GREEN AUDIT REPORT

Academic Year 2022 - 2025

EARTH WATER AIR LIGHT SPACE

Army Institute of Education

Greater Noida, Uttar Pradesh

Prepared by

GREEN MENTORS
Powered by Law of Nature
Special Consultative Status with the
Economic and Social Council of United Nations from 2021

AUDITOR'S VIEW

A Green University or College is an educational institution that meets its need for natural resources – such as energy, water, and materials – without compromising the ability of people and future generations to meet their own needs.

Green Mentors (having special consultative status with the Economic and Social Council (ECOSOC) of the United Nations) is proud to present the Green University Audit Report & Accreditation Certificate to the Army Institute of Education, Greater Noida, Uttar Pradesh.

This report is prepared based on information provided by the AIE Green Auditing Team to address the Five Elements of Nature and minimize the impact on the local environment through education and incorporating sustainability in the teaching-learning Practices.

- **PRITHVI (Earth)** - Biodiversity Landscaping & Built-up Space
- **JAL (Water)** - Water Management Practices
- **VAYU (Air)** - Air Quality Level within the Campus
- **AKASH (Sky)** - Application of Sustainable Technologies
- **AGNI (Energy)** - Energy Management Practices

Green University or College Auditing and Accreditation is a Set of Global Indicators of Sustainability for assessing Green Learning Spaces, including Governance & Academic, Building Design & Landscaping, Water Management Practices, Energy Uses & Saving Practices, Air Quality Level, Health & Hygiene Practices & Sustainable Resource Utilization.

Each Green University or College Auditing & Accreditation Indicator is, in turn, measured against a set of the Global Standard for sustainable learning spaces auditing and accreditation.

Green Mentors is proud to declare that AIE has achieved **422** Points out of **500** Points & earned Platinum Ranking in the Platinum Green University or College Accreditation Standards for the Period of Academic Year 2022-2025.

We are confident that AIE will emerge as a Green engine for the new paradigm of the "green economy," in short, AIE will contribute to the overall sustainability of the planet.

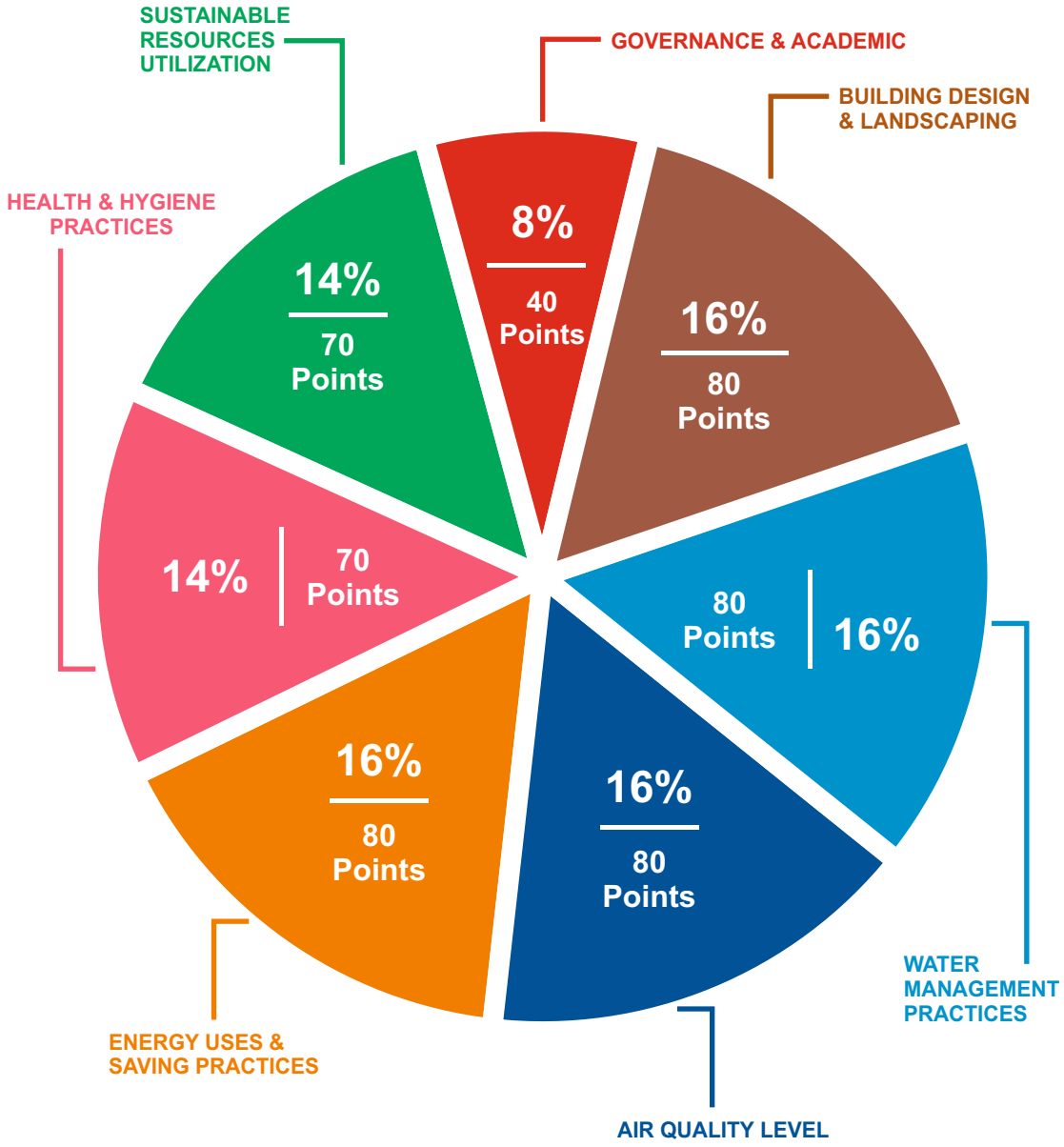
28-07-2022

Virendra Rawat
Director,
Green Mentors

GREEN MENTORS

GOOD FOR PUPIL & GOOD FOR PLANET

Sustainability Weightage of Assessment Areas



Certification Level

Rejection	Certification	Silver	Gold	Platinum
000-100 Points	100-200 Points	200-300 Points	300-400 Points	400-500 Points

ACCREDITATION CERTIFICATE

ACCREDITED GREEN UNIVERSITY
PLATINUM
2022-2025

EARTH WATER AIR LIGHT SPACE

EDUCATION INNOVATION HYGIENE SPACE TRANSPORT

ARMY INSTITUTE OF EDUCATION

Greater Noida, Uttar Pradesh

has successfully achieved the Green University Accreditation Standards, designed & defined by Green Mentors, & hereby Accredited as a

GREEN COLLEGE

in Platinum Ranking.

28-07-2022
Virendra Rawat
Director, Green Mentors

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GREEN MENTORS

GM/GA/2022/019/G1

This Certificate is issued on 28th July, 2022 & Valid till the Academic Year 2025

Introduction

Army Institute of Education (AIE) was established in Delhi Cantt to provide pre-service teacher education to the dependents of Army personnel under the aegis of the Army Welfare Education Society (AWES) in 2003. The Institute shifted to the Greater NOIDA campus from Delhi Cantt in 2013

Vision

To prepare intellectually competent, socially concerned, morally upright, and technically inclined teachers who act as catalysts to shape India's destiny.

Mission

Empower prospective teachers through a continuum of knowledge and wisdom by equipping them with the latest techniques assisted by technology.

Objectives

The objectives of the Institute are as follows:-

- To impart teacher training facilities to the wards/dependents of the Army personnel, including the war widows.
- To provide an environment to train economically affordable yet qualitatively superior teachers.
- To equip trainee teachers with skill-sets that enable them to integrate into the school system easily.
- To develop reflective practitioners in the teaching-learning process.
- To create compassionate teachers in social and emotional intelligence.
- To build on the qualities of National Integration, Tolerance, Justice, Fraternity, Liberty, and Equality in the trainee teachers.
- To inculcate spiritual values in teachers for their holistic development.
- To provide opportunities to explore and discover technology integration into the teaching-learning process.
- To acquire the knowledge, attitude, and skills about the needs of differently-abled learners in inclusive and special schools.

1. Governance

1 2 3 4 5 6 7 8 9 10

Statutes drive the Governance of AIE. The governing body of AIE is committed to its purpose, dedicated to serving all stakeholders' interests, including the environment.

Governing Body of AIE also follows well-informed decision-making, transparency in teaching-learning practices & accountability in the performance and use of human potential.

The top management of AWES consists of three tiers of command as follows:-

(I) Board of Governors and it is Executive Committee at Army Headquarters
(ii) Board of Administration at Headquarters Western Command
(iii) Institute Management Committee The decisions are taken at various levels.

The structure of decentralization as

i. Patron-in-Chief (GOC-in-C, Western Command), Chandimandir.
ii. Patron (GOC, Headquarter's Delhi Area)
iii. Chairman (COS Headquarter's Delhi Area)
iv. Principal
v. Registrar
vi. Academic coordinators
vi. Faculty Members
vii. Office Staff Practice of distributed leadership.

Academic coordination through batch coordinators. Course in charge, club/house/ committee in charge, and student representatives execute the academic, curricular, and co-curricular tasks.

The Institute management committee looks after the day-to-day administration of the institution. IMC consists of the COS Delhi area Major General Alok Kacker as the chairman of the Institute; the Principal, Registrar, and Staff members are also part of the IMC.

2. Leadership

1 2 3 4 5 6 7 8 9 10

The AIE's Principal plays a pivotal role in making the AIE a Responsible Institution. She has nurtured many successful leaders through quality & responsible Education. She is a lifelong learner and constantly makes efforts toward building the nation through responsible Education.

Dr. Abhilasha Gautam, the Principal of AIE, is passionate about her vision and plans to make AIE a leading responsible Academic Institution.

Leadership

Dr. Abhilasha Gautam
Principal

Dr. Abhilasha Gautam is an insightful academician with an experience of more than ten years in the field of Education.

She has also served as Principal to Teacher Education College affiliated with GGSIP University, New Delhi, for two years. She is a Master's in English, Masters in Education & M.Phil. (Education).

She is JRF-NET in Education and has completed her Ph.D. (Education) from IGNOU as a full-time Research Scholar.

She is a Life Skills Expert and Psychology Enthusiast. She has an excellent track record of research success with multiple published articles in reputed National and International journals. She also contributed chapters in the books and has developed content for IGNOU.

GOVERNANCE & ACADEMIC

As a presenter, she has actively participated in many National and International Seminars, Webinars, and FDPs.

To her credit, she has edited one book, Language Across the Curriculum. In addition, she has been awarded 'Uchch Shiksha Sewa Sammaan' by Swarnim Bharat Nirman, Swami Sehjanand Saraswati Kisan Soochna Kendra for her contribution to the research.

D D Bharti Network honored her with 'Shikshak Gaurav Sammaan' for her literature and Education contribution. Along with teaching, she has been associated with multiple NGOs like Balrakshak Pratishthan and RJSTJAPS KBSK to promote Education, Literature, Culture, and Positive Thoughts.

3. Sustainability Commitment

1 2 3 4 5 6 7 8 9 10

AIE firmly accepts the" accountability to the future"—a unique role and a special responsibility in confronting the challenges of climate change and sustainability.

The vision of AIE is rooted in its shared responsibility to build and operate a campus that contributes to the well-being of every member of its community—and ultimately to the planet's health.

The Eco club of AIE creates a clean & green consciousness among students and sensitizes them about their environment.

Eco Club also undertakes various activities to imbibe habits & lifestyles for minimum waste generations & familiarize students with environment-friendly practices for sustainable development.

GOVERNANCE & ACADEMIC

List of - Teaching Staff

Sr. No.	Designation	Name
1	Principal	Dr. Abhilasha Gautam
2	Assistant Professor	Dr. Babita Bhardwaj
3	Assistant Professor	Ms. Kriti Guleria
4	Assistant Professor	Dr. Jyoti Tiwari
5	Assistant Professor	Ms. Ritika Guliani
6	Assistant Professor	Mr. Yogesh Kumar
7	Assistant Professor	Ms. Neetu gupta
8	Assistant Professor	Dr. Azkia Khan
9	Assistant Professor	Dr. Kavitha N Karun
10	Assistant Professor	Dr. Saloni Goel
11	Assistant Professor	Dr. Saidalavi Kundupuzhakkal
12	Assistant Professor	Ms. Juhi Bidhuri
13	Assistant Professor	Mr. Chintan Kapoor
13		Total

List of Non - Teaching Staff

Sr. No.	Designation	Name
1	Appt – Registrar & HOA	Col Abhay Rajvanshi (Retd)
2	Appt – Office Superintendent	Ex Sub Sataya Pal Singh
3	Appt - Warden Girls Hostel	Ms. Kusum Mishra
4	Appt – Librarian	Ms. Kajal Jadaun
5	Appt - Cmptr Lab Atdt	Mr Manoj Kumar
6	Appt - Science Lab Atdt	Mr Aslam Khan
7	Appt – Accounts Supervisor	Ex Sub Harish Gangwar
8	Appt – Estate Supervisor	Ex Sub Anil Kumar
9	Appt – UDC (University Clerk)	Mr. Indrapal
10	Appt - Lib Atdt	Mr Jitender Kumar
10		Total

List of Programs

B.Ed.	B.Ed. Programme & Course Outcomes
B.Ed. Spl. Ed. (LD)	B.Ed. Spl. Ed. (LD) Programme & Course Outcomes

GOVERNANCE & ACADEMIC

4. Innovative Practices

1 2 3 4 5 6 7 8 9 10

Innovation is an application and implementation of creativity; thus, creativity and innovation are inseparably related, which reflects their complementarity in providing what is new and adding value.

Innovation drives Post Graduate Programs of AIE. HoDs of various departments bring innovation into learning opportunities through collaboration with exceptional researchers, innovators & entrepreneurs.

Cumulative Score	37/40

BUILDING DESIGN & LANDSCAPING

1. Local Building Regulations

1 2 3 4 5 6 7 8 9 10

Green building laws and codes in our country are voluntary. A green building uses less water, optimizes energy efficiency, conserves natural resources, generates less waste, and provides healthier spaces for occupants than a conventional building.

Built-up learning spaces of AIE Greater Noida meet all local building laws.

BUILDING DESIGN & LANDSCAPING

2. Top-Soil Preservation

1 2 3 4 5 6 7 8 9 10

Topsoil is the uppermost layer of soil capable of growing and supporting vegetation. TopSoil conservation prevents erosion from losing the top layer of the ground : Over-acidification, salinization, or other chemical soil contamination reduces soil fertility.

AIE has taken many proactive measures toward topsoil conservation on the Campus. For Example, regular aeration that allows nutrients to reach the roots of plants, filling the holes created by aeration, indigenous gardening, building wind barriers, mulching, and placing stepping stones for walkers on topsoil.

BUILDING DESIGN & LANDSCAPING

3. Eco-Friendly Commuting Practices

1 2 3 4 5 6 7 8 9 10

AIE encourages its students & professors to adopt environment-friendly transport to minimize the environmental impact of automobile use. In addition, Institute offers residential facilities to its students, few faculties, and non-teaching staff that minimizes the ecological impact.

Mode of Transportation	Walking	Bicycle	Motorcycle	Car	University Bus	Public Transport	Total
Students	153	-	6	-	-	6	165
Teachers	6 (5 faculty + 1 Principal)	-	-	2	-	2	11
Non-Teaching Staff	12	-	-	-	-	-	12

BUILDING DESIGN & LANDSCAPING

4. Parking Facility

1 2 3 4 5 6 7 8 **9** 10

AIE has ample parking space, including sustainable paving materials, energy-efficient or natural lighting, renewable energy sources, and improved pedestrian walkways.

BUILDING DESIGN & LANDSCAPING

5. Greenery in Campus

1 2 3 4 5 6 7 8 9 10

Maintaining a rich diversity of plants is vital to stable and healthy ecosystems as they provide food, shelter, and other essential components of habitat for wildlife.

Interaction with greenery can improve human stress reduction, emotional states, and cognitive function.

AIE has maximized greenery on its Campus, including community gardens, parks, meadows, green roofs, playing fields, and wetlands, supporting well-being and education outcomes.

AIE houses various trees, plant grass, shrubs & herbs, i.e., Hibiscus, Caryota Urens, Neem, Blackboard Tree, Ashoka, Keekar, Curry Plant, Mint, Holy Basil(Tulsi), Fennel, Aloe Vera, Fenugreek, Murraya Koenigi, Carissa Caran das, Syzgium Aromaticum, etc.

BUILDING DESIGN & LANDSCAPING

S.No.	Botanical Name	Family	Common Name	Total
1	Mangifera indica	Anacardiaceae	Mango	32
2	Araucaria heterophylla	Araucariaceae	Christmas Tree	17
3	Arecaceae	Arecaceae	Palm	14
4	Hyophorbe lagenicaulis	Arecaceae	Bottle Palm	13
5	Roystonea regia	Arecaceae	Cuban royal palm	2
6	Phoenix sylvestris	Arecaceae	Badela Palm	2
7	Terminalia bellirica	Combretaceae	Bahera	8
8	Platycladus orientalis	Cupressaceae	Oriental thuja	16
9	Saraca asoca	Fabaceae	Ashoka	72
10	Dalbergia sissoo	Fabaceae	Sissu / Tali	28
11	Vachellia nilotica	Fabaceae	Kikar	19
12	Cassia fistula	Fabaceae	Golden shower tree	13
13	Delonix regia	Fabaceae	Royal Poinciana	3
14	Tamarindus indica	Fabaceae	Tamarind	1
15	Tectona grandis	Lamiaceae	Sagwan	25
16	Punica granatum	Lythraceae	Pomegranate	1
17	Chukrasia velutina	Meliaceae	Chukrasia tabularis	23
18	Azadirachta indica	Meliaceae	Neem	27
19	Melia azedarach	Meliaceae	umbrella tree	21
20	Toona ciliata	Meliaceae	Tun	1
21	Morus alba	Moraceae	White mulberry	27
22	Ficus religiosa	Moraceae	Peepal	17
23	Ficus virens	Moraceae	White Fig	16
24	Ficus elastica	Moraceae	Rubber Plant	7
25	Moringa oleifera	Moringaceae	saujana	2
26	Syzygium cumini	Myrtaceae	Jamun	55
27	Psidium	Myrtaceae	Gauva	50
28	Eucalypts	Myrtaceae	Safeda	26
29	Syzygium Aromaticum	Myrtaceae	Clove	3
30	Pongamia Pinata	Papilionaceae	Indian Beech tree	11
31	Phyllanthus emblica	Phyllanthaceae	Gooseberry	19
32	Bambusoideae	Poaceae	Bamboo	2
33	Grevillea robusta	Proteaceae	Silver Oak	50
34	Ziziphus mauritiana	Rhamnaceae	Ber	10
35	Prunus persica	Rosaceae	Pears	20

BUILDING DESIGN & LANDSCAPING

S.No.	Botanical Name	Family	Common Name	Total
36	Pyrus pyrifolia	Rosaceae	Nakh	20
37	Prunus bokharensis	Rosaceae	Aloo Bukhara	8
38	Rosa	Rosaceae	Rose	70
39	Citrus limon	Rutaceae	Lemon	23
40	Citrus limetta	Rutaceae	Mausambi	8
41	Murraya koenigii	Rutaceae	Curry Leaf	2
42	Aegle marmelos	Rutaceae	wood apple	1
43	Gmelina arborea	Rutaceae	Beechwood	1
44	Populus	Salicaceae	Poplar	35
45	Litchi chinensis	Sapindaceae	Litchi	11
46	Mimusops elengi	Sapotaceae	Maulsari	30
47	Madhuca longifolia	Sapotaceae	Mahua/ Indian Butter Tree	14
48	Manilkara zapota	Sapotaceae	Chiku/Sapodilla	11
49	Vitis Vinifera	Vitaceae	Kismish/Raisins	29
50	Ficus benjamina	Fig family	Faux	50
51	Bugal Bael	–	Bugal Bael	25
52	Dakein	–	Dakein	10
53	Citrus Reticulata	Rutaceae	Kinnow	17
54	Sukhmani	–	Sukhmani	29
55	Faux Black Kina	–	Faux Black Kina	22
56	Ficus Benghalensis	Moraceae	Barota	16
57	Badelia Kandia Flower	–	Badelia Kandia Flower	10
58	Momesia	–	Momesia	10
59	Rakh Manjan	–	Rakh Manjan	9
60	Red Faux	–	Red Faux	8
61	Mimusops	Sapotaceae	Sari	7
62	Flower Faux	–	Flower Faux	6
63	Needi	–	Needi	6
64	Ajmohar	–	Ajmohar	5
65	Green Fax	–	Green Fax	3
66	Faux (White)	–	Faux (White)	2
67	Gul Lakkar	–	Gul Lakkar	1
68	Tarbeni	–	Tarbeni	1
		Total		1153

BUILDING DESIGN & LANDSCAPING

6. Minimize Heat Exposure to Sun: Non-Roof

1 2 3 4 5 6 7 8 9 10

AIE has Campus houses 1153 trees and plants in 15.34 acres of area, restricting impervious surfaces from sun exposure to minimize the impact on the microclimate on the Campus.

BUILDING DESIGN & LANDSCAPING

7. Minimize Heat Exposure to Sun: Roof

1 2 3 4 5 6 7 8 9 10

AIE has planted trees strategically that provide shade to the roof in summer; when the leaves fall, the trees allow the Sun to shine through, creating a desired solar heat gain effect during the winter.

Most of the roof area is covered with tiles & paint that reduce the concrete surface exposed to the Sun and minimize the impact on the microclimate on the Campus.

BUILDING DESIGN & LANDSCAPING

8. Universal Design

1 2 3 4 5 6 7 8 9 10

Universal Design for Learning (UDL) is an approach to teaching and Learning that gives all students equal opportunity to succeed. The goal of UDL is to use various teaching methods to remove barriers to Learning. It's about building flexibility that adjusts every person's strengths and needs.

Learning spaces at AIE facilitate differently-abled pupils. Designated Rest Rooms are also available for differently-abled Students; the facility of Hindrance-free movement is available in common areas.

Cumulative Score	76/80

WATER MANAGEMENT PRACTICES

1. Rainwater Harvesting: Roof & Non-Roof

1 2 3 4 5 6 7 8 9 10

The Earth's surface is acquired by 71% with water; only 3% of water is available as potable water. Nowadays, water conservation is a fundamental principle of a green campus.

AIE has a well-designed rainwater harvesting system on the Campus that enhance the groundwater table and reduces potable water usage.

AIE captures the maximum run-off volume of rainwater from Roof & Non-Roof areas.

The rainwater harvesting system in AIE consists of the following components:

1. the catchment from where water is captured and stored or recharged,
2. conveyance system that carries the water harvested from the catchment to the storage/recharge zone,
3. first, flush that is being used for flushing out the first spell of rain,
4. filter used to remove pollutants,
5. Storage tanks and various recharge structures

- Recharge Wells are placed in the campus. Complete run off of roof top runs into recharge well.
- Average normal rainfall/ day in your area....735.0 mm
- Amount of water that University harvested (Run-off volume)

WATER MANAGEMENT PRACTICES

Run-off coefficients for Typical Surface Types

Sr. No.	Surface Type	Coefficient
1	Cemented / Tiled Roof	0.9
2	Roof Garden (<100 mm thickness)	–
3	Roof Garden (100 – 200 mm thickness)	–
4	Roof Garden (201 – 500 mm thickness)	–
5	Turf, Flat (0 – 1% slope)	–
6	Turf, Average (1 - 3% slope)	–
7	Turf, Hilly (3 - 10% slope)	–
8	Vegetation, Flat (0 - 1% slope)	0.25
9	Vegetation, Average (1 - 3% slope)	–
10	Vegetation, Hilly (1 - 3% slope)	–
11	Concrete Pavement	0.8
12	Gravel Pavement	–
9	Open-grid Concrete Pavement	–
14	Open-grid Grass Pavement	–
15	Water Body	–
16	Playground	0.25

Rain Water Harvesting Calculation

Sr. No.	SURFACE TYPE	Coefficient (c)	Area (m2) (a)	Impervious area (m2)
1	Tiled Roof	0.9	2419	2177
2	Play ground	–	–	–
3	Turf, Flat (0-1% slope)	0.25	5451.5	1363
4	Vegetation, Average (1-3% slope)	–	–	–
5	Open Grid Pavement	0.8	3315	2652
6	Water Body	–	–	–
	Total impervious area in sq.m. ($\sum$ I)			6192
	Average normal rainfall in m(R)			0.735 m
	Total roof and non-roof run-off volume in cu. m ($\sum$ I×R)			4551 cm
	Storage capacity of pond/ tank etc.in cu.m			–
	Percentage (%) of run-off volume harvested			100%

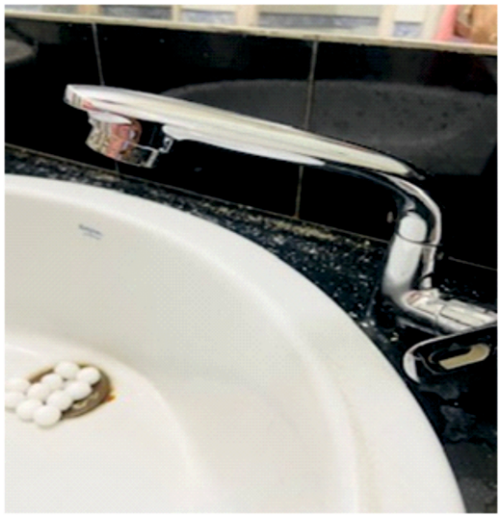
WATER MANAGEMENT PRACTICES

2. Water Efficient Plumbing Fixtures

1 2 3 4 5 6 7 8 9 10

AIE has initiated responsible use of freshwater practices in academic and hostel areas to reduce potable water consumption in drinking Water Points, face washing points, urinals, and toilets to reduce water flow rate in daily use.

Most of the plumbing fixtures are low flow without hammering the performance. Plumbing fixtures have achieved water efficiency standards for the Green campus and are working correctly with no leaks or drips.



WATER MANAGEMENT PRACTICES

3. Turf Design

1 2 3 4 5 6 7 8 9 10

Turf is a significant component of the whole landscape in AIE, which meets functional and aesthetic expectations for the teaching-learning community while at the same time minimizing the impact of natural resources and the great environment.

The turf area of AIE has many drought-tolerant species in its total vegetated area that minimizes water consumption.

The institute is located on flat terrain and has 68.14% turf area

Type of vegetation	On Ground (Sq.m.)
Turf	5451.5 Sq.m

WATER MANAGEMENT PRACTICES

4. Water Efficient Landscaping

1 2 3 4 5 6 7 8 9 10

Most institutions in India use their maximum water for landscape and lawn irrigation, while a water-efficient landscape is functional, attractive, and easily maintained in its natural surroundings.

The whole Landscaping on the AIE campus is water-efficient, reducing water consumption through responsible irrigation practices and mulching.

The vegetated area of Campus contains drought-tolerant plant species, including trees, shrubs, herbs, climbers, and grass that require less water than other Species.

WATER MANAGEMENT PRACTICES

5. Water Efficient Irrigation System

1 2 3 4 5 6 7 8 9 10

AIE uses manual irrigation, an efficient irrigation system that keeps landscape plants healthy and beautiful. Instead of wetting the whole landscape, water is applied only to the plant root zone.

The primary goal of manual irrigation is to use water when plants need it most and at the rates required for proper plant growth.

WATER MANAGEMENT PRACTICES

6. Waste Water Treatment

1 2 3 4 5 6 **7** 8 9 10

AIE follows a minimum water discharge campus; therefore, water harvesting capacity meets the Campus's needs. Thus, the need for water treatment does not arise yet.

7. Use of Treated Waste Water

1 2 3 4 5 6 **7** 8 9 10

Since there is no water treatment plant, treated water is unavailable.

WATER MANAGEMENT PRACTICES

8. Water Use Monitoring

1 2 3 4 5 6 7 **8** 9 10

AIE has a standard water monitoring system with flow meters indicating daily, weekly, and monthly water uses in various facilities.

Water loss is prevented through real-time alerts of water overflow, leakages, and dripping, ensuring judicious use of Water Consumption.

AIE has 3 bore wells in place for monitoring of water consumption.

Cumulative Score	67/80

AIR QUALITY LEVEL

1. Tobacco Smoke Control

1 2 3 4 5 6 7 8 9 10

AIE is a Smoke-Free Campus; Implementing strict Anti Smoking Policies eliminates the exposure of students & teachers to tobacco smoke & reduces health impacts caused due to passive smoking.

AIR QUALITY LEVEL

2. Day Lighting

1 2 3 4 5 6 7 **8** 9 10

Indoor environmental conditions in classrooms and daylighting needs influence students' health, well-being, and performance. The intended use of daylight in classrooms has excellent potential for improving students' comfort and academic performance, simultaneously contributing to the rational use of energy in the building.

Maximum regular occupied spaces at AIE are daylit, & average daylight factor is maintained.

AIR QUALITY LEVEL

3. Fresh Air Ventilation

1 2 3 4 5 6 7 8 **9** 10

A sound ventilation system helps to expel a build-up of pollutants, bacteria, moisture, and unpleasant odors, such as body odor from the classroom.

Maximum regularly occupied spaces like Classrooms, Laboratories, Libraries & Indoor Game Facilities of AIE have adequate ventilation, improving the health and well-being of Students & Faculties.

AIR QUALITY LEVEL

4. Area of Class Room

1 2 3 4 5 6 7 8 **9** 10

All learning spaces, including classrooms of AIE, are well designed according to statuary standards and norms that follow appropriate occupant density, which enhances student productivity.

No.	Category	No. of students per classroom	Minimum grass area of the class room in m2/student
1	Post Graduate	–	–
2	Under Graduate	40	1.6
3	Post Graduate	–	–

AIR QUALITY LEVEL

5. Anthropometric Dimensions in spaces

1 2 3 4 5 6 7 **8** 9 10

Anthropometry has considerable importance in optimizing the design of buildings. The underlying principle of anthropometrics is that building designs should suit the human body, rather than people having to adapt to suit the facilities.

Anthropometric dimensions of learning spaces aim to create safe, comfortable, and productive learning spaces by bringing human abilities and limitations into the designing of building, including the individual's body size, strength, skill, speed, and sensory abilities (vision, hearing) and even attitudes.

Maximum learning spaces of AIE, including Classrooms, Laboratories, Libraries & Indoor Game Facilities, Toilets, and Hostels & Canteen, are designed according to standard anthropometric dimension norms that allow comfort to the students.

AIR QUALITY LEVEL

6. Toxin-free Environment

1 2 3 4 5 6 **7** 8 9 10

The governing body of AIE has declared the policy to use material with low emissions, predominantly Paints, to reduce adverse health impacts on the students and teachers.

7. Dust - Free Environment

1 2 3 4 5 6 **7** 8 9 10

The governing body of AIE has declared the policy to use Dust Free Products, including Chalks & other materials, to reduce adverse health impacts on the Students and Faculties.

AIR QUALITY LEVEL

8. Exhaust Systems

1 2 3 4 5 6 7 **8** 9 10

All Toilets, Urinals, Canteens & Laboratories associated with learning and residential facilities at AIE have exhaust fans that maximize airflow & enhance the Indoor Air Quality.

Cumulative Score	66/80

ENERGY USES & SAVING PRACTICES

1. Ozone Depleting Substances

1 2 3 4 5 6 7 8 9 10

Ozone-depleting substances are chemicals that destroy the Earth's protective ozone layer. Therefore, AIE has procured refrigerators and air conditioners, fire extinguishers, foam, and aerosol propellants that have minimum impact on Ozone Layer Depletion.

ENERGY USES & SAVING PRACTICES

2. Energy Efficient Lighting Fixtures

1 2 3 4 5 6 7 8 9 10

Natural light is the best solution for reading or studying. Therefore, AIE has as much natural light as possible to get the best learning outcome.

Energy-efficient lighting includes using more illumination from fewer power lights by replacing high power consumption lights like incandescent, high discharge lamps.

LED lighting provides a safe, secure & energy-efficient environment on Campus at all times. LEDs also reduce the cost of operation while satisfying the needs of faculty members and students who can appreciate the benefits of eco-friendly solutions.

LEDs also provide outstanding durability in environments that can place an incredible amount of stress on light bulbs and lighting fixtures, such as a university campus.

Due to the high-quality energy efficiency, LED lighting allows universities to save significant money on repairs, operating, and maintenance costs. In addition, when compared to a traditional light bulb, LED light bulbs to consume less than half the energy of the conventional light bulb.

AIE has installed LED Lightening & Fixtures instead of old Lightning, which reduces the environmental impacts associated with energy use.

BASE CASE SCENARIO - Lighting Fixtures Number of working days(n)						
Location	Carpet area (sq.m)	Number of fixtures (f)	Luminaire capacity (kW)	Operating hours(hr)	Energy consumption by lighting fixtures in a day (kWxhrxf)	Total energy consumption by lighting fixtures in an entire year (WxHrxfxn)
Classrooms	114.5 sq.m	29	20	3	1740	4,24,560
Labs		29	20	3	1740	4,24,560

ENERGY USES & SAVING PRACTICES

ENERGY USES & SAVING PRACTICES

3. Energy Efficient Fans

1 2 3 4 5 6 7 8 9 10

AIE has installed Energy-efficient Fans and Air Conditioners instead of High Energy Consuming Fans and Air conditioners, reducing the environmental impacts associated with energy use.

ENERGY USES & SAVING PRACTICES

4. Energy Efficiency in Appliances & Equipment

1 2 3 4 5 6 7 8 9 10

Modern electronic appliances, such as freezers, ovens, stoves, dishwashers, clothes washers, and dryers, use significantly less energy than older appliances. Installing STAR-rated electronic devices reduces energy consumption.

AIE has replaced energy-efficient Electronic Appliances & Equipment instead of High Energy Consuming Appliances, reducing the environmental impacts associated with energy use.

ENERGY USES & SAVING PRACTICES

5. Energy Sub-Metering

1 2 3 4 5 6 7 8 9 10

AIE practices continuous monitoring of energy use through sub-metering and aspirate metering of each learning space, residential and open spaces throughout the year towards achieving judicious use of energy, which inspires the teaching-learning community to save the power in their day-to-day services.

ENERGY USES & SAVING PRACTICES

6. On-Site Renewable Energy

1 2 3 4 5 6 7 8 9 **10**

AIE is about to install a 100 KW on-site renewable energy plant; that will make AIE 100% renewal; however, it encourages the student community to save energy to minimize the environmental impacts of using fossil fuels.

7. Solar Water Heating Systems

1 2 3 4 5 6 **7** 8 9 10

The AIE has a solar water heating system in its residential facilities to minimize the environmental impacts of using fossil fuels.

8. Distributed Power Generation

1 2 3 4 5 6 7 **8** 9 10

AIE has a well-designed power distribution system that allows power supervisors to monitor the power supply according to the reasonable need of the users.

Cumulative Score	67/80

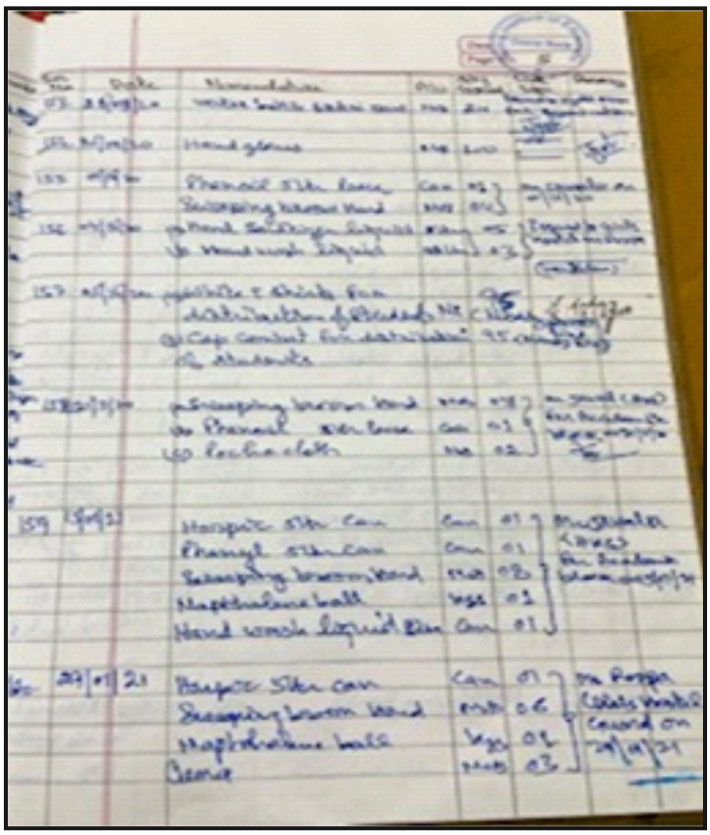
HEALTH & HYGIENE PRACTICES

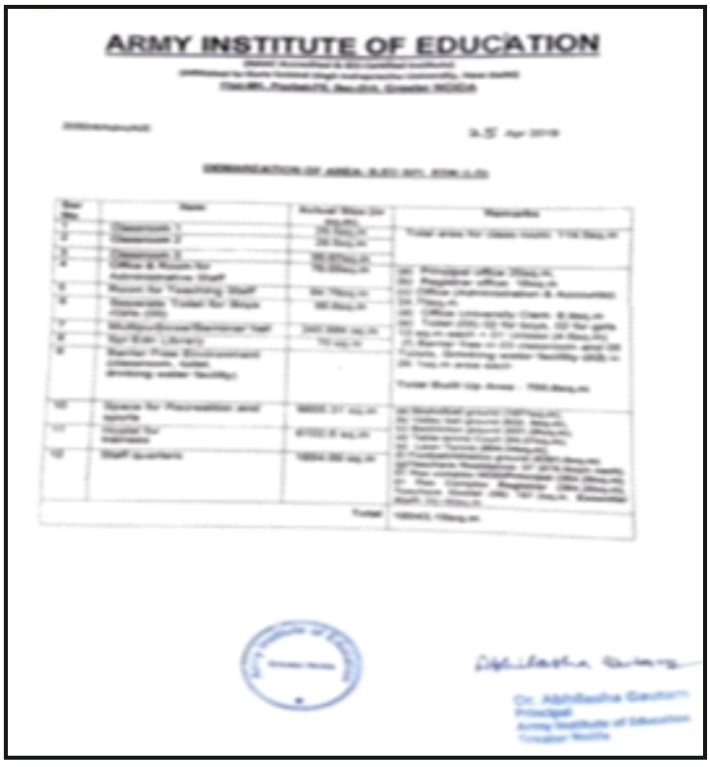
1.Toilet Facilities

1 2 3 4 5 6 7 8 9 10

AIE has its dedicated Hygiene & Cleanliness staff, which regularly maintains Hygiene & Cleanliness standards in all toilets, reducing the infection risk to students' and teachers' health & well-being.

HEALTH & HYGIENE PRACTICES





ARMY INSTITUTE OF EDUCATION

HEALTH & HYGIENE PRACTICES

2. Drinking Water Facility

1 2 3 4 5 6 7 8 9 10

Filtered water is available at all drinking water stations & tapes are maintained at AIE Campus. In addition, the government-authorized laboratories check Water Quality Reports regularly to ensure Clean & Safe Drinking Water at all times to everyone.

HEALTH & HYGIENE PRACTICES

3. Access to Healthy Food

1 2 3 4 5 6 7 8 9 10

Healthy food plays a vital role in individuals' optimal growth, development, health, and well-being in all stages of life. Therefore, healthy and nutritious foods are accessible to all students & teaching staff at the Canteen of AIE maintains the fitness of the teaching-learning community.

The professional team of cooking provides the food on Campus. Junk Food is not allowed on Campus.

Form C
Government of Uttar Pradesh
Department of Food Safety and Drug Administration
Food Safety and Standards Authority of India
License under FSS Act, 2006

अनुज्ञप्ति संख्या / License Number: **12722055000298**

1.	Name & Registered Office address of Licensee / अनुज्ञप्तिधारी के पंजीकृत कार्यालय का नाम और पता:	M/s FRESHIUS FOODS Army Institute of Management & Technology Plot no-M 1, Pocket- P5, Greater Noida , Gautam Buddha Nagar , Uttar Pradesh-201306
2.	Address of Authorized Premises / प्राधिकृत परिसरो का पता:	Army Institute of Management & Technology Plot no-M 1, Pocket- P5, Greater Noida , GautamBudh Nagar Tahsil-I, Gautam Buddha Nagar , Uttar Pradesh-201306
3.	Kind of Business / कारोबार का प्रकार:	Food Services - Club/Canteen
4.	Dairy Business Details / डेयरी कारोबार विवरण हेतु :	No
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Place / स्थान: Gautam Buddha Nagar **Designated Officer**
Issued On / दिनांक: 04-04-2022 (New License)
Valid Upto: / वैधता: 03-04-2023 (For details, refer Annexure)

Annexures:
1. Product Annexure
2. Validity Annexure
3. Non-Form C Annexure
4. Conditions Of License

Note:

1. **Application for renewal of License can be filed as early as 180 days prior to expiry date of License. You can file application for renewal or modification of License by login into FSSAI's Food Safety Compliance System(https://foscos.fssai.gov.in) with your user id and password or call us at 1800112100 for any clarification.**
2. **This License is only to commence or carry on food businesses and not for any other purpose.**
3. **This is computer generated license and doesn't require any signature or stamp by authority.**

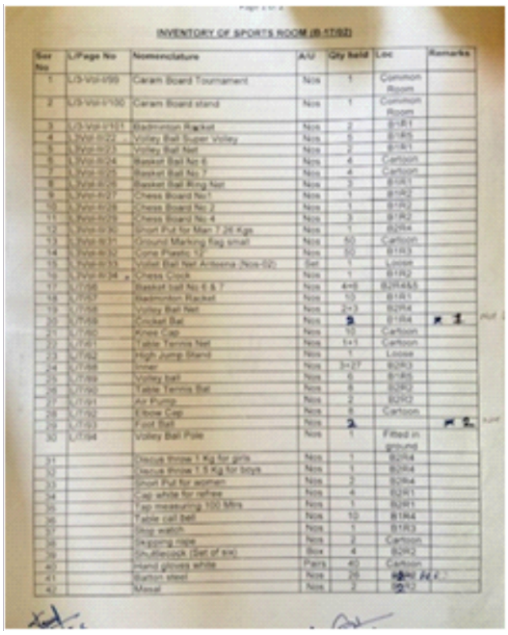
4. Sports Amenities

1 2 3 4 5 6 7 8 9 10

AIE offers various sporting opportunities to its undergraduate and postgraduate students. All Indoor & Outdoor sports amenities at AIE help students achieve excellence in sports to enhance their growth and health.

List of Courts/Ground available for sports

S.No.	Sports	
1.	Basketball court	2
2.	Volleyball court	2
3.	Badminton Court	2
4	Common Ground (for Football, Cricket, Hockey)	1



HEALTH & HYGIENE PRACTICES

5. Dedicated Playground

1 2 3 4 5 6 7 8 **9** 10

AIE has dedicated Sports Amenities for Basketball, Volleyball, Table-Tennis, Badminton, Chess, and Carom, while facilities for other sports are shared to minimize the impact on the environment

S.No.	Sports	Quantity	size
1.	Basketball court	2	29m X 15m
2.	Volleyball court	2	18m X 9m
3.	Badminton Court	2	13.4m X 6.1m
4	Common Ground (for football, cricket, Hockey)	1	

HEALTH & HYGIENE PRACTICES

6. Organic Fertilizers and Pesticides

1 2 3 4 5 **6** 7 8 9 10

AIE uses Organic Fertilizers and Pesticides to reduce Health impacts on Students and Faculties. Composting pits prepares enough fertilizers for the entire vegetated area.

7. Green Housekeeping

1 2 3 4 5 **6** 7 8 9 10

AIE uses environment-friendly cleaning products to clean its Learning & residential spaces. Eco-friendly Cleaners are also used to clean the toilets and drinking water Stations to prevent chemical-related Health hazards.

Cumulative Score	58/70

SUSTAINABLE RESOURCES UTILIZATION

1. Waste Segregation

1 2 3 4 5 6 7 **8** 9 10

AIE has a well-planned waste segregation mechanism. Waste generated through various sources and practices is being segregated safely & sent to recycling & composting sites or authorized recyclers safely, preventing debris from being sent to landfills.

SUSTAINABLE RESOURCES UTILIZATION

2. Organic Waste Management

1 2 3 4 5 6 7 8 9 10

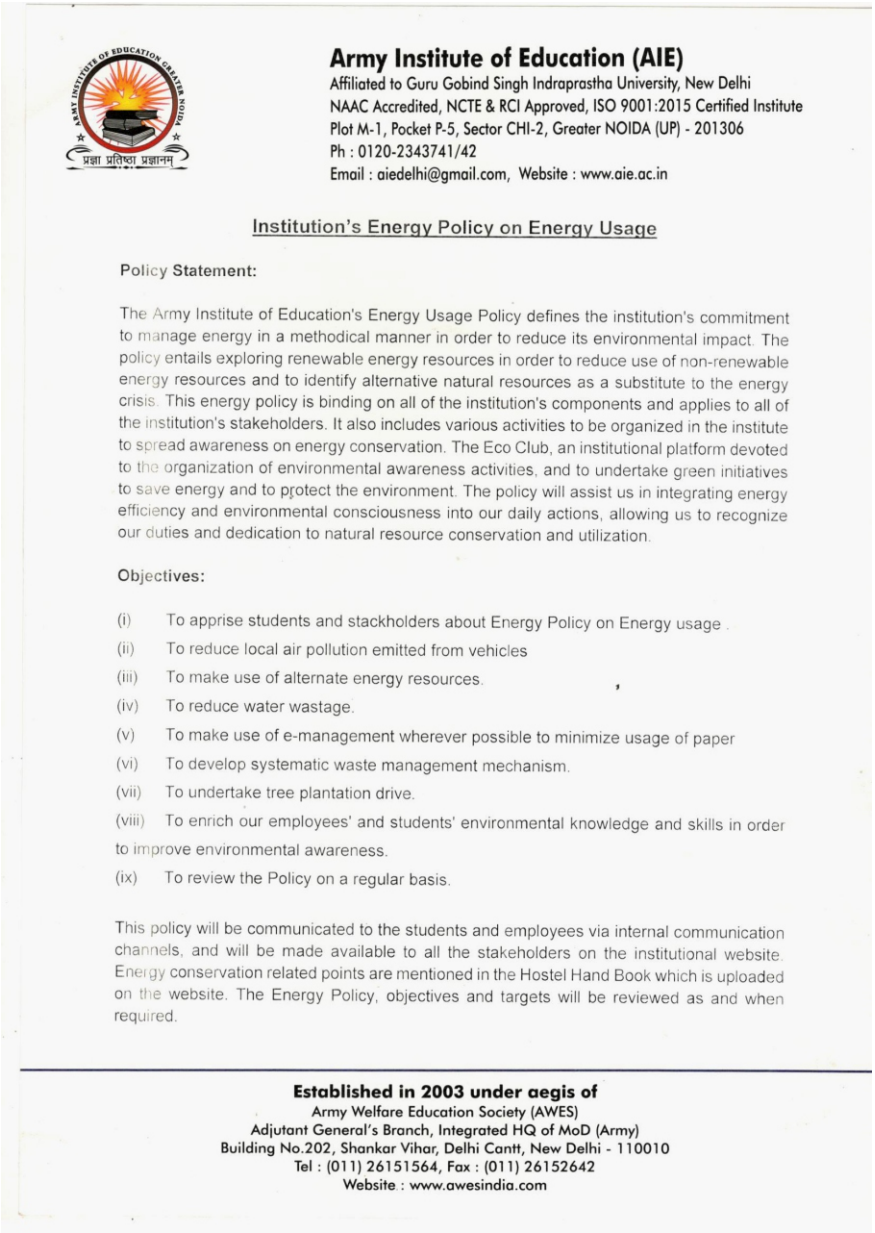
Since AIE has adopted the philosophy of "reduce - reuse – recycle," all organic waste goes to various composting and Vermicomposting facilities that make waste a resource and prevent the trash from being sent to landfills.

SUSTAINABLE RESOURCES UTILIZATION

3. Green Policy

1 2 3 4 5 6 7 8 9 10

AIE has framed a broader Green Policy that inspires its teaching-learning community to take responsibility for the future through their behavior toward nature and natural resources.



Army Institute of Education (AIE)
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Institution's Energy Policy on Energy Usage

Policy Statement:

The Army Institute of Education's Energy Usage Policy defines the institution's commitment to manage energy in a methodical manner in order to reduce its environmental impact. The policy entails exploring renewable energy resources in order to reduce use of non-renewable energy resources and to identify alternative natural resources as a substitute to the energy crisis. This energy policy is binding on all of the institution's components and applies to all of the institution's stakeholders. It also includes various activities to be organized in the institute to spread awareness on energy conservation. The Eco Club, an institutional platform devoted to the organization of environmental awareness activities, and to undertake green initiatives to save energy and to protect the environment. The policy will assist us in integrating energy efficiency and environmental consciousness into our daily actions, allowing us to recognize our duties and dedication to natural resource conservation and utilization.

Objectives:

(i) To apprise students and stackholders about Energy Policy on Energy usage
(ii) To reduce local air pollution emitted from vehicles
(iii) To make use of alternate energy resources.
(iv) To reduce water wastage.
(v) To make use of e-management wherever possible to minimize usage of paper
(vi) To develop systematic waste management mechanism.
(vii) To undertake tree plantation drive.
(viii) To enrich our employees' and students' environmental knowledge and skills in order to improve environmental awareness.
(ix) To review the Policy on a regular basis.

This policy will be communicated to the students and employees via internal communication channels, and will be made available to all the stakeholders on the institutional website. Energy conservation related points are mentioned in the Hostel Hand Book which is uploaded on the website. The Energy Policy, objectives and targets will be reviewed as and when required.

Established in 2003 under aegis of
Army Welfare Education Society (AWES)
Adjutant General's Branch, Integrated HQ of MoD (Army)
Building No.202, Shankar Vihar, Delhi Cantt, New Delhi - 110010
Tel : (011) 26151564, Fax : (011) 26152642
Website : www.awesindia.com

SUSTAINABLE RESOURCES UTILIZATION

Implementation of Policy/Action Plan

Energy Conservation- Student teachers are apprised about Energy Policy on Energy usage at the commencement of the session during Orientation Programme. Various steps stated in the policy for energy conservation are as under:

(i) Environment-friendly vehicles, including bicycles, public transportation and use of pedestrian-friendly roads are used to reduce local air pollution emissions.

(ii) Solar panels for the generation of alternate energy are installed on boys' hostel.

(iii) Normal bulbs are replaced with LED bulbs in the complete campus to save energy. Energy Conservation message is displayed near switch boards. Temperature of room air conditioners is maintained at 26^0 Celsius.

(iv) Bicycle are used for commuting by support staff and resident faculty and faculty staying outside the campus use shared vehicles.

(v) To make use of e-management wherever possible to minimize usage of paper

(vi) Provision of Energy Conservation is clearly stated in Hostel Hand Book in Sr No. 19, 20, 40 &42.
http://www.aie.ac.in/Admission2021/Forms/AIE%20HOSTEL%20HANDBOOK%202021-22.pdf

Water Conservation- Steps taken for water conservation are as followed:

(i) Water released from RO is reused for watering the plants.

(ii) The water collected through rain water harvesting unit is used in gardening. Water sprinklers are used to water the plants to reduce wastage of water.

(iii) All the taps and tanks are regularly monitored to check any kind of leakage.

Ecological Balance- The campus is lush green spread in 2.92 acres of land. Following steps are taken to maintain ecological balance within the campus:

(i) Systematic waste management mechanism is adopted to segregate dry, wet, and e-waste waste. Cycle rickshaw is used for collecting and disposal of waste material.

(ii) Students and faculty participate in tree plantation drive. Herbal garden is also developed in which various medicinal plants are grown.

(iii) Eco Club organizes environment awareness activities to promote awareness related to Energy conservation among different sections of the society.

(iv) Vermicomposting developed near basketball ground helps to utilize kitchen waste from mess and other green waste into a rich, dark soil.

(v) The institute ensures environmental sustainability by diminishing the volume of waste sent to landfill and boost reuse and recycling wherever possible.

Army Institute of Education Greater Noida

Abhilasha Gautam
Dr Abhilasha Gautam
Principal

SUSTAINABLE RESOURCES UTILIZATION

4. Salvaged Materials

1 2 3 4 5 6 7 8 9 10

AIE makes new furniture & fixtures by using salvaged materials to reduce the dependence on virgin materials.

SUSTAINABLE RESOURCES UTILIZATION

5. Eco-friendly Wood Based Materials

1 2 3 4 5 **6** 7 8 9 10

AIE encourages using Certified Composite Wood to use Eco-friendly Wood-Based Materials towards conserving Forest Resources and reducing the dependence on virgin materials.

6. Materials with Recycled Content

1 2 3 4 5 **6** 7 8 9 10

AIE uses materials in its new construction sites and repairing spaces with recycled content like Concrete, Bricks, Fly ash Bricks, Aluminum Windows, and Glass & Tiles to reduce environmental impacts associated with the use of virgin materials.

7. Local Materials

1 2 3 4 5 **6** 7 8 9 10

AIE uses building materials locally to minimize the associated environmental impacts resulting from transportation to build its new facilities.

Cumulative Score	51/70

SUSTAINABILITY EVALUATION CHART

Sr. No.	Assessment Areas	Cumulative Score
1.	GOVERNANCE & ACADEMIC	37/40 ✓
2.	BUILDING DESIGN & LANDSCAPING	76/80 ✓
3.	WATER MANAGEMENT PRACTICES	67/80 ✓
4.	AIR QUALITY LEVEL	66/80 ✓
5.	ENERGY USES & SAVING PRACTICES	67/80 ✓
6.	HEALTH & HYGIENE PRACTICES	58/70 ✓
7.	SUSTAINABLE RESOURCES UTILIZATION	51/70 ✓
	Total	**422/500**

Certification Level

Rejection	Certification	Silver	Gold	Platinum
000-100 Points	100-200 Points	200-300 Points	300-400 Points	400-500 Points

GREEN MENTORS

Powered by Law of Nature

Special Consultative Status with the
Economic and Social Council of United Nations from 2021

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S.G. Highway, Ahmedabad - 380 015, Gujarat, India

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