

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 an analysis of energy flows for energy conservation are being conducted on Government College Silphili District Surajpur (C.G.). The college campus has single source of energy. 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. Solar power system might be suitable for energy conservation of the Campus. 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.

Energy consumption as per actual service load year 2019-20.

SN	Year	Consumption in (kwh)	Amount paid @3.65 Rs/kwh
1	2019-20	6693	Rs. 24432.27 per year

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



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GOVT. COLLEGE SILPHILLI DISTRICT SURAMPUR (C.G.)

Energy Consumption as per actual service load Year 2019-20

Sr. No.	Name of appliance	Capacity of appliance in watts	Connected Qty	Qty in service	Total watts (W)	Hrs/day	Wh
1	Ceiling fans	60	104	5	300	8	2400
2	CFL Bulb	9	5	5	45	8	360
3	LED Bulb	12	6	6	72	3	216
4	Tube light	40	42	8	320	3	960
5	Cooler	300	3	2	600	3	1800
6	Freeze	600	1	1	600	8	4800
7	Exhaust Fan	120	41	4	480	1	480
8	Computer	200	3	3	600	8	4800
9	Printer	1000	3	3	3000	1	3000
10	Water Pump	1100	1	1	1100	1	1100
11	Water cooler	600	1	1	600	2	1200

Energy consumption per year = No. of day X kwh

= 317 X 21.116
= 6693.772 KWH/year

Cost of Energy = 6693.772 X 3.65

= 24432.27
= 24432.27 rupees per year
= 2036.022 Rs per month

Note: Total load on various appliances used in college building as per specification, capacity and market price



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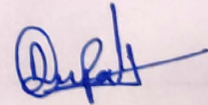
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Energy consumption as per actual service load year 2018-19.

SN	Year	Consumption in (kwh)	Amount paid @3.65 Rs/kwh
1	2018-19	6693	Rs. 24432.27 per year

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




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Energy Consumption as per actual service load Year 2018-19

Sr. No.	Name of appliance	Capacity of appliance in watts	Connected Qty	Qty in service	Total watts (W)	Hrs/day	Wh
1	Ceiling fans	60	104	5	300	8	2400
2	CFL Bulb	9	5	5	45	8	360
3	LED Bulb	12	6	6	72	3	216
4	Tube light	40	42	8	320	3	960
5	Cooler	300	3	2	600	3	1800
6	Freeze	600	1	1	600	8	4800
7	Exhaust Fan	120	41	4	480	1	480
8	Computer	200	3	3	600	8	4800
9	Printer	1000	3	3	3000	1	3000
10	Water Pump	1100	1	1	1100	1	1100
11	Water cooler	600	1	1	600	2	1200
							21116

Energy consumption per year = No. of day X kwh
 = 317 X 21.116
 = 6693.772 KWH/year

Cost of Energy = 6693.772 X 3.65
 = 24432.2678
 = 24432.2678 Rs per year
 = 2036.02232 Rs per month


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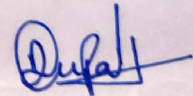
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Energy consumption as per actual service load year 2017-18.

SN	Year	Consumption in (kwh)	Amount paid @3.65 Rs/kwh
1	2017-18	6693	Rs. 24432.27 per year

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

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Energy Consumption as per actual service load Year 2017-18

Sr. No.	Name of appliance	Capacity of appliance in watts	Connected Qty	Qty in service	Total watts (W)	Hrs/day	Wh
1	Ceiling fans	60	104	5	300	8	2400
2	CFL Bulb	9	5	5	45	8	360
3	LED Bulb	12	6	6	72	3	216
4	Tube light	40	42	8	320	3	960
5	Cooler	300	3	2	600	3	1800
6	Freeze	600	1	1	600	8	4800
7	Exhaust Fan	120	41	4	480	1	480
8	Computer	200	3	3	600	8	4800
9	Printer	1000	3	3	3000	1	3000
10	Water Pump	1100	1	1	1100	1	1100
11	Water cooler	600	1	1	600	2	1200
							21116
							21116

Energy consumption per year =

= No. of day

317

X

21.116

Cost of Energy =

6693.772

KWH/year

X

6693.772

X

3.65

24432.27

24432.27 rupees per year

2036.022 Rs per month



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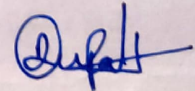
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Energy consumption as per actual service load year 2016-17

SN	Year	Consumption in (kwh)	Amount paid @3.65 Rs/kwh
1	2016-17	4918.572	Rs. 17952.79 per year

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



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Energy Consumption as per actual service load Year 2016-17

Sr. No.	Name of appliance	Capacity of appliance in watts	Connected Qty	Qty in service	Total watts (W)	Hrs/day	Wh
1	Ceiling fans	60	104	5	300	8	2400
2	CFL Bulb	9	5	5	45	8	360
3	LED Bulb	12	6	6	72	3	216
4	Tube light	40	42	8	320	3	960
5	Cooler	300	0	0	0	3	0
6	Freeze	600	1	1	600	8	4800
7	Exhaust Fan	120	41	4	480	1	480
8	Computer	200	2	2	400	8	3200
9	Printer	1000	2	2	2000	1	2000
10	Water Pump	1100	1	1	1100	1	1100
					5317		15516
					5.317		15.516

Energy consumption per year =

$$= \text{No. of day} \times \text{KWH/year} = 317 \times 4918.572 = 15.516 \text{ kwh}$$

Cost of Energy =

$$= 4918.572 \times 3.65 = 17952.79 \text{ ruppees per year}$$

$$= 1496.066 \text{ Rs. Per month}$$



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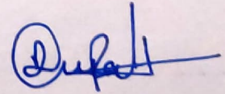
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Energy consumption as per actual service load year 2015-16.

SN	Year	Consumption in (kwh)	Amount paid @3.65 Rs/kwh
1	2015-16	4094.372	Rs. 14944.46 per year

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



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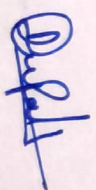
Energy Consumption as per actual service load Year 2015-16

Sr. No.	Name of appliance	Capacity of appliance in watts	Connected Qty	Qty in service	Total watts (W)	Hrs/day	Wh
1	Ceiling fans	60	104	5	300	8	2400
2	CFL Bulb	9	5	5	45	8	360
3	LED Bulb	12	6	6	72	3	216
4	Tube light	40	42	8	320	3	960
5	Cooler	300	0	0	0	3	0
6	Freeze	600	1	1	600	8	4800
7	Exhaust Fan	120	41	4	480	1	480
8	Computer	200	1	1	200	8	1600
9	Printer	1000	1	1	1000	1	1000
10	Water Pump	1100	1	1	1100	1	1100
					4117		12916
					4.117		12.916

Energy consumption per year = 317 No. of day X 12.916 kwh

= 4094.372 KWH/year Cost of Energy =

= 4094.372 X 3.65
= 14944.46 Rupees per year
= 1245.371 Rs per month



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