



Gokhale Education Society's  
**R. N. Chandak Arts, J. D. Bytco Commerce &  
N. S. Chandak Science College**

Nashik-Pune Road, Opp. Sujata Birla Hospital, Nr. Ashirwad Bus Stop, Nashik Road- 422101

Email : cbcnashikroadcollege@gmail.com ☎ :0253-2461548 Fax : 0253-2469342



► Affiliated to Savitribai Phule Pune University ► ID No: PU/NS/ASC/005(1963) ► ISO 9001-2000 Certified ► NAAC Accredited B College

# ENERGY AUDIT REPORT: 2021-2022



**Dr. Santosh Pagar**  
Department of Hindi

**Mr. Waseem A. Beg**  
Department of Chemistry

**Dr. Sudhakar J. Borase**  
Department of Geography

**Prof. Dr. Manjusha Kulkarni**  
Principal

## **PREFACE**

Data collection for energy audit of the RNC Arts JDB Commerce and NSC Science College, Nashik Road, Nashik Campus was conceded by team for the period between July 2021 to May 2022. This audit was done to increase the energy efficiency of the campus and inquire for the convenience. The main concern is to reduce energy consumption while improving comfort, health and safety or humanization. This audit is essential to identify the most efficient tools of energy. In addition, every day the normal equipment related processes are provided which reduces the energy costs. Energy Inspection Survey completed by Dr. Meenakshi Rathi and Dr. Sudhakar J. Bose as well as Mr. Waseem Beg, Dr. Santosh Pagar with the help of KBP Earn and Learn students. All the classes, labs, all the data collected from each room in the college. Considering how many tubes, fan, AC, electronic equipment etc. in each room is completed. How much is the share of each component of the total electricity user?

## **ACKNOWLEDGEMENT**

Honorable Principal of the College as well as IQAC and NAAC Co-ordinator Prof. Dr. Manjusha Kulkarni is very grateful to given ideas and to motivate us to check energy. I also thankful Science Co-ordinator Dr. Kalyanrao Takale, Vice principal of Arts faculty Prof. Dr. Anilkumar R. Pathare, Vice principal of Commerce faculty Dr. Aakash Thakur, our committee members Mr. Waseem Beg, Dr. Santosh Pagar, Prof. Dr. Krushna Shahane, Mr. Nilesh Mahajan and Dr. Nitin Joshi



## **ENERGY AUDIT REPORT OF RNC ARTS, JDB COMMERCE AND NSC SCIENCE COLLEGE NASHIK ROAD, NASHIK.**

### **INTRODUCTION:**

A nation is progressing in advance and quality in the proportion of the development of common India and their intelligence. Before independence, a few people had monopolized monopoly rights in the whole field of education and other areas of intelligent work in India. But today we are moving to the desired conditions of developed nations with rapid progress. But the development must be an endless one. Energy intervention is necessary for such interdependent development. There is a possibility that we will not have electricity in office work in relation to power crisis. So, organizational management is designing for eco-social power generation and power saving.

India's energy needs are increasing and the incomplete household fossil fuel treasure is growing. In order to set up a nuclear power plant, the country has inspired the policy of raising renewable energy resources and policy. India is the world's fifth largest gas influence promoter and plans to include 20 GW solar powers. Large power generation facilities in India include nuclear power from 4.2% to 9%. India's industrial demand is 35% of the electricity requirement, 28% for domestic household use, 21% agricultural, commercial 9%, public lighting and the remaining various other applications. Energy conservation is a reduction in energy use without any sacrifice of quantity or quality A successful energy management program begins with energy conservation; This will change the high-performance equipment and habits which cause enormous deviations of energy would be an adequate rating of the devices. By observing all these studies, lack of power and huge electricity demand. The power requirement must be auto complete.

The college has been audited in the current study. In this study, practical laboratories, musical instruments, fans, air conditioners, computers etc. are considered in this study. We have studied the total budget of the college, the total financial investment of the college Electricity and total electricity generation from the solar wind hybrid power generation unit. Also, we have read the total savings of electricity generation and solar energy generation and solar energy requirements. Also, bulb, fans, computers, devices etc., in the total requirement of electricity. Accurate contribution is studied. We have gathered the surveys that cover the data and studied all the thoughts mentioned above.

## EXPERIMENTAL AND DATA COLLECTION:

All the necessary information is Dr. Meenakshi Rathi and Sudhakar J. Borase collected the KBP by earning and learning through the help of students. In this data, various teams have been created and conducted by the college. In this survey, various building, rooms in the college premises were counted in all its rooms, tubes, fans, computers, printers, AC, aqua guard etc. were counted. The data collected according to the survey is as follows

## ENERGY AUDIT 2021-22

**Table No.1 Energy Audit in College**

Room/ Department	Tube light	LED Tube light	LED Bulb	Fan	Compute r	Printe r	A.C./ Refrigerat or	Other Instrument	Total Unit.	Watts
Principle Office	-	01	05	02	01	01	AC 01	LED TV <sup>2</sup>	01	300
Vice Principles Office	07	07	-	07	07	06	-	-	-	-
Administrative Office	13	04	01	10	12	12	Refrigerat or 01	D Link CCTV Camera	01 03	20 30
Library	04	35	02	14	11	01	-	CCTV Camera	01	10
Staff Room with Kitchen & Toilets	-	15	-	06	-	-	-	Acquaguard	01	200
Seminar Hall with Toilets	15	03	01	21	-	-		Projector	01	200.
								Speaker	10	500
								Mike	01	60
								D Link	01	20
Commerce Lab	-	21	-	12	05	05	-	Projector	01	200
								Speaker	04	200
								D Link	01	20
								CCTV Camera	01	10
								Smart Board	01	100
								<b>Total</b>		<b>1870</b>
Junior Office	04	02	01	03	01	01	-	-		-
Marathi	03	-	-	01	01	01	-	-		-
English	01	01	-	01	01	01	-	-		-
Hindi	-	11	-	05	01	01	-	-		-
Physics	-	30	-	09	04	02	Refrigerat or 01	Laptops	02	130
								Projector	01	200
								Reflecting Galvanometer	01	180
								Ballistic Galvanometer	02	240
								<b>Total</b>		<b>510</b>
Electronics	-	12	-	06	05	01	-	Laptops	01	65
								Projector	01	200



NAAC Room	-	05	-	05	-	-	-	Projector	01	200
Botany	-	13	-	07	01	01	Refrigerator 01	Laptop	01	65
								Bacteriological Incubator	01	200
								<b>Total</b>		<b>730</b>
Zoology	-	10	-	06	01	01	Refrigerator 01	Laptop	01	65
								Projector	01	200
								Oven	01	50
								<b>Total</b>		<b>315</b>
Chemistry	-	52	-	11	06	02	Refrigerator 01	Projector	01	200
								Fume Hood	01	150
								Digital Potentiometer	08	3200
								Conductivity meter	07	3500
								Microcontroller pH meter	09	900
								Spectrophotometer	02	200
								Turbidity meter	01	750
								Mercury Lamp	01	550
								Flame Photometer	01	600
								Magnetic Stirrer	10	6000
								Melting point	01	600
								Digital Weight Balance	04	800
								Hot Air Oven	01	500
								High Vacuum Pump	01	200
								Rotary evaporator	01	200
								Double Distillation unit	01	300
								Single Distillation unit	01	200
								Dhona one pan baritone	01	200
								Smart Board	01	100
								<b>Total</b>		<b>19150</b>
Mathematics	09	-	01	04	03	01	-	Laptop	01	65
								Projector	01	200
								Smart Board	01	100
								<b>Total</b>		<b>365</b>
Statistics	12	-	01	05	06	01	-	Projector	01	200
Psychology	01	01	-	01	01	01	-	-	-	-
Geography	-	09	-	05	02	01	-	Projector	-	200
Economics	-	03	-	01	01	01	-	-	-	-
History	02	02	-	03	01	01	-	-		

Exam Office	-	04	-	02	02	01	-	Xerox Machine	03	1500
Hall No. 1	02	03	-	04	-	-	-	-	-	-
Hall No. 2	02	02	-	03	-	-	-	-	-	-
Hall No. 3	01	04	-	04	-	-	-	-	-	-
Hall No. 4	03	02	-	03	-	-	-	-	-	-
Hall No. 5	-	05	-	03	-	-	-	-	-	-
Hall No. 6	-	05	-	02	-	-	-	-	-	-
Hall No. 7	03	06	-	04	-	-	-	-	-	-
Hall No. 8	-	02	-	02	-	-	-	-	-	-
Hall No. 9	-	04	-	04	-	-	-	-	-	-
Hall No. 10	-	04	-	04	-	-	-	Projector	01	200
Hall No.11	-	02	-	02	-	-	-	Projector	01	200
Hall No. 12	-	04	-	04	-	-	-	Projector	01	200
Hall No.13	-	04	-	04	-	-	-	Projector	01	200
Hall No. 14	-	04	-	04	-	-	-	Projector	01	200
Hall No. 15	-	04	-	04	-	-	-	Projector	01	200
Hall No. 16	-	02	-	02	-	-	-	-	-	-
Hall No. 17	-	04	-	04	-	-	-	Projector	-	200
Hall No. 18	-	02	-	02	-	-	-	-	-	-
Hall No. 19	03	-	-	02	-	-	-	-	-	-
Hall No. 20	04	-	-	02	-	-	-	-	-	-
Hall No. 21	05	-	-	05	-	-	-	-	-	-
MCVC Office	01	02	-	02	02	01	-	-	-	-
<b>Total</b>										<b>3300</b>
MCVC Lab 1 (Machine)	04	02	-	06 Tab le fan 03 Wa ll Fan 01	-	-	Refrigerat or 01	One phase motor	05	625
								Three phase motor	02	600
								Pump motor	02	1500
								Washing machine	02	1000
								Vacuum	02	3000
								Cooler	02	300
								Pestle fan	01	100
								Compound motor	01	100
								Cooler	02	300
								Inverter	01	150
<b>Total</b>		<b>4675</b>								
MCVC Lab 2 (ET)	06	-	-	06	-	-	TV 01	-	-	-
MCVC Lab 2 (MLT)	04	-	-	03	-	-	Refrigerat or 01	-	-	-
Health Lab	03	-	-	03	01	-	-	-	-	-
<b>BBA Building</b>										
Room/ Department	Tube light	LED Tube light	LED Bulb	Fan	Compute r	Printe r	A.C./ Refrigerat or	Other Instrument		Watts
Staff Room	02	-	-	01	01	01	01	-	-	-
Hall No.1	02	-	-	02	-	-	-	-	-	-
Hall No.2	02	-	-	02	-	-	-	-	-	-
Hall No.3	02	-	-	02	-	-	-	-	-	-
Hall No.4	04	-	-	04	-	-	-	-	-	-



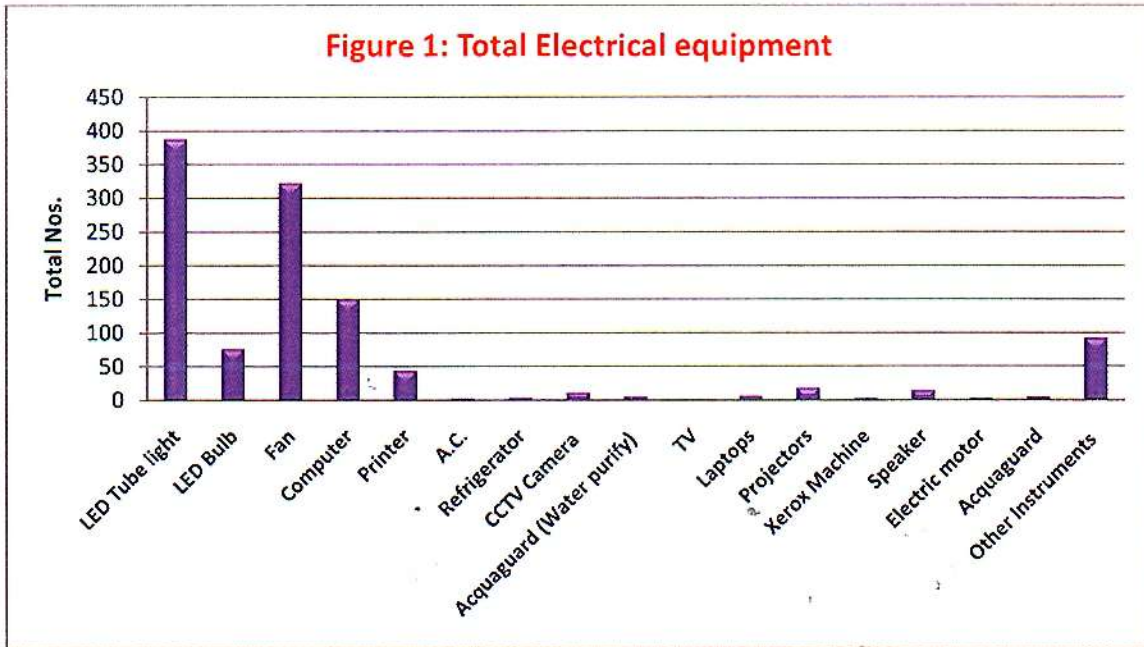
Toilet	-	-	-	02	-	-	-	-	-	-
<b>Kothari Institute</b>										
Room/ Department	Tube light	LED Tube light	LED Bulb	Fan	Compute r	Printe r	A.C./ Refrigerat or	Other Instrument	Tota l Unit s.	Watts
Assembly Hall	04	03	-	05	-	-	-	-	-	-
Office	-	02	01	01	02	01	-	-	-	-
Staff Room	-	07	01	04	02	01	-	-	-	-
BCS Lab 1	04	04	02	07	45	02	-	Projector	01	200
BCS Lab 2	02	04	02	06	01	01	-	-	-	-
M.Sc. Comp. Lab.	05	03	-	06	18	-	-	Projector	01	200
Bio Tech Lab	04	20	-	14	03	01	-	IAC Laminator flow	01	800
								Auto cleave	02	150
								IAC Cooling micro gage	01	200
								Cooling centrifuge	01	120
								fridge	03	600
Total										
Hall No. 1	-	02	-	01	-	-	-	-	-	-
Hall No. 2	-	08	-	04	-	-	-	-	-	-
Hall No. 3	03	02	-	01	-	-	-	-	-	-
Hall No. 4	04	02	-	02	-	-	-	-	-	-
Toilet	04	01	-	-	-	-	-	-	-	-
								Acquaguard	01	100
								<b>Total</b>		<b>2370</b>
<b>Gymkhana Building</b>										
Room/ Department	Tube light	LED Tube light	LED Bulb	Fan	Compute r	Printe r	A.C./ Refrigerat or	Other Instrument	Tota l Unit s	Watts
Gym	03	-	-	02	-	-	-	-	-	-
Badminton	17	-	10	-	-	-	-	-	-	-
Senior Office	17	02	10	01	01	01	-	-	-	-
Junior Office	01	-	-	-	01	01	-	-	-	-
Store Room	01	01	-	01	-	-	-	-	-	-
Toilet	-	-	02	-	-	-	-	-	-	-
								Acquaguard	01	100
<b>Principal Bungalow</b>										
Room/ Department	Tube light	LED Tube light	LED Bulb	Fan	Compute r	Printe r	A.C./ Refrigerat or	Other Instrument	Total Units	Watts
	02	06	03	05	-	-	-	-	-	-
<b>Vice Principal Bungalow</b>										
Room/ Department	Tube light	LED Tube light	LED Bulb	Fan	Compute r	Printe r	A.C./ Refrigerat or	Other Instrument	Total Units	Watts
	02	04	03	03	-	-	01	TV	01	300
<b>Boys Toilet</b>										
Room/	Tube	LED	LED	Fan	Compute	Printe	A.C./	Other	Total	Watts

Department	light	Tube light	Bulb		r	r	Refrigerator	Instrument	Units	
	-	-	-	-	-	-	-	-	-	-
<b>Ladies Room</b>										
Room/Department	Tube light	LED Tube light	LED Bulb	Fan	Computer	Printer	A.C./Refrigerator	Other Instrument	Total Units	Watts
1	-	06	-	01	-	-	-	-	-	-
<b>Open space of College campus</b>										
Room/Department	Tube light	LED Tube light	LED Bulb	Fan	Computer	Printer	A.C./Refrigerator	Other Instrument	Total Units	Watts
Main Gate	-	02	04	-	-	-	-	CCTV Cam.	02	20
Gate No. 2	-	-	12					CCTV Cam.	02	20
Open space –A	-	-	12	-	-	-	-	-	-	-
Open space –B	-	-	10	-	-	-	-	CCTV Cam.	-	20
Kothari Inst.	-	-	04	-	-	-	-	-	-	-
Bio-Tech	-	02								
	-	-	-	-	-	-	-	Electric motor	03	6000
								Acquaguard	02	200
								<b>Total</b>		<b>6260</b>

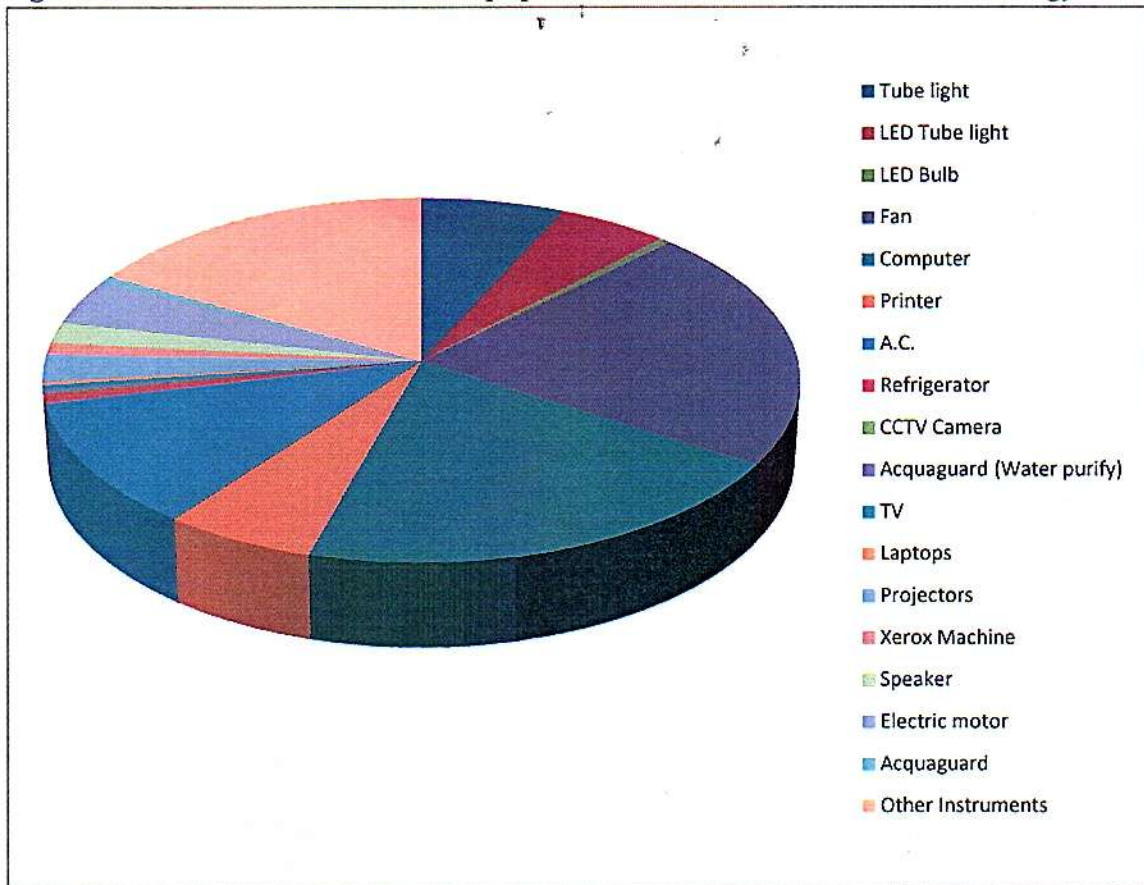
**Table No. 2 Total Electrical equipments, Watts and Percentage**

Electrical equipment	Total	Per watts	Total Watts	Percentage
Tube light	154	40w	10,160	6.82
LED Tube light	387	20w	7,740	5.20
LED Bulb	76	10w	760	0.51
Fan	322	100w	32,200	21.64
Computer	150	200w	30,000	20.16
Printer	44	200w	8,800	5.91
A.C.	03	5500w	16,500	11.08
Refrigerator	04	300w	1,200	0.80
CCTV Camera	11	4+6=10w	110	0.07
Acquaguard (Water purify)	05	100w	500	0.33
TV	02	300w	600	0.40
Laptops	06	65w	390	0.26
Projectors	18	200w	3600	2.41
Xerox Machine	03	500w	1500	1.00
Speaker	14	200w	2800	1.88
Electric motor	03	2000w	6000	4.03
Acquaguard	05	200w	1000	0.67
Other Instruments	92	XXw	24935	16.75
<b>Total</b>	<b>1299</b>		<b>148,795</b>	<b>100%</b>
<b>Grand Total = 148,795w</b>				





**Figure 2: Contribution of Electrical equipment and instrument in total use of energy**



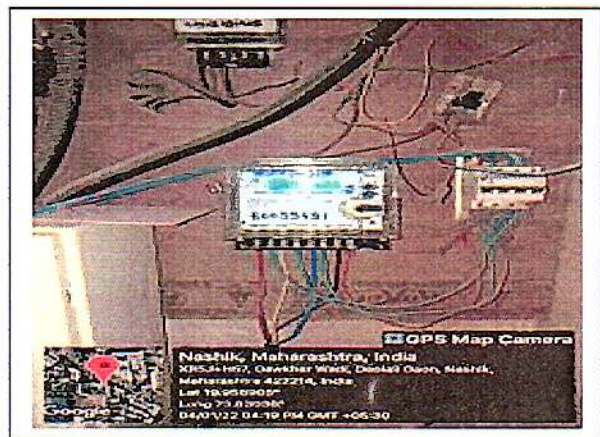
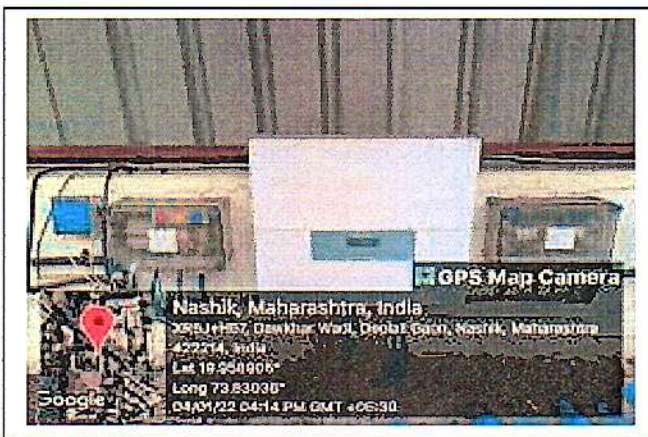
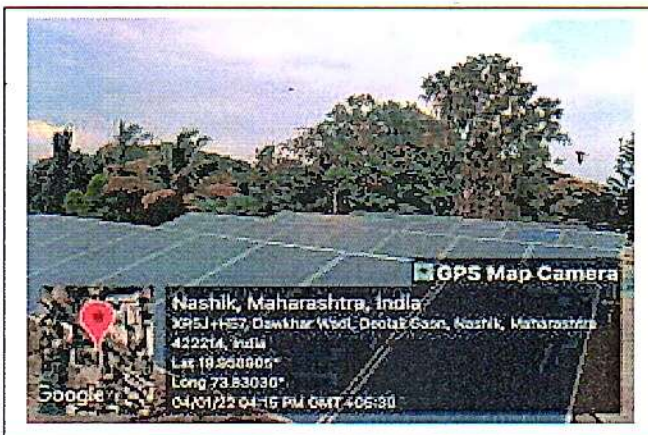
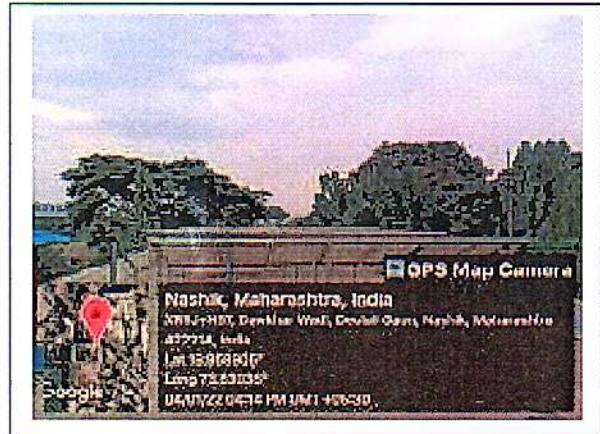
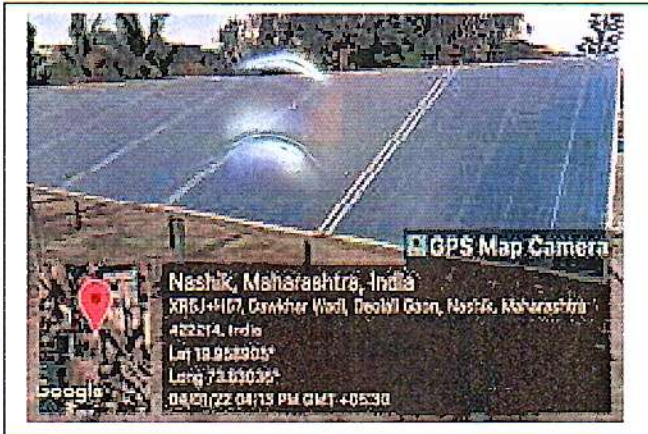
Above the table and the figures shows the total number of electrical equipment in the data collected for the green audit in the college and their total number is about 1299. These mainly include Tube light, Led Tube light, Led Bulb, Fans, Computers, Printers, Electric water pump, AC, Refrigerator Xerox machine, Acquaguard, etc. It also shows the various equipments in the Department of Chemistry, Physics, Biology, MCVC, etc. and how many watts of energy are consumed. Also shown is the percentage of total energy expended. It has a total power consumption of 10160 watts totaling 195 watts and 40 watts each. Due to the high number of LED tube light and LED bulb, even less watts have consumed very little energy. In the case of the fan, every 100 watts of energy is consumed as the number is 322 while the total watts power is 32200 watts. But it is a necessity and it varies a lot as the seasons go by The Xerox machine is also a must and it is highly used during the Examination period. Other times, its use would be minimal. Percentage of total energy is 21.64% Fans 20.16%, Computer 16.75%, Printer 5.91%, Other Instruments was Electric water pump 4.03%, Tube Light 6.82%, Other Electric appliances Use energy percentage The percentage is less than 2% in the table above. Annual energy expenditure is estimated at 148795.

### **RESULTS AND DISCUSSION:**

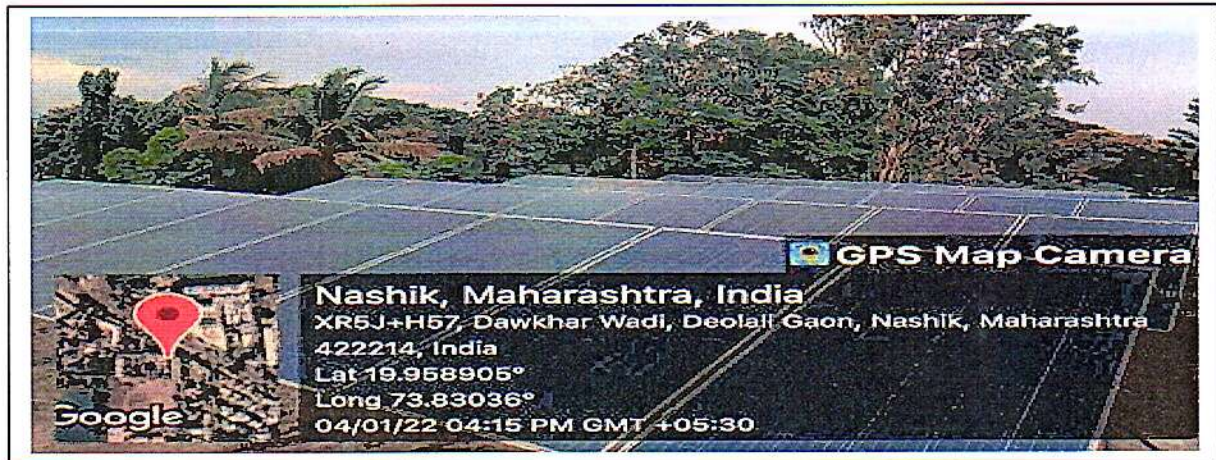
As far concerning the energy audit, electricity audit is main concern regarding educational institution. We have collected data by considering the tube light, fan, computer, printer, A.C and other instruments. In college most of the electricity required for instrument which is 37.64% out off total energy. A.C utilized 11.08 %, Printers required 5.91 %, computer required 20.16% , Fans are required 21.64 % and tube light required 6.82%. The total required energy is 148795W and percentage wise. Fig. 1 shows the Contribution of tube light, fan, computer, printer, AC and instrument in total use of energy and the Fig. 2 shows to use of above instruments total watts In the month of April and May energy requirement is more, because exams and going on in this period and summer season is going on so more electricity is required in this month's mostly.



**Fig.3 Photographs of solar energy generation device in College**







**Fig.3 Photograph of solar energy generation device**

Earlier statistics, solar panel was not installed in the college but now the solar panel has been installed in the college and it has been completed since June 29, 2018, thus saving a lot of energy in future. The solar energy generation devices contain a solar panel. The hybrid energy generation device generates average 1033 units annual (2.86 Units per day.) The college is now uextra energy storage.

#### **SUGGESTIONS:**

We can use LED Tubs and LED bulbs and maximum solar energy for save more electricity.

#### **CONCLUSION:**

In conclusion, data generated in energy audit are useful for to understand the energy distribution and utilization of college. The college needs maximum (Total KWH June 2021 To May 2022 = 51572). In other words college needs 4,297.66 Units per month and if we used solar energy generation device generate the only between 1033 units per moths.

#### **REFERENCES:**

- **K.Umesha et al** Journal of Electrical and Electronics Engineering, 4 (2013) 23
- **Arun Kumar et al**, Energy audit of iit-roorkee campus, Indian Institute of Technology
- **Manoj Kumar et al**, Energy audit of iit-bombay campus, Indian Institute of Technology Bombay Powai, Mumbai
- **R. Hari Baskar, Hitu Mittal, Mahesh S Narkhede, S. Chatterji**, International Journal of Emerging Technology and Advanced Engineering, 4 (2014) 73-7 Roorkee Roorkee, Uttarakhand – 247667
- **Swati Ajaria**, International Journal of Engineering Technology & Management Research, 2 (2014) 38



**Total cost units utilizes by college and total cost in rupees**

(All data collected in between June 2021 to May 2022)

Month	Meter No. 1	Bill Amount	Meter No. 2	Bill Amount	Meter No. 3	Bill Amount	Meter No. 4	Bill Amount	Meter No. 5	Bill Amount
	049081131405 Main Building		049080039491 Main Building		049081131413 Chemistry Department		049084091307 Library in Chem. Dept.		049085504290 Seminar Building	
	KWH		KWH		KWH		KWH		KWH	
Jun	00	100	1030	9130	546	5420	150	1532	590	5146
July	00	120	1487	12953	512	5230	30	306	575	5015
Aug.	00	145	1260	10356	517	5276	150	1532	700	6106
Sep.	40	380	1490	11370	591	5830	150	1532	630	5495
Oct.	00	670	1030	9330	657	6200	150	1532	622	5425
Nov.	40	100	1290	10430	530	5790	150	1532	615	5364
Dec.	40	780	1380	11205	592	4690	180	1837	613	5347
Jan.	40	760	1290	10030	494	5200	180	1837	678	5914
Feb.	40	380	1301	10768	503	4792	180	1837	624	5443
Mar.	00	145	1282	9911	552	4195	40	408	679	5923
Apr.	00	150	1756	13144	712	4903	150	1532	748	6525
May	00	145	1654	12406	970	8356	150	1532	724	6315
Total	200 KWH	3875/-	16250 KWH	131033/-	7176 KWH	65882/-	1660 KWH	16949/-	7798 KWH	68018/-

Month	Meter No. 6 049081131391 Street Light	Bill Amount	Meter No. 7 049081133751 Principal Quarter	Bill Amount	Meter No. 8 049081132266 Principal Quarter	Bill Amount	Meter No. 9 049081131421 Gymkhana	Bill Amount	Meter No. 10 049088377175 Kothari Building	Bill Amount
	KWH		KWH		KWH		KWH		KWH	
Jun	58	752	351	3255	236	3063	58	720	971	12237
July	46	597	106	983	106	1375	58	720	773	9276
Aug.	71	921	418	3876	57	739	128	1589	722	8864
Sep.	58	752	422	3913	56	726	154	1912	898	11674
Oct.	105	1362	388	3598	57	739	116	1440	915	12810
Nov.	54	700	346	3208	57	739	114	1415	1001	16016
Dec.	47	610	367	3403	59	765	403	5004	702	8424
Jan.	37	480	391	3626	63	817	142	1763	887	11486
Feb.	41	532	376	3487	64	830	228	2831	722	7943
Mar.	67	869	329	3051	53	687	109	1353	1261	22698
Apr.	114	1479	126	1168	71	921	73	906	1131	18096
May	116	1505	156	1446	152	1972	99	1229	1202	19232
Total	814 KWH	10559/-	3776 KWH	35014/-	1031 KWH	13373/-	1682 KWH	20882/-	11185 KWH	158756/-



**Total KWH June 2021 To May 2022 = 51572**

Month	Meter No. 1 049081131405 Main Building	Meter No. 2 049080039491 Main Building	Meter No. 3 049081131413 Chemistry Department	Meter No. 4 049084091307 Library in Chem. Dept.	Meter No. 5 049085504290 Seminar Building	Meter No. 6 049081131391 Street Light	Meter No. 7 049081133751 Principal Quarter	Meter No. 8 049081132266 Principal Quarter	Meter No. 9 049081131421 Gymkhana	M Meter No. 10 049088377175 Kohari Building	Total
Jun	0	1030	546	150	590	58	351	236	58	971	3990
July	0	1487	512	30	575	46	106	106	58	773	3693
Aug.	0	1260	517	150	700	71	418	57	128	722	4023
Sep.	40	1490	591	150	630	58	422	56	154	898	4489
Oct.	0	1030	657	150	622	105	388	57	116	915	4040
Nov.	40	1290	530	150	615	54	346	57	114	1001	4197
Dec.	40	1380	592	180	613	47	367	59	403	702	4383
Jan.	40	1290	494	180	678	37	391	63	142	887	4202
Feb.	40	1301	503	180	624	41	376	64	228	722	4079
Mar.	0	1282	552	40	679	67	329	53	109	1261	4372
Apr.	0	1756	712	150	748	114	126	71	73	1131	4881
May	0	1654	970	150	724	116	156	152	99	1202	5223
<b>Total</b>	<b>200</b>	<b>16250</b>	<b>7176</b>	<b>1660</b>	<b>7798</b>	<b>814</b>	<b>3776</b>	<b>1031</b>	<b>1682</b>	<b>11185</b>	<b>51572</b>

**Total Amount : June 2021 To May 2022 = 5,24,341/-**

Month	Meter No. 1 049081131405 Main Building	Meter No. 2 049080039491 Main Building	Meter No. 3 049081131413 Chemistry Department	Meter No. 4 049084091307 Library in Chem. Dept.	Meter No. 5 049085504290 Seminar Building	Meter No. 6 049081131391 Street Light	Meter No. 7 049081133751 Principal Quarter	Meter No. 8 049081132266 Principal Quarter	M Meter No. 9 049081131421 Gymkhana	M Meter No. 10 049088377175 Kohran Building	Total
Jun	100	9130	5420	1532	5146	752	3255	3063	720	12237	41355
July	120	12953	5230	306	5015	597	983	1375	720	9276	36575
Aug.	145	10356	5276	1532	6106	921	3876	739	1589	8864	39404
Sep.	380	11370	5830	1532	5495	752	3913	726	1912	11674	43584
Oct.	670	9330	6200	1532	5425	1362	3598	739	1440	12810	43106
Nov.	100	10430	5790	1532	5364	700	3208	739	1415	16016	45294
Dec.	780	11205	4690	1837	5347	610	3403	765	5004	8424	42065
Jan.	760	10030	5200	1837	5914	480	3626	817	1763	11486	41913
Feb.	380	10768	4792	1837	5443	532	3487	830	2831	7943	38843
Mar.	145	9911	4195	408	5923	869	3051	687	1353	22698	49240
Apr.	150	13144	4903	1532	6525	1479	1168	921	906	18096	48824
May	145	12406	8356	1532	6315	1505	1446	1972	1229	19232	54138
<b>Total</b>	<b>3875</b>	<b>131033</b>	<b>65882</b>	<b>16949</b>	<b>68018</b>	<b>10559</b>	<b>35014</b>	<b>13373</b>	<b>20882</b>	<b>158756</b>	<b>524341</b>

**Total Amount Paid June 2021 to May 2022 Rs. 524341/- (Rs. Five Lakhs Twenty Four Thousand Three Hundred and Forty one)**



**BILLING HISTORY (SOLAR METER MAIN BUILDING (METER NO. 2: 049080039491)  
SOLAR NET METER CONSUMPTION DETAILS)**

Bill Month	Consumption (KWH)	Bill Amount	Import Consumption (KWH)	Export Consumption (KWH)	Generation
Jun 2021	1,174	9130.	1,174	300.00	874.00
July 2021	1,297	12953	1,297	300.00	997.00
Aug. 2021	1,185	10356.	1,185	300.00	885.00
Sep. 2021	1,380	φ11370	1,380	300.00	1080.00
Oct. 2021	1,289	9330	1,289	300.00	989.00
Nov. 2021	1,043	10430	1,043	300.00	743.00
Dec. 2021	1,514	11205	1,514	300.00	1214.00
Jan. 2022	1,260	10030	1,260	300.00	960.00
Feb. 2022	1,487	10768	1,487	300.00	1187.00
Mar. 2022	957	9911	957	300.00	657.00
Apr. 2022	1,654	13144	1,654	300.00	1354.00
May 2022	1,756	12406	1,756	300.00	1456.00
<b>Total</b>	<b>15,996</b>	<b>131033</b>	<b>15,996</b>	<b>3600.00</b>	<b>12396.00</b>

### BILLING DETAILS

Billed Demand (KVA)	0	@ Rs.	422	Demand Charges	422.00
Assessed P.F.	0.000	Avg. P.F.	0.000	Wheeling Charge @ 01.17	1,566.63
Billed P.F.	0.000	L.F.		Energy Charges	7,953.66
<b>Consumption Type</b>	<b>Units</b>	<b>Rate</b>	<b>Charges Rs.</b>	TOD Tariff EC	00.00
Industrial				FAC @ 00.00 Ps/U	00.00
Residential	1,339	0.00	7953.66	Electricity Duty (16.00 %)	1,590.77
Commercial				other charges	00.00
				Tax on Sale @ 19.04 Ps/U	254.95
				P.F. Penal Charges/P.F. Inc.	00.00
<b>E.D. on(Rs)</b>	<b>Rate %</b>	<b>Amount Rs.</b>		Charges For Excess Demand	00.00
0.00	0	0.00		Debit Bill Adjustment	00.00
9,942.29	16	1590.77		<b>TOTAL CURRENT BILL</b>	<b>11,790.00</b>
0.00	0	0.00		Current Interest 07-05-2023	00.00
				Principle Arrears	-1,109.28
				Interest Arrears	00.00
<b>TOD Zone</b>	<b>Rate</b>	<b>Units</b>	<b>Demand</b>	<b>Charges Rs.</b>	
2200 Hrs-0600 Hrs	0.00	0	0.00	Total Bill (Rounded) Rs.	10,680.00
0600 Hrs-0900hrs & 1200 Hrs-1800 Hrs	0.00	0	0.00	Delayed Payment Charges Rs.	147.35
0900 Hrs - 1200 Hrs	0.00	0	0.00	Amount Payable31-05-2023 After	
1800 Hrs-2200 Hrs	0.00	0	0.00	Amount Rounded to Nearest	<b>10,830.00</b>
Amount in Words      TEN THOUSAND SIX HUNDRED EIGHTY ONLY					

### SOLAR NET METER CONSUMPTION DETAILS

SOLAR TARIFF	IMPORT			EXPORT			GENERATION		
	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units
0000 Hrs-0600 Hrs& 2200 Hrs-2400 Hrs	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
0600 Hrs-0900 Hrs& 1200 Hrs-1800 Hrs	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
0900 Hrs - 1200 Hrs	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
1800 Hrs-2200 Hrs	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
<b>TOTAL</b>	60,208.00	58,569.00	1,639.00	15,734.00	15,434.00	300.00	47,224.00	45,911.00	1,313.00
Offset: 300.00	Previous Banked: 00.00		Current Banked: 00.00	Banking Charge Unit: 00.00			Billed: 1,339.00		

Dr. Santosh Pagar  
Department of Hindi

Mr. Waheen A. Beg  
Department of Chemistry

Dr. Sudhakar J. Borase  
Department of Geography

Prof. Dr. Manjusha Kulkarni  
Principal

