# Details of policy and quality audits on environment and energy initiatives

S. No.	Description	Page No.
1	Policy documents	2-10
2	Green/ Environment/ Energy audit report	11-76
3	Certificate from the auditing agency	77-79
4	Certificate from the recognized agencies	80-83
5	Environmental promotional activities beyond the campus - List of activities & reports	84-98
6	Action taken and achievement report on green campus initiatives	99

# Policy Document on Energy Conservation Initiatives



# VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Approved by AICTE & Affiliated to JNT University, Kakinada Kapujaggarajupeta, VSEZ (POST), Visakhapatnam-530049

# VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

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

- To conserve resources within the campus.
- · To efficiently use the energy from all resources
- Tap renewable energy resources including solar energy.
- To conduct Energy Audit from time to time.

#### Infrastructural Initiatives:

#### Renewable Sources of Energy

#### Solar Power Plant

The institution believes in self sustainability and energy conservation. We have switched to cleaner sources of energy like solar energy to minimize the usage of electricity in the institution produced from non renewable resources. A 50kW Solar Power Plant has been installed on the rooftop.

#### Biogas Plant

To reuse the wastage from the canteen and tree litter, two 500 Litres Floating Type Biogas Plant has been installed. The gas produced from the Biogas Plant is used for cooking purpose at the canteen.

#### **Energy Saving and Energy Efficient Equipment**

#### Use of LEDs

To minimize the use of utilization of electricity and using cleaner sources of energy the institution is committed to install energy saving and user friendly alternatives like LED lights, CFLs of 20W and motion sensor based lights.

 The Institution uses Energy star rated appliances and sensor based equipment for the efficient use of power.

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# Policy Document on Degradable and Non-Degradable Waste Management



# VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Approved by AICTE & Affiliated to JNT University, Kakinada Kapujaggarajupeta, VSEZ (POST), Visakhapatnam-530049

#### POLICY ON WASTE MANAGEMENT

#### Objectives of the policy

- To manage waste effectively
- To minimize waste generation.
- To adopt waste management procedures.

#### Degradable and Non-degradable Waste Management

The institution committed is to reduce and manage waste generated on the campus. In order to ensure the protection of environment, the following specific procedures have been implemented.

- Systematically address the 3Rs of being green (reduce, reuse, recycle).
- Reduce solid waste by developing a technology-centric management model.
- Reduce paper consumption by supporting the digitalization of attendance records and Internal assessment records
- Reduce the need for printed books by updating e-books and e-journals.
- Encourage students and teachers to use online platforms for submission of assignments.
- Initiatives to raise awareness among students about food waste and ways to minimize it
- Minimize the use of packaged foods
- Reuse and recycle non-degradable products.
- Organize various programs for students on degradable and non-degradable waste management.

# 'S INSTITUTE OF ENGINEERING FOR WOMEN

Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

#### E-Waste Management

The e-waste Management policy is formed as per the needs of the Institute covering all electronic equipment devices and e-waste management operations.

#### **Objectives:**

- To minimize generation of e-waste at source
- To facilitate, reuse and recycle at the best of possibility
- Dispose the waste in a most effective cost economical manner
- To ensure safe handling and disposal of waste in campus

The Institute follows a proper disposal mechanism of e-waste of various types of electronic gadgets namely computers, printers, cables, mouses, cpus, keyboards etc.

They are sold to an authorized recycling agency by adhering to the norms and guidelines issued by Government and Regulatory bodies regarding to e-waste management

Wastage minimization is planned in the campus and appropriate measures have been taken to control and reduce the waste. The space is earmarked for safe storage of the e-waste before its proper disposal.

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# Policy Document on Green Campus



# VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Approved by AICTE & Affiliated to JNT University, Kakinada Kapujaggarajupeta, VSEZ (POST), Visakhapatnam-530049

# VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

#### Objectives of the Policy

Vignan's Institute of Engineering for Women (VIEW) accepts the moral responsibility in addressing the challenges of environmental sustainability and climate change. The Institute incorporated the institutional planning and budgeting procedures into its strategies and adopted best environmental friendly practices in the campus.

#### **Green Campus Initiatives:**

- Environment Clubs are established to conduct activities and create environmental consciousness in the campus.
- Periodic tree plantation campaigns are conducted in and around the campus besides distribution of saplings under NSS.
- Green auditsare also conducted regularly.
- To reduce CO2 emissions and make pollution free campus all the staff and students are advised to use bicycles and battery powered vehicles. Students and faculty are encouraged to use bicycles and E-rickshaws within the campus.
- To ensure that staff and students follow the rules of automobile No Zones, dedicated parkingslots are allotted to the two and four wheelers and the pedestrians are strictly instructed to walk only on the designated pathways.
- Various awareness programs are conducted on using jute bags or cloth bags to avoid the
  use of plastic carry bags.
- College bus transportation is suggested for the students and faculty to use with a
  concessional fee support from the management with the aim to reduce the dependency on
  personal vehicles and bring down the pollution.

#### Landscaping with trees and plants

The campus has 4723 square feet of lawn and more than 1000 trees. 2500 students and staff benefit from the clean, cool air that the trees and plants produce. A dedicatedgardener is assigned to protect and conserve green resources within the campus. The visual representation of the landscape with ornamental trees and plants within the campus provides a structured Green View and the loyalty towards sustainability. The Landscape manages runoffs, aids in recharging groundwater, ensuring clean and cool air creating a soothing environment in the campus.

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Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

# Policy Document on Water Conservation Initiatives



# VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Approved by AICTE & Affiliated to JNT University, Kakinada Kapujaggarajupeta, VSEZ (POST), Visakhapatnam-530049

#### POLICY ON WATER CONSERVATION

#### Objectives of the Policy

- To conserve water resources at the campus and preserve ground water recharge.
- To build awareness about water conservation among the staff and students.
- · To effectively manage waste water

# The institution has sought to implement water conservation measures at the campus.

- · Implementation of rain water harvesting methods such as harvesting pits
- Awareness programs on water conservation at the campus
- · Environmental practices for water conservation
- Use of water flow restrictors on bathroom faucets and showers & low water flow toilets and automated urinal flushers
- Waste water management at the student hostels and campus

Principal PRINCIPAL

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49



# **GREEN AUDIT REPORT**

Academic Year 2022 - 2025











# VIGNAN INSTITUTE OF ENGINEERING FOR WOMEN

Visakhapatnam, Andhra Pradesh





# **AUDITOR'S VIEW**

A Green University 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 Vignan's Institute of Engineering for Women, Visakhapatnam Andhra Pradesh.

This report is prepared based on information provided by the VIEW 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 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 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 VIEW has achieved **432** Points out of **500** Points & earned Gold Ranking in the Platinum Green University Accreditation Standards for the Period of Academic Year 2022-2025.

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

Virendra Rawat

Director,

Green Mentors

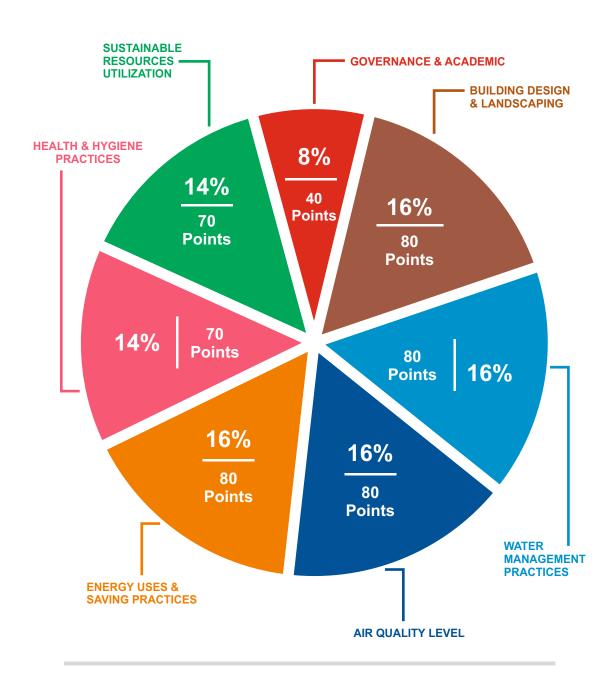


**GOOD FOR PUPIL & GOOD FOR PLANET** 





# **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















Visakhapatnam, Andhra Pradesh

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

# **GREEN UNIVERSITY**

in Platinum Ranking.



**GREEN MENTORS** 

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

This Certificate is issued on 27th April, 2022 & Valid till the Academic Year 2025













#### Introduction

Lavu Educational Society established Vignan's Institute of Engineering for Women (VIEW) in 2008 in the City of Destiny, Visakhapatnam, Andhra Pradesh.

VIEW is an AICTE Approved technical institution affiliated with the Jawaharlal Nehru Technological University (JNTUK).

VIEW offers five undergraduate programs, including 4 NBA accredited, and six post-graduate programs, including Management.

VIEW has excellent and consistent placement history of providing competent graduates to the companies, i.e., AMAZON, Microsoft CISCO, with the highest annual package of Rs. 19 Lakhs per annum.

Researchers of VIEW have completed about 30 lakh Reuppes research projects funded by various Government funding agencies such as DST.

The Institute is committed to its core values and expects all stakeholders to embrace them. Accordingly, it has zero tolerance for any deliberate violation of the core values.

The Institute has obtained ISO 9001:2015 certificates for its quality, ISO14001:2015 certificate for maintaining an excellent and pollution-free environment on the premises, and ISO 45001:2018 certificate for maintaining greenery across the whole premises.

VIEW is a pollution-free campus with more than 13,556.97 square meters of green cover housing approx 1,573 plants and trees.

VIEW actively participates in awareness rallies, plantation programs, and solid waste management activities. In addition, the institution has an association with Green Waves Organization for E-Waste management.

Rainwater harvesting pits, compost pits, and special food waste composts are available on the premises to reduce, recycle and reuse the resources.

VIEW has adopted five villages under Unnat Bharat Abhiyan and distributed cloth bags under the part of "Say No to Plastic" to propagate a plastic-free environment.

Institute has organized plantation programs in the Institute and the surrounding regions on world environmental day.

VIEW also conducted many awareness rallies like "SwachhSarvekshan" and "Save a Drop" in nearby villages under NSS. As a recognition of our efforts, JNTUK made the NSS unit of the institution a government-funded unit for the academic year 2021-22







#### 1. Governance



















Statutes drive the governance in VIEW. The governing body of VIEW is committed to its purpose, dedicated to serving all stakeholders' interests, including the environment. Governing Body of VIEW also follows well-informed decision-making, transparency in teaching-learning practices & accountability in the performance and use of human potential.

The institution has a well-defined and structured governance system headed by the governing body, which is an apex committee that oversees the institution's overall development and continuous growth in line with the established vision. The Governing body comprises eminent people from all spheres of life to bring in the necessary balance.

#### **About Governing Body**

Subject to the existing provision in the by-laws of the institution and the rules laid down by the state government, the governing body of the institution shall meet twice a year and has the power to:

- 1. Monitor overall development activities to realize the vision of the institution
- 2. Monitor and manage the financial sustainability of the institution based on the recommendations of the finance committee
- 3. Institute scholarships, fellowships, medals, prizes, and certificates on the recommendations of the Academic Council.
- 4. Establish the necessary industry and other stakeholder collaborations
- 5. Approve institutions for new programs of study leading to degrees/diplomas
- 6. Perform any other functions and constitute any committees per the necessity and demand.













#### 2. Leadership



















The Chairperson of Lavu Educational Society plays a pivotal role in making VIEW a Responsible Institute. He has nurtured many successful leaders through quality & responsible education. He is a lifelong learner and constantly makes efforts toward building the nation through responsible education.

Dr. Lavu Rathaiah is passionate about her vision and plans to make VIEW a leading responsible institution. Dr. Sushakar Jyothula, Principal of the VIEW, complements the concept of the Chairperson.

#### **Academic Leadership**



Dr. J. Sudhakar, Ph.D
Principal

Vignan's Institute of Engineering for Women (VIEW), Visakhapatnam, AndhraPradesh is promoted by the Lavu Educational Society of Vignan Group, Guntur, Andhra Pradesh. The group is renowned for serving the cause of education at all levels and all layers from kindergarten to post graduation for the last 46 years with a student base of 50,000 and faculty strength of 6,000. The group was established by an eminent academician and philanthropist Dr. L. Rathaiah. Vignan's Institute of Engineering for Women (VIEW) was established on the 27th of June 2008 at Visakhapatnam to cater the educational needs of the general public in the industrial hub of Visakhapatnam. The experience gained by Vignan through its earlier institutions at Guntur has only helped in establishing very high quality standards right from the inception and also is one of the reasons for the success of the present institution.

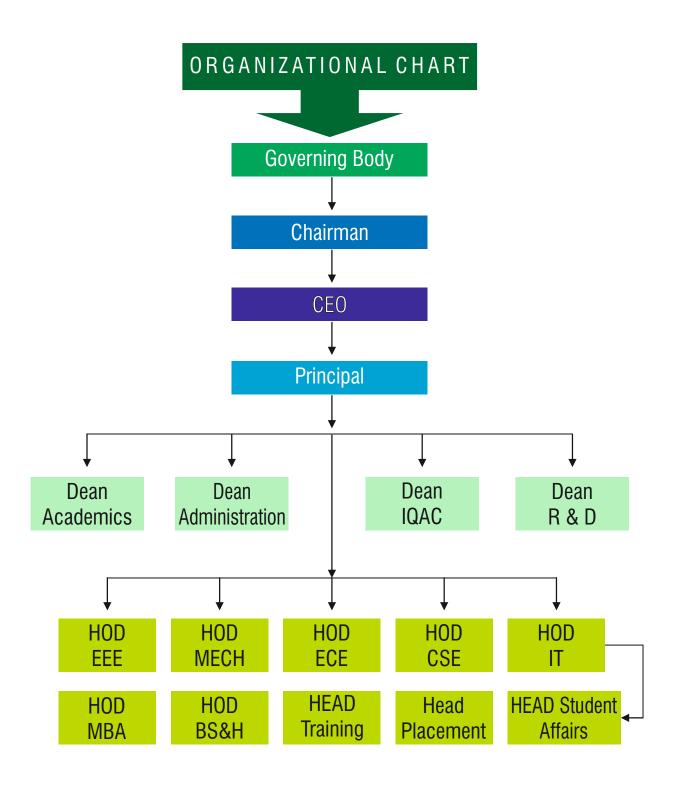
The institution has a well-defined and structured governance system headed by the governing body which is an apex committee that oversees the overall development and continuous growth of the institution in lines with the established vision. The Governing body is comprised of eminent people from all spheres of life to bring in the necessary balance.



















# 3. Sustainability Commitment



















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

The vision of VIEW is rooted in its shared responsibility to build an institution that contributes to the well-being of pupils and the planet's health.

VIEW expresses its commitment to sustainability in many ways. It has taken several positive steps to reduce its environmental impact. The Institution takes the following initiatives to make the campus Eco-friendly:

- 1. Energy conservation
- 2. Water conservation
- 3. Efforts for carbon neutrality
- 4. Hazardous waste management
- 5. E-waste management
- 6. Plantation



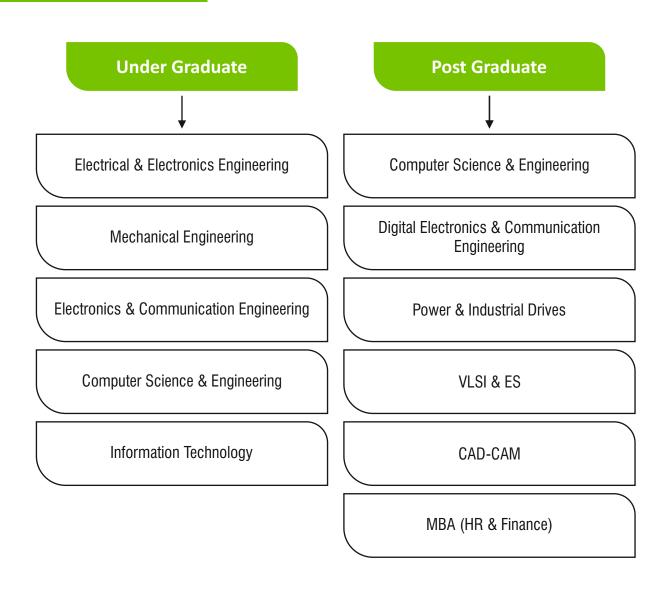








# **List of Programs**



# **Number of students**

Academic Year 2020 - 2021

Under Graduate	Post Graduate
2224	128



168



# **GOVERNANCE & ACADEMIC**

Mr. B. Naga Srinivasa Rao, Mrs. P. Gowri Swetha Mrs. S. Chandra Vathi, Mr. P. Ashok Kumar, Mr. G. Swami Naidu Mr. B. Ravi, Mr. K. Santosh Kumar, Mr. E. Jagadeeswara Rao Mr. Sharooq Ahamed, Mr. J. Ravi Chandra, Mrs. Ch. Aruna Jyothi Mrs. V. Sai Padmini, Mr. R. Manoj Kumar, Mr. B. T. Ramakrishna Rao Ms. K. Therissa, Mr. K. Chiranjeevi, Mr. A. Chandraiah Ms. V. V. Sai Santoshi, Mr. V. Avinash, Mr. K. V. Sri Ram Prasad Mr. A. Venkatesh, Mrs. V. Kalyani, Ms. P. Tabita, Ms. T. Sushma Mr. B. Naidu, Ms. Payal Pramanik, Ms. S. Kezia, Mr. V. Krishna Mr. P. Rahul, Ms. Y. Deepika, Ms. G. Murudula, Mr. P. Anil Kumar Ms. Ch. Pavani, Mr. P. Renuka, Mr. P. Bharath Kumar, Mr. Y. Sumith Ms. B. Jayasri, Ms. B. Vanajakshi, Mr. G. Mulinaidu, Mrs. S. Kalyani Mr. P. Mohan Ganesh, Mr. Y. Laxman Rao, Mr. G. Netaji, Mr. S. Sagar B Ch Venkata Ramana, Mrs. B. Siva Lakshmi, Mrs. B Sudha Madhuri Mrs. P. Anusha, Mrs. Ungarada Ramya, Mr. Reddipalli Aditya Mrs. Seeram Roopa, Mr. Nalluri Sudhakar, Mr. Gujjula Bhaskara Rao Mrs. Pothala Prasanna Kumari, Mr. Pakanati Anil Kumar, Mr. Eswara Teja Mycharla, Ms. Boosala Swathi, Mr. Chitturi Suresh Mr. Nakella Ramesh, Miss Guttula Anusha, Mr. Dandu Kesava Mrs. Palla Anusha, Ms. Kongarana Anusha Nandini, Mrs. M. Satyavathi, Mrs. M. Sirisha Rani, Mrs. T. Suguna, Mr. K. Santhosh Kumar, Mrs. A. Venkata Laxmi, Mrs. T. alitha, Mrs. M. Sailaja, Mrs. D. Ramyavani, Mrs. K. Swarna Latha, Mrs. N. Madhuri, Mrs. B. Lavanya, Mrs. B. Mounika
Total







# List of - Teaching Staff

S.N.	Position	Name
1	Physical Director (2)	Mrs. B. Santhi, Mr. N. Ramana Babu
2	Professor (6)	Dr. T. Radhakrishna Murty, Dr. K. Vijaya Kumar, Dr. K. Jayasri Dr. J. Sudhakar, Dr. Akanksha Mishra, Dr. K. Durga Syam Prasad Dr. B. Prakash, Dr. P. S. Ravindra
3	Associate Professor (21)	Dr. K. Chaitanya , Dr. K. P. Suhasini, Dr. V. R. S. S. Srikanth Dr. B. Chandra Sekhar, Dr. Shouri Dominic, Dr. K. Jyosthna Dr. D. Nirmala Devi, Dr. K. Venkata Prasad, Dr. E. Gowthami Dr. B. Samatha, Dr. P. Vijaya Bharati, Dr. G. Narasimha Rao Dr. Ch. Ramesh Babu, Dr. K. V. Ramana Rao, Dr. P. Sudhakar Dr. P. Srinivasu, Dr. Y. Bhaskar S. S Gupta, Dr. Varadala Ananda Babu, Dr. S. Ramesh, Dr. Pardhasaradhi Malla, Dr. G. V. Ramakrishna Rao
4	Assistant Professor (137)	Dr. S K Chaitanya Ch, Mr. B. Nagabhushana Rao Mr. K. Surya Narayana Rao, Mrs. T.S. Priya Darshini Mr. K. V. V. Ganeswara Rao, Ms. K. Lavanya, Mr. M. Krishna Kishore, Mrs. M. Pavani, Mr. S Giri Babu Mrs. M. Venu Madhuri, Mr. A. P. Phaneendra Kumar, Mr. K. Murali, Mr. S. V. Satyanand, Mr. B. Durga Prasad Mrs. M. Mamatha Laxmi, Ms. Y. Vineela Sravya, Mrs. R. Pravallika, Mrs. G. Pavani latha, Mrs. N. Sowjanya Kumari, Mr. D. Rajendra Dev, Mr. R. Ravi Mrs. Sheik Rahamuinissa, Mrs. B Haritha Laxmi Mr. A. Maheswara Rao, Mr. V. Sita Ram Prasad, Ms. M. Pallavi Mrs. D .Kiranmai, Mrs. B. Sailaja, Mrs. Ch. Usha, Mr. V. Rama Rao, Mrs. D. Ramya, Mr. A. Srinivas, Mrs. N. Suneetha, Ms. Afsheen Firdous, Ms. Ch. Thanuja Mrs. M. N. Sravani, Ms P. Sravani, Mr. L. Jagajeevan Rao Mr. B. Krishna, Mrs. V. Sree Lahari, Mrs. J. Hima Bindhu Ms B. Padmaja, Mrs. T. Sandhya Kumari, Mrs. Ch. Padma Vani Mr. B. Sai Bharadwaj, Mr. D. Tilak Raju, Mrs. Ch. Anitha Bhavani Mrs. S. Malathi, Mr. K. Rajendra Prasad, Mrs. B. Manjula Mr. S. Tarun Prasad, Mr. B. Sasikanth, Mr. G. Lakshmana Mr. K. Sunil Kumar, Mrs. N. Sri Kalyani, Ms. Korumilli Devipriya Ms. Ch. Sri Satya Jyothirmayi, Mr. D. Appanna Tatajee Mrs. N. N. Navya Spandana, Mr. Shaik Ahemed Ali, Mrs. M. Sowjanya, Mrs. M. Geetha Sruthi,







# **List of Non - Teaching Staff**

nandra Sekahar Babu 🕜 A. L. Vineela G. Gowri P V S Satyanarayana P L J E Kiran 🦒 A. Venu Gopal B. Kishore Mr. Y. THATA BABU K. Baby Kumari T. Kalyan B. Srinivasa Rao U. Kanaka Mahalakshmi Venkata Lakshmi O.ThaTha Rao Mr. K. Ch. SATYAVATHI O. Sreenu 1a P. Dalamma S. Pydi Raju Gunnaiah E. Appalakondamma O. Dhana Lakshmi O. Appalakonda O. Lakshmi S. Appala Konda E. Ramanamma O. Appala Narasamma K. ChinnaTalli K. Ammaji O. China Lakshmi U. Lakshmi U. Vanaja U. Kanaka Lakshmi S. Pushpa K. Anitha Y. Appalakonda Y. Mounika P. Lakshmi Battina Karuvamma Mr. A.THARUN B. O. Kumari E. Devi Y. Mutyalamma RAMBABU Ch. RAJAMMA U. Satyavamma Y. Atchiyamma Sarada Mr. U. KRISHNA B. Varalakshmi Mr. L. KISHORE Mr. CH. TEJA Mr. K.V. NAIDUB. Kunchalamma Mr. M. SURYANARAYANA Mr. G. RAMAKRISHNA Y. Satyavathi PRASAD Mr. D. NAGESH KUMAR Ommi Appala Konda Mr. M. RAMBABU Mr. S. EASHWARA RAO Mr. K. RAJA BABU Mr. K. RAMA RAO Mr. VAMSI B. Sanyasamma Mr. CH. SRINU Mr. CH. NOOKA RAJU Mr. S. SRINIVAS Mr. N. SURESH Mr. D. VEERA APPARAO









# 4. Innovative Practices



















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.

The innovation drives Post Graduate & Research Programs of the VIEW.

Deans and HoDs of various academic departments bring innovation into learning opportunities through collaboration with exceptional researchers, innovators & entrepreneurs.











# 1. Local Building Regulations











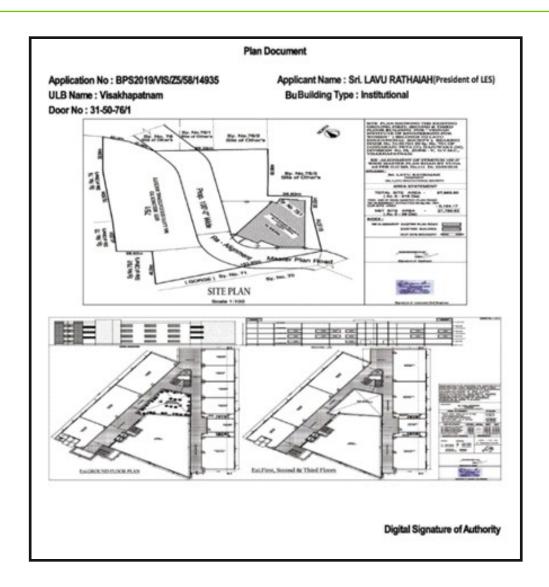






Green building laws and codes in our country are voluntary. A green building uses less water, optimizes energy efficiency, conserves natural resources, generates less waste, and provides healthier spaces for occupants than a conventional building.

Built-up learning spaces of VIEW meet all local building laws.









# 2. Top-Soil Preservation







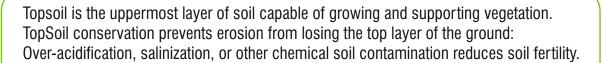












VIEW has taken many proactive measures toward topsoil conservation on the campus. For Example, regular aeration that allows nutrients to reach the roots of plants, filling the holes created by aeration, indigenous gardening, building wind barriers, mulching, and placing stepping stones for walkers on topsoil. 60% of the campus has a green cover.













# 3. Eco-Friendly Commuting Practices



















VIEW encourages its students & professors to adopt environment-friendly transport to minimize the environmental impact of automobile use.

Mode of Transportation	Walking	Bicycle	Motorcycle	Car	University Bus	Public Transport	Total
Students	153	18	138	1	1112	930	2352
Teachers	8	0	77	12	66	3	166
Non-Teaching Staff	35	2	33	0	16	10	96













# 5. Greenery in Campus

















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.

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

#### **Details of vegetative areas**

1.	Building foot print	13570 Sq. M
2.	Playground Area	10926.5 Sq.M
3.	A. Turf area	4723 Sq.ft
4.	Facilities for Rainwater Harvesting (CAPACITY)	2 pits, dia= 1.2 feet H=1.2 feet
5.	Open well Recharge	12 feet dia
6.	Borewells	2 No., 5 feet dia each











# 4. Parking Facility



















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

#### Parking area details

Mode of Transportation	Buses	Cars	Motor Cycle	Bicycles	Battery Powered Vehicles
No. of Vehicles	16	13	248	20	9
Parking Area (Sq. m)	186	47	11	12	9.3













# 7. Minimize Heat Exposure to Sun: Roof















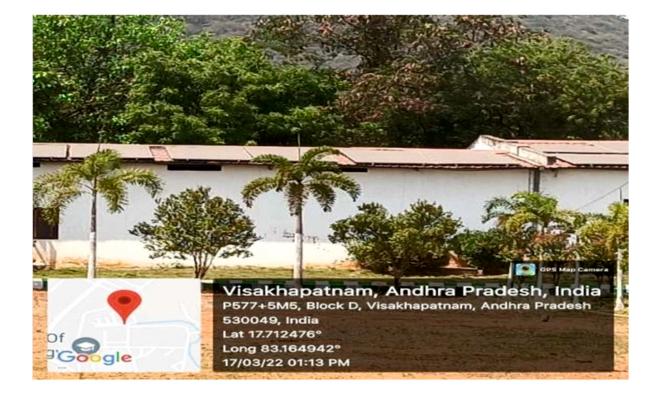




VIEW has planted trees strategically that provide shade to the roof in summer; when the leaves fall, the trees allow the Sun to shine through creating a desired solar heat gain effect during the winter.

Solar panels cover most of the Institute's roof area, and the remaining regions are covered with tiles & paint to reduce the concrete surface exposed to the Sun and minimize the impact on the microclimate on the campus.

- The institute has set up a 50 KW solar power plant by covering 75 % of the roof area to cater to the power needs of the institute as well as reduce heat exposure from the sun. The remaining 25% of the roof are a is painted to reduce the impact on campus micro climates.
- The total roof area 10000 meters.
- The solar power plant takes up 400 square metres of the total roof area.











# 6. Minimize Heat Exposure to Sun: Non-Roof



















VIEW Campus is housing approx 3000 trees and plant species in 7 acres of land area, restricting impervious surfaces from sun exposure to minimize the impact on the microclimate on the campus

The VIEW campus total non-roof impervious area is covered with various types of trees, turf and pathways:

College campus area: 27963.775 Sq.m

No. of existing trees/saplings planted: 1123

Total non-roof area, covered with trees (foliage) or open grid pavers: 5422.7 Sq.m













# 8. Universal Design















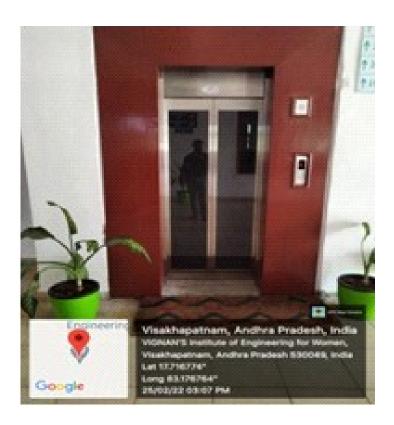


Universal Design for Learning (UDL) is an approach to teaching and learning that gives all students equal opportunity to succeed. The goal of UDL is to use various teaching methods to remove barriers to learning.

It's about building flexibility that adjusts every person's strengths and needs.

Learning spaces at VIEW 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.











# 1. Rainwater Harvesting: Roof & Non-Roof



















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.

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

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

Average Rain fall (r)							
Location	Year	Peak Rainy Month	Total Rainfall (mm)	Number of rainy days	Normal Rainfall / Day (mm)		
	2021	August	205	14	14.6		
	2020	June	123	10	12.3		
	2019	May	177	17	10.4		
	2018	May	119	15	7.9		
	2017	June	153	16	9.6		

Average normal rainfall/ day (mm) = 11

Average normal rainfall/ day (m) = 0.011

Note: If the number of rainy days in respective months is not available, a maximum of 15 rainy days can be considered to arrive at normal rainfall.

1. Average normal rainfall /day in your area:

11 mm/day

2. Rainwater Harvesting Capacity:

118 cum

3. Run-off Volume Harvesting from Roof & Non-roof areas:

118 cum





# **Run-off coefficients for Typical Surface Types**

Sr. No.	Surface Type	Coefficient
1	Cemented / Tiled Roof	0.85
2	Roof Garden (<100 mm thickness)	0.6
3	Turf, Average(1-3%slope)	0.35
4	Vegetation, Flat (0-1% slope)	0.45
5	Concrete Pavement	0.85
6	Grave I Pavement	0.35
7	Water Body	1
8	Open- grid Concrete Pavement	0.85
9	Playground	0.35

# **Rain Water Harvesting Calculation**

Sr. No.	SURFACE TYPE	Coefficient ( c )	Area (m2) ( a )	Impervious area (m2)
1	Cemented Roof	0.85	13556.9	11,523
2	Play ground	0.35	20000	7000
3	Turf, Flat (0-1% slope)	0.35	4723	1653.05
4	Vegetation, Flat (1-3% slope)	0.45	3795	1707.75
5	Open Grid Pavement	0.85	732	622.2
6	Water Body		15.707	15.707
	Total impervious area in sq.m. (	<u> </u>		22521
	Average normal rainfall in m(R)			14.6
	Total roof and non-roof run-off vo	328806.6		
	Storage capacity of pond/ tank et	366		
	Harvesting capacity of recharge	_	150	







# 2. Water Efficient Plumbing Fixtures



















VIEW 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.

## **Baseline Flow Ratesf or Plumbing Fixtures**

Fixture Type	Maximum Flow Rate	Daily uses per person / day
Water Closets	6 lpf	0.5
Urinals	4 lpf	3
Health Faucet	6 lpf	0.5
Faucet/Taps	6 lpf	3







# 3. Turf Design



















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

The turf area of VIEW 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, with the remaining areas covered with various types of plants, as shown in the figures below.

Type of vegetation	On Ground (Sq.m.)
Turf	4723
Other plant species	1123
Total	5846

Total Turf area(sq.m). 4723 SFT











# 4. Water Efficient Landscaping







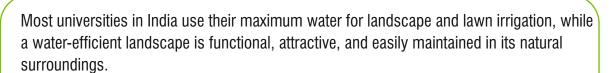












The whole Landscaping on VIEW campus is water-efficient, reducing water consumption through responsible irrigation practices and mulching.

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

- Total land scaped area (sq.m) : Negligible Area
- Total Turf area(sq.m). 4723 SFT







## Table: Water use reduction calculation over 1000 students and teachers

		Daily uses per person / day Number of students & teachers (n)	Number	Baseline		Proposed	
Fixture Type	Duration		Flow rate/ capacity (fb)	Total water use (litres) Tb = (n xfb)	Flow rate/ capacity (fb)	Total water use (litres) Tb = (n xfb)	
	1 Flush (Full Flush) 1 Flush (Half Flush)	1 for male	111	6 lpf	666	6 lpf	666
Water		1 for female	2450	6 lpf	14700	6 lpf	14700
Closets		2 for female	0	0	0	0	0
		2 for male	0	0	0	0	0
Urinals	1 Flush		111	4.0 lpf	444	4.0 lpf	444
Health Faucet	0.25		2450	6 lpf	14700	6 lpf	14700

			Number	Bas	eline	Propo	sed	
Fixture Type	Duration	Daily uses per person / day	of students & teachers (n)	Flow rate/ capacity (fb)	Total water use (litres) Tb = (n xfb)	Flow rate/ capacity (fb)	Total water use (litres) Tb = (n xfb)	
Faucet/Taps	0.25	4	2561	6 lpf	15366	6 lpf	15366	
Total water us	se (litres/da	ıy)		15366				
Number of working days			210					
Total Annual water use in litres (Total water use x Number of working days)			3,226,8	60 lpd (litres	per day)			







# 5. Water Efficient Irrigation System



















VIEW uses sprinkle 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 sprinkle irrigation is to use water when plants need it most and at the rates required for proper plant growth.









# 6. Waste Water Treatment



















VIEW follows a minimum water discharge campus; therefore, water treatment is integral to the water management plan. Apart from harvesting, a wastewater treatment plant is part of the water management plant.











# 7. Use of Treated Waste Water



















VIEW has installed a water treatment plant on the campus. Treated water goes to irrigating vegetated areas, reducing dependence on fresh water.









# 8. Water Use Monitoring



















VIEW has a standard water monitoring system with few 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.



**Cumulative Score** 

71/80











# 1. Tobacco Smoke Control



















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



### 2. Day Lighting



















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 VIEW are daylit, & average daylight factor is maintained.

S.No	Space	Prescribed Day light factor (%)	Prescribed Illumination Level (Lux)
1	Class room	3	9968
2	Labs	2.8	11956
3	Computer Labs	3	12104
4	Library	3	51691
5	Staff Room, Office Area	3	6662





# **Illumination Level Chart**

Space	Carpet Area m2	Illumination level Prescribed in lux	Illumination level monitored by lux meter (lux)	Achieve / Not Achieved
Class Room	99.68	9968	500	Achieved
Lab	119.56	11956	500	Achieved
Library	516.91	51691	500	Achieved

# **Day light Factor Chart**

No	Visual task	Prescribed Day light Factor
1	Class room desktop, chalk boards	3
2	Laboratory / Workshops/Drawing	2.8
3	Library reading tables	3
4	Staff room,office area	3









# 4. Area of Class Room













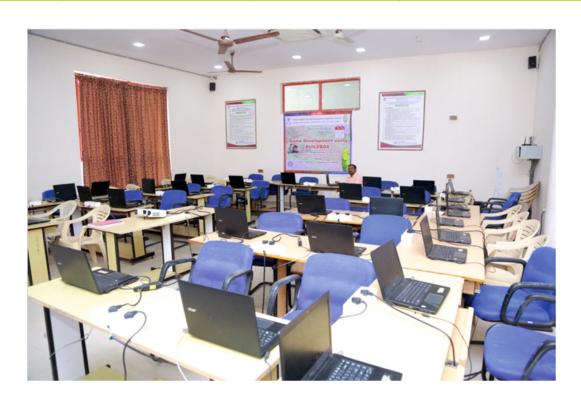






All learning spaces, including classrooms of VIEW, are well designed according to statuary standards and norms that follow appropriate occupant density, which enhances student productivity.

No.	Category	No. of students per classroom	Minimum grass area of the class room in m2/student
1	Under Graduate	60	1.6
2	Post Graduate	60	1.6











## 3. Fresh Air Ventilation



















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 VIEW have adequate ventilation, improving the health and well-being of Students & Faculties.

# Calculations demonstrating the percentage of openable area considered in regularly occupied spaces.

Sr. No	Space	Carpet Area (Sq.m) (a)	Openble area (b)	Prescribed Percentage or Openble area (b/a)*100	Achieved / Not Achieved
1	Class room	99.68	960	963	Achieved
2	Labs	119.56	730	610.5	Achieved
3	Computer Labs	121.04	130	107.4	Achieved
4	Library	516.91	110	21.28	Achieved
5	Staff Room, Office Area	165.12	160	96.89	Achieved









### 5. Anthropometric Dimensions in spaces

















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 in 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 VIEW, 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.

#### **Toilet Fixtures for students**

Anthropometric	Standing Height of student in meters			
dimensions	Under Graduate	Post Graduate		
Squatting position	0.4 m	0.4 m		
Wash Basin	0.85 m	0.85 m		









# 7. Dust - Free Environment



















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

The Institute pays special attention to neatness and cleanliness in its premises. The institute as recruited about 44 cleaning staff for the purpose. Meticulus cleaning activity is conducted twice a day. Once in the morning before the arrival of students and in the evening after vacating the classes.











# 6. Toxin-free Environment



















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











## 1. Ozone Depleting Substances











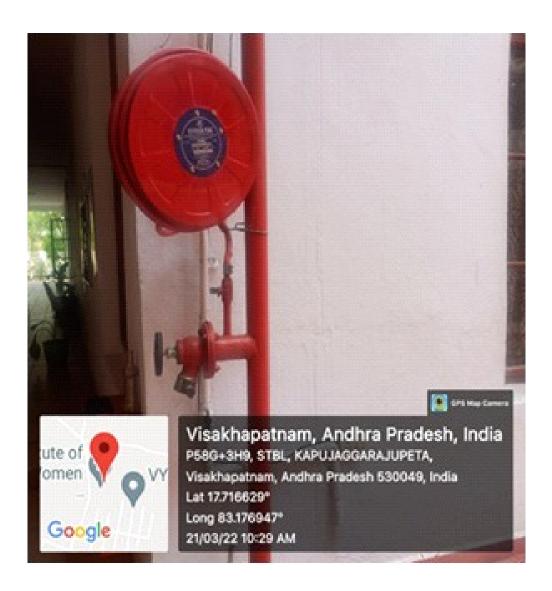








Ozone-depleting substances are chemicals that destroy the earth's protective ozone layer. Therefore, VIEW has procured refrigerators and air conditioners, fire extinguishers, foam, and aerosol propellants that have minimum impact on Ozone Layer Depletion.











## 8. Exhaust Systems



















All Toilets, Urinals, Canteens & Laboratories are associated with learning and residential facilities. In addition, VIEW has exhaust fans that maximize airflow & enhance Indoor Air Quality.



**Cumulative Score** 

70/80









### **VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN**

(Approved by AICTE & Affiliated to JNT University, Kakinada) Estd. 2008
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530 049, Andhra Pradesh, India
Phone: 9133300357, 8886066339:: Fax: 0891-2010485

E-mail: view.office2008@gmail.com, viewprincipal@gmail.com website: www.vignanview.org

#### **DECLARATION FOR OWNING REFRIGERATORS**

I, Dr.J.Sudhakar, Principal of Vignan's Institute of Engineering for Women (VIEW) do hereby declare that we are owning refrigerators of 80 Ltrs storage capacity with 40 Ltrs Cooling capacity water in good working condition and the same will be used in the college premises for drinking purpose.

(Dr.J.Sudhakar)

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49,











### 2. Energy Efficient Lighting Fixtures



















Natural light is the best solution for reading or studying. Therefore, VIEW 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.

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













# 3. Energy Efficient Fans

















VIEW 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.

### Details on number efficient fans along with total number of fans used in the College

Sr. No.	Fans	Number	% of Energy Efficient Fans
1	536	70w	37.5

If we replace some fans by installing energy-efficient fans (<50W), then the power consumption will be as follows

2	330,206	50w, 70w	16.5+14.4=30.9









	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)	
		32	15 W				
Classrooms	2816.46	209	20 W	8	65.792	19277056	
		99	36 W				
		261	15 W				
Labs	3330	56	20 W	4	27.484	8052.812	
		51	36 W				

	PROPOSED 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)	
		32	15 W				
01	0010 40	215	20 W	8	64.280	18376960	
Classrooms	2816.46	85	36 W				
		266	15 W				
Labs	3330	61	20 W	4	26.600	7793800	
		40	36 W				
					Total		









## 4. Energy Efficiency in Appliances & Equipment

















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.

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

#### Purchase bills for the appliances

2	Description of Goods	HSN	I/SAC	GST Rate	Quantity	Rate	per	Disc %	Amount
LED	TRIM PANEL LIGHT	9400	54090	12 %	320 NOS	535.00	NOS		1,71,200.00
150	SQUARE-MAKE HAVELLS			-	or and the same of		-	-	
6M P	LATE WITH BOX	8538	81090	18 %	60 NOS	211.00			12,660.00
4MM	BOX WITH PLATE	853	81090	18 %	60 NOS	150.00			0,000.00
	LATE WITH BOX	8538	81090	18 %	30 NOS	120.00			3,806,00
GA SI	WITCH	8536	65020	18 %	120 NOS	38.00			4,560,00
GA S	OCKET	853	65020	18 %	120 NOS	78.00			9,360.00
PVC	GANG BOX	853	81010	18 %	180 NOS	80.00			14,400.00
	GANG BOX	853	81010	18 %	25 NOS	50.00			1,250.00
	GANG BOX	853	81010	18 %	25 NOS	35.00			875.00
6A S	WITCH /		65020		870 NOS	13.00	1		11,310.00
	OCKET/	,	65020	0.7507.5	870 NOS	25.00			21,750.00
	LUG TOP	853	65020	18 %	200 NOS	35,00			7,000.00
1.5X3	C COPPER FLEXIBLE CABLE	854	46020	18 %	800,000 MTRS	57.00			45,600.00
	C COPPER FLEXIBLE CABLE	854	46090	18 %	117,000 MTRS	450.00		4	52,650.00
12 W	ay DB BOARD	853	71000	18 %	5 NOS	1,372.00	NO6		6,860.00
	POLE MCB. 7	853	62030	18 %	4 NOS	1,573.00	4		6,292.0
	SP MCB	853	62030	18 %	30 NOS	150.00	NO	3	4,500.0
	SP MCB/	853	62030	18 %	10 NOS	150.00	NO	3	1,500.0
	ROD	841	49000	18 %	30 NOS	120.00	NO	3	3,600.0
	LED TUBE LIGHT FITTING	940	54090	12 %	100 SET	225 00	SE	r)	22,500.0
	TAPE NOS	854	69090	18 %	100 NOS	8.00	NO.	3	800.0
	TATE HOOP	- 1							4,11,267.0
	CGS	T@9%				1	9 %		19,581.0
	1	T@9%		1			9 %		19,581.0
Samuel 1		T@6%			1		6 %		11,622.0
1000	L. SGS	T@6%					6 %		11,622.0
-									
		Total					+		₹ 4,73,673.0
	the farmatel			-					€ 40
NR Fou	hargeeble (in words) r Lakh Seventy Three Thousand Six Three Only	Hundred	B	lank Na		HDFC BAN 124325600	0082		CALS .
	APNPP7147P		В	Iranch &	IFS Code:	DABAGAR	DEN	INDUST	OF AL PHICTIPICAL











### 5. Energy Sub-Metering



















VIEW 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.











### 6. On-Site Renewable Energy

















VIEW has installed a 52.5 KW Solar power plant and 500 ltr Bo gad plant as an on-site Renewable Energy Source; however, VIEW encourages the student community to save energy to minimize the environmental impacts of using fossil fuels.

# SuryA

### SURYA RENEWABLE ENERGY SYSTEMS

3ST: 37411HPC3501B17F

Above proposal is valid for 30days only

- for a Better Living Environment

QUOTATION							
To, Vignan institute of engineering for women, Visakhapatnam,	Quotation No: WM/AP/21-22/127R4						
	Enq. Date : 16 – FEB – 2022						
Andhra Pradesh.	Ref. : Enquiry for Bio Gas Plant						
	Qt. Date : 19 - APR - 2022						

Dear Sir.

With reference to our Discussion at your office, here with we are submitting revised quotation for 2 units of 500lt Biogas Plants, as below

S. No	Item Description & Specifications	HSN / SAC Code	Unit rate in Rs.	Qty	Total Price in Rs.	
1	Bio Gas Plant for Canteen Waste / Kitchen Waste Capacity: 500 Ltrs Type: Portable, FRP Make Floating Mode	8405	13,000.00	2	26,000.00	
	Total for supplying 2 units is					
	5% GST to be paid as applicable, in additional					
	Installation Charges					
	Grand Total					
TER	MS AND CONDITIONS:					
Plain	ground of 1m x 1m required for placemen	t for each Bioga	as plant.			
Tran	sportation to be paid at actual					
Adva	ance 75% along with order; 25% after comp	oletion of Install	ation			

OFFICE: SURYA RENEWABLE ENERGY SYSTEMS, NAGENDRA COLONY, KOTHAPALEM, GOPALAPATNAM, VISAKHAPATNAM, ANDHRA PRADESH, INDIA – 530047 E mail: <a href="mailto:surya.renewableenergy@gmail.com">surya.renewableenergy@gmail.com</a> Contact: +91 9527312152, +91 8328091055; www.suryarenewableenergysystems.com

Installation will be completed within 4- 6 working days from the receipt of advance payment







#### SURYA RENEWABLE ENERGY SYSTEMS

GST: 37AUHPC3501B1ZE

- for a Better Living Environment

#### **TECHNICAL SPECIFICATIONS:**

- ☐ Floating type Biogas Plant
- ☐ MOC: FRP
- ☐ Capacity: 500lt
- ☐ Application: Cooking (Canteen)
- ☐ Single burner Bio Gas Stove, hose length 5mt.



We hope our proposals are in-line with your requirement. We look forward to extend our services in renewable energy solutions.

#### We also offer other Renewable Energy solutions:

➤ Solar Street lights, Solar Garden lamps, LED lights, Solar Water Heaters, Solar Driers and Solar Cookers. Energy Conservation Solutions for Households; Commercial Complexes; Offices & Corporate and Industries & Servicing units; Energy Audits.

- Solid Waste Recycling: Bio Toilets, Bio Gas Units to Convert, Domestic Waste to Cooking Gas and Organic Fertilizer for Plants; Agriculture waste to Energy briquettes; Organic Composting Units.
- Water Management: Drinking water system purification, Water extraction system from Air; Rain water harvesting systems; Set up Agriculture Ponds; Drip Irrigation system.

Thanking you & assuring you of our best services.

Yours Sincerely,

Chadaram Ganesh,

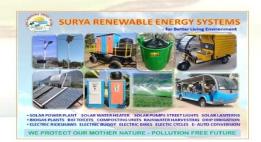
for SURYA RENEWABLE ENERGY SYSTEMS

- for a Better Living Environment

#### Our Bank Details:

Name - Surya Renewable Energy systems Ac No - 120001098076 Bank - Canara Bank

Branch - Naidu Thota IFSC code - CNRB0013592



OFFICE: SURYA RENEWABLE ENERGY SYSTEMS, NAGENDRA COLONY, KOTHAPALEM, GOPALAPATNAM, VISAKHAPATNAM, ANDHRA PRADESH, INDIA – 530047 E mail: <a href="mailto:surya.renewableenergy@gmail.com">surya.renewableenergy@gmail.com</a> Contact: +91 9527312152, +91 8328091055; www.suryarenewableenergysystems.com











## 7. Solar Water Heating Systems

















VIEW does not have a hostel or residential facility; therefore solar water heating system.



### 8. Distributed Power Generation



















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

Total full load : 250 Kva

Dg Set : 1 = 380 Kva

2 parallel connection transformer: 750 Kva









# 1.Toilet Facilities











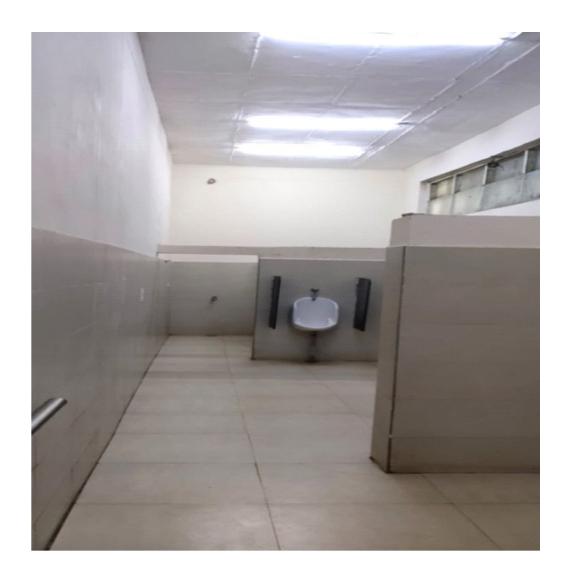








VIEW has outsourced Hygiene & Cleanliness work to the local external cleaning agency, which regularly maintains Hygiene & Cleanliness standards in all toilets, reducing the infection risk to students and teachers' health & well-being.













# 2. Drinking Water Facility



















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













# 3. Access to Healthy Food



















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 VIEW to maintain the fitness of the teaching-learning community.

The local food-making agency provides the food on the campus. Junk Food is not allowed on campus.













# 4. Sports Amenities



















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











## **6. Organic Fertilizers and Pesticides**



















VIEW 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



















VIEW 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** 

59/70









# 5. Dedicated Playground



















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









# 2. Organic Waste Management



















Since VIEW 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. Municipal services also collect the garbage from the Institute.











## 1. Waste Segregation



















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

The Institute facilitates the separation of different types of waste at the source in order to prevent waste from being sent to landfills. Leftovers of the food collected from canteen and hostel and that is given to the cattle field people which can be used as food for animals.

The waste from college is collected separately with the color coded dustbins and that is collected by the GVMC.













### 3. Green Policy

















VIEW 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.

#### **Green Campus**

A Green Campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. These strategies need to be incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus.

#### **Green Campus Policy**

The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

Vignan's Institute of Engineering for Women (VIEW) strongly accepts the "accountability to the future"—a special role and a special responsibility in confronting the challenges of climate change and sustainability.

Vision of VIEW 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 health of the planet.

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

- To protect and conserve resources within the campus.
- To continuously improve the efficient use of all resources of energy and reduce the amount of waste produced, recovering and recycling where possible.
- Tap renewable energy resources including solar energy, rain water harvesting etc.as much as possible.
- To conduct Energy Audit from time to time.
- To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- To make the campus plastic free.
- Link Green-Campus activities to Academics in the Institute.

Vignan's Institute of Engineering for Women (VIEW) intending to Achieve Green Campus status by making significant progress in following areas:









#### 1. Solid Waste Management

With its aim to provide holistic education that also has a positive impact on the environment, the college will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

- Systematically engage with the "3Rs" of environment friendliness (Reduce, Reuse and Recycle).
- Collect waste produced in campus and collaborate with scrap dealers.
- Encourage the students and teachers to use emails for assignment submissions.
- Take initiatives to spread awareness amongst students about Food wastage and ways of minimizing it
- Minimizing the use of packaged food
- The habit of reusing and recycling non-bio degradable products
- · Organizing workshops for students on solid waste management.

#### 2. Landscaping Initiatives:

The campus landscape, like its buildings, can be seen as the physical embodiment of a college's values. Green campus landscapes also manage runoff, help recharge groundwater, and clean and cool the air on campus. The landscape serves as a visual representation of the campus community's commitment to sustainability. As campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness around the environment.

There are more than 1000 trees on campus along with 4723 sq feet of grass cover. The landscape of trees and plants provide the 2516 students and staff with clean and cool air and is a soothing environment.

The diverse green cover of VIEW is also home to a number of animals and rare birds species, creating a campus rich in biodiversity. The college commits to enriching this healthy habitat and maintaining the symbiotic relation of the institution with nature by

- Organizing annual tree plantation drives
- Encouraging student societies to hold tree planting events













# 4. Salvaged Materials



















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







#### 3. Infrastructural Initiatives:

#### Renewable Sources of Energy

#### Solar Power Plant

VIEW is dedicated to minimize and sustainably manage its use of electricity. The institution believes in reducing the consumption of electricity produced by non—renewable resources by switching to clean energy sources like Solar Energy. A 50kW Solar Power Plant has been installed at the rooftop.

#### Biogas Plant

With its aim to reuse the wastage from the canteen and tree litter, two 500 Litres Floating Type Biogas Plant have been installed. The gas produced from the Biogas Plant is used for Cooking Purpose in the canteen which is connected single burner.

#### **Energy Saving and Energy Efficient Equipment**

#### Use of LEDs

VIEW has been committed to install environment –friendly electrical appliances that save energy and reduce wasteful inefficiences. The institution believes in using cleaner energy such as LED lighting and CFLs of 20W.

 The Institution uses Energy star rated appliances and sensor based equipment for the efficient use of power.

#### 4. Waste Water Management / Rain Water Harvesting

 The Institute has to work in the direction of waste water management particularly in student's hostels. Water flow restrictors on bathroom faucets and showers, low water flow toilets and automated urinal flushers should be used to cut down campus water use.
 The Institute will take all necessary measures to implement waste water management / rain water harvesting.











### SUSTAINABLE RESOURCES UTILIZATION



### **5. Eco-friendly Wood Based Materials**

















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

6 Wood and metal waste from the Mech dept is reused as pen stands and paper weights in the college.











### SUSTAINABLE RESOURCES UTILIZATION



### 6. Materials with Recycled Content



















VIEW 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



















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

**Cumulative Score** 

53/70







### **SUSTAINABILITY EVALUATION CHART**

Sr. No.	Assessment Areas	Cumulative Score
1.	GOVERNANCE & ACADEMIC	36/40
2.	BUILDING DESIGN & LANDSCAPING	74/80
3.	WATER MANAGEMENT PRACTICES	71/80
4.	AIR QUALITY LEVEL	70/80
5.	ENERGY USES & SAVING PRACTICES	69/80
6.	HEALTH & HYGIENE PRACTICES	59/70
7.	SUSTAINABLE RESOURCES UTILIZATION	53/70
	Total	432/500

### **Certification Level**

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















### **ACCREDITATION**













2022-2025

### CERTIFICATE











### VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Visakhapatnam, Andhra Pradesh

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

### **GREEN INSTITUTE**

in Platinum Ranking.





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



### **ENERGY AUDIT**

Academic Year 2022 - 2025



This is to certify that





### VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Visakhapatnam, Andhra Pradesh

has achieved the energy uses standards for the learning spaces with least impact on environment during the Green Institute Audit - 2022-25.

This Certificate is issued on the bases of Green Institute Audit Report 2022-25









Special Consultative Status with the Economic and Social Council of United Nations from 2021 www.greenmentors.in

Virendra Rawat Director, Green Mentors



















### **ENVIRONMENT AUDIT 2022-25**













# Certificate

This is to certify that

### VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Visakhapatnam, Andhra Pradesh

has achieved the global standards for environmental responsibility with academic accountability for the Universities during the Green Institute Audit - 2022-25.

This Certificate is issued on the bases of Green Institute Audit Report 2022-25





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



rector, Green Mentors

#### REPORT ON GREEN AWARDS

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN, has secured the 39th rank across India in the Green Institutional Rankings 2022 awarded by R World Institutional Ranking. World Institutional Ranking believes that almost all forms of sustainability on the planet correlate to human conduct and practicing sustainable education by growing more plants around the campus and promoting as Green Institution.

#### SUSTAINABLE INSTITUTIONS OF INDIA

THE GREEN INSTITUTIONAL RANKINGS 2022

### Certificate of Excellence

IN PURSUIT OF EXCELLENCE TOWARDS PRACTICING SUSTAINABLE EDUCATION, THIS CERTIFICATE IS AWARDED TO

### VIGNAN's Institute Of Engineering for Women

and is ranked No. 39 across India in the Green Institutional Rankings 2022.

R
World Institutional
RANKING

**Executive President** 

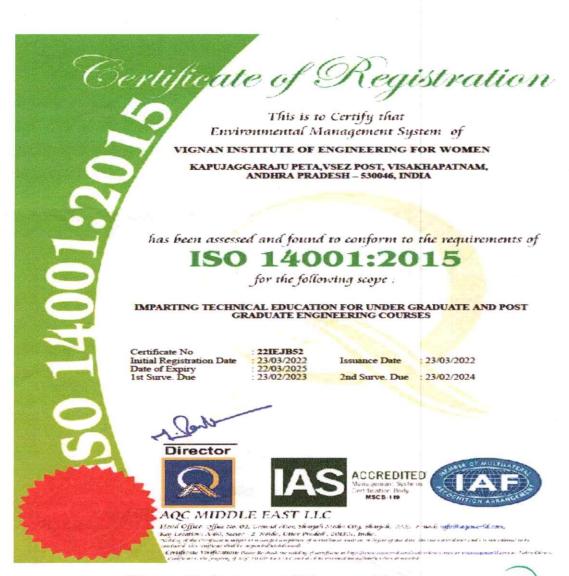
Green Award by R World Institutional Ranking

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### **VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN**

Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN, has been assessed and found to conform to the requirements of ISO 14001:2015 and certified that Environmental Management System has issued certificate of registration on 23-03-2022. An Environmental Management System helps our organization to be in control and successfully manage the most significant environmental aspects, e.g. emissions, waste-handling, utilize natural resources, and energy-efficiency.



ISO Award by Environmental Management System



Vignan's Institute of Engineering for Women K.J. Peta, VSEZ (P.C Visakhapatnam-4







VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN is awarded with

# GREEN CAMPUS AWARD 2018

Appreciation for their commitment and service towards Green Campus Initiatives

DATE

10th SEP 2018





Jo Dr. J. Siva Satyanarayana

President - 2018









# VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN is awarded with

# GREEN & SMART CAMPUS AWARD 2020

In Appreciation for their commitment and service towards Green & Smart Campus Initiative

15-09-2020

DATE



PRINCIPAL gnan's Institute of

Engineering for Womds . K.J. Peta, VSEZ (P.O.)

HGF S. SAPTHAGIRI REDDY PRESIDENT -2020

### BEYOND THE CAMPUS ENVIRONMENTAL PROMOTION ACTIVITIES

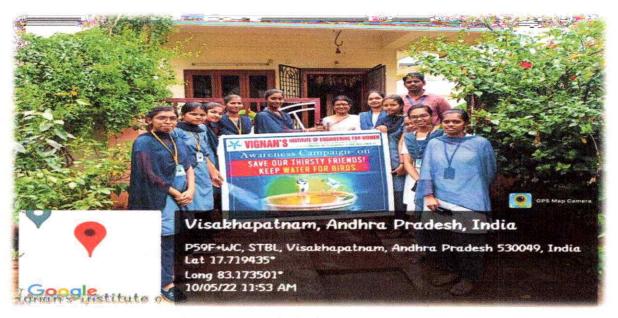
S.NO	ACADEMIC YEAR	ACTIVITIES	PLACE	DATE
1	2021-22	Awareness Campain on Save our thirsty friends keep waterfor birds	STBL Colony, Visakhapatnam	10-05-2022
2	2021-22	Awareness Campaign on GoEco	Primary School Yadavajaggarajupeta, Visakhapatnam	02-05-2022
3	2021-22	Awareness Campaign to Save Soil	Kapujaggarajupeta STBL, Visakhapatnam	28-04-2022
4	2020-21	Haritha Haram Program	Kapujaggarajupeta village, Visakhapatnam	23-07-2021
5	2019-20	Water harvesting Program	Aripaka village, Sabbavaram Visakhapatnam	27 -10-2019
6	2019-20	Awareness Program on Pollution And Its Effects	Amrutapuram village, Sabbavaram, Visakhapatnam.	30-09-2019
7	/111X-14	Eco-rally on savethe drop	Beach road, Visakhapatnam	25 -08-2019
8	2018-19	Awareness on Swachh Survekshan	Kapujaggarajupeta village, Visakhapatnam	05-01-2019
9	2017-18	Awareness on Eco- friendly Vinayaka	Sector-1,Duvvada, Visakhapatnam	24-08- 2017

NSS Co-Ordinator

## AWARENESS CAMPAIGN ON SAVE OUR THIRSTY FRIENDS KEEP WATER FOR BIRDS

Birds are adorable creatures and they need your help. Summers are harsh on birds. Birds deserve to be loved and fed some water. So, the students of "VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN" visited STBL colony and created awareness to feed birds with water this summer.

Students distributed the hand-made vessels that are prepared with old water bottles to the villagers and spoke about the importance of feeding birds with some water.



Awareness to feed birds with water

NSS Co-Ordinator





### **VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN**

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Awareness Campaign to Save thirsty birds

**NSS Co-Ordinator** 

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#### AWARENESS CAMPAIGN ON GO ECO

Paper isn't just more recyclable than other materials it's also easier to reuse with little environmental impact. The use of plastic bags will save the environment from pollution. So, The students of "VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN" visited Primary School Yadava Jaggarajupeta, Green city to create awareness on using paper bags instead of plastic bags. The students trained children over there to make paper bags and all of them participated very enthusiastically. We were fortunate to obtain the contribution of our Academic director Prof. A. Sesha Rao sir, college Principal Dr. J. Sudhakar sir, NSS PO Dr. K P Suhasini mam, various dept. HODs and the faculty members have accompanied the event.



Awareness on using paper bags

NSS Co-Ordinator



### **VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN**

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Awareness on Go Eco

NSS Co-Ordinator



Principal



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#### AWARENESS CAMPAIGN TO SAVE SOIL

In order to spread awareness among the people, an "Awareness Campaign to Save Soil" program is held on 28<sup>th</sup> May, 2022 in Kapujaggarajupeta with the caption "Our Earth Buddy". Principal had explained the importance of soil and he elaborated how much it is important to the environment. He suggested the students to reduce usage of plastic on their personal occasions too to enhance the greenary on the planet and use organic methods for plantation to improve the amounts of nutrition that we get from the organic methods of planting and soil conservation.



Awareness Campaign to Save Our Earth Buddy

NSS Co-Ordinator

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**Awareness Campaign to Save Soil** 

**NSS Co-Ordinator** 

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### HARITHA HARAM PROGRAM

Haritha Haram program organized by our institution in Kapujaggarajupeta village on 23rd, July, 2021 with social responsibility. The main motto of this programme is sought to be achieved by a multi-pronged approach of rejuvenating degraded forests, ensuring more effective protection of forests against encroachment and conservation measures following the watershed approach.



Awareness program on protection of forests

NSS Co-Ordinator



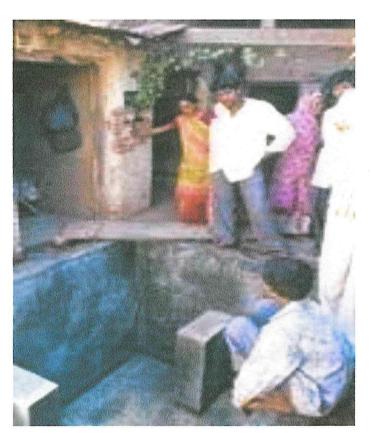


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#### WATER HARVESTING PROGRAM

The main aim of this program is to cater the need of water in Aripaka and Bangarammapalem villages. This program will not only be helpful to fulfill the need of water to villages, but also to increase the groundwater levels and reduce the depletion of reservoirs. Keeping in mind the increasing water demands, quality of water supply, variations in water availability, and also advantages and disadvantages of collecting the rainwater. It was planned to design the rainwater harvesting in the villages with support of UNNAT BHARAT ABHIYAN.





S Co-Ordinator

PRINCIPAL Vignan's Institute or Engineering for Women K.J. Peta, VSEZ (P.O.), Visakhapatnam-49

Principal

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### **AWARENESS ON POLLUTION AND ITS EFFECTS**

VIGNAN'S Institute of Engineering For Women and -NSS unit has organized awareness programme on "Say no to Plastic" in Amrutapuram Village, Visakhapatnam on 30th September, 2019. This Program benefits the students to create awareness amongst all sections of society about the importance of biodegradable bags. A Report on Awareness on Pollution and Its Effects: Some of the faculty from the VIEW had conducted an awareness programme on pollution and its Effects. There are different kinds of pollution which originate from air, water, sound that are hazardous to the humanity as well as animals. To create effect about the dangers of pollution, the students are shown slides in graphic presentation.



Distribution of biodegradable bags

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#### ECO-RALLY ON SAVE THE DROP

The department of IT has organzied a rally on "Save Drop" in collaboration with the IT Ramphants, on 25.08.2019.

The objective of this rally is to save the water and to learn the water conservation. By this event people will get to know the importance of every drop to generate the power. From this a slogan has come out "Save water and save the environment". "Save water and it will save you".



NSS Co-Ordinator

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Principal



### **VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN**

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### Conservation Of Water Eco Rally













#### A Eco-Rally on water conservation



A Paper clipping on water conservation

NSS Co-Ordinator

Principal
PRINCIPAL
gran's Institute of

#### AWARENESS ON SWACHH SURVEKSHAN

VIGNAN'S Institute of Engineering For Women and NSS cell has organized an awareness rally on "Swachh Survekshan" on 05<sup>th</sup> January 2019. NSS Student volunteers have visited Kapujaggarajupeta village and cleaned entire village with the motto of save the environment and created awareness on tidiness. Some of the staff members and students have participated in this program Swachh Bharat Abhiyan is the most significant cleanliness campaign by the Government of India.



Awareness rally on Swachh Survekshan

NSS Co-Ordinator

#### AWARENESS ON ECO-FRIENDLY VINAYAKA

VIGNAN'S Institute of Engineering For Women and NSS cell has organized an workshop on 24<sup>th</sup> August, 2017 titled 'ECO GANESHA' with the association of a NGO i.e., Vaisakhi organization, Visakhapatnam. This program benefits the volunteers to understand the importance of Environmental concern.



A poster on Eco friendly Vinayaka

NSS Co-Ordinator



### **VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN**

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Eco- Friendly Vinayaka



Distribution of Eco-friendly Vinayaka



Principal

### **VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN**

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#### REPORT ON GREEN CAMPUS INITIATIVES

Vignan's Institute of Engineering for Women made every effort to create awareness on environmental challenges among staff & students by conducting various programmes under green campus initiatives.

The green campus initiatives include

- Green landscaping with ornamental trees and plants.
- Pollution free campus with restricted entry of automobiles.
- Designated parking spaces in the college premises for two wheeler, four wheeler &
   battery powered vehicles separately with sign boards.
- Advising students to use bicycles & E-Vehicles inside the campus.
- Ban of single use plastic in college premises & instructions to use only bio-degradable plastic are circulated among students & staff.
- Designated pedestrian friendly pathways are laid in the campus with shade of trees on either sides of roads.
- Various plantation programmes being conducted periodically on special days like Earth day, World Environment days etc.,
- Various awareness programs are conducted on "Preparation of Paper bags & making of Jute & cloth bags" to avoid use of plastic bags.

The College is established in 6.91 acres of land where 70% is covered with greenery. The premises consists of 3 major blocks designed with optimum day lighting, program ventilation having wide corridors with indoor plants on either side.

As an outcome of all the efforts made by Vignan's Institute of Engineering for Women, the institution received various awards & recognitions for maintaining green campus.

- Received Green Campus Award from JCl waltair, as an appreciation of commitment & service towards Green Campus Initiatives in 2018.
- Received Green & Smart Campus award from JCI waltair, as an appreciation of commitment & service towards Green Campus Initiatives in 2020.
- Received ISO Certification for effective environment management system & conforming to the requirements of ISO 14001:2015 in 2022.
- Secured 39<sup>th</sup> rank across India with a certificate of excellence in the Green Institutional Rankings 2022 awarded by R World Institutional Ranking in pursuit of excellence towards practicing sustainable education.