

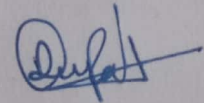
**M/s DEEPAK KUMAR PATEL***'A' Class Electrical Contractor*Gawatiya Para, Shivnandanpur Bishrampur  
District-Surajpur (C.G.) 497226

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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Bishrampur Lic.No.26/2145/A

GOVT. COLLEGE SILPHILI DISTRICT SURAJPUR (C.G.)

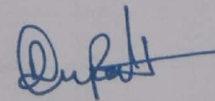
Energy Consumption as per actual sevice load Year 2019-20

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
							21116 Wh
							21.116 kwh/month

$$\begin{aligned} \text{Energy consumption per year} &= \text{No. of day} \times \text{kwh} \\ &= 317 \times 21.116 \\ &= 6693.772 \text{ KWH/year} \end{aligned}$$

$$\begin{aligned} \text{Cost of Energy} &= 6693.772 \times 3.65 \\ &= 24432.27 \\ &= 24432.27 \text{ rupees per year} \\ &= 2036.022 \text{ Rs per month} \end{aligned}$$

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



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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 sevice 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	<b>1100</b>	1	1100
11	Water cooler	600	1	1	<b>600</b>	2	1200
							21116 Wh
							21.116 kwh/month

$$\begin{aligned}
 \text{Energy consumption per year} &= \text{No. of day} \times \text{kwh} \\
 &= 317 \times 21.116 \\
 &= 6693.772 \text{ KWH/year}
 \end{aligned}$$

$$\begin{aligned}
 \text{Cost of Energy} &= 6693.772 \times 3.65 \\
 &= 24432.2678 \\
 &= 24432.2678 \text{ Rs per year} \\
 &= 2036.02232 \text{ Rs per month}
 \end{aligned}$$

*Deepak*

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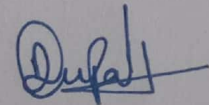
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**Energy consumption as per actual service load year 2017-18.**

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.



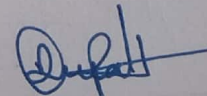
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### Energy Consumption as per actual sevice load Year 2017-18

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 Wh
							21.116 kwh/month

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



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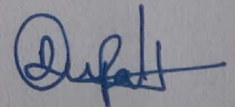
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**Energy consumption as per actual service load year 2016-17**

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.



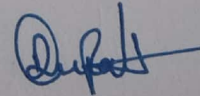
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### Energy Consumption as per actual sevice load Year 2016-17

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
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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 Wh
					5.317		15.516 kwh/month

Energy consumption per year = No. of day X kwh  
 = 317 X 15.516  
 = 4918.572 KWH/year

Cost of Energy = 4918.572 X 3.65  
 = 17952.79  
 = 17952.79 ruppees per year  
 = 1496.066 Rs. Per month



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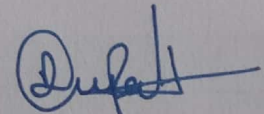
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**Energy consumption as per actual service load year 2015-16.**

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.

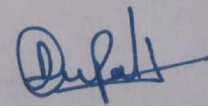
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### Energy Consumption as per actual sevice load Year 2015-16

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	<b>1100</b>	1	1100
					4117		12916 Wh
					4.117		12.916 kwh/month

Energy consumption per year = No. of day X kwh  
 = 317 X 12.916  
 = 4094.372 KWH/year

Cost of Energy = 4094.372 X 3.65  
 = 14944.46  
 = 14944.46 Rupees per year  
 = 1245.371 Rs per month



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