

# 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**