to study, play, outdoor events, relaxation and aesthetic appreciation. Green campus landscapes also manage runoff, help recharge groundwater, and clean and col the air on campus. The landscape serves as a visual representation of the campus community's commitment to sustainability.

#### **Clean Air Initiatives:**

We encourage our students and staff to use public/college transportation, instead of using individual vehicle, an activity that will control air pollution and strengthen social interaction. The students are strict instructions to maintain the campus clean and it is reflected in their handbooks. A gardener and the full time supporting staff are appointed for the maintenance of litter free "Clean and Green" Campus.

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#### Water Conservation through Rainwater Harvesting System:

Institution has committed itself to this effort to replenish the groundwater table by practicing rainwater harvesting. This practice helps in the replenishment and recharge of the groundwater.

#### **Awareness Initiatives:**

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. Institution supports and encourages awareness campaigns, seminars, workshops and other interactive sessions to facilitate effective implementation of the Green Campus, Energy and Environment policies.

#### **Implementation of Green Audit:**

The college aims to regularly conduct a Green Audit of our college campus to access our strengths and weakness to further our goals of long-term sustainability. A green audit is useful tool to determine how and where most energy or water or resources are being used. The college can then consider how to implement changes and make savings. It can determine the type and volume of waste. Recycling projects or waste minimization plans can be adopted. It will create health consciousness and promote environmental values and ethics. It provides a better understanding of the impact of eco-friendly practices on campus. Green auditing will promote financial savings through reduction of resources use.

#### **Plastic-Free Campus:**

Institution has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to me it a "Plastic Free Campus".

The institution through NSS and other clubs conducts sensitization programs on the harmful impact of single use plastics and mandates all the students to avoid bringing non-bio-degradable plastic items to the institution, which include plastic bags, cups, plates, small drinking water bottles, straws and sachets. The institution facilitates environmentally friendly substitutes like stainless steel, washable and reusable tumblers at all water units and mandates the canteen to serve only in paper plates and paper cups to systematically ban the use of plastics on the campus. These strategies are incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus.

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Date: 22-01-2020

#### **Policy Circular**

Subject: Restricting all the Automobile Vehicles into the College Premises.

In order to maintain the college campus free from pollution, the following procedure is required to be maintained with immediate effect.

- 1. Entry of Automobile vehicle i.e two-wheelers, three wheelers and four wheelers run by diesel or petrol are restricted into the college premises. These vehicles should be parked into the parking place outside of the main gate.
- 2. All the college buses, personal cars of staff and parents vehicles should be parked in the parking area before the main gate.
- 3. Only green vehicles like bicycles or Electric vehicles are permitted into the college premises.

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#### Copy to:

- 1) Principal Office
- 2) Notice Board
- 3) Administrative Officer
- 4) All HOD's to circulate to all staff & students.

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College Code: T8



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Date: 22-01-2020

#### **Policy Circular**

**Subject:** Ban of usage of Plastic material in the college campus

In order to maintain the clean and green environment in the college, the following procedure is followed with immediate effect.

- 1. Usage of plastic bags, plastic material by staff and students is strictly prohibited in the campus.
- 2. In case any plastic material found in the ground / campus without the knowledge of the staff member or house-keeping will see that the plastic material is thrown immediately into the dry waste bins separately at the corner / junction location s in the college premises.

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#### 7.1.2.4: Green campus initiatives:

Geo- tagged photo graphs of the facilities

#### **INDEX**

S.No.	Details	Page No.
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2	Pedestrian friendly pathways	68
3	Ban of use of plastic	69
4	Landscaping with trees and plants	70

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#### 7.1.2.4: Green campus initiatives.



AITH restricts entry of automobiles



Bus parking

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TWO wheeler parking

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### 3. Pedestrian friendly path ways



Pedestrian friendly Path way



Pedestrian friendly Path way between the blocks.

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#### 4. Ban on Plastic



Pledge on Ban of Plastic



Plastic - Free Awareness Program by AITH,

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Landscaping with Trees and Plants: AITS has a good Landscaping with Trees and Plants from both the blocks.



Ornamental landscaping in the campus

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#### 7.1.2.5: The institution has Disabled friendly barrier free environment.

Policy documents and information brochures on the support to be provided **INDEX** 

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3	Policy for Divyangjan	74

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Date: 25-08-2017

## Policy Circular on Disabled Friendly barrier Free Environment

As per the general body meeting held on 25.08.2017, the management is decided to provide the following facilities for Disabled Friendly barrier free environment in the Institution.

- 1. Built environment with ramps & lifts: In order to facilitate the Divyangjan for access to class rooms, lifts with a carrying capacity of 6 & 10 members may be installed in A-Block & B-Block. Apart from the lift arrangements, ramps construction at main entrance and all labs on the ground floor are required to be completely implemented.
- 2. Divyangjan friendly washrooms: Divyangjan friendly wash rooms with Western style lavatories wheels chairs and walker are required to be provided.
- 3. Display Board & sign posts for tactile paths: Tactile paths way to the additional building blocks from main block along with lights, display boards are required to be provided.
- 4. Separate screen reading Software or Lipi should be procured and keep in the college.
- 5. Suitable reception counter with human assistance or scribe and screen reading material should be setup.

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- 3) Administrative Officer
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Date: 25-08-2017

## **Policy for Scribe**

# Guideline for use of scribe/paper writer for visually handicapped/orthopedically handicapped students:

In the case of students who are eligible for availing the services of scribes, the Principal shall authorize to appoint scribes according to the following conditions.

- The scribe shall not be an employee of the college/Centre where the examinations conducted. The scribe shall not be a relative of the student who is appearing for the examination. The educational qualifications of the scribe shall be less than those of the student.
- A pro-forma with declaration in the format given institute shall be obtained from the scribe. The pro-forma signed by the scribe shall be forwarded to the institute.
- The government of India has notified guidelines for evaluation of the disabilities and procedures to be adopted at Higher Educational Institutions.
- The institution as per the guidelines of the government and that of the affiliating university will ensure that the persons with disabilities are encouraged.
- Both the student as well as scribe will have to give an undertaking as per the format attached (Annexure-V), that the scribe fulfills the stipulated eligibility criteria. In case, if it later transpires that the scribe did not fulfill any of the laid down eligibility criteria all the examinations the scribe wrote for the student shall stand cancelled.

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Date: 25-08-2017

## **Policy for Divyangian Students**

#### **Admission Policy:**

- AITH provides equal educational opportunities to disabled persons for their learning.
- The Institution adheres to follow the instructions set by the affiliated university JNTU, Hyderabad in the admission procedure.
- The institution strictly follows the PWD act, 1995 that provides all Government Educational Institutions and other educational institutions receiving aid from the government shall not reserve less than three present seats for persons with disabilities.

The word DIVYANGJAN refers to (United Nations Convention on the Rights of Persons with Disabilities):

Persons with disabilities include those who have long-term physical, mental, intellectual or sensory impairments that, in interaction with various barriers, may hinder their full and effective participation in society on an equal basis with others.

#### **Objective:**

To establish a positive environment and quality education to improve the academic performance of differently abled students and to assure essential guidance and counselling to support them.

#### **Policies and measures:**

- Providing suitable facilities to the differently able students in the institution.
- Scribe facility is provided with the remuneration of Rs. 200 per course.
- NVDA and JAWS software are installed for the visually impaired students in the Central Library.
- Helpline numbers are provided exclusively for the Divyangians to reach out for any kind of assistance inside the campus. Offering support in processing special scholarship from the Government.

#### Initiatives taken by the institution:

Built ramps in many places for their ease of movement. The ramp shall be wide enough that a wheelchair user can use it without any problem. A wheel chair is also provided by the institution.

College Code: T8



#### ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

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- Disabled friendly washrooms are available in the campus.
- DIVYANGJANS are motivated to participate in the programs offered by Differently-able Students welfare Association(DASW)
- Reservations are made to them as per the Government norms.
- Signage is fixed in appropriate places inside the campus.
- The college has a well-equipped infirmary and a nurse in order to administer first-aid, measure blood pressure and offer temporary relief when necessary.
- A WHATSAPP group was created for the differently able to share information. The institution has barrier-free environment that is conductive to people with disabilities.
- Assistive technology and facilities for persons with disabilities (DIVYANGJANS) accessible website, screen-reading software, mechanized equipment.
- Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material and screen reading.

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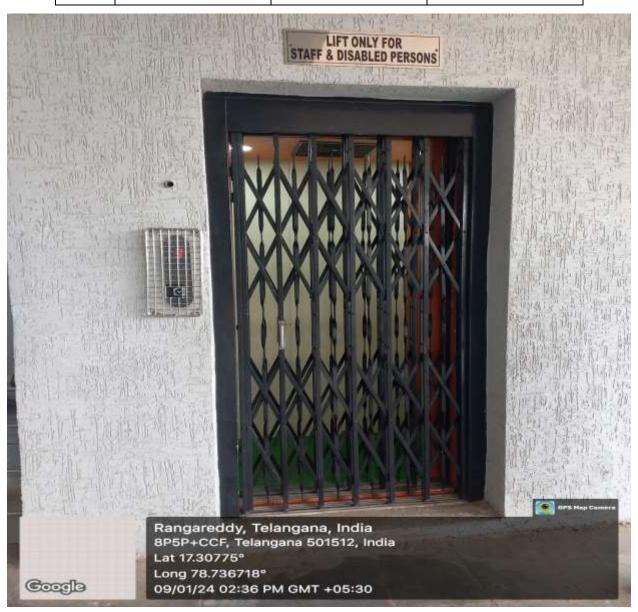


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#### 7.1.2.5: The institution has Disabled-friendly, barrier free environment.

Geo-tagged photos of Disabled-friendly, barrier free environment **Number of Lifts with passenger capacities: -**

S. No	Location	No. of Lifts	Passenger Capacity
01	A – Block	1	6
02	B – Block	1	10



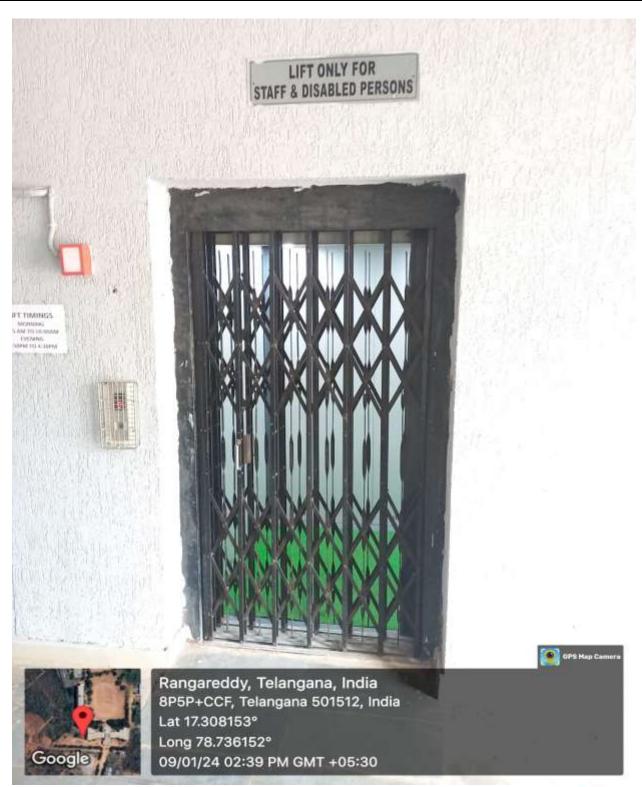
Elevator in A-Block with capacity of 6 members

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Elevator in B-Block with capacity of 10 members.

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Ramp in A – Block



Ramp in B – Block

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Wheel chair facility at Campus Premises



Disabled-friendly Washroom

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