

Total load on various appliances used in college building as per specification, capacity and market price
Energy Consumption as per actual sevice load Year 2023-24
Govt. College Bishrampur, District Surajpur (C.G.)

Sr. No	Name of appliance	Capacity of appliance in watts	Connected Qty	Qty in service	Total watts (W)	Hrs/d ay	Watt hours (Wh)
1	Ceiling fans	60	128	128	7680	2	15360
2	LED Bulb	9	79	79	711	2	1422
3	Tube light	25	120	120	3000	2	6000
4	Cooler	150	3	3	450	2	900
5	Water Cooler	100	3	3	300	4	1200
6	Exhaust Fan	50	7	7	350	1	350
7	Computer	80	14	14	1120	4	4480
8	Printer	600	4	4	2400	1.5	3600
9	Water Pump	600	1	1	600	1	600
10	Induction	600	1	1	600	1	600
11	Projector	50	2	2	100	1	100
12	Slide projector	50	1	0	0	0	0
13	Invertor	400	1	1	400	2	800
14	Sound systam	50	1	1	50	0.5	25
15	CC tv camera	5	32	32	160	24	3840
16	Vending Pad machine	200	3	3	600	0.5	300
17	Disposed machine	200	2	2	400	0.5	200
18	Photocopy matchine	800	2	2	1600	3	4800
19	QR Code Scanner	1	1	1	1	1	1
Total							44578 wh
Total							44.578 kwh

Energy consumption per year = No. of days X kwh
= 317 X 44.578
= 14131.226 KWH/ year
Cost of Energy = 14131.226 X 5.65
= 79841.43
= 79841.43 Rs per year (approx)
= 6653.45 Rs per month



License No. 25/2145/A

M/s DEEPAK KUMAR PATEL

'A' Class Electrical Contractor

Gawatiya Para, Shivnandanpur, Bishrampur

District – Surajpur (C.G.) 497226

An inspection survey and analysis of energy flows for conservation are being conducted on government College Bishrampur District Surajpur (C.G.). The college campus as single source of energy supply. There is no any renewable source of energy found i.e. Solar, wind power etc. The required load of college building premises is dependent on non-renewable source of power supply provided by Chhattisgarh Power Distribution company. The Solar Energy would be supporting source of power supply during sunny days and enhance the energy conservation. It may also lower the cost of energy used by college campus.

Sr.No.	Year	Consumption (in kwh)	Amount paid @5.65 Rs/kwh
1	2023-24	14131	79841 /Year Approx

Note: Details report is enclosed in separate sheet. Amount for energy consumption is taken as per energy rate of Chhattisgarh Power Distribution Company.

