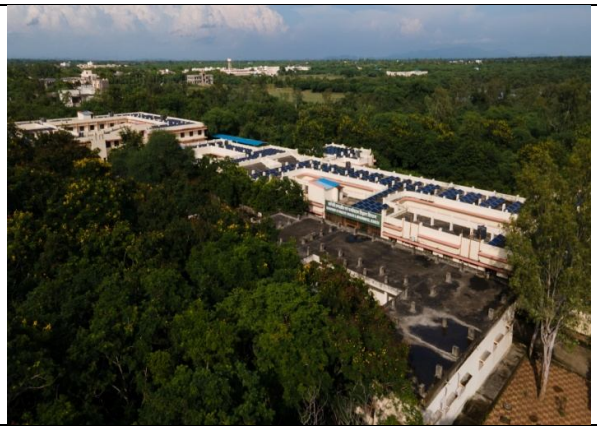
SOLAR ENERGY

	
Roof top Solar Panels (Department of Forestry) 22°07'36.2"N 82°08'21.4"E	Solar Street Lightings 22°07'19.3"N 82°08'31.0"E
	
22°07'36.2"N 82°08'21.6"E Solar Roof Top Panels in Guru Ghasidas Vishwavidyalaya Buildings	22°07'36.2"N 82°08'21.4"E Roof Mounted Solar Panels (Department of Forestry)

Ratio of renewable energy production divided by total energy usage per year

S. No.	Conventional energy usage (Kwh)	Renewable energy production(Kwh)	Ratio
1	1429004	3010399.2	2.10

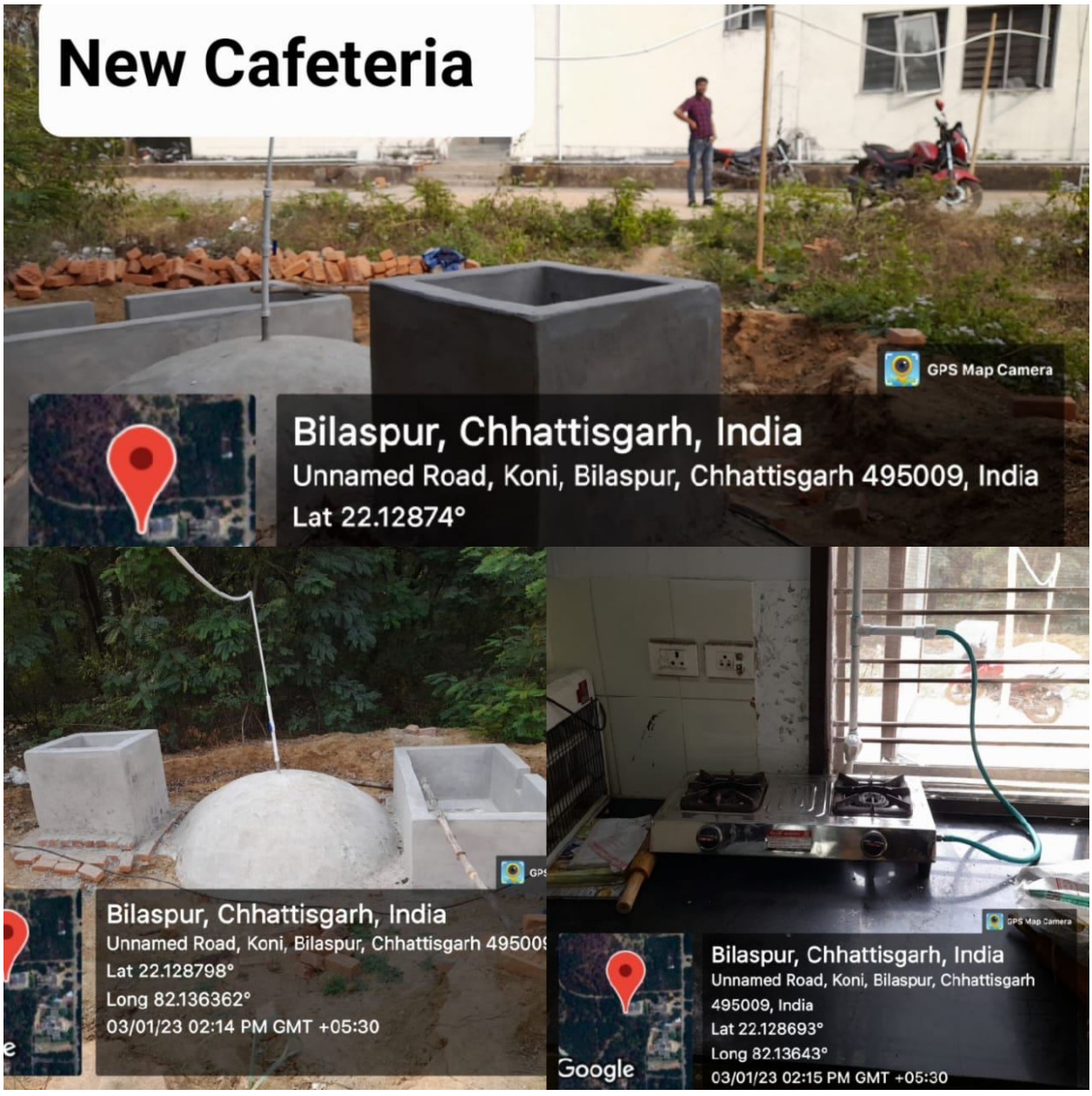
Renewable energy sources at GGV Bilaspur campus

S. No	Items	Location	Capacity	Nos	Total watt	Production Capacity (Kwh per year)
1.	Solar street light	Various Department, Parking, Street lights	12W	70	840 W	3679.2
2.	Roof top On-grid solar panel installed	Various Building	2.00 MW	1	2.00 MW	Roof top on-grid solar power plant (1.74MW AC) =3006720 Kwh*

* 1.74 MW*1000*0.6 (60% generation capacity)*8 (hours)*30 Days*12 (Months)= Kwh/year
Roof top on-grid solar panel 3006720+ Solar street light 3679.2=**3010399.2 Kwh/year**

BIOGAS PLANT

BIOGAS PLANT IN CAMPUS




Rajmohni Girl's Hostel
GPS Map Camera
Bilaspur, Chhattisgarh, India
GG vishwavidyalya Girls Hostel, KPS Rd, Koni, Bilaspur,
Chhattisgarh 495009, India
GPS Map Camera
Bilaspur, Chhattisgarh, India
GG vishwavidyalya Girls Hostel, KPS Rd, Koni, Bilaspur,
Chhattisgarh 495009, India
Lat 22.124359°
Long 82.136919°
03/01/23 02:34 PM GMT +05:30
Google


Sahid Veer Narayan Singh hostel
GPS Map Camera
Bilaspur, Chhattisgarh, India
44GQ+RGR, Koni, Chhattisgarh 495009, India
Lat 22.127261°


GPS Map Camera
Bilaspur, Chhattisgarh, India
44GQ+RGR, Koni, Chhattisgarh 495009, India
Lat 22.127261°


Bilaspur, Chhattisgarh, India
44GQ+RGR, Koni, Chhattisgarh 495009,
Lat 22.127261°
Long 82.138756°
03/01/23 02:07 PM GMT +05:30

Wheeling to the Grid

(Letter to electricity board for connecting to the grid)

गुरू घासीदास विश्वविद्यालय,कोनी,बिलासपुर (छ.ग.) 495009
GURU GHASIDAS VISHWAVIDYALAYA, KONI, BILASPUR (C.G.) 495009
(A Central University Established by the Central Universities Act, 2009 No.25 of 2009)
Ph-07752 260207, Fax- 07752-260154 Website:- www.ggu.ac.in

Ref. ...47...../Engg./2022 Bilaspur, Date: 24.02.2022

To,
The Superintending Engineer (City)
Chhattisgarh State Power Generation Company Limited,
Circle Bilaspur.

Sub: Application for Synchronizing the Output of 2 MW Grid Tied Rooftop Solar Panels in the existing 11 KV Line of CSEB inside Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G)

Sir,

With reference to the subject, Guru Ghasidas Vishwavidyalaya (GGV), Bilaspur (C.G) is installing 2 MW Grid Tied Rooftop Solar Panels on the buildings inside its campus with following building wise generation details:

Connection -1:

B.P. Number-1000104, Cont.Demand-500KVA

Sl No.	Building Name	Inverter Rating as per drawing (kWac)
1	Administrative Block	120
2	UTD (Wing A)	70
3	UTD-(Wing B)	70
4	Department of Rural Technology New Building	40
5	Central Library building	140
6	Institute of Technology building (School of Engg& Tech.)	100
7	Department of Forestry (New Building)	70
8	Pharmacy Dept.	70
9	Department Of Biotech building	80
10	Education Dept. Building (New)	50
11	Education Dept. Building (Old)	30
12	Auditorium Building	80
13	Law Dept. Building	50
14	Arts & Science Building	80
15	CSIT New Building	50
16	Commerce Building	70
17	Cafeteria Building	60
	Total Capacity	1230

Recived original Copy.

24/02/22. (A.P.E Civil)

Connection -2:

B.P. Number-1002325, Cont.Demand-300KVA

Sl No.	Building Name	Inverter Rating as per drawing (kWac)
1	New Boys Hostel Building (A)	70
2	New Boys Hostel Building (B)	70
3	Old Girls Hostel building	70
4	New Girls Hostel	60
5	JavaharSadan (Old Guest House)	30
6	MECON Boys Hostel*	70
7	Civil Engineering Department Building*	140
	Total Capacity	**510**

*Under Construction

The Single Line Diagram for building wise Solar system connection (proposed grid connection) has been enclosed for your ready reference.

GGV requests CSPGCL to kindly allow synchronization of the output of installed 2 MW grid tied solar panels with the existing 11 KV Lines inside GGV premises for import / export of power under prosumer category.

Any tariff benefits, if applicable may kindly be extended to GGV as per Renewable Energy Policy of CSPGCL.

Looking forward for a prompt and positive response,

Thanking You,

By Order,

Registrar (I/C)

copy to :

1. Secretary to VC for information on HVC.
2. ED (RA&PM) CSPDCL Daganiya Raipur for kind information and necessary action please
3. Assistant Registrar, Audit.
4. Sub Engineer (Civil) for necessary action
5. Office copy.

University Engineer (I/C)

Sensor Based Energy Conservation

1. Sensor based timer circuit for street light
2. Sensor based street light

SENSOR-BASED ENERGY CONSERVATION

Sensor Based Timer Circuit – Main Gate

Sensor Based Timer Circuit – Naveen Awasiya Parisar

Sensor Based Timer Circuit – New IT Workshop

Sensor Based Timer Circuit – Near Auditorium

Sensor-based Energy Conservation

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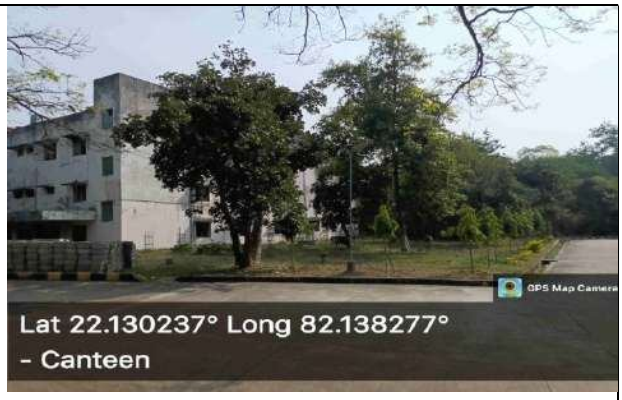
</td><td></td><td> 
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<tr><td>Sensor based Solar Street Light – Near Pond</td><td></td><td>Sensor based Solar Street Light - Near Canteen</td></tr>
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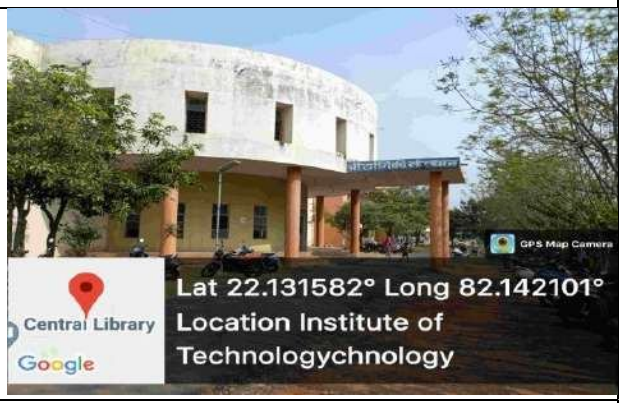
</td><td></td><td> 
</td></tr>
<tr><td>Sensor based Solar Street Light – Central Library</td><td></td><td>Sensor based Solar Street Light –Inst. Of Tech. Building</td></tr>
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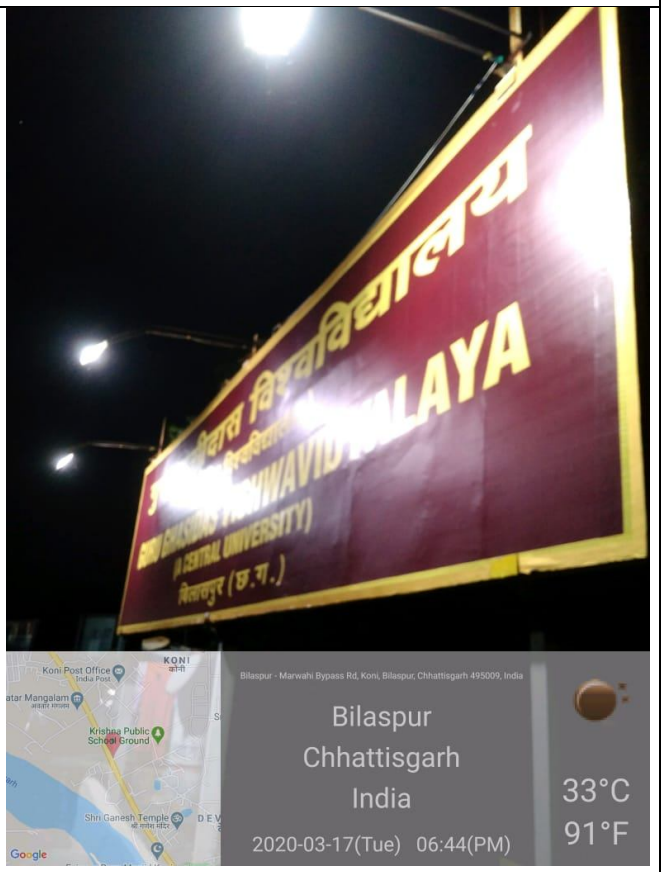
Use of LED Lights

Use of LED bulbs / Lights in campus

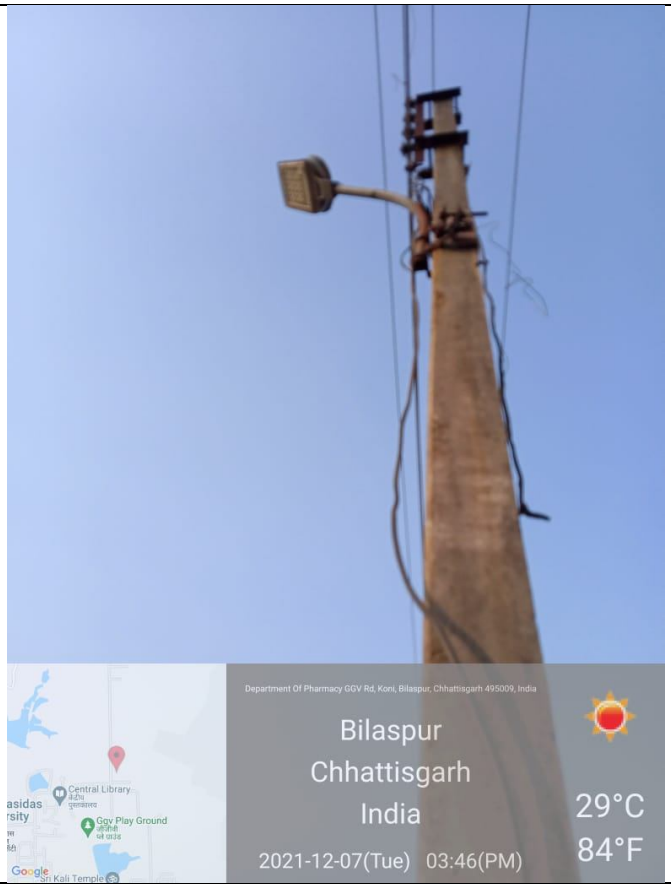
LED flood light in university Sports arena

LED flood light in university Sports arena

LED high mask light in front of auditorium



Use of LED lights



LED street light in campus

Use of LED lights in corridor and room