## **ENERGY AUDIT REPORT**

SESSION 2018-19TO201920

GOVT NAVEEN COLLEGE JANAKPUR

DISTT - KOREA (C.G)

**SUBMITTED** 

TO

**PRINCIPAL** 

GOVT.NAVEEN COLLEGE JANAKPUR

DISTT- KORIYA (C.G.)

BY

Dr. S.P. TRIPATHI

ASST. PROF. (SOCIOLOGY)

&

**SHRI ATUL KUMAR VARMA** 

**ASST. PROF. (POLITICAL SCIENCE)** 

&

Mr. Deepak verma

**Guest Lect. (Botany)** 

Collaboration of sociology, Botany, zoology, department

**GOVT.NAVEEN COLLEGE JANAKPUR DIST.KORIYA (C.G)** 

#### **PREFACE**

Data collection for energy audit of Govt. Naveen college Janakpur distt Korea (C.G) was conceded by the collaboration of sociology, Botany, zoology, department for the period 10 December 2018 to 12 February 2020. This was over sighted to inquire about convenience to progress to energy competence of the campus. This audit required to recognize the mainly energy proficient appliances. The energy audit saver was completed by collaboration of department of sociology, Botany, zoology, department, the work is complete by considering how much fans, LED Bulbs, CFL, Tube light, computer, printer project and other electronic each rooms. All data are collected from office, class room laboratory, outside campus courtyard, gallery etc.

### Experimental and data collection

All required data is collection by department of sociology, botany, zoology. in every room office, how much fans, tubes, projector, cooler, computer, instrumental etc. these are measured according to survey, following data are collected.

## Total power requirement of various equipment

2019-20

DEPARTMENT	FAN	LED BULB	CFLTU BE	COM PUTE R	PRIN TER	SCANE R	PROJ ECT OR	FRI ZZE	WAT ER COO LAR	CF L	CO OL ER	T V	CCT V	
PRINCIPAL														
OFICE	4	3	2	I	I	I	I	1	I	2	I	0	0	
STAFF ROOM	2	I	I	0	0	0	0	0	0	0	0	0	0	
SCHOLARSHIP ROOM	2	2	0	0	0	0	0	0	0	0	0	0	0	
CHEMISTRY LAB	8	3	5	0	0	0	0	I	0	0	0	0	I	
ZOOLOGY LAB	6	I	2	0	0	0	0	0	0	0	0	0	0	
BOTANY LAB	6	3	I	0	0	0	I	0	0	0	0	0	0	
PHYSICS LAB	4	2	I	0	0	0	0	0	0	0	0	0	0	
GEOGRAPHY LAB	5	3	I	0	0	0	0	0	0	0	0	0	I	
RED-CROSS	0	0	0	0	0	0	0	0	0	0	0	0	0	
COMPUTER LAB	0	0	0	0	0	0	0	0	0	0	0	0	0	
STOR ROOM	4	2	0	0	0	0	0	0	0	0	0	0	0	
LIBRARY	6	2	I	I	I	0	0	0	0	0	0	0	0	
EXAM\NAAC DEPARTMENT	I	3	Ι	2	2	I	0	0	0	0	0	0	0	
NSS ROOM	4	2	I	0	0	0	0	0	0	0	0	0	0	
GALLARY	0	0	0	0	0	0	0	0	0	0	0	0	I	
BUILDING	0	0	0	0	0	0	0	0	0	0	0	0	0	
OUT SIDE	0	3	I	0	0	0	0	0	0	0	0	0	0	
Stu. COMMAN	3	3	I	0	0	0	0	0	0	0	0	0	0	
ROOM														
HALL	13	4	3	0	0	0	0	0	0	0	0	0	I	
TOTAL														

### Experimental and data collection:

All required data is collection by department of sociology, botany, zoology. in every room office, how much fans, tubes, projector, cooler, computer, instrumental etc. these are measured according to survey, following data are collected.

### Total power requirement of various equipment

2020-21

DEPARTMENT	FAN	LED	CFLTU	COM	PRIN	SCANE		FRI			CO	Т		
	1111	BULB	BE	PUTE	TER	R	PROJ	ZZE	WAT	CF	OL	v	CCT	i
				R			ECT		ER	L	ER		V	
							OR		COO LAR					
PRINCIPAL									LAIC					_
OFICE	4	4	2	I	I	I	I	I	I	2	I	0	0	
STAFF ROOM	2	I	I	0	0	0	0	0	0	0	0	0	0	
SCHOLARSHIP	2	2	0	0	0	0	0	0	0	0	0	0	0	
ROOM														
CHEMISTRY LAB	8	3	4	0	0	0	0	I	0	0	0	0	I	
ZOOLOGY LAB	6	I	2	0	0	0	0	0	0	0	0	0	0	
BOTANY LAB	6	3	I	0	0	0	I	0	0	0	0	0	0	
PHYSICS LAB	4	2	I	0	0	0	0	0	0	0	0	0	0	
GEOGRAPHY LAB	5	3	I	0	0	0	0	0	0	0	0	0	I	
RED-CROSS	0	0	0	0	0	0	0	0	0	0	0	0	0	
COMPUTER LAB	0	0	0	0	0	0	0	0	0	0	0	0	0	
STOR ROOM	4	2	0	0	0	0	0	0	0	0	0	0	0	
LIBRARY	6	2	I	I	I	0	0	0	0	0	0	0	0	
EXAM\NAAC	1	3	I	2	2	I	0	0	0	0	0	0	0	
DEPARTMENT														1
NSS ROOM	4	2	I	0	0	0	0	0	0	0	0	0	0	
GALLARY	0	0	0	0	0	0	0	0	0	0	0	0	1	
BUILDING	0	0	0	0	0	0	0	0	0	0	0	0	0	
OUT SIDE	0	2	I	0	0	0	0	0	0	0	0	0	0	
Stu. COMMAN	3	3	I	0	0	0	0	0	0	0	0	0	0	
ROOM														
HALL	13	4	3	0	0	0	0	0	0	0	0	0	I	
TOTAL														

## **ENERGY AUDIT REPORT OF**

# Govt Naveen college Janakpur

In India the entire field of education and intelligent activates had been corner by a handful of men before independence. but today we are travelling towards the desirable status of a sustained one. for achieving such an interminable development energy management is essential. the country has motivated strategy to enlarge its renewable energy resources and policy to establish the nuclear power plants. Energy conservation means reduction in energy consumption without making any sacrifice of quantity or quality. It will lead to sufficient rating of equipment's using high efficiency equipment and change of habits which cases enormous wastage of energy. By observation all these studies lack of electricity and huge electricity it's necessary to plant to be self- sufficient in electricity requirement. Energy conservation is the decision of using less energy, terming off the light, fans and other electronic device when you live the room unplugging appliances when they or not in use. In the present study, college, electricity audit has been done. In study there are consider practical laboratory, instrument, fans air coolers, computer, freeze, water filter, LED bulb, tube light projector etc.

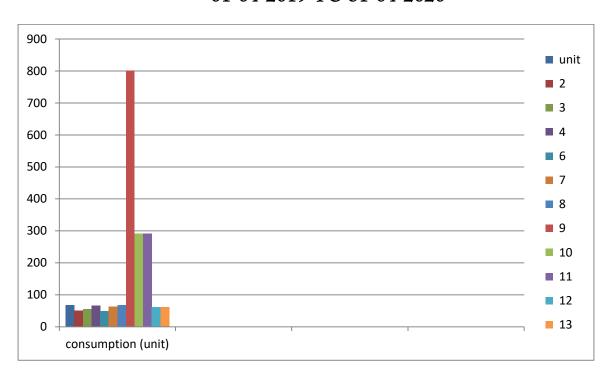
# Power consumption of electricity from 01-04-2019 TO 31-04-2020

Sr.	Month	Consumption (in unit)
I	APRIL 2019	68
2	MAY 2019	51
3	JUNE 2019	55
4	JULY 2019	67
5	AUGUST 2019	50
6	SEPTEMBER 2019	54
7	OCTOBER 2019	68
8	NOVEMBER 2019	801
9	DECMBER 2019	292
10	JANUBARY 2020	292
II	FREBUARY 2020	62
12	MARCH 2020	62

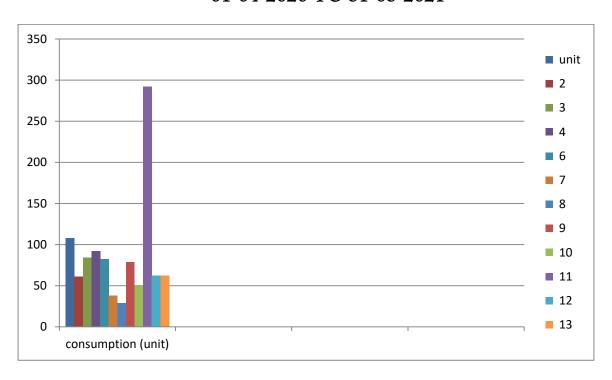
Power consumption of electricity from 01-04-2020 TO 31-03-2021

Sr.	Month	Consumption (in unit)
I	APRIL 2020	108
2	MAY 2020	6I
3	JUNE 2020	84
4	JULY 2020	92
5	AUGUST 2020	82
6	SEPTEMBER 2020	38
7	OCTOBER 2020	29
8	NOVEMBER 2020	71
9	DECMBER 2020	51
10	JANUBARY 2021	292
II	FREBUARY 2021	62
12	MARCH 2021	62

# ELECTRICITY BILL CONSUMPTION DURING 01-04-2019 TO 31-04-2020



# ELECTRICITY BILL CONSUMPTION DURING 01-04-2020 TO 31-03-2021



#### Conclusion:

All these data are generated in energy audit are effectively useful for understand the energy distribution and utilization of college, all the collected from practical laboratory, fans, bulb, computer etc. in the above study. The college needs maximum 2675.0 of electricity consumption only 481.16 units per month.

## RECOMMENDATATION:

- I. USE SOLAR ENERGY.
- 2. Replace all CFL and tube light using LED bulb for saving the more power.