

ABSTRACT

GCW, being the second biggest college in Karnataka, consumes on an average 5.53 kW- hr (units) of electricity which turns out to be 48459 kW-hr per year only to maintain its voluminous activities throughout the year. The authority keeps on replacing the old filament bulbs, CFL bulbs and tube lights by low energy consuming LED bulbs and bulky high-power consuming fans by energy efficient fans in order to keep the electricity consumption of the college as low as possible.

Before using LED bulbs and tubes

For the year 2018-19 the average power consumption is found to be 48459 kW-hr

After using LED bulbs and tubes

Appliances	Number / Type of appliance	Units of current per month kWh
LED bulbs	164	223.45
LED tubes	201	914.75
Fans	138	846
Computers/ Laptops	85	1699.5
Total Energy usage per month (kWh)		3683.7

For the year 2019-20 the average power consumption is found to be 44208 kW-hr

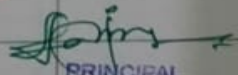
After using **LED bulbs and tubes** the average power **saved** per year is found to be **4251** kW-hr which saves annually **Rs 28694/** (Rupees twenty eight thousand six hundred and ninety four only)

Year	Number / Type of appliance	Units of current kWh	Difference in the consumption of units
2018-19	Regular Type appliance	48459	-
2019-20	LED Tubes/Bulbs	44208	4251


Assistant Executive Engineer (Ele),
BESCOM., USD Kolar

LED BULBS/TUBES PURCHASE CASH BOOK EXTRACT

15.10.18	Narasimha Physics Lab Sec Lights / Ray Box 50 tubes M/s Karnataka Bk. Solov Ch. No. 231865.	7806	✓
	Physics Lab Elec. Repair Labour, Charges. Ch. No. 231866.	3000	✓
23.10.18	Towards the Elec. Bills payments. Ch. No. 231867	38997	✓
27.10.18	Dr. H.C. Manjunali A.K.A. Prof. Physics Lab. [Research Work] Ch. No. 231868	1200	✓
		51003	
		546/-	
		552110	
		603113	
Adm 30/10/18	Bank Balance 553856/- Payments ₹ 51003 closing Balance ₹ 552110 + 546		
	Total ₹	603113	


 PRINCIPAL
 GOVT COLLEGE FOR WOMEN,
 KOLAR-563101

4.5.17	M/s Karnataka Elec. Kolar 2502 Wiring/ ಬಿಲ್ಡ್ ಇಂಜಿನ್ ಸುಸ್ತು Bill No. 122 Ch.No. 454890.	6285 ✓
	M/s Bilal Auto Elec. Works. Kolar Males / chem. Dept ಬಿಲ್ಡ್ VPS ಇನ್ ರಿಪೇರಿ Distill Water Filling Ch.No. 454891	9603 ✓
	BESCOM Elec. Bilty payment. March. 17 Ch.No. 454892	19075 ✓
18.5.17	ಬಿಲ್ಡ್ ಇಂಜಿನ್ ಸುಸ್ತು ಬಿಲ್ಡ್. Ch.No. 449921	2661 ✓
31.5.17	M/s Sindhu Printers Kolar. ಬಿಲ್ಡ್ ಇಂಜಿನ್ ಬಿಲ್ಡ್ ಇಂಜಿನ್ ಸುಸ್ತು ಬಿಲ್ಡ್ ಇಂಜಿನ್ ಸುಸ್ತು Ch.No. 454893	4853 ✓
	M/s Rak Sulta Enter (pvt) Prin. Kolar. Sundry / Toner / Drum / Blade Set. Ch.No. 454894	1477 (pvt) 43934
31.5.17	62800 ಬಿಲ್ಡ್	76,708 1,20,662

Jayaramalli
Principal
Govt. College for Women
KOLAR

