

1. Alternate sources of energy and energy conservation measures

V.S.R Government Degree & PG College in Movva has established an Alternative Energy Sources program designed to implement and utilize renewable energy sources in a systematic manner, with the aim of minimizing their environmental impact. This initiative provides students with opportunities to actively participate in initiatives aimed at contributing to environmental protection.

Solar Energy - Solar energy comprises radiant light and heat from the Sun, harnessed through various technologies such as solar power for electricity generation, solar thermal energy for processes like water heating, and solar desalination. As a crucial renewable energy source, solar technologies are broadly categorized as passive solar or active solar, depending on their methods of capturing, distributing, or converting solar energy into power. The abundant availability of solar energy makes it an exceptionally attractive source for electricity. However, the practical utilization of solar energy by humans is influenced by factors like geography, time variations, cloud cover, and available land. A rooftop solar power system, or rooftop PV system, is a photovoltaic (PV) system with solar panels installed on the rooftop of residential or commercial buildings for electricity generation.

Over the last few decades, solar energy has emerged as one of the most efficient among the inexhaustible and renewable energy sources. Solar panels capture energy that can be employed for diverse purposes.

The college has undertaken various initiatives to harness solar energy effectively, leveraging its distinctive infrastructure. This includes the installation of On-grid solar rooftop panels capable of producing an average solar energy output of 20 kW. The institution employs this solar energy technology, and to promote the use of renewable energy, awareness programs are organized among the faculty and student community.

Adoption of LED Bulbs

Power-Efficient Equipment - LED bulbs, packed with the necessary energy, can consume up to 90% less power than traditional incandescent light bulbs, showcasing remarkable efficiency. Throughout the college, LED bulbs are strategically utilized to ensure adequate lighting. In street lights and various areas across the campus, CFL fittings with higher wattage ratings have been substituted with LED fittings possessing lower wattage but maintaining the same luminous

output. Moreover, the campus incorporates Energy Star certified products, including air conditioners and other appliances, contributing to enhanced energy efficiency.



Solar Panels Placed on the roof of the college



Solar Panels Placed on the roof of the college



Solar Panels Grid link Placed in the college opposite to the principals chamber.



Solar Junction Box Placed in the college opposite to the principals chamber.



5Star Rated A/C used in the college to save Power.



LED Lights are used in the college to save Power.



WINDSTREAM ENERGY TECHNOLOGIES INDIA PVT. LTD.
 312 Kubera Towers Narayanaguda, Hyderabad Telangana State 500 029,

GSTIN: 36AABCW4607K1Z6

TAX INVOICE

Original for Buyer	
Duplicate for Transporter	
Triplicate	
Extra Copy	

Buyer / Billing Address

Name: Vemuri Sundara Ramaiah Government Degree & P G College
Address:
 The Principal,
 VSR Govt. Degree & PG College,
 Movva, Krishna, Andhra Pradesh-521135.
 Contact Person: Dr.V.R.Jyotsna Kumari
 Contact Ph No: 9948121714

GST NO: Nil
 State: Andhra Pradesh
 State Code: Nil

Invoice No: :033/17-18
 Date Of Issue: 14/09/2017
 Place Of Supply: Hyderabad
 State: Telengana

Consignee / Shipping Address:

Name: Vemuri Sundara Ramaiah Government Degree & P G College
Address:
 The Principal,
 VSR Govt. Degree & PG College,
 Movva, Krishna, Andhra Pradesh-521135.
 Contact Person: Dr.V.R.Jyotsna Kumari
 Contact Ph No: 9948121714

GST NO: Nil
 State: Andhra Pradesh
 State Code: Nil

State Code: TS
 Mode of Transport: By Road
 Vehicle No: AP 24 TB 3059
 Transporter Name: Y R EXPRESS LOGISTICS

S No:	Description of Product	HSN Code	UoM	Qty	Rate	Amount	Disc	Taxable Amount	CGST		SGST		IGST		Total Amount
									Rate	Amount	Rate	Amount	Rate	Amount	
1	<u>RENEWABLE ENERGY DEVICES AND PARTS:</u> Renewable Energy 20 KW On Grid System	84128030	Nos's	1	1604762	1604762	0%	1604762	0%	0	0%	0	5%	80238	1685000
	freight				0	0	0	0	0	0	0	0	0%	0	0
	Insurance				0	0	0	0	0	0	0	0	0	0	0
	miscellaneous				0	0	0	0	0	0	0	0	0	0	0
	Total				0	0	1604762	0	0	0	0	0	0	80238	1685000

Total Amount In Words: Rupees Sixteen Lakhs Eighty Five Thousand only

Total Taxable Amount: 1604762
 Total IGST: 80238
 Invoice Total: 1685000

Bank Details:
 Name: WindStream Energy Technologies India Pvt Ltd
 A/c no: 007605004209
 Bank: ICICI Bank details
 Branch: Jubilee hills, Hyderabad
 IFSC Code: ICIC0000076

Terms and Conditions / Notice to the Customer

- 1) No claim recognized unless reported in writing to company with 7 days from date of receipt of goods or before the installation.
 - 2) Dispute's if any will be subjected to seller court jurisdiction only
 - 3) The price offered is inclusive of all taxes.
 - 4) The price is inclusive of standard Roof-Top Panel Mounting, if Structure Customized structure will be charged extra as per site requirements.
- i) Payment Terms: 80% Payment along with PO and 20% payment after Installation Commissioning.
 ii) Delivery: 45 days (working days) from the date of receipt of PO and after giving advance.

Certified that the particulars given above are true and correct for WindStream Energy Technologies India Pvt. Ltd.

[Signature]
 Authorized Signatory

Address
 Regd Office: 312 Kubera Towers Narayanaguda, Hyderabad Telangana State 500 029,
 Corporate Office: G2, SSH Pride, Plot No. 273, Road No. 78, Jubilee Hills, Hyderabad-500 096, Phone No: 040 23548779
 Factory : 26/A, Hardware Park, Kancha Imarath, Raviryal Village, Maheswaram Mandal, R R Dist., Telangana State- 500 005
 www.windstream-inc.com

V.R. Jyotsna



Date: 29-01-2018

Government of Andhra Pradesh
GER 19-A

Form of Utilization Certificate

V.R. Jyotsna
PRINCIPAL

S. No.	Cheque No. & Date	Title of the work	Amount paid (Rs.)
1	RTGS , dtd: 16-08-2017	Solar Panel	13,48,000
2	303233, dt: 11-01-2018	- Do -	3,36,942
Total Rs.			16,84,942

It is certified that the amount of Rs. 16,84,942/- (Rupees Sixteen lakhs Eighty Four Thousand Nine Hundred Forty Two Only) was utilized towards installing of solar panel at Government Degree College VSR GD & PG College, Movva, Krishna executed by the Windstream Energy Technologies India Pvt. Ltd., Hyderabad vide the letter from the State Project Director, RUSA, O/o Commissioner of Collegiate Education, AP, Vijayawada, dt: 23-11-2017 and the said amount was utilized for the purpose of installing solar panel for which it was sanctioned and in accordance with the terms and conditions as laid down by the RUSA.



Windstream Energy Technologies
India Pvt. Ltd,
Hyderabad
K. Syama Sundara Rao

Signature : 1) Principal
(Dr.V.R.Jyotsna Kumari)

2) RUSA Coordinator
(Mr.S. Jagan Mohan Rao)

Date:
Seal:

2. Management of the various types of degradable and non degradable waste

1) Solid Waste Management: -

Waste pollution is not only visually displeasing but also leads to the accumulation of a significant amount of litter. Solid wastes, which pose potential health hazards, can be classified into three main categories: Biodegradable, Non-Biodegradable, and Hazardous Waste. Biodegradable waste encompasses items such as food waste, canteen waste, and waste from toilets. Non-Biodegradable waste consists of materials like plastic, tin, glass, and bottles. Hazardous waste includes substances that can pose a threat to environmental health, such as cleaning chemicals and various laboratory-related products.

At V.S.R Government Degree & PG College, Movva, every department generates waste, which is then deposited in small waste bins within the respective departments. The biodegradable waste is efficiently converted into fertilizer through composting within the college campus.



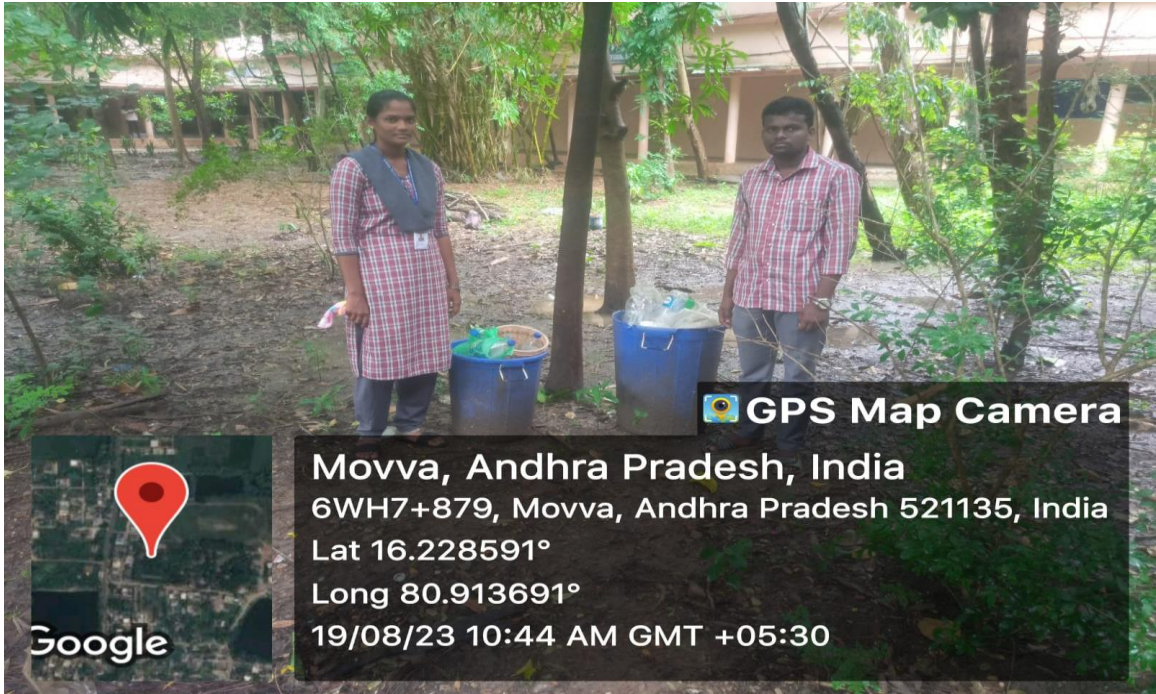
Non-Bio Degradable Waste Bin to collect the waste



Bio Degradable Waste Bin to collect the waste



Waste Collection to Dispose the Waste



Students are collecting the waste in the part of swatchabharat



On 01/10/2022 in the part of nss activity students are cleaning the campus



Staff & Students are cleaning the campus

2) Liquid Waste Management: -

Liquid wastes are primarily discharged to enhance the groundwater quality. These liquid by-products originate from science laboratories such as Chemistry, Botany, Zoology, and the canteen. The college produces two main categories of liquid waste:

- a) Sewage Waste
- b) Laboratory and Canteen effluent.



Waste water from RO plant sent to ground to recharge the ground water

3) E-Waste Management: -

V.S.R Government Degree & PG College has implemented a highly effective system for the disposal of E-waste originating from diverse sources. The E-waste is generated in the Computer Lab, Science laboratories, and academic and administrative offices. This includes malfunctioning or outdated items such as lab instruments, circuits, desktops, laptops and accessories, printers, charging and network cables, Wi-Fi devices, sound systems, display units, UPS, Biometric Machines, Scientific Instruments, etc. Every effort is made to maximize the

utilization of these wastes. Equipment that cannot be reused or recycled is carefully stored for future disposal.



E-Waste Bin is placed in the college to collect E-Waste and saved for further dispose

3. Water conservation

The objective of this policy is to reduce water wastage and promote water conservation. We endeavor to adhere to the guidelines set forth in the National Water Policy on campus through the implementation of water conservation measures.

On campus, water conservation primarily revolves around rainwater harvesting, where rainwater is collected and channeled into pond during the rainy season for percolation. The campus maintains bore wells to fulfill its water needs, implementing measures to groundwater recharging to ensure sustainable usage.

The promotion of water conservation is actively pursued through initiatives such as tree planting, green campus activities, and the organization of seminars and workshops. To further reduce water wastage, the campus emphasizes the practice of reusing and recycling water, with recycled water from RO water plant specifically employed for irrigating plants within the premises.

Additionally, the campus extends its efforts beyond its borders by organizing outreach activities aimed at raising awareness and educating the local community about the significance of water conservation and the various methods available for its preservation.



Pond in the college campus to collect & store rainwater to recharge ground water



Pond in the college campus to collect & store rainwater to recharge ground water



RO Water Plant for staff & Students drinking purpose.



RO Water Plant for staff & Students drinking purpose.

4. Green campus initiatives

Our college implements Green Campus Policy.

SAVE SOIL



Save Soil is a global movement launched by Sadhguru, to address the soil crisis by bringing together people from around the world to stand up for Soil Health, and supporting leaders of all nations to institute national policies and actions toward increasing the organic content in cultivable Soil. Our college NSS unit in association with IQAC, organised a programme on 06-07-2022 to raise awareness of the issue of Soil Health and activate people's support for the Save Soil movement.

JAL SHAKTI ABHIYAN: CATCH THE RAIN

Our college NSS unit on 20 July 2022 organised a campaign on "Jal Shakti Abhiyan: Catch the Rain" which is an initiative of Ministry of Jal Shakti is taking up a nation-wide campaign "Jal Shakti Abhiyan: Catch the Rain"(JSA:CTR) focusing on saving and conserving rainwater with the theme "Catch the rain, where it falls, when it falls" from 29 March 2022 to 30 November 2022 in the pre-monsoon and monsoon periods of 2022, covering both urban and rural areas of all the districts in the country.



OZONE DAY

World Ozone Day or International Day for Preservation of Ozone Layer is observed on September 16 every year. The motto behind its observation is spreading awareness among people about Ozone Layer depletion and searching for possible solutions to preserve it. The day marks nearly three decades of global cooperation under the Montreal Protocol to protect the ozone layer and the environment. On this occasion, the Department of Chemistry organized Elocution and Drawing competitions. First, Second and Third Prizes were given to the winners. All the students and lecturers stressed on the preservation of Ozone layer by limiting the production of chemicals that lead to its depletion. The theme of this year is "global cooperation protecting life on earth." There is an urgent need for global cooperation to solve climate concerns and protect life on Earth for future generations.



World Environment Day

World Environment Day is celebrated on June 5 every year all across the globe to spread the importance of conserving planet Earth, our one and only real home. The theme for 2023 solutions to plastic pollution under the campaign Beat Plastic Pollution. In this connection, our college Department of Biotechnology and Botany, celebrated this day by taking Pledge, planting trees and recycling of organic and waste material.





An Orientation Programme on Collegiate Education Job Portal (CEJP) through Real Time Testing

Our Honorable Commissioner of Collegiate Education Dr. Pola Bhaskar I.A.S, along with his technical team visited our college on 15 June 2023 and launched Collegiate Education Job Portal (CEJP) through real time testing. On this occasion, Dr. Pola Bhaskar gave a comprehensive and extensive briefing on various digital initiatives introduced by him in education. He also explained the importance of enrollment of final year students in (CEJP) for their recruitment. Employer's registration was done on a trial base. The programme concluded with tree plantation.



Tree Plantation Done by Dr.Pola Bhaskar IAS our beloved commissioner



Plantation Program by the students & staff



Plantation Program by the students & staff on 12/07/2023



Plantation by RJD ,Principal & staff on 03/08/2023

5. Disabled-friendly, barrier free environment

Ramps

The institution is committed to ensuring inclusivity and accessibility for all members of the community, particularly those with disabilities. To achieve this, comprehensive ramp facilities have been implemented throughout the campus, providing disabled individuals with easy access to various locations. These ramps, seamlessly integrated into the architecture of all campus buildings, are not just a practical necessity but a testament to our dedication to creating a welcoming environment for everyone.

The reduced inclination of these ramps is a deliberate design choice, prioritizing the safety and ease of movement for wheelchair users. Careful attention has been given to meeting specific specifications required by disabled persons, considering factors such as slope, width, and overall design to ensure optimal functionality and user-friendliness.

Beyond the ramps themselves, the corridors within our buildings have been intentionally designed to be wide enough to effortlessly accommodate wheelchairs. Recognizing the wheelchair as one of the most essential mobility devices for individuals with disabilities, we strive to make every part of our campus seamlessly accessible.

Moreover, the institution provides wheelchairs with ample seating space, recognizing that comfort and usability are paramount. Whether a user opts for independent operation or seeks assistance, our wheelchairs are designed to meet diverse needs. As part of our commitment to accessibility, these wheelchairs are strategically placed near ramps based on the specific requirements of the campus layout, ensuring that they are readily available where needed.

This holistic approach to accessibility goes beyond mere compliance with standards; it reflects our ethos of creating an inclusive and supportive environment for all members of the community. By addressing the unique needs of individuals with disabilities, we aim to foster a campus atmosphere where everyone can thrive and participate fully in academic and social activities.