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7.1.2 The Institution has facilities and initiatives for

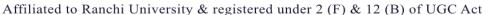
- 1. Alternate sources of energy and energy conservation measures
- 2. Management of the various types of degradable and non-degradable waste
- 3. Water conservation
- 4. Green campus initiatives
- 5. Disabled-friendly, barrier-free environment

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	(b) Use of LED Bulbs	
	(c) Naturally-lit and well-ventilated classrooms	
	(d) Save Energy Signboards	
	(e) Energy Audit	
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1. ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

The college has implemented several measures to promote sustainable energy practices and reduce energy consumption. Some of the measures include:

- (a) Installation of Solar Panels
- (b) Use of LED Bulbs
- (c) Naturally-lit and well-ventilated classrooms
- (d) Save Energy Signboards
- (e) Energy Audit

(a) Installation of Solar Panels

The installation of solar panels has helped to reduce our reliance on non-renewable sources of energy. Since its installation in the year 2019, the 33 KWp rooftop solar panel has generated in-house energy resulting in cost saving.



Rooftop Solar Panels-Geotagged photograph of the facility,



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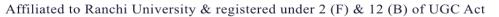
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Principal
Yogoda Satsanga Mahavidyalaya
Jagarnathpur, Dhurwa, Ranchi-4



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Yogoda Satsanga Mahavidyalaya, Ranchi

Renewable Energy System

a) Solar Power Plant

Solar Power plant of capacity 33kWp already installed in the campus.

S. No.	Particulars	kw	Voltage	THDv %	Current	THDi %	P.F.	Hz	Measured kW	Measured kVA	(%) Loading
1	Solar power Plant	33	411.5	2.3	36.1	1.4	1.00	50.05	25.70	25.73	71.66



PGS Energy Services Pvt. Ltd.

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Specifications-An excerpt of the Energy Audit Report

a) Installation of Solar Power Plant

Installation of solar power plant is feasible for the building considering the orientation.

Equipment cost	Unit	Value
Size of power plant	KW	33
Cost	Rs./kW	38,236
Total Cost Without Subsidy	Rs.	12,61,788
Total Electricity Generation From solar plant Annual	kWh	45,540
Life Time Generation (25 Years)	KWh	11,38,500
Tariff @ Rs 6.25/kWh		
Monthly Saving	Rs	23,719
Annually Saving	Rs	2,84,625
Life Time Saving (25 Years)	Rs	71,15,625
Carbon dioxide emissions mitigated	Tonnes	934



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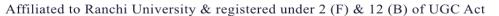
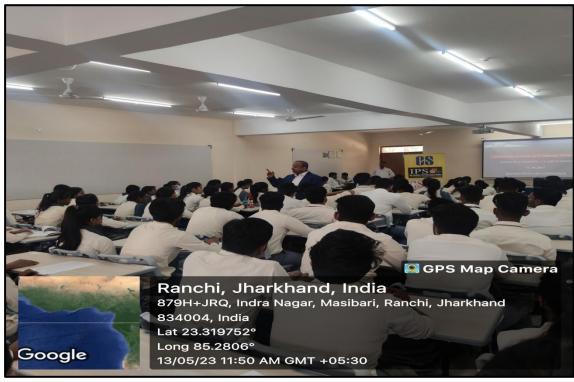




Table showing cost savings and reduced emissions-An excerpt of the Energy Audit Report, 2023.

(b) Use of LED Bulbs/Lights

Additionally, we have transitioned to **using LED lights**, which consume less energy. This has resulted in significant energy savings for the college.



Use of LED lights on the campus.

(c) Naturally Lit and Well Ventilated classrooms





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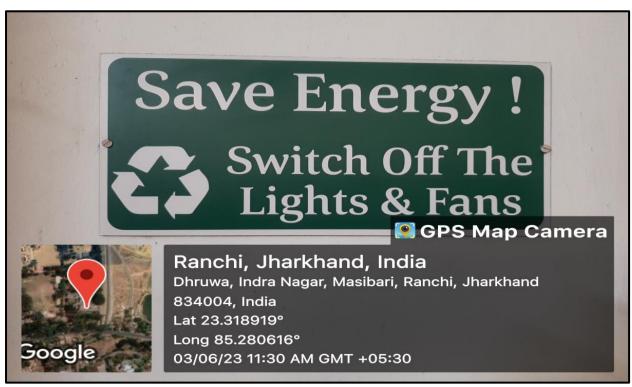




Naturally-lit and well-ventilated classrooms.

(d) Save Energy Signboards

To further promote energy conservation, we have also implemented the use of "save energy" sign boards in almost all classrooms and offices, which serve as a reminder to students and staff to turn off lights and other electrical devices when not in use.



Save Energy signboards.

(e) Energy Audit

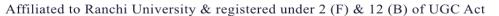
PGS Energy Services Pvt. Ltd., an Accredited Energy Auditor and ESCO Empanelled firm with the Bureau of Energy Efficiency (BEE), Ministry of Power, Government of India, conducted an energy audit at the college in February 2023. The purpose of the **energy audit** was to identify areas where it can further reduce energy consumption and implement energy-saving measures. Some energy conservation measures suggested have been duly complied with, however some measures like replacement of 75W Ceiling Fan with 30W BLDC fans entails huge expenditure. The Mahavidyalaya plans to implement that recommendation phase-wise in the years to come.

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Yogoda Satsanga Mahavidyalaya, Ranchi

Team Visit Photographs



PGS Energy Services Pvt. Ltd.

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Team Visit Photographs

Overall, these sustainable energy practices and conservation measures demonstrate the college's commitment to promoting a greener future and reducing our environmental impact.





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2.MANAGEMENT OF THE VARIOUS TYPES OF DEGRADABLE AND NON-DEGRADABLE WASTE

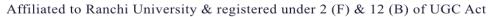
Effective waste management is essential to maintaining a clean and healthy environment. To this end, our institution has implemented a comprehensive waste segregation system, which involves the use of **color-coded bins** to separate degradable and non-degradable waste.





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The **degradable waste is then composted in a designated pit**, and the resulting manure is utilized in our gardens.



Leaf litters being collected for the purpose of composting.



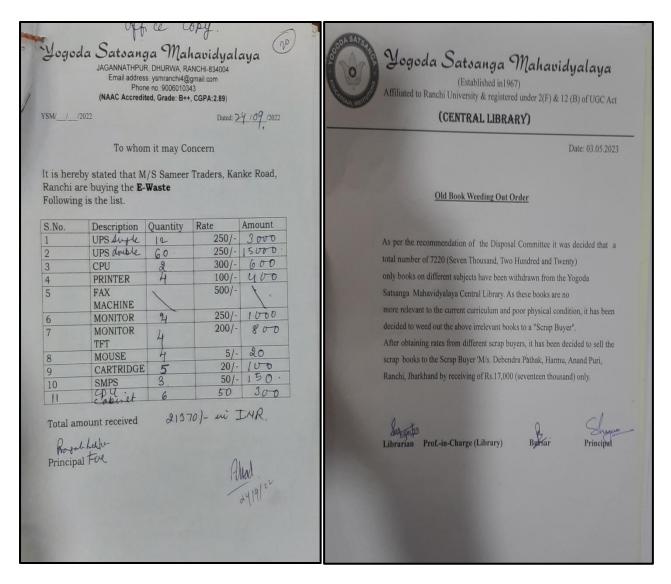
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We also have a **disposal committee in place**, which ensures and the proper **disposal of e-waste through an auction process and** the timely weeding out of old books, newspapers etc. .The following are the receipts/documents of the systematic disposal.



Receipt of e-waste Disposal.

Weeding out of Old Books

In addition to solid waste management, we are also mindful of the need to properly manage our waste water to maintain a clean and ecologically aesthetic campus environment. Therefore, we have established a **well-designed drainage system** for all our buildings to ensure that waste water is drained out properly.



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3.WATER CONSERVATION

We have set up a **rainwater harvesting system** on the campus to capture rainwater and recharge groundwater.



Rain Water Harvesting

Another important water conservation measure we have adopted is the **installation of tap aerators**, which help reduce the amount of water used by taps without compromising their functionality. We have also **put-up signboards** across the campus to raise awareness among students, faculty, and staff about the need to conserve water and how they can contribute to this effort.





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In addition, we have a **dedicated in-house staff member, Sri** Binod ,who is responsible for fixing leaks and ensuring that all plumbing systems are in good working condition. This helps us to identify and fix leaks in a timely manner, thereby preventing water wastage.

4.GREEN CAMPUS INITIATIVES

Particulars
Energy Conservation Measures
(a) Installation of Solar Panels
(b) Use of LED Bulbs
(c) Naturally-lit and well-ventilated classrooms
(d) Save Energy Signboards
(e) Energy Audit
Water Conservation Measures
(a) Rain Water Harvesting
(b) Tap aerators
(c) Save water signboards
(d) Dedicated Staff to fix issues.
Waste Reduction and Management
(a) Color Coded Bins(Waste segregation)
(b) Compost pits
Environmental Education
(a) Workshop
(b) Webinar
(c) Certification Courses
(d) Also a part of the curriculum
Landscaping with Trees
Green Events and Initiatives
(a) Celebration of Important Days related to Environment
(b) Plantation Drives every year.(On campus as well as beyond campus)
(c) Cleanliness Drives



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	(d) Green Audit
	(e) Signboards/Awareness Messages on Campus.
G.	Sustainable Transportation,
	(a) Use of Bicycles and Public Transport by many students.

D. Environment Education

Besides, the energy and water conservation measures and waste management strategies enumerated above ,we have taken steps to educate our students about the importance of sustainability through sessions on Solid Waste Management, webinar on climate change, Composting Workshop. Recently a certificate course in Solid Waste Management also concluded.

(a) Session on Climate Change and Solid Waste Management.

The college organized an interactive session on Climate Change and Solid Waste Management on December 15, 2022. A total of 125 students participated in the session.



Dr Shyam Pandey, Principal YSM, emphasized the fact that although recycling and zero-waste habits take time, every individual action matters and urged the students to start making changes, as by taking smaller steps towards



The resource person, Mr Prakash Kumar and Mr Binod Kumar, Managing Partner, Urban Kheti, interacted with the students and presented interesting facts about Solid Waste Management, Climate Change & Global Warming. Towards the end of the session, they also shared with the students the



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change, they can contribute significantly to the cause of	ways and means by which we can reduce our waste, reuse our	
the environment.	resources, and recycle our waste to reduce emissions –thereby	
	reducing our greenhouse gases!	

(b) Workshop on Composting

The event titled 'From Waste to Resource: Promoting Sustainability through Campus Composting' was organized by the Quality Assurance Cell (IQAC) of the college in collaboration with the Institute of Forest Productivity(IFP) Ranchi, Urban Kheti, and Team Green on May 19 2023. The event's uniqueness lies in its hands-on approach, providing participants with practical experience and education about sustainability. Mr. Harendar Kumar from Team Green and Mr. Prakash Kumar guided the students on waste segregation and demonstrated compost bed preparation and key aspects related to converting Jagannaathpur Temple's puja waste & leaf litters of our campus into compost.



(c) Certification Course in Solid Waste Management

From May 4th to May 11th, 2023, the Internal Quality Assurance Cell(IQAC) collaborated with Urban Kheti to organize a 7-day (30-hour) Certificate Course in Solid Waste Management. This course aimed to promote sustainable development and environmental consciousness, aligning with the objectives of the National Education Policy (NEP).



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Certificate Course in Solid Waste Management.



(d) Webinar on Addressing Climate Change : A Call to Action

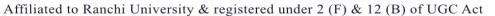
The resource person for the webinar ,**Dr. Prasanjit Mukherjee**,is an eminent botanist with an extensive knowledge of his domain, and has to his credit numerous research papers.He is a member of Jharkhand Biodiversity Board and a Counsellor at Indian Botanical Society.He is an Assistant Professor at K.O.College Gumla.

Dr. Mukherjee spoke passionately about various aspects of climate change, including the impact of population explosion and other contributing factors. He also highlighted the significance of sustainable transportation methods. He encouraged the use of public transport, carpooling, cycling, and walking whenever possible to reduce carbon emissions from vehicles. He also stressed the importance of



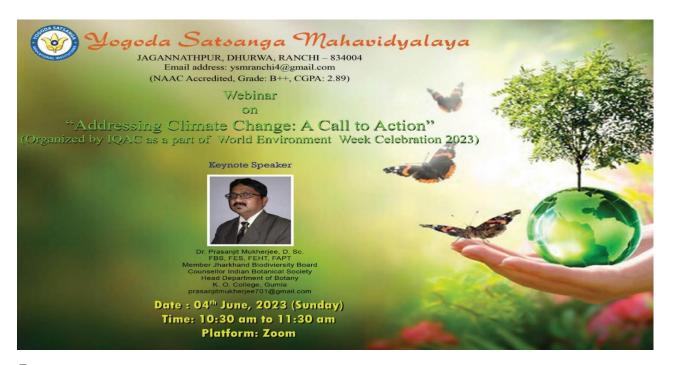
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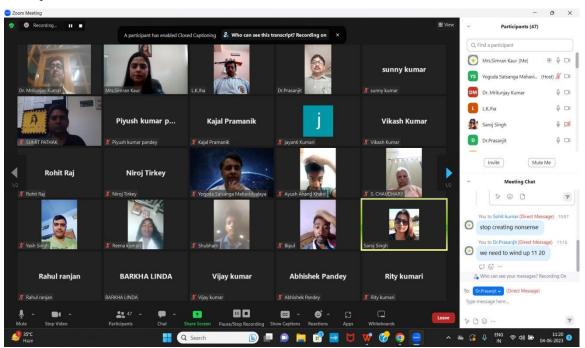




planting trees and creating green spaces to combat deforestation and enhance air quality. His insights shed light on the urgent need for action.



Event poster

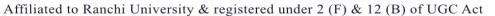


Glimpse of the webinar



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(E)Landscaping with Trees

The college takes pride in being a green campus and has undertaken various initiatives to maintain its lush greenery. With a **green cover of 42%**, we continue to make efforts to enhance our green campus initiatives.



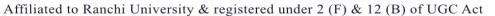


Clean and Green Campus of YSM..



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We have a **botanical garden** and have also done **extensive landscaping with trees** to ensure that the campus is aesthetically pleasing.



Botanical Garden at YSM.

Apart from this, we have a **dedicated team of staff** responsible for garden maintenance.



Dedicated garden maintenance team of YSM.

(F) Green Events and Initiatives

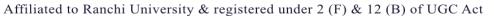
(a) Celebration of Important Days

We **celebrate important days related to the environment** as a part of a green campus initiative because it helps raise awareness and promote sustainability practices among students, faculty, and staff.



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On 5th June 2023, World Environment Day was celebrated at Yogoda Satsanga Mahavidyalaya with the collaboration of **Team Pehchan**,a student driven body of YSM, and **National Thermal Power Corporation(NTPC)**.

Mother Earth Day

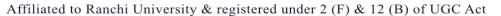


22nd April 2022.



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Van Mahotsav



Educating the importance of trees in our lives through a street play performed by the students of Drama Society of the Mahavidyalaya.



A melodious Nagpuri song praising the greenery and beauty of Jharkhand sung by the students of Music Society of the Mahavidyalaya.



Yoga Asanas performed by the students of the Mahavidyalaya.

Van Mahotsav 2019



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The planting of sapling by Swami Ji in the campus of YSM during Van Mahotsav, 2019.





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Van Mahotsav during the Covid- pandemic(2020)

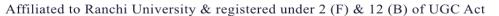


The participation of students and faculty members in the Plantation Drive.



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(b) Plantation Drives

Mega Plantation and Distribution Drive

Team Pehchan, a student driven society, under the aegis of the Department of Life Skills(DLS), organized a Mega Plantation and Distribution Drive in the Mahavidyalaya in association with the Department of Forest, Government of Jharkhand on September 8, 2022.



September 2022



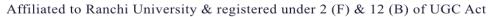
This was followed by a series of cultural performances which aimed at sensitizing the students towards the environmental issues and also inculcating in them a sense of responsibility and care towards Mother nature.





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The students, through an animation video, also presented how each one of us can contribute to the cause of environment.

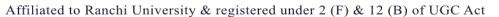


Students participating in the Plantation Drive. (2022)



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Plantation after the composting workshop(May 2023)

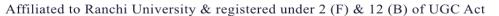


Plantation by NCC Cadets.



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Nukkad Natak



Nukkad Natak organized at the Mahavidyalaya in a bid to raise the awareness about the importance of solar energy among the students (2019).



On the eve of the inauguration of the 33KW Grid connected Roof Top Solar Power Plant at our Mahavidyalaya, an 'On the spot Painting' competition on the theme 'energy conservation' was conducted.



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Cleanliness Drives

Additionally, we believe in **creating awareness** about the importance of a clean environment and sustainable practices among our students. To this end, we have created **informative videos** and shared them with our students to instill environmental consciousness.

Link to the Awareness Video: - https://fb.watch/kWECePAJtH/

We also conduct **cleanliness drives** in and around the campus to keep our surroundings clean and

green.



Cleanliness Drive by NSS Volunteers.



Participation in a cleanliness drive by faculty members.



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Green Audit Certificate



STECH ENERGY & SUSTAINABILITY

STECH Energy Consultancy Services Private Limited,

M-23 Senior Citizen Home Complex,

Sec. P - 4, Kasna Surajpur Road, Greater Noida, 201308, Gautam Buddha Nagar, UP, India.

Phone: +91-7011759744 & 8920383872, Email:- stech.energy1@gmail.com

Certificate

This is to certify that **Yogoda Satsanga Mahavidyalaya** Ranchi, Jharkhand, has conducted Green and Environment Audit of their campus and has submitted necessary data in addition, credentials for scrutiny. The activities and measures carried out by the Institute have been verified based on the report submitted and was found to be acceptable.

The efforts taken by the Yogoda Satsanga Mahavidyalaya, Management, Faculties and students towards Green Building, environment and sustainability is highly appreciated and commendable.

SOHAN BHAGAT



STECH Energy & Sustainability

Audit Team Member: -

Sohan Lal Bhagat (CEA - 0719)

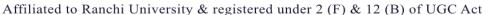
Ankit Shrivastava

Date: 27 April 2021



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(G) Sustainable Transportation

Moreover, majority of our students use bicycles and public transport for commutation(sustainable transportation).





Overall, we remain committed to maintaining our green campus and continue to take steps to further enhance it.



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5.DISABLED-FRIENDLY, BARRIER -FREE ENVIRONMENT

With the provision of ramp and railings,infrastructure of the College is disabled friendly& provision of wheelchair, provision of scribe during exams makes environment conducive for Divyangjan.

Moreover, there is a provision for fee waiver for such special students.



Ramps and rails leading to toilet block.



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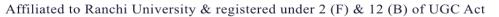


Ramps leading to main building.



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Ramps for easy access to canteen



Provision of Wheelchair for such students.

The fees of Akash Kumar a specially abled student of M.Com (2021-23) has been reimbursed in the Academic Year 2022-23 (from the YSS Scholarship Fund.)



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Jagannathour, Dhurwa	MAHAVIDYAL a, Ranchi - 834 004 Voucher Date:	
Amount Paid to :A.Kas.h. Kuwas		
Rs. 64071- Rupees 6,4071-	*	
Purpose fryment towards fee to Misson Sen I from Scholar Particulars o	whip find.	
CREDIT: Main Cash	Petty Cash Bank A/c	
Bill Reference F/N/19		
Bill Reference F/N/M Dt. & Autho. of Sanction : PAucipal :		
Dt. & Autho. of Sanction : PAuripul : Debit Ledger A/c		Amount
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The IQAC, in its efforts to support differently-abled students, created a WhatsApp group that brought together students with disabilities from various departments. Subsequently, these identified students received personalized counseling sessions, facilitated by Professor Som Prakash, faculty member in the Hindi department. During these sessions, any concerns related to their classes were carefully documented and promptly resolved. In certain instances, the students' guardians were also invited to participate in discussions.



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Counseling sessions for specially-abled students.