

(Under the Department of Minority Affairs and Madrasah Education, Govt. of West Bengal) IIA/27, New Town, Kolkata - 700160, West Bengal

Environmental Consciousness and Sustainability

7.1.5. Green campus initiatives include Restricted entry of automobiles, Use of Bicycles/ Battery powered vehicles, Pedestrian Friendly pathways, Ban on use of Plastic, landscaping with trees and plants etc.

Attached below are Institutional Data in the prescribed format, Green Campus Policy, Use of Bicycles, Geo tagged photos of Pedestrian friendly pathways, landscaping with trees, ban of use of plastic.

Registrat (Olinotatale)
Aliah University
New Town, Kolkata-700160

7.1.5 Green campus initiatives: Describer the Green campus initiative of the institution including Restricted entry of automobiles, Use of Bicycles/ Battery powered vehicles, Pedestrian Friendly pathways, Ban on use of Plastic, landscaping with trees and plants etc in 500 words. (5)

Aliah university is deeply committed to fostering a sustainable and environmentally conscious future. This commitment takes root in our robust Green Campus Initiative, a multifaceted program that weaves eco-friendly practices into the very fabric of our campus life.

Prioritizing Active Transportation: To promote a healthier environment and encourage exercise, our Green Campus Initiative prioritizes active transportation. The university has implemented restricted entry zones for automobiles and built cycle stands encouraging students and faculty to utilize alternative modes of getting around. A vibrant network of pedestrian-friendly pathways winds through the campus, lined with shade trees. These pathways are perfect for walking, jogging, or simply enjoying the fresh air between classes.



Fig. 7.1.5.1: Bicycle stands to promote alternate means of transport (left) and pedestrian friendly pathways with plants aside (right)

Embracing a Plastic and Paper Free Culture: Our university recognizes the devastating impact of plastic pollution. To combat this, we have implemented a comprehensive ban on single-use plastics. This includes plastic water bottles, straws, cutlery, and bags. Reusable water bottles are encouraged and refilling stations are conveniently located throughout campus. Additionally, all food vendors are asked to use biodegradable and compostable packaging materials. The University also limits the use of paper by focussing more on emails and electronic data rather than printed documents as and when applicable.





Fig. 7.1.5.2: No plastic day celebration (left) and Say No to Plastic banner (right)

A Haven of Green Infrastructure: Landscaping plays a pivotal role in transforming our campus into a green oasis. Our campus grounds are adorned with a diverse array of native trees and plants. These not only beautify the environment but also provide essential ecological benefits hosting variety of birds, insects and other animals. Trees act as natural air filters, absorbing harmful pollutants and releasing oxygen. Additionally, strategically placed landscaping reduces the need for air conditioning, promoting energy conservation.





Fig. 7.1.5.3: Green oasis of plants surrounding the buildings and pathways

Harnessing the Power of Natural Light: Buildings on campus are designed with sustainability in mind, featuring energy-efficient systems and green technologies to minimize resource consumption and environmental impact. Wherever possible, classrooms, offices, and common areas are designed to maximize the use of natural light. Large windows and skylights bathe interiors in sunlight, reducing reliance on artificial lighting during the day. Additionally, we utilize energy-efficient LED bulbs throughout campus, further minimizing our energy footprint.







Fig. 7.1.5.4: Large windows utilising natural light for different activities (left, below) and Solar Panels Harnessing natural light for conversion to alternate energy

A Collaborative Effort for a Sustainable Future: The success of our Green Campus Initiative hinges on the collective effort of our entire university community. Educational campaigns and workshops promote awareness about environmental issues and empower students and faculty to become responsible stewards of the planet. Cleanliness drives under Swachh Bharat Mission to create a greener and pollution free campus are undertaken frequently by the NSS of the university. A Green Marathon had been organized in collaboration with the Nationalised Bank SBI, to promote the awareness of fitter bodies for focussed outputs and optimum investment of efforts to create smarter, productive campuses.



Fig. 7.1.5.5: NSS volunteers and University students carrying out Swachh Bharat Aviyaan

To conclude, the Green Campus Initiative is more than just a list of green things that can be done. It's a way of thinking that permeates our education, encouraging people to care about the environment and paving the way for a better future.

NSS report on Green initiatives	1) https://aliah.ac.in/national-service-scheme
initiatives	2) https://aliah.ac.in//upload/media/23-03-24_1711142005.pdf
	3) https://aliah.ac.in//upload/media/23-03-24_1711141735.pdf

7.1.5. Green campus initiatives include

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Aliah University is deeply committed to fostering a sustainable and environmentally conscious future. This commitment takes root in our robust Green Campus Initiative, a multifaceted program that weaves eco-friendly practices into the very fabric of our campus life.

Prioritizing Active Transportation:

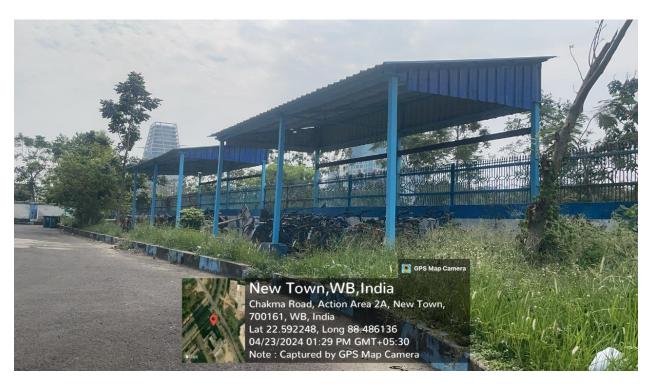


Figure 1 Built cycle stands at New Town campus of Aliah University

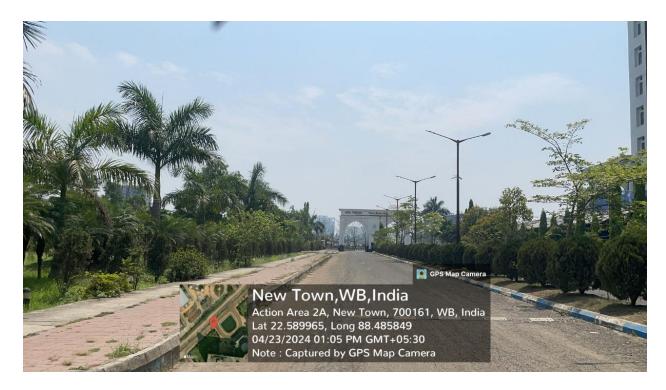


Figure 2. Pedestrian-friendly pathways at New Town campus of Aliah University



Figure 2. Pedestrian-friendly pathways at New Town campus of Aliah University

Harnessing the Power of Natural Light



A Haven of Green Infrastructure:



Figure 4. Landscaping of campus with greenery

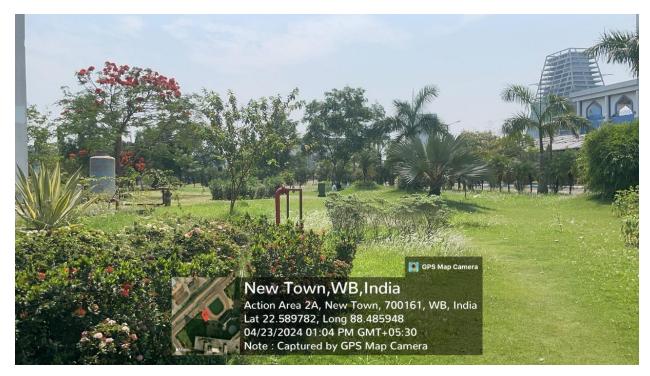


Figure 5. Landscaping of campus with greenery

A Collaborative Effort for a Sustainable Future





OBSERVATION OF SWACHHTA PAKHWARA

The NSS Volunteers and Programme Officer, NSS on 14th August 2018 organised a programme for cleanness of the University Campus under SWACHHTA PAKHWADA-2018. The solid waste, unwanted weeds, plastic bags, bottles etc. were removed from the campus. The Programme Officer also motivated the Volunteers and students regarding cleanliness and making the campus clean and green.





NSS volunteers participated in Swachhta Pakhwara, 2018





Activities of NSS in 2019-20

The NSS unit of the university has done various social activities through different programs under Regular Activity. The following are the brief activities undertaken by the NSS Unit of this university:

OBSERVATION OF SWACHH BHARAT ABHIYAN

NSS volunteers of Aliah University, Kolkata observed Swachh Bharat Abhiyan on 17th January, 2019 and during Swachh Bharat Abhiyan clean the Park Circus Campus by the participants. The solid waste, unwanted weeds, plastic bags, bottles etc. were removed from the campus. The Programme Officer also motivated the Volunteers and students regarding cleanliness and making the campus clean and green.

PARTICIPATION IN GREEN MARATHON

NSS Programme Officer, NSS Volunteers and students of Aliah University participated in Green Marathon organised by SBI on 24th February, 2019. The main objective of this programme is to create awareness among the people related green environment.





NSS Programme Officer, NSS Volunteers and students of Aliah University participated in Green Marathon organised by SBI on 24th February, 2019

Swachh Bharat Mission program undertaken frequently by the NSS of the university

87/1, Muzaifar Ahmed Street (Block-B), Kolkata - 700 01d Phona : 8100884443, 8803808282 Mail : elektrokol87@ymail com Websita : www.elektrodynamic.co.in

TAX INVOICE

Ref. No. trivoice No: ED / B / 21/ 23-24 TO.

The Registrar,

Aliah University, New Town, Kolkata-156

GSTIN: 19AAAJA1944R1D3

Pute29 08 2023

FROM.

Ms. Elektro Dynamic

GSTIN: 19AEQPH4736Q1ZL

PAN NO.: AEQPH4736Q SAC Code No.: 998715

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SI. No.	PARTICULARS	Quantity	Rate	Amount Rs. P.
	Sub.: Supply of Electrical Items at New Town Campus of Aliah University			
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ť	Supply of 4 ft T5 LED Tube Light Make: Philips.	32 Nos.	261 00	8352.00
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(Under the department of Minority Affairs and Madrasah Education, Govt.of West Bengal) IIA/27, New Town, Kolkata - 700160, Phones: (033) 2341 6444, West Bengal, India

Memo No-AU/REG/PO/.QQ.72./2023-24

Date: 28/08/2023

To
The Proprietor
Elektro Dynamic

87/1, Muzaffar Ahmed Street,

Block-B, Kolkata-700 016

Ph+ 8100894443

Email ld: elektrokol87@gmail.com

Sub: Work order for supply of Electrical items at New Town Campus of Aliah University.

Ref: letter no. ED/Q/11/23-24 dated 25-08-2023.

In response to his quotation dated 25 08 2023 for supply of Electrical items for Central Library at New Town Campus of Aliah University has been accepted by us. The detail of which are given below:

Sl. Description of items	Qty (nos.)	Unit Rate (Rs.)	Amount (Rs.)
01 Supply of 4ft T5 LED Tube Light Make: Philips/ Havells	32 Nos.	261.00	8,352.00
Add: Taxes such as GST @ 18% ctc.	•		1,503.36
Net Amount (Rs.) rounded off			9,855.00

- Total value of this purchase order is Rs. 9,855/ (Rupees Nine Thousand Eight Hundred and Fifty Five) only including all taxes & charges.
- 2. Hence he is requested to complete the job within seven (07) days of receipt of this letter; otherwise order will be deemed as cancelled without any further correspondence.
- 3. Payment terms: 100% payment will be released within (30) days on submission of Tax Invoice only after successful delivery/ completion of the work duly certified by the concern authority.

Seff Registrar

Memo No-AU/REG/PO/ΩΩ. £2.(05)/2023-24 Copy to: Date: 28/.0.8./2023

1) The Finance Officer, Aliah University.

2) The Chairman, Maintenance Committee, Aliah University.

3) The Asst. Librarian, Central Library, Aliah University.

4) Mr. Ajit Mondal, Electrician cum Generator Operator cum Pump Operator, AU.

5) The Store-Keeper, Aliah University.

Registrar

for Elekrodynamic Top Recined 20106/22

Park Circus Campus: 17, Gora Chand Road, Kolkata - 700014, Phone (033)- 23416406 Taltala Campus: 21, Haji Md. Moshin Square, Kolkata- 700016, Phone: (033) 2249 1986

Website: www.aliah.ac.in e-mail: infodesk@aliah.ac.in

Mob 9836920971 8820177344

Ref.

GST NO PAN NO FKGPS0021E

E.M. Enterprise

All Kinds of Gate, Shutter, Collapsible Gate & Still, SS Railing Windrow etc.

General Order Suppliers.

Vill:- Chhapna, P.O.- Patharghata, P.S.- New Town, Dist- North 24 pgs.Kol- 7000135

E-mail: ementerprise24@gmail.com

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(Under the department of Minority Affairs and Madrasah Education, Govt of West Bengal) IIA/27, New Town, Kolkata - 700160, Phones: (0.33) 2341-6444, West Bengal, India

Memo No-AU/REG/PO/.00.5.4../2023-24

Date: 12107,2023

To

The Proprietor

E.M. Enterprise,

Vill. – Chhapna, P.O. – Patharghata, P.S. – New Town,Kolkata - 700135 Phone: 9836920971/8820177344 Email Id: <u>ementerprise24@gmail.com</u>

Sub: Work order for supply of Electrical items at New Town Campus of Aliah University.

Ref: letter dated 10-07-2023.

In response to his quotation dated 10 07 2023 for supply of Electrical items for Maintenance Section at New Town Campus of Aliah University has been accepted by us. The detail of which are given below:

Sl.	Description of items	Qty (nos.)	Unit Rate (Rs.)	Amount (Rs.)
No 01	Supply of 26 Watt LED Bulb Make: Havells/ Philips	21 Nos.	395.00	8,295.00
	h: Taxes such as GST @ 18% etc. Amount (Rs.) rounded off			1,493,10 9,788.00

Total value of this purchase order is Rs. 9,788/ (Rupces Nine Thousand Seven Hundred and Eighty Eight) only including all taxes & charges. Hence he is requested to complete the job within three (03) days of receipt of this letter; otherwise order will be deemed as cancelled without any further correspondence.

Payment terms: 100% payment will be released within (30) days on submission of Tax Invoice only after successful delivery/ completion of the work duly certified by the concern authority.

Registrar

Memo No-AU/REG/PO/005-4-10611/2023 24

Date: 12/07/2022

Copy to:

1) The Finance Officer, Aliah University.

2) The Chairman, Maintenance Committee, Aliah University.

3) P.A to Registrar, Aliah University.

4) Mr. Syed Mostaque Ali, Maintenance Section, Aliah University.

5) Mr. Ajir Mondal, Electrician cum Generator Operator cum Pump Operator, AU.

6) The Store-Keeper, Aliah University.

Registrar

(XE

XPO REFRIGERATION ENGINEERS

Air Conditioning, Refrigeration and Mechanical Engineers with BSNL, C.U, A.U., PWD, CESC, Enlisted Electrical Contractor

XRE/ B/ 36/ 22-23 Ref. No. GSTIN: 19AERPM2355R2ZH TAX INVOICE

01.11.2022

To

The

Registrar

Address:

Aliah University, New Town Campus.

SI.	PARTICULARS	Qnty	Rate	Amount Rs. P.	- 1
No.	Sub: Supply and fixing of 20 watt 4ft. LED Tube light (Make-Philips / Havells) on Wall / Ceiling in Right and Left Block of corridors (from Cround to 8th Floor) at New Town Campus of Aliah University			113.	
	Meino nc AU/REG/PO/0089/2022-23 Date:12-10-2022				
1	Supply and fixing of 20 watt 4 Ft. LED Tube Light for both Block (Make-Havelts. Fitting & fixing of the items wall be done on ceiling / wall at deficrent floors of New Town Campus of Aliah University.	225 Nos	365.00	82125.	.00
024	Signature: Chairman Committee 1974	that the items red as per specification No	eined in good con and entered in St page No.		Into
	Buyers CST No.: 19AAAJA1944R1D3	Add. SGS	Rs ST @ 9% Rs		
	GST NO.: 19AERPM2355R2ZH SAC CODE: 998715 PAN NO.: AERPM2355R		T @ 9% Rs	739	
	Total Rupees Ninety Six Thousand Nine Hundred & Eight Only.		Say R	s. 9690	0.8

For XPO Refrigerations Engineers

87/1, Ripon Street, Kolkata - 700 016 Mobile : 94330 13915, 80179 86142, 81008 94443 E-mail : xporefrigeration@gmail.com

Completion Certificate

Name of Work: Supply and fixing of 20 watt 4ft. LED Tube light (Make-Philips / Havells) on Wall / Ceiling in Right and Left Block of corridors (from Ground to 8th Floor) at New Town Campus of Aliah University

Name of Agency:

M/s. XPO Refrigeration Engineers

87/1, Ripon Street, Kolkata-700 016.

Memo No.:

AU/REG/PO/0089/2022-23 Date:12-10-2022

This is to certify that said agency has successfully & satisfactorily completed electrical work for Supply and fixing of 20 Watt 4 Ft LED Tube Light for Both Block (Make Havells) at Right and Left Block of corridors from Ground to 8th floor in Aliah University. API (-MOX) WELLE E 09/11/22 mar 09/11/22

Maintenance Committee Aliah University Kolkata-160



(Under the department of Minority Affairs and Madrasah Education, Govt.of West Bengal) HA/27, New Town, Kolkata - 700160, Phones: (033) 2341 6444, West Bengal, India

Memo No-AU/REG/PO/00.8.9../2022-23

Date: 12/10 /2022

To The Proprietor,

XPO Refrigeration Engineers,

87/1, Ripon Street, Kolkata-700016, Phone No. 033 2226 1482, Email ID: xporefrigeration@gmail.com

Sub: Work order for supply and fixing of 20 watt 4 Ft LED Tube light (Make-Philips/Havells) on wall/ceiling in Right and Left Block of corridors (from Ground to 8th Floor) at New Town Campus of Aliah University against our NIQ notice no. 023/AU/REG/NIQ/22-23 dated: 13/09/2022.

In response to his quotation against Tender Notice (023/AU/REG/NIQ/22/23 dated: 13/09/2022) for supply and fixing of 20 watt 4 Ft LED Tube light (Make-Philips/Havells) on wall/ceiling in Right and Left Block of corridors (from Ground to 8th Floor) at New Town Campus of Aliah University has been accepted by us, hence he is requested to supply the under noted items and complete the work as per description mentioned in their quotation on an urgent basis. Details are given below:

urgent	Description of Work/s	Qty. (Nos.) as per NIQ	Rate in Rs.	Total Amount in (Rs.)
No.	Supply and fixing of 20watt 4 Ft LED Tube light for both block (Make Philips / Havells) Fitting & fixing of the items will be done on ceiling/wall at different floors of New	225 (Two Hundred Twenty	365.00	82,125.00
Add:	Town Campus of Aliah University. Basic Value in Rs. Taxes such as GST@ 18% etc. as applicable Total Amount in (Rs.) Rounde			82,125.00 14,782.50 96,908.00

Total value of this work order is Rs. 96,908/- (Rupees Ninety Six Thousand Nine Hundred and Eight only) inclusive of all taxes & duties.

Terms & Conditions:-

Rates: Rates are inclusive of all taxes and the prices are also inclusive of all e.g. packing & forwarding, transportation, insurance, loading, delivery, unloading, fitting, fixing, installation, testing, commissioning at our site.

Continue....P/2



(Under the Department of Minority Affairs and Madrasah Education, Govt. of West Bengal, IIA/27, New Town, Kolkata - 160, West Bengal

[2]

- Work Completion: Completion of the above work must be made within two (02) weeks from the date of receipt of this letter; otherwise order will be treated as cancelled without any further correspondence.
- Warranty/Guarantee: Warrantee/ Guarantee Certificate to be provided at the time of submission of Tax invoice with a service Warranty / Guarantee period of one (01) year or as per OEM whichever is higher after the date of delivery and acceptance at final destination.
- Payment Terms: 100% payment will be released on completion of work duly certified by the concern authority and immediately on receipt of payment from the Govt. Department (within 60 days from the submission of bills).
- The purchaser shall have the right to reject any of the goods that are not as per required specification. All necessaries cables and adapters for functioning of the equipments to be supplied by the contractor.
- Liquidated Damage: If a firm accepts an order and fails to execute the order in full as per the terms and conditions stipulated therein, it will be open to this institute to recover liquidated damages from the firm at the rate of 1% per week or part thereof of the order value subject to a maximum of 5% of the order value. It will also be open to this institute alternatively, to arrange procurement of the required item or to complete the work from any other source at the risk and expense of the firm, which accepted the order but failed to execute the same according to stipulated agreed upon.

Date: [2/1.0../2022

All other terms & condition and specifications as per tender documents.

Memo No AU/REG/PO/0089..(07)/2022-23 Copy to:

- 1) The Finance Officer, Alian University.
- 2) The Chairman, Maintenance Committee, Aliah University.
- 3) P.A to Registrar, Aliah University.
- 4) The Store-Keeper, Aliah University.
- 5) The University Engineer (Electrical), Aliah University.
- 6) Mr. Moloy Krishna Dan, Sr. Assistant, Aliah University.
- 7) Mr. Ajit Mondal, Electrician cum Generator Operator cum Pump Operator, AU.

Registrar



(Under the Department of Minority Affairs and Madrasah Education, Govt. of West Bengal) IIA/27, New Town, Kolkata - 700160, West Bengal

Aliah University

Green (Environmental) Policy

A. Introduction

Achieving sustainability, which encompasses environmental, social, cultural, and economic considerations, is a crucial goal. The concept gained global recognition during the United Nations Conference on the Human Environment in Stockholm in 1972. The World Conservation Strategy of 1980, jointly developed by IUCN (International Union for Conservation of Nature and Natural Resources), UNEP (United Nations Environment Programme), and WWF (World Wildlife Fund), has played a pivotal role in promoting sustainable development through the conservation of natural resources. The previous philosophy of Cradle-to-Grave (C2G) manufacturing and the End-of-Life (EOL) concept have been surpassed by the Cradle-to-Cradle (C2C) approach. In this new paradigm, emphasis is placed on reusing and recycling materials, with a focus on minimizing waste. The challenges posed by the increasing built environment and human movements underscore the pressing environmental issues we face. To attain environmental sustainability, specific conditions and processes must be met, and the framework of sustainable development serves as the pathway to achieve this goal. Aliah University in West Bengal, a public State University with campuses in New Town, Park Circus, and Taltala, covering approximately 30.109 acres, has embraced sustainable initiatives across all levels of its educational activities. With a current student population exceeding five thousand, the University has been committed to promoting sustainability since its establishment.

B. Vision

The vision of the Green Campus initiative is to create professionals with environmental, social and moral consciousness.

C. Mission

- 1. To raise awareness among essential stakeholder groups.
- 2. To recognize and address environmental issues or hazards through on-campus risk assessments.
- 3. To involve nearby village communities to introduce innovative perspectives in teaching, learning, and research.
- 4. To produce skilled individuals capable of working independently or collaboratively in diverse global settings, contributing significantly to the improvement of human life quality.

D. Objectives

1. To encourage students to be ethical towards social, environmental and cultural issues

Registre:
Rew Tews: Campus: Phones: (033) 23416444 Tele Fax: 91 33 29860252

Patricus Campus: 21, Gora Chand Road, Kolkata - 700014, Phone (033) - 23416406

Tahtani Campus: 21, Haji Md. Moshin Square, Kolkata - 700016, Phone: (033) 2249 1986

Website: www.aliah.ac.in

e-mail: infodesk@aliah.ac.in

- 2. To create environmental awareness amongst all stakeholders of the University including visitors, vendors etc.
- 3. To promote optimal use of natural resources.

E. Organization

Environment and Energy Committee

- 1. Dr. Md. Zakir Hossain, Asst. Professor, Dept. of Biological Sciences Chairman
- 2. Dr. Indranil Mookherjee, Asst. Professor, Dept. of Civil Engg. Convener
- 3. Dr. Aznarul Islam, Asst. Professor, Dept. of Geography, Member
- 4. Dr. Nasim Ali Khan, Asst. Professor, Dept. of Electrical Engg., Member
- 5. Dr. Zeenat Rehena, Asst. Professor, Dept. of Computer Science & Engg., Member
- 6. Dr. Md. Reyaz, Asst. Professor, Dept. of Journalism and Mass Comm., Member
- 7. Dr. Md. Hedayetullah Mir, Asst. Professor, Dept. Chemistry, Member
- 8. Ms. Lipika Mondal, Asst. Professor, Dept. of Nursing, Member
- 9. Dr. S. K. Sabir Ali, Sports Section, Member
- 10. Mr. Shahbaz Afzal, Finance Section, Member

Stakeholders

The University offers 29 UG programmes, 25 PG programmes, 1 integrated UG-PG programme and 21 Doctoral programmes.

Primary Stakeholders: The University currently has 176 teaching staff, 97 non-teaching staff and more than 5000 students.

Secondary Stakeholders: The secondary stakeholders constitute the parents, visitors, vendors and interested individuals/ groups.

F. Functions of the Green Campus initiative

- 1. To stimulate environmental consciousness by organising various activities
- 2. Inform and educate stakeholders.
- 3.Gain information and feedback from stakeholders to inform decisions made by management, to ensure their views are understood and considered in decision making.
- 4. Partner with or convene a network of stakeholders to develop mutually agreed solutions and joint plan of action.

G. Green Campus Policy of the University

The Aliah University, West Bengal, is committed towards creating an environmental friendly campus by addressing environmental issues through innovation and education. These responsibilities are implemented through reduce-reuse-recycle (3R) policy and can be demonstrated within the following areas:

- 1. Research sustainability: The University aims to address the major issues related to environment through research grant application, student projects, classroom projects etc.
- **2.** Education for sustainability: The University aims to foster an interdisciplinary learning environment to cultivate professionals who are environmentally aware. Campus initiatives will encompass awareness programs, informational displays, inclusion of course credits related to the environment in the curriculum, educational campaigns, competitions, awards, and the promotion of environmental literacy across various disciplines.

- 3. Governance and administration: The University will persist in its Green Campus Initiative by collaborating with or assembling a network of stakeholders to tackle environmental concerns. It will advocate for paperless administrative practices to diminish reliance on natural resources. Additionally, the University will sustain its commitment to educating about disaster preparedness, identifying environmental hazards, and encouraging landscaping with green vegetation
- **4.** Energy, carbon and climate change: The University aims to reduce dependence on fuel energy, at least 20% of total consumption within 5 years, and generate electricity derived from renewable sources like solar energy. The University will continue to encourage commuting by bicycle and using e-vehicle within campus to reduce vehicular emission. The University will promote a noise-free campus.
- 5. Water use: The University aims to optimize recycling of waste water to reclaim maximum water for reuse. The University will implement rainwater harvesting/ groundwater recharge and promote biodiversity associated with pond ecosystem.
- 6. Material flows: The University aims to manage / reduce / reuse/ disposal of solid waste into categories, municipal solid waste, construction and demolition, biodegradable waste, plastic waste, hazardous waste, e-waste, etc.

H. Measurement and Monitoring of Green Campus

The University shall measure the Green initiative through internal and external evaluations, e.g.

- 1. Green Audit
- 2. Energy Audit
- 3. Creating action plan for implementing and monitoring progress towards goals
- 4. Education and Outreach activities.

