

(Affiliated to the University of Burdwan)

Principal's Office,

P.O.:Katwa, Dist.: PurbaBardhaman, WestBengal, PIN: 713130, India.

Mobile: +918101078393 ॥विद्यया विन्दतेऽमृतम्॥

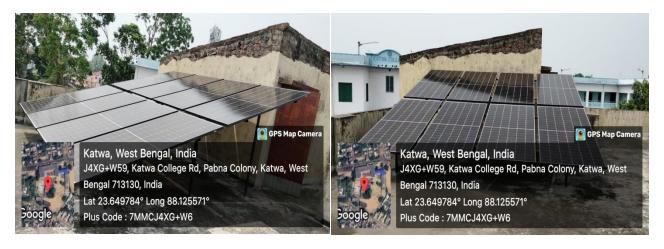
Institutional Facilities for Alternate sources of energy & energy conservation measures

Facilities provided in the college:

1. Solar Energy:

Solar energy is being used in most educational institutions to power classrooms, hostels& canteen of educational institutions across the country.

Katwa college authority started its initiatives for installing rooftop 6.7kVA photovoltaic station in the college premises since January 2024. College authority provided 500sq.m rooftop on the Administrative building for the said work. Though, college authority urged the chairman of W.B. Pollution Control Board to set up a rooftop 10 kVA photovoltaic stations through a letter & ultimately, a rooftop solar station has been installed in the college on 25.05.2024.



Rooftop Solar Panel on the Administrative Building of Katwa College

01/10/2024

Signature of the IOAC Coordinator

Coordinator

IQAC Katwa College **Signature of the Principal**

1898KAR 01/10/2024



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2. Wheeling to the Grid:

A grid-connected system allows any excess electricity; the college produces to be fed back into the grid. Wheeling to the grid system has been recently installed for generation of enough electricity using sun-ray to meet the requirement of electricity of the college.



Wheeling to the Grid

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IQAC
Katwa College

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Principal Katwa College

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3. Sensor-based energy conservation:

Lights in the classrooms, staffroom, corridors & toilets may be kept on in day time also. Motion sensors are used in these places to automatically switch on the light when there is any movement & switch off the light when there is no movement. This can reduce the total load of current consumption in the college premises.





Sensors mounted on the wall of class rooms

4. LED bulbs& LED tube lights:

Katwa College is using LED bulbs & tube lights in the office rooms, laboratories & classrooms of the college by replacing normal tube lights CFL bulbs



LED facility in the class room

LED facility in the staff room

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5. Fixing "Switch off lights &fans when not in use" stickers.



Sticker containing power conservation message

Benefit of the facilities:

- Emission of greenhouse gases in the college campus is reduced to some extent.
- Such facilities are very eco-friendly.
- College can save a lot of money by reducing the load of power consumption.

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Institutional Initiatives for Alternate sources of energy & energy conservation measures

Policy for alternate sources of energy and energy conservation

Purpose:

This policy document on "Alternate sources of energy and energy conservation" describes the policies of Katwa College & provides guidelines for optimal & efficient usage of energy in the college premises promoting sustainability & responsibility towards society and environment.

Statement of Policy:

The policy of Katwa College is to promote responsible energy utilization, promoting sustainable development, by consciously adopting energy conserving practices. Katwa College will develop &adopt best practices to minimize wastage& over-consumption of energy. College is committed to compliance of all applicable laws & regulations. College will involve all the employees & other stakeholders in attaining excellence in practices leading to energy conservation & efficiency maximization.

Policy Objectives:

The long-term goals of Katwa College in adopting a Energy Conservation Policy are:

- i. To assess the energy usage and measure its impact on the environment
- ii. To install photovoltaic solar panels for the generation of alternative energy
- iii. To install LED bulbs in the entire campus to save energy

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- iv. To take additional measures to continually optimize energy consumption
- v. To ensure availability of necessary resources to achieve the objective.
- vi. To adopt usage of advanced technology to minimize energy consumption
- vii. To encourage green initiatives promoting sustainable energy consumption
- viii. To collaborate with government agencies, and local organizations to work in the areas of energy conservation and sustainable development
- ix. To monitor and respond to emerging energy issues
- x. To percolate awareness among employees and students towards best practices promoting optimal energy utilization
- xi. To conduct energy audit periodically

Use of Alternate Sources of Energy:

- The college will promote use of alternate sources of energy such as Solar Energy and Biogas
- The college will procure and commission Solar Power Panels in its premises to meet the demands of electrical energy
- The college will wheel back to the suppliers grid any surplus power generated by Solar Panels
- Increase the use of LED Light

Policy Implementation by all stakeholders of College:

All employees and students of Katwa College shall comply with the following guidelines

Energy Conservation

- Use Natural Light when and where possible
- Turn of light, fans and air-conditioners when not in use
- Turn off Computers, speakers, projectors and all other electrical equipment at the end of every working day
- Use power saving mode / sleep mode for computers when not in use

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- Always set the Air Conditioner temperature at a comfortable level (preferably at 25°C for energy efficiency)
- Bring to the notice of faculties of Department malfunctioning of any equipment, switch, lights, fans and other appliances
- Participate actively in all awareness / promotional activities and events towards energy conservation
- Always use star-rated ISI certified electrical equipment.

Policy Implementation by the Institution:

The Leadership of Katwa College shall comply with the following guidelines

Installation and procurement

- Procure and commission Solar Panels within the campus to tap solar energy for in-house consumption
- Procure clean energy from electricity Supply from WBSEDCL to meet the energy needs of the campuses.
- Ensure that more than 50% of such energy procured is from renewable sources
- Installation of LED bulbs in all departments

Governance:

Energy Conservation

- Ensure proper maintenance of all electrical equipment, Water Equipment, STP, accessories and appliances
- Ensure that purchased equipment are environment friendly and / or meet efficiency standards set by the Bureau of Energy Efficiency (BEE)
- Proactively take up installing new equipment for saving energy and water wherever applicable. This includes but not limited to
 - o Installing LED Bulbs in place of CFL / Fluorescent Bulbs,
 - Installing sensor based energy conservation practices in all classrooms, laboratories, staff rooms, meeting rooms, toilets and other utility areas.
 - o Installing sensor based taps in all toilets.

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- Conduct Switch-Off Drills every day at pre-determined intervals and maintain a log register of such drills. This will be conducted in all depts. in Campus
- Support renewable and carbon-neutral electricity options during any purchasing process
- To select a nodal officer for College to monitor strict compliance with advisory

Awareness

- Conduct awareness campaign on energy conservation, through lecture sessions, webinars, street plays and seminars.
- Conduct awareness program on sustainable development.

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IQAC

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Prayer for Installation of rooftop 10 kVA Photovoltaic Station in College Campus to the Chairman WBPCB, GOVT. of West Bengal

KATWA COLLEGE

(Estd: 1948 ** Affiliated to the UNIVERSITY OF BURDWAN) Principal's Office

Katwa - 713 130 Purba Bardhaman

Tel.: (03453) 255049/255164 Mob: +918101078393 E-mail: <u>katcoll2009@gmail.com</u>

Website:www.katwacollege.ac.in

Ref No: 304/Solar Energy/145

Date: 23.02.2024

The Chairman West Bengal Pollution Control Board (Department of Environment, Govt. of west Bengal

Sub: Installation of rooftop 10 KV/Photovoltaic Station in our college premises

We shall remain ever grateful if you kindly install 10 KVAPhotovoltaic Station for our college. This will help us to use green energy & fight the climate change. We shall provide 500 sq.m rooftop having bright sunlight for necessary work.

Hope your kind consideration in this regard and oblige.

Thanking You,

Yours faithfully,

Marketh 23/07/2029
Principal
Katwa College

Principal Katwa College

Enclose- Electricity consumption bills recently received from the W.B. State Electricity Board.

cortact in of Nodel officer

KATWA COLLEGE



Ref No:478/misc./17

Date: 18.07.2024

True Power Limited,

Reg. Office: Plot No: 07, Pragati Vihar, Takrihit, Indira Nagar, Lucknow:226016 Corporate Office: D-370, Vibhuti Khand, Gomti Nagar, Lucknow: 226010 e-mail-sale@truepowerearthings.in

Sub: Ref. Memo No. 3770-WBPCB-16017(15)/2/2023-SEC (WBPCB)-WBPCB dated

With reference to the above we came to know that your institution had selected for installing 10 KVA rooftop connected solar PV power in our college premises. Mr. Mahendra Bairagi an expert of your office inspected our college on 02/04/2024. But till now the installation works has not done. NAAC peer team will visit our college soon. Under this circumstance I request you to install the solar PV power within 15 to 20 days so that we can exhibit the same before our NAAC peer team.

Please look into the matter urgent and oblige.

Thanking you

Yours' faithfully

Manfield 18/07/W24 Katwa College

Principal Katwa College

1110/2024

Signature of the IOAC Coordinator

Coordinator IOAC Katwa College

1868KGS 01/10/2024 Signature of the Principal



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Prayer for connectivity of solar PV generating system under net metering / net billing arrangement to the Assistant Engineer, WBSEDCL, Katwa, Purba Bardhaman along with previous Electric Bills with Consumer ID 502186921



	DISTRIBUTION COMPANY LIMITED. 300-345-5221
WEST BENGAL STATE ELECTRICITY (IVRS Number: 18 Website: https://ww	DISTRIBUTION COMPANY LIMITED. 300-345-5221
WEST BENGAL STATE ELECTRICITY (IVRS Number: 18 Website: https://ww	DISTRIBUTION COMPANY LIMITED. 300-345-5221
Website: https://www.Name of The Office	w.wbsedcl.in)
	(Same as consumer connection)
11	502186921
	4-09-2024
Name of Applicant : P	RINEIPAL KATWA COLLEGE
· P	CATWA COLLEGE, DUCKBANG
Address : K	OND, PO +PS-KATWA, DIST-PURB
: G	ARDHAMAN, 713130 W.B.
	7749 110550
	(at coll 2009 @ Timale, com
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	A (a)
	A (em)
	3 Phase. 31:15 KVA
T - 11 10 1 01 101	4.4 KW.
Billing Type (#) : (N	Net-Metering/Net-Billing)
	Self-Owned / Purchase from WBSEDCL)
	res/No)

01/10/2024

 ${\bf Signature\ of\ the\ IOAC\ Coordinator}$

Coordinator IQAC Katwa College 1868K92 01/10/2024

Signature of the Principal



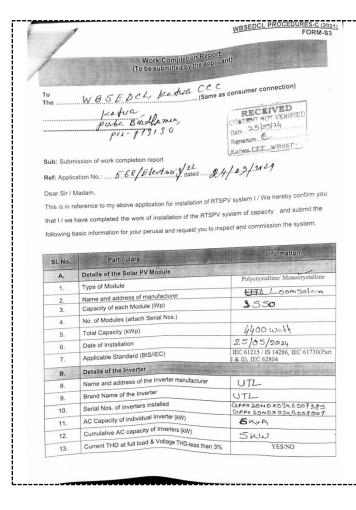
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1	RECEIVED CONTENT NOT VERIFIED Date 25 02/14 Signature C	WBSEDCL PROCEDURES-C (2021 FORM-S3	
14.	Ingress Protection Limit Katwa CCC, WBSEDC	25/05/2024	
15.	Date of Installation	1EC-82109(Part 1 & II), IEC-60068 IEC-61090, IEC 61000, IEC 62116 IEC 61727	
16.	Applicable Standard (BIS/IEC)		
C.	Details of the DC Cables		
17.	Make / Name of manufacturer	6 mm	
18.	Size & Type	TUV 2 Pfg 1169/08.2007	
19.	Applicable Standard (IEC)	A LUCAL GLO CHOCH DUP 11 11 11	
D.	Details of the AC Cables	the state of the s	
20.	Make / Name of manufacturer	Finolex	
21.	Size & Type	4.0 mm	
22.	Applicable Standard (IS/IEC)		
E.	Details of the Array Junction Box(AJB)		
23.	Make / Name of manufacturer		
24.	Serial No.		
25.	DC Surge Protection Device		
26.	MCB / Isolator quantity & capacity		
27.	Size & Type		
28.	Applicable Standard (IEC)		
F.	Details of the AC Distribution Box/Inverter Inter	facing Panel	
29.	Make / Name of manufacturer		
30.	Serial No.		
31.	AC Surge Protection Device		
32.	MCB / MCCB quantity & capacity		
33.	Size & Type		
34.	Applicable Standard (IEC)		
G.	Details of the Earthing*		
35.	Earth resistance (shall be less than 2 ohms)		
36.	Size of the Earth wire / flat*		
	Two separate Earthling points:		
37.		Yes / No	

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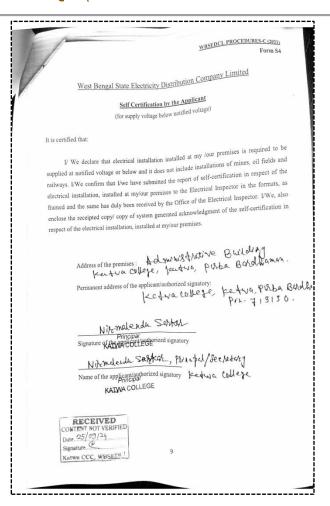
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		WBSEDC	L PROCEDURES-C FORM
	Inverter, AC Surge Protection Device & Lighteni Arrester	ng	Yes / No
8.	Size & Type	1 GI	BAR
39.	Applicable Standard (BIS / IEC)		
	Note: * Earthing shall be done in accordance IS conductors shall have a minimum size of 6 mm mm² X 70 mm² hot dip galvanized steel flat.	3043-1986, provid copper wire or 10	led that Earthing mm² aluminum wire o
H.	Details of the Caution signage		
40.	Caution Signage		
١.	Provision of manual and automatic switche	s: Yes / No	
41.	Manual / Automatic Switches		
J.	G.P.S. Co-ordinates of the RTSPV System I	nstallation	
42.	Latitude / Longitude		
K.	Operation and Maintenance		ALC: AND UNDERSTREET
43	Whether Operation and Maintenance Manual the consumer: Yes / No	provided to	
l / W comp WBE		n the regulations no	Code service
I / W comp WBE	e certify that the above said RTSPV system is into the Technical and Safety Standards as specified RC. Same Safety Standards Safety Standar	Name and Signal Katwa	ure of the System inst
1 / W comp WBE	e certify that the above said RTSPV system is intilly the Technical and Safety Standards as specified RC. As a specified RC.	Name and Signal Mobile: Name of the firm	ure of the System ins I ELECTRIC Burdwan 9332663536 and Address
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Sign Nan	e certify that the above said RTSPV system is into the Technical and Safety Standards as specified RC. Same Safety Standards Safety Standar	Name and Monte Katwa Mobile: Name of the firm	ure of the System installed Burdwan 932663536 and Address
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Sign Nan Date En 1. 2. 3.	e certify that the above said RTSPV system is into the Technical and Safety Standards as specified RC. NAMAN Author	Bolono Name and North Katwa Mobile Name of the firm Momoni Kotura	Course of the System ins ELECTRIC BLECTRIC BURNING and Address Flectric Fle
Sign Nam Nam Datt	e certify that the above said RTSPV system is into the Technical and Safety Standards as specified RC. NATABLA attract the Applicant Principal SATANA COLLEGE be and Address with Seal Principal SATANA COLLEGE The And Address with Seal The Angle Angle SATANA Principal SATANA Pr	Bolono Name and North Katwa Mobile Name of the firm Momoni Kotura	m Gairing up to MNNL pure of the System Inst ELECTRIC Burdwan 932568536 and Address ELECTRIC Plants Gandles Ga



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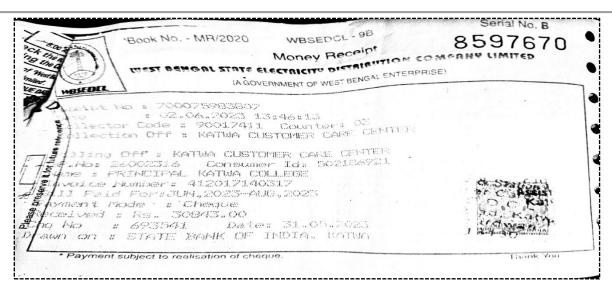


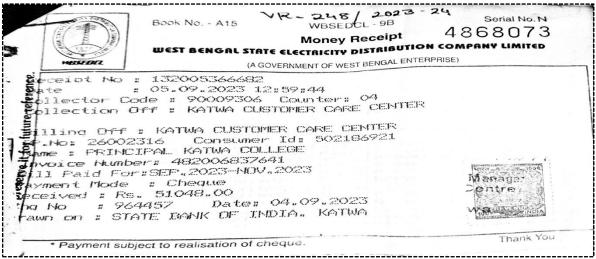
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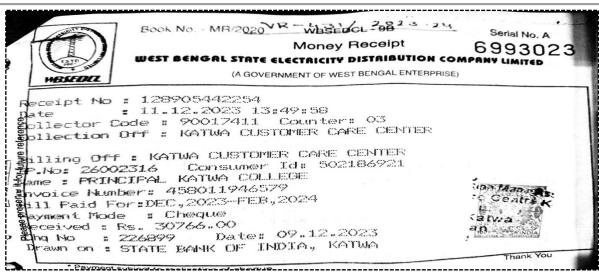


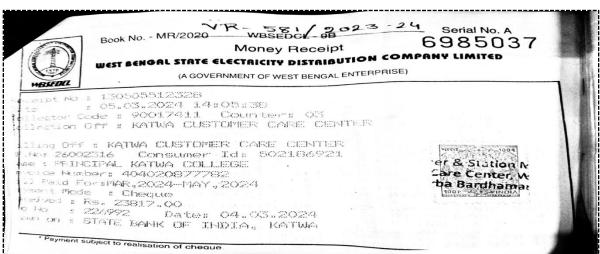
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