



Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

SHRI DHOKESHWAR COLLEGE

Takali Dhokeshwar, Tal. Parner, Dist. Ahmednagar, (MS)

Affiliated to Savitribai Pule Pune University, Pune

NAAC Re-accredited with Grade "B" (CGPA 2.21-2nd Cycle)

ISO Certification: 9001:2015

Website: <http://shridhokeshwarcollege.org/>

7.1.3 Quality audits on environment and energy regularly undertaken by the institution. The institutional environment and energy initiatives-

INDEX

Sr. No.	Particulars	Page No.
1.	Environment and Energy Usages Policy	2-3
2.	A Brief Report of Energy Audit	4-22
3.	Energy Audit Certificate	23
4.	Beyond the campus Environmental Promotion Activities	24-35
5.	Action taken and achievement report Green campus initiatives	36-44




PRINCIPAL
Shri. Dhokeshwar College
Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar



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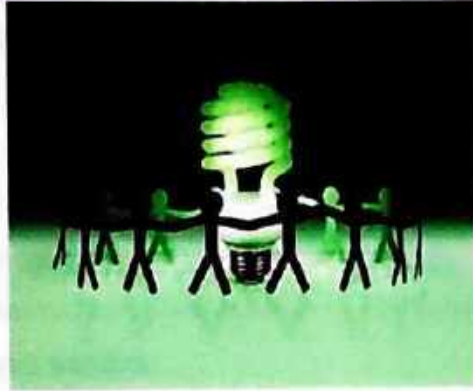
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Environment and Energy Usages Policy



The Environment and Energy usage Policy of Shri Dhokeshwar College, Takali Dhokeshwar has devised ways to manage energy in a systematic way to minimize its impact on the environment. The policy implies exploring renewable energy resources to reduce the government's burden and find out substitute natural resources as solutions to the energy crisis. Article 51-A states that, "it shall be the duty of every citizen of India to protect and improve the natural environment including forests, lakes, rivers, and wildlife and to have compassion for living creatures." India is one of the parties to the Convention on Biological Diversity (CBD) treaty. Prior to the CBD, India had different laws to govern the environment. The Indian Wildlife Protection Act of 1972 protected biodiversity. The 1988 National forest Policy had conservation as its fundamental principle.

This environment and energy policy is binding for all the components of the institution and applies to all its stakeholders and the various activities undertaken by the institution. It will help us to embed efficiency and environmental awareness into our everyday activities, thus helping us to realize our responsibilities and commitment to the conservation of natural resources and to limit their usage. **The Environment Committee** is an official platform devoted to the cause of



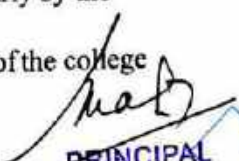
environmental awareness, undertaking green initiatives, and conducting green literacy programs to save energy and protect the environment.

Policies:

- To assess our energy usage and measure its impact on the environment.
- To find CO2 emissions generated by our means of transportation- vehicles.
- To reduce local air pollution emissions by using environment-friendly vehicles, including bicycles, public transportation, and the use of pedestrian-friendly roads.
- To install on-grid off-grid solar panels for the generation of alternate energy.
- Install LED bulbs on the campus to save energy.
- To develop a systematic waste management mechanism.
- To develop a rainwater harvesting unit.
- To undertake a tree plantation drive.
- To take additional measures to continuously improve our energy consumption.
- To develop and maintain an environmental management system, ISO: 9001:2015, and college, an energy audit was done.
- To ensure the availability of necessary resources to achieve our objectives.
- To encourage the use of advanced technology to minimize energy consumption, atmospheric emissions, and noise, particularly from our vehicle fleets.
- To engage in dialogue with government agencies, municipal corporations, and the affiliating university and actively work with the local organizations in the areas of environment, energy efficiency, and sustainable development.
- To monitor and respond to emerging environmental and energy issues.
- To strengthen our employees' and students' environmental knowledge and skills to improve our environmental performance.
- To provide information and training opportunities on energy-saving measures.
- To offer opportunities for employees and students to engage in initiatives that contribute to environmental protection.
- To train our stakeholders through our Best Practice to make them '**Green Campus**' to plant trees each year.

This policy will be communicated to the students and employees via internal communication channels and will be made available to all the stakeholders on the institutional website. The Environment and Energy Policy, objectives, and targets will be reviewed regularly by the Environment committee and its members under the guidance of the Principal of the college




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Energy audit

In academic year 2020-2021 college had done this energy audit from **Shri. Deokar Bhausaheb (engineer) & Team, Aditi Engineering Services Nashik.**

A Brief Report of Energy Audit

ENERGY AUDIT REPORT

**AHMEDNAGAR JILHA MARATHA VIDYA
PRASARAK SANTHA, SHRI DHOKESHWAR
COLLEGE**

**TAKALI DHOKESHWAR, TAL-PARNER,
DIST-AHMEDNAGAR**

**ENERGY AUDITED DURING
ACADEMICS YEAR 2020-2021**

**AUDITED BY
ADITI ENGINEERING SERVICES NASHIK**



Acknowledgement

Energy Audit of system is key instrument in knowing the present level of efficiency of various component and establishing the areas of shortfall for improvement. We are very thankful for Principal Dr. Shri- Laxman Matkar sir , Ahmednagar Jilha Maratha Vidya Prasarak Santha, Shri Dhokeshwar College who have opted such prudential step on the behalf of Management & have given opportunity to conduct Energy audit of college campus facility .We are also thankful for subordinate staffs who have given their valuable contribution for guiding & supporting us during college premise round for data collection , network study & measurement for accomplishing successful Energy audit.

This report made with sincere efforts gives details of the relevant data collected during energy audit study, observation, analysis & recommendations made pertaining to different systems in college premises.

Several Energy Conservation Opportunities(Measures) have been identified & proposed in course of our study & these options when implemented , are expected to bring in lasting benefits(saving) in term of energy as well as cost to the management.

We are pleased to submit this Detailed Energy Audit Report to Hon. Principal Dr Shri- Laxman Matkar sir .Ahmednagar Jilha Maratha Vidya Prasarak Santha, Shri Dhokeshwar College, Takali dhokeshwar, Tal- Parnar, Dist- Ahmednagar representing on behalf of management and wish him all the best for implementation of identified Energy Conservation Opportunity as well as recommendations after sincere study & observations.

Aditi Engineering services Nashik is willing to support management technically toward implementation of Energy Saving Measures for deriving energy conservation & cost effective benefits.

For Aditi Engineering services Nashik

Er. Deokar Bhausahab

BEE Certified Energy Auditor & Team

Mob No- 9960691191



Energy Audit Team

Name	Company	Designation
Mr Khade	Shri Dhokeshwar College, Takali dhokeshwar, Tal- Parner, Dist- Ahmednagar	College staff
Er. Deokar Bhausahab & Team	Aditi Engineering Services Nashik	Energy Auditor



INDEX

Sr No	Particulars
1	Introduction
2	Scope of energy audit
3	Energy audit methodology
4	System study during energy audit
5	Executive Summary
6	Electrical Connected Load Study
7	Solar Power Generation & Utilization
8	UPS Load measurement study
9	Identified Energy Saving Opportunities
10	Scope for installation of Solar Water Heater
11	Scope for installation of Solar Street Light
12	Electrical Loading Study Of Motors
13	Observations & Recommendation
14	List Of Instrument used for measurement in Energy Audit



1) Introduction :

Ahmednagar Jilha Maratha Vidya Prasarak Santha, Shri Dhokeshwar College, Takali dhokeshwar, Tal- Parner, Dist- Ahmednagar is leading college imparting education to rural student majorly from Parner Taluka. This college is founded by & is governed by Management of Ahmednagar Jilha Maratha Vidya Prasarak Santha. The student from farmer's family are taking education in Science, Commerce & Art faculty up to graduate level. Electricity is unique source of energy to run college activity. In this college building, electricity is used basically for lighting system, scientific equipment & for operating computers. It is using electrical power from MSEDCL LT 3-phase connection.

2) Scope Of Energy Audit :-

The task of energy audit undertaken by Aditi Engineering Services Nashik has the objective of finding energy conservation & energy saving opportunities and to recommend action plan with calculation of investment options & energy saving thereof.

Scope of work is defined below

1. Study & Audit of MSEDCL electricity Bill
2. Load Study & inventory
3. Lighting System study & measurement
4. Solar system study
5. UPS Loading Study
6. Motor pump set load measurement & study
7. Identification of energy saving opportunity & energy conservation measures
8. Submission of technical & financial analysis report.

3) Energy Audit Methodology :-

The audit involves visiting physical position of load & carry out inventory of load. Due measurement of electrical load of equipment & circuit is carried out. Energy bill received from MSEDCL is audited & studied for KWH requirement & how efficiently energy is used. Energy conservation & saving opportunities are identified during round & measurement for implementation



4) Systems Studied During Energy Audit :

1. MSEDCL Monthly electricity bill studied & audited.
2. Lighting system studied
3. Load Study & inventory
4. Motor pump set load measurement & study
5. UPS load measured & studied
6. Energy saving opportunities are identified

5) Executive Summary

1) Average Cost of Power-

There are two LT electricity connections those supplying electrical input power for lighting, PCs, motor pump set & laboratory equipment in college building. Average Cost of Power is calculated from information available in electricity bill served by MSEDCL Electricity Distribution Company. Details of connection are as below.

Month	LT II Com 3-Phase Connection No-150870053560			LT II A 3-Phase Connection No-150870004411		
	Total KWH	Total Amount Rs	Average cost Rs/KWH	Total KWH	Total Amount Rs	Average cost Rs/KWH
Jan-19				236	2856	12
Feb-19				290	3607	12
Mar-19				249	3009	12
Apr-19				265	3344	13
May-19				113	1587	14
Jun-19				7	542	77
Jul-19				151	2792	18
Aug-19				250	2921	12
Sep-19				271	3332	12
Oct-19				331	4183	13
Nov-19	201	2430	12	233	2989	13
Dec-19	262	3400	13			
Total	2396	31162	13	2396	31162	13

Average Cost of Power Rs per KWH - 13



Note-

MSEDCL has applied wrong tariff category for college. This LT II Com tariff category is making financial loss to college & recovering cost per KWH at higher rate than actual applicable LT Public service-other. So wrong tariff category of 3-phase connection No-150870053560 & 150870004411 shall be got changed from LT II Com to LT Public service-other to reduce input cost of power & save financial loss unnecessary.

2) Identified energy saving opportunity:-

Energy saving & energy conservation opportunities are identified during energy audit study. These opportunity are studied, analyzed & worked out estimated energy & cost saving potential. This potential will be harnessed after implementation of identified energy saving opportunity.

Details are given below

Sr No	Energy Saving opportunity	Total expected KWH saving	Total expected cost saving in Rs	Capital Investment in Rs	Pay-back period in years
1	Replacement of existing CRT monitor with LCD monitor	1440	18720	30400	1.62
2	Replacement of existing FTL with LED tube light	4536	58968	36000	0.61
3	Replacement of CFL bulb with LED Tube light	1704	22152	2400	0.11
		29	374	1600	4.27
4	Installation of solar street light	631	8199	100000	12
6	Improvement in MSEDCL poor grid voltage	15330	199290	No cost	No cost
Total		23670	307704	170400	



3) Reconfiguration of UPS -

Reconfiguration of UPS for connected loads is necessary to spare connected UPS & batteries to save operating cost. It is advised to arrange UPS system centrally for optimization of capacity based on diversity of application & arrange to extend supply from it to user end. It is also recommended to keep battery charging on solar system to avoid use of costly grid power.

6) Electrical Connected Load study

Electrical load has been physically inventoried & recorded to know total load mix i.e. various category of load connected in electrical network. This also helps to work out total connected load in Kilo Watt. Details of loads are given below. Total load is categorized & representative pie chart is drawn to know visual scenario of load.

Sr No	Location	FTL Tube light		UPS		Ceiling fan		PC			LED Tube/ Down Light	
		No	Total watt	No	Total Watt	No	Total watt	CRO display Type No	LCD display No	total Watt	No	total Watt
	Ground floor					2	150			0		0
1	Principal cabin		0		0	2	150			0	8	120
2	Principal meeting hall		0	1	880		0			0	8	120
3	Hon. Shaumharaj Auditorium	0	0	0	0	0	0			0	0	
4	Hon. C V Raman Hall		0		0	6	450			0	9	198
5	Administrative office	1	46	1	5000	10	750		7	350	21	315
6	Exam control room	3	138	1	5000	1	75		2	100		0
7	Gymkhana-105	5	230		0	2	150		1	50		0
8	chemistry laboratory-2 -106	6	276	1	900	1	75			0		0
9	chemistry laboratory-1 -107	6	276		0	1	75			0		0
10	chemistry laboratory store	2	92		0	1	75		1	50		0
11	Chemistry Depart. HOD	2	92		0		0			0		0
	Ladies Hostel		0		0		0			0		0
12	1) Room No-13		0		0	1	75			0	1	7
13	2) Room No-2	1	23		0		0			0		0
14	3) Room No-3		0		0	1	75			0	1	7
15	4) Room No-4	1	23		0	1	75			0	1	7
16	5) Room No-5	1	23		0	1	75			0		0
17	5) Room No-7	1	23		0	1	75			0		0
18	Kitchen		0		0	2	150			0	2	14



19	Toilet Block		0		0		0			0	3	21
20	Common Room	1	46		0		0			0		0
21	Common area	1	72	1	880		0			0		0
22		1	36		0		0			0		0
23	Passage	5	180		0		0			0		0
	Second floor		0		0		0			0		0
24	Class Room NO-1	0	0	0	0	0	0	0	0	0	0	0
25	Class Room NO-2	0	0	0	0	0	0	0	0	0	0	0
26	Class Room NO-3	0	0	0	0	0	0	0	0	0	0	0
27	Class Room NO-4	0	0	0	0	0	0	0	0	0	0	0
28	Class Room NO-5	0	0	0	0	0	0	0	0	0	0	0
29	Class Room NO-6	0	0	0	0	0	0	0	0	0	0	0
30	Class Room NO-7	0	0	0	0	0	0	0	0	0	0	0
31	Class Room NO-8	0	0	0	0	0	0	0	0	0	0	0
32	Class Room NO-9	0	0	0	0	0	0	0	0	0	0	0
33	Class Room NO-10	0	0	0	0	0	0	0	0	0	0	0
34	Class Room NO-11	0	0	0	0	0	0	0	0	0	0	0
	Staff Room		0		0		0			0		0
35	1) Hystory Department	1	46		0	1	75			0		0
36	2) Hindi Department	1	46		0	1	75		1	50		0
37	3) politics Department	1	46		0	1	75			0		0
38	4) marathi Department	2	92		0	1	75			0		0
39	Commerce Department	1	46	1	500	1	75		1	50		0
			0		0		0			0		0
	First floor		0		0		0			0		0
40	Library	7	322	1	1400	3	225		2	100		0
41	1) Ladies Reading Room	2	92		0	1	75			0		0
42	2) Gents Reading Room	2	92		0	1	75			0		0
43	Computer Lab (215)	4	184	1	1400		0	8	7	1350		0
44	Office NCC(214)	1	46		0	1	75			0		0
45	Advance diploma in flouriculture	1	46		0	1	75			0		0
46	Botany Lab	4	184		0	2	150			0		0
47	Botany Lab hall no- 211	2	92		0	1	75			0		0
48	Zoology Lab	2	92		0	1	75			0		0
49	Zoology -210	4	184	1	880	1	75		1	50		0
50	NAAC office	3	138	1	880	4	300		1	50		0
51	Depart. Of geography lab-207	4	184		0	2	150			0		0
52	Depart. Of geography staff room-206	2	92		0	1	75		1	50		0



53	Electronic Department -205	2	92	1	880	1	75		1	50		0
54	Electronic Department lab-204	4	184		0	2	150		1	50		0
55	mathematics Department -203	2	92		0	1	75		1	50		0
56	physics Department -202	2	92	1	1500	1	75	3	2	475		0
57	physics Department lab		0		0		0	16		656		0
58	Office NCC-208	2	92		0	2	150		1	50		0
59	Passage	7	322		0		0			0		0
60	College campus lighting		0		0		0			0	12	84
		100	4474	12	20100	64	4500	27	31	3581	66	893

Other Major Load Details:-

Sr No	Location	Printer		Xerox/copier machine		Water Cooler		Fridge		Autoclave/Incubator	
		No	total Watt	No	total Watt	No	Watt	No	Watt	No	Watt
Ground floor											
1	Principal meeting hall		0					1	170		
2	Administrative office	8	2400	1	750						
3	Exam control room	1	300	1	750						
4	Gymkhana-105	1	300			1	300				
5	Kitchen		0					1	170		
Second floor											
First floor											
6	Library	1	500								
7	Botany Lab		0							1	2000
8	Botany Lab hall no- 211		0							1	250
9	Zoology -210	1	750							2	250
10	NAAC office	1	500								
11	Depart. Of geography staff room-206	1	250								
12	Electronic Department -205	1	500								
		15	5500	2	1500	2	600	2	340	4	2500

Analysis of connected load to electrical network

Types of Load

FTL Tube light		Motor pump set		Ceiling fan		PC		Printer		Xerox/copier machine		Water Cooler		LED Tube/ Down Light		Fridge		Autoclave/Incubator	
No	Total watt	No	Watt	No	Total watt	No	watt	No	total Watt	No	Watt	No	Watt	No	total Watt	No	Watt	No	Watt
100	4474	2	3700	64	4500	58	3581	15	5500	2	1500	2	600	66	893	2	340	4	2500

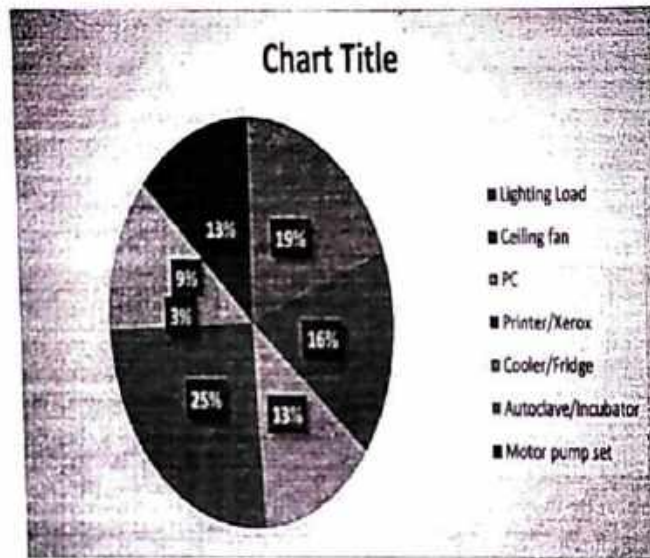


Category of loads with percentage

Type of load	Lighting Load	Ceiling fan	PC	Printer/Xerox	Cooler/Fridge	Autoclave/Incubator	Motor pump set	Total
Watts	5367	4500	3581	7000	940	2500	3700	27588
% on Total	19	16	13	25	3	9	13	100

Presentation of loads with pie chart-

Type of load	Lighting Load	Ceiling fan	PC	Printer/Xerox	Cooler/Fridge	Autoclave/Incubator	Motor pump set	Total
% on Total	19	16	13	25	3	9	13	100



7) Solar Power Generation & Utilization:-

The college management has got installed solar electrical power generation On -Grid system of 10 KW with NET metering & added additional input power source other than MSEDCL power to college. As this system is on grid system, it has feature to import power when solar generation is short & export power to grid when demand lowers than solar generation. This is very prudential step of management taken to introduce solar green power in college which is free & helping for mitigation of greenhouse emissions. Ultimately this lowers environment



damage. This also reduces dependency on MSEDCL source in day time. Detail study is performed on this system as below.

Solar PV Panel System-

Solar Inverter

PV Grid Inverter	Make	Model	Max DC Volt	DC Input Voltage Range	MPPT DC Volt Range	Max Input current per string	Max AC current output in Amp	Nominal output	Hz
	DELTA	RPIM10A	1000	200-1000	415-800	15A/10A	16	3/N/PE 230V/400	50+/-6

PV Panel

PV Panel	Make	Max power watt	open circuit voltage	Max power volt	Max power current Amp	Total Panel No	Total string	Efficiency %	Total installed capacity in Watt
	vikram solar	325	46.2	37.8	8.60	32	2	16.7	10.4

Actual generating power measurement:-

3-phase Power generating by system is measured with 3-phase power analyzer. Details of measurements are given below.

Phase	Measurement at 11-30 am & 15-15 Hrs. on 3-2-2020					
	KW	KVAR	KVA	PF	Volts at meter terminal (PCC)	Amps
R	0	0	0	0	209.20	0
Y	0	0	0	0	196.6	0
B	0	0	0	0	190.3	0
Total	0	0	0	0		



Observation-

It found that power delivered by solar electrical power generation system was zero watt. This is due to very poor grid voltage. The Solar System has capacity to generate power & generating also. But Solar System is kept isolated from grid due to very poor voltage of grid. Hence power generating capacity is not utilizing. So at present you are losing substantially financial benefit from system & Solar System is not proving cost effective.

Recommendation-

- 1) If this system operation is to continue, grid voltage has to be corrected from MSEDCCL to have system connection almost time with grid to enable system to deliver optimum solar power.
- 2) If Voltage of grid can't be improved from MSEDCCL, Solar System has to be operated in wholly or partly in off-grid mode by necessary modification from authorized solar power service agency to derive optimum solar power for captive use to save cost.

Disadvantage at present

- 1) There is least solar power generation due to poor grid voltage, you are losing monetary benefits from system & investment is not cost effective.
- 2) You are drawing costly power from MSEDCCL for college activity despite available solar power resource with you.

Assessed Annual Loss of system

Measured solar power generation on 3-2-2020 at 3.30 pm	Assured Solar power energy generation per day	Annual electricity generation loss from Solar power system	Average cost of MSEDC power	Annual financial loss in Rs	Average emission factor(Source-CEA)	Equivalent CO2 gas emission permitted in
KWH	KWH	KWH	Rs/ KWH	Rs	Kg of Co2/KWH	Kg
14	56	15330	13	199290	0.82	12570



8) UPS Load Measurement study:-

There are no of UPS battery backup systems working in college for feeding back up supply to computers in computer laboratory & other purposes to maintain operation uninterrupted as mentioned below during interrupted power from MSEDCL end. Loading on each UPS has been measured to know loading on each during energy audit. The all UPS are very under loaded. This under loading enhances harmonic generation level & pollutes power more. Hence it is recommended to load UPS up to 80% for effective use. Reconfiguration of UPS for connected loads is necessary to spare connected UPS & batteries to save power & its cost. It is advised to arrange UPS system centrally for optimization of capacity & arrange to extend supply from it to user end. It is also recommended to keep battery on with solar system to avoid to use costly grid power.

Sr No	Location	UPS Details					
		No	Watt	Total Watt	Total 12 V Battery No	AH/Battery	Total AH
	Ground floor						
1	Principal cabin			0			
2	Principal meeting hall	1	880	880	1	150	150
3	Administrative office	1	5000	5000	4	165	660
4	Exam control room	1	5000	5000	4	165	660
5	chemistry laboratory-2 -106	1	900	900	1	150	150
	Ladies Hostel			0			0
6	Common area	1	880	880	1	200	200
	Second floor			0			0
	Staff Room			0			0
7	Commerce Department	1	500	500	1	152	152
	First floor			0			0
8	Library	1	1400	1400	2	150	300
9	Computer Lab (215)	1	1400	1400	2	150	300
10	Zoology -210	1	880	880	1	150	150
11	NAAC office	1	880	880	1	150	150
12	Electronic Department -205	1	880	880	1	150	150
13	physics Department -202	1	1500	1500	2	150	300
		12	20100	20100	21		3322

UPS Battery Back Study:-

Total computers Load in KW mentioned above- 3.58



- 1) Total Battery of each UPS—21No Rated Volt-12 V Rated discharge capacity-3320 AH
Total Assessed VAH of system- 39840

2) Estimated Battery Backup Hours- 11 Hrs. This period is too long & is not commensurate with effected load shading by MSEDC. This increases maintenance & operating cost. So it is advised Reconfiguration of UPS for connected loads to spare connected UPS & batteries to save operating cost.

9) Identified Energy Saving Opportunities

1) Lighting System-

Lighting load contribute major percentage share in total load. College management has been taking drive to replace existing conventional Fluorescent Tube Light with energy efficient LED tube light & LED lamp. However there is still remained much work potential for the replacement of existing conventional Fluorescent Tube Light with energy efficient LED tube light & LED lamp which is identified as below. It is recommended to complete replacement work to conserve energy & save cost.

1) Replacement Of Fluorescent Tube Light With LED Tube Light

FTL			LED Tube			Saving In Watt	Saving per year in			Investment in Rs	Pay- back period in year
No	Watt/No	Watt	No	Watt/No	watt		KWH	Average Cost Rs/KWH	Amount Rs		
90	41	3690	90	20	1800	1890	4536	13	58968	36000	0.61

2) Replacement Of Compact Fluorescent Light With LED Tube Light

Lighting load contribute major percentage share in total. College management has been taking drive to replace existing conventional Fluorescent Tube Light with energy efficient LED tube light & LED lamp. However there is still remained work potential for the replacement of existing conventional Fluorescent Tube Light with energy efficient LED tube light & LED lamp which is identified as below. It is recommended to complete replacement work to conserve energy & save cost.



Type of lamp	CFL			LED Tube			Saving in Watt	Saving per year in			Investment in Rs	Pay-back period in year	
	Fixture	No	Watt/No	Watt	No	Watt/No		watt	KWH	Average Cost Rs/KWH			Amount Rs
Tube	2	6	125	750	2	20	40	710	1704	13	22152	2400	0.11
Bulb	4	4	23	92	4	20	80	12	28.8	13	374.4	1600	4.27

2). Computer System

Replacement Of CRO Type Monitor of PC With LCD Monitor

Lighting load contribute major percentage share in total. College management has been taking drive to replace existing conventional Fluorescent Tube Light with energy efficient LED tube light & LED lamp. However there is still remained work potential for the replacement of existing conventional Fluorescent Tube Light with energy efficient LED tube light & LED lamp which is identified as below. It is recommended to complete replacement work to conserve energy & save cost.

CRT Monitor PC			LCD monitor PC			Saving in Watt	Saving per year in			Investment in Rs	Pay-back period in year
No	Watt/No	Watt	No	Watt/No	watt		KWH	Average Cost Rs/KWH	Amount Rs		
8	125	1000	8	50	400	600	1440	13	18720	30400	1.62

10) Scope for installation of Solar Water Heater

The college has potential to install solar water heater to provide hot water facility for bath to female students residing in hostel for education. This is also appreciable step to harness solar green energy to save energy & fossil fuel along with cost as well as to mitigate environment damaging effect of CO2 emission.



11) Scope for installation of Solar Street

Light-

There is scope to install solar street light along approach road from college campus to Ahmednagar – Kalyan road. This will save the cost of grid power & will eliminate dependency on MSEDCL grid power. This will also ensure uninterrupted assured service of illumination during night time.

No of solar street light fixtures proposed			working Hours per night	Annual Energy saving	Average cost of MSEDCL power	Annual cost saving	Capital investment in	Pay-back period
No	Watt/fixture	Total Watt	Hours	KWH	Rs/KWH	Rs	Rs	
12	12	144	12	630.72	13	8199.3	100000	12

12) Electrical Loading Study Of Motors-

Loading of motor is measured with power analyzer to assess % loading of motor & to identify overloading & under-loading of motors if any. In this measurement, motor loading found normal. No overloading of motor is detected. Measurement details are given below.

Location of pump	Rating	Power measurement				Voltage			Current			% Loading
	KW	KW	KVAR	KVA	PF	Vr-n	Vy-n	Vb-n	Ir	Iy	Ib	
3- Phase Bore well near hostel	2.2	1.75	1.35	2.21	0.789	204.8	208.3	188.6	3.5	3.9	3.7	68
College 1-Phase submersible mono-block	1.5	1.57		1.74	0.903	158.1			11			73

Note- MSEDCL supply voltage is very poor in campus. Necessary complaint shall be lodged to MSEDCL authority in this respect & get solved the problem to receive appropriate voltage to loads.

13) Observation & Recommendation:-

- 1) The Solar System has capacity to generate power & generating also. But Solar System is kept isolated from grid due to very poor voltage of grid. Hence power




generating capacity is not utilizing. So at present you are losing substantially financial benefit from system & Solar System is not proving cost effective. MSEDCL supply voltage is very poor in campus. Necessary complaint shall be lodged to MSEDCL authority in this respect & get solved the problem to receive appropriate voltage to loads.

- 2) MSEDCL has applied wrong tariff category for college. This LT II Com tariff category is making financial loss to college & recovering cost per KWH at higher rate than actual applicable LT Public service-other. So wrong tariff category of 3-phase connection No-150870053560 & 150870004411 shall be got changed from LT II Com to LT Public service-other to reduce input cost of power & save financial loss unnecessary.
- 3) College management has been taking drive to replace existing conventional Fluorescent Tube Light with energy efficient LED tube light & LED lamp. However there is still remained much work potential for the replacement of existing conventional Fluorescent Tube Light with energy efficient LED tube light & LED lamp
- 4) Submersible pumpset is recommended to overhaul annually to avoid wastage of energy due to poor performance.
- 5) Motor pumpset motor is recommended to provide power capacitor to reduce load current & to reduce voltage drop to improve voltage
- 6) Illumination study is recommended to conduct in rainy & cloudy season to add appropriate artificial lighting where lamps are not installed in classroom so far.
- 7) Awareness cum instruction sign sticker shall be displayed near switchboards to switch off light & fan when not required
- 8) Loading on UPS is very under loaded & almost found no-loaded. Reconfiguration of UPS & capacity optimization for connected loads is necessary to spare connected UPS & batteries to save operating cost. It is advised to arrange UPS system centrally for optimization of capacity based on diversity in application & arrange to extend supply from it to user end. It is also recommended to keep battery on with solar system to avoid to use costly grid power.
- 9) CRT monitor of PCS are recommended to replace with energy efficient LCD monitors to conserve energy
- 10) Solar energy application is recommended for battery charging of UPS
- 11) The college has potential to install solar water heater to provide hot water facility for bath to female students residing in hostel for education to save energy & fossil fuel along with cost as well as to mitigate environment damaging effect of CO2 emission.



14) List Of Instrument used for measurement in Energy Audit

Sr No	Instrument Name
1	3-Phase Electric Power Analyzer
2	Lux Meter
3	Thermometer


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Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar



ENERGY AUDIT CERTIFICATE

ADITI ENGINEERING SERVICES NASHIK

Consultant In – Energy Management, Energy Audit, Electrical Safety Audit, MSEDCL Grievances, 33 & 11 KV Substation
Testing & Earthing Design, HT/LT Industrial Installation, Power Factor & Harmonics Solution.
Firm Address- Flat No-604, Hari Aakruti Apartment, opposite Sagar samrat sweet, Bhabhanagar, Dwarka, Nashik-422011
Proprietor - Er. Deokar B. L. Mo. No- 9960691191 Email - bjdeokar61@gmail.com

CERTIFICATE OF ENERGY AUDIT

This is to certify that

AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SANSTHA, SHRI
DHOKESHWAR COLLEGE,
Takali Dhokeshwar, Tal- Parner, Dist- Ahmednagar, Maharashtra,

has conducted **Electrical Energy Audit** during Feb 2020 for knowing
present profile of electrical energy consumption, Identification of energy
conservation & saving opportunities for implementation to save energy & to
mitigate greenhouse gas emission for environmental protection.



Certified Energy Auditor EA-2700

(Bureau of Energy Efficiency Govt. Of India)

Aditi Engineering Services, Nashik

Date-5 May 2021



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Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar

Page 1 of 1





Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

SHRI DHOKESHWAR COLLEGE

Takali Dhokeshwar, Tal. Parner, Dist. Ahmednagar, (MS)

Affiliated to Savitribai Pule Pune University, Pune

NAAC Re-accredited with Grade "B" (CGPA 2.21-2nd Cycle)

ISO Certification: 9001:2015

Website: <http://shridhokeshwarcollege.org/>

Beyond the campus Environmental Promotion Activities


Objective:

1. To create awareness about environment conservation in the area outside the college.
2. To inspire students to learn to imbibe environmental and national values.

Action Plan:

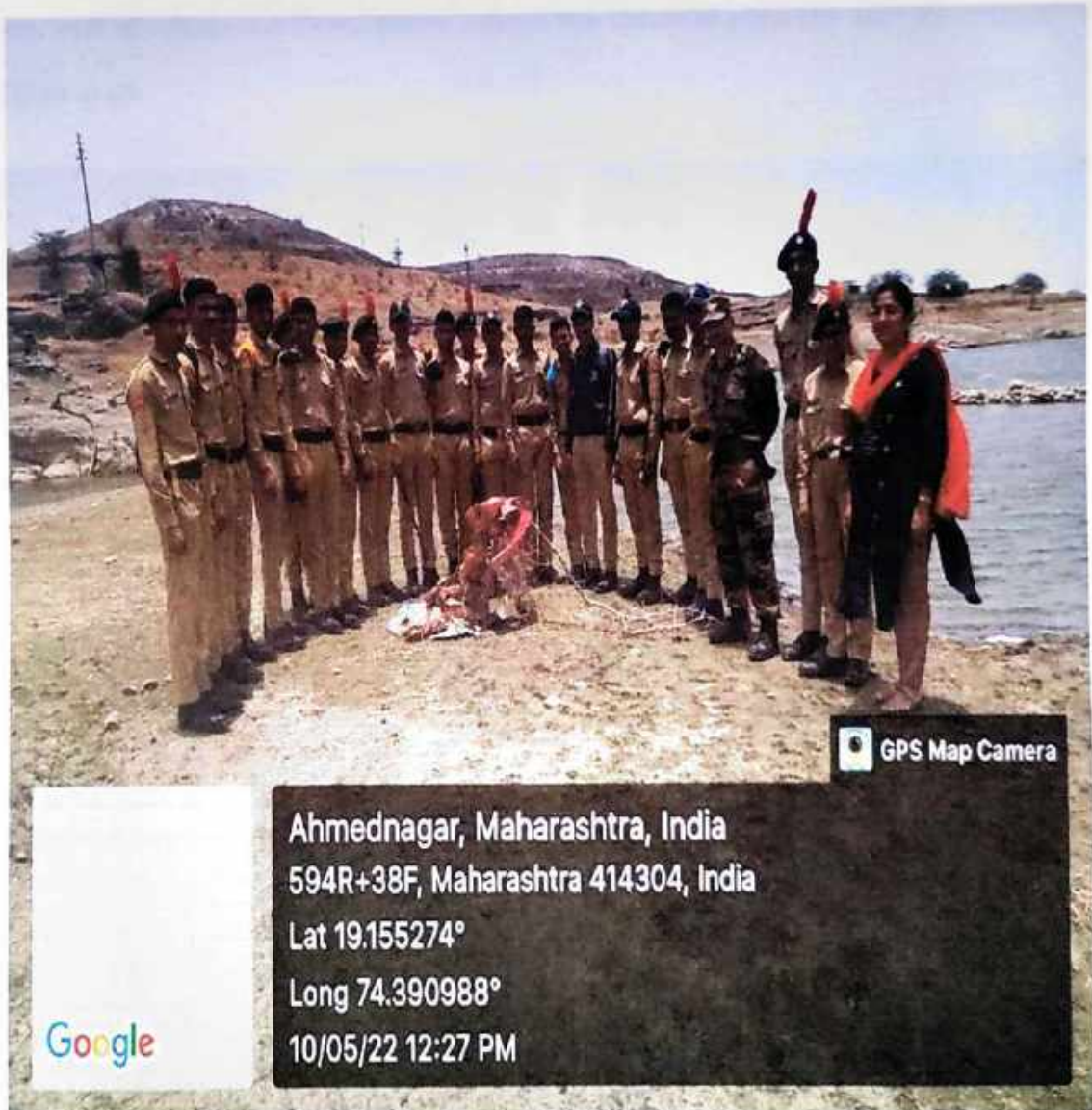
1. According to the circular of Savitribai Phule Pune University and Government of India, environmental awareness is done by students of NSS and NCC.
2. Under the National Service Scheme, under 'Swachhcha v Swasth Bharat Abhiyan', college students have done work and environmental awareness in the villages of Takli Dhokeshwar, Kakanewadi, Tikhol.
3. Forest conservation, plastic elimination, organic farming etc. The college has created public awareness about it.




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Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar

1) Report of 'Kalu' Lake Cleanliness Drive under Punit Sagar mission

Kalu Lake was cleaned on 10/05/2022 under the leadership of Lt. Mrs. Shanta Gadge PI Mr. Ramesh Gosin (17 Maha. Bn) under Punit Sagar Mission. 22 students participated in this drive.



Kalu Lake Cleanliness Drive by NCC Cadet



Shanta Gadge
PRINCIPAL
Shri. Dhokeshwar College
Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar

2) A Report on Conservation of Historical Places

Historical and religious places are conserved and cleaned by the unit of NSS. At the end of the fair, in year 2021 students of NSS went and cleaned out the area of Shri Dhokeshwar Temple. All the waste garbage, raw materials like Plastic bags, papers, cones of ice cream and remaining waste food in terms of various sweets, fruits were collected separately and removed out through the whole area where the fair was occurred. Honorable Principal Dr. Matkar L.S., Programme Officers, staff of college and 74 volunteers cleaned this historical place and gave the message of cleanliness to all.

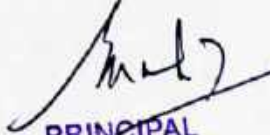


NSS volunteers cleaning the historic Hindu Dhokeshwar Caves place, 24/08/2022



NSS volunteers cleaning the historic Hindu Dhokeshwar Caves place, 24/08/2022




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Takli Dhokeshwar
Tal. Parner, Dist. Ahmednagar

Academic Year 2020-21

1) Report of Kalu Lake Cleanliness Drive

We all celebrate Ganpati Welcoming Ceremony with great joy, but while immersing Ganapati idols a lake, well's water gets polluted, so we are increasing the pollution in the nature. Shri. Dhokeshwar College's National Service Scheme Department's girl students are so cooperative, this year these girls had decided to clean the Kalu Lake. With the help of Mr. Walhekar N.M., (NSS PO) and with the inspiration from Principal Matkar L.S., five girls from National Service Scheme Department, named Nikita Valunj, Nikita Madane, Jayashree Kale, Sonali Aher and Satyabhama Mane removed the Ganpati idols and other used material from Kalu Lake and cleaned the lake tirelessly at peripheral side. A new ideal has been created for the society. Mr. Kothavle and Mr.Lokhande D.M.Cooperated in the programme to make it a successful. Special congratulations were given to this programme from all levels.

NSS PO Mr. Walhekar N.M. with NSS Volunteers at Kalu Dam



**NSS volunteers clean Kalu water dam,
05/09/2020**

दोकेश्वर कॉलेजच्या विद्यार्थीनांकडून तलावाची सफाई

टाकळी दोकेश्वर : गणपती उत्सव अतिशय आनंदान साजरा केला. गणपती विमर्जन सुरू झाले, परंतु बापूंचे आपण यात्रे निराशासने प्रदूषण पर्यावरण हा यात्रे सोईस्कर विमर्श. परंतु दोकेश्वर महाविद्यालय राष्ट्रीय सेवा संघनेच्या मुली यात्रे सल्ला अर्थकारण आदीत

गणपती विमर्शानुषंगे टाकळी दोकेश्वर शाळातर्फे अस्पताळासोयीची न.२. तलावातील पाणी अतिशय प्रदूषित झाले होते, हे सुधोष्य लक्षात आले आणि त्याची सल्ला घेतून यात्रे कालावधीत तलावाची सफाई करण्यात आली. या प्र.एच.एच.चे कार्यक्रम अधिकारी प्रा.तापदेचे बाबूकर बांध्या सहकाराने आणि प्राचार्य डॉ. लक्ष्मण मलकर यांच्या मार्गदर्शनेत एच.एच.बी.एम्.के.तील शिक्षिका



प्र.एच.एच.चे कार्यक्रम अधिकारी प्रा.तापदेचे बाबूकर बांध्या सहकाराने आणि प्राचार्य डॉ. लक्ष्मण मलकर यांच्या मार्गदर्शनेत एच.एच.बी.एम्.के.तील शिक्षिका यात्रे सल्ला अर्थकारण आदीत

NSS volunteers clean Kalu water dam,05/09/2020 News



Matkar
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Tal. Parnai, Dist. Ahmednagar

2) Report on Plastic Nirmulam

The increasing use of plastic in the world and its side effects were carefully considered by the National Service Scheme volunteers of college therefore, a unit of NSS was assigned to eliminate the whole plastic trash. Volunteers had started to remove plastic made things from college and from their own home in terms of plastic elimination. As a first step, all college area was cleaned out of plastic things. All the plastic waste trash was collected and removed successfully from the region of the college. After that, all the volunteers of NSS unit went to the adopted village, Tikhol, and collected about 175 kg of plastic from the village and created awareness among the citizens about the elimination of plastic. More than 69 students participated in this programme which was organized on 26th March 2021.

Students and Staffs with collected plastic at Tikhol Village




NSS volunteers collecting and irradiation plastic in at Tikhol village, 26/03/2022



Another moment NSS volunteers collecting plastic in at Tikhol village, 26/03/2022




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Takali Dhokeshwar
Tal. Parner, Dist. Amnoddnagar

Academic Year 2019-20

1) Report on Road Safety Awareness-

On the 18th February 2020 a rally was held on Road Safety Awareness by Shri Dhokeshwar College. Dr. Korde S.M., Mrs. Tutare R. T. and Mr. Walhekar N.M. along with NSS volunteers, were present for this rally. The beginning of rally was marked by the introducing speech of Principal Dr. Matkar L.S in the college campus. Dr. Ajit Shende was the Chief Guest for the event. The theme of the event was unveiled by Mr.Walhekar N.M. who briefed about theme: **“Along with rally, the college conducts a unique initiative to wish all the drivers with a bouquet of flowers for their onward journey”**. Always carry all relevant documents and while driving avoid alcoholism and avoid all sorts of smoking. More than 250 students had participated participated in rally itself. The rally was ended at the college with vote of thanks of all participants by the Mrs. Tutare R.T.




Rally on Road safety awareness NSS Volunteers



Road Safety Campaign 18/2/2020




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Tal. Parner, Dist. Amnrednagar

2) Plastic Nirmulan awareness street play

NCC cadets of the college staged a plastic nirmulan path play under the guidance of Lt. Shanta Gadge and Mrs. Shailaja Tingare. It was presented near the bus stop and main gate of Takli Dhokeshwar village. 15 students participated in this activity.



Shalya
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Takli Dhokeshwar
Tal. Parner, Dist. Ahmednagar

1) Report on NSS Day Celebrations

NSS foundation day was celebrated on 24th September 2018 by NSS Unit of Shri Dhokeshwar College with great enthusiasm and contentment. This event had been organized in the Rajarshi Shau Hall. The event had started at 10:30 am in the presence of Principal. Dr.Jadhav S.S., college staff Dr..Korade S.M , Mr.Walhekar N.M. and 150 NSS Volunteers. The programme started with the welcoming of guests. Dr. Korade S.M. addressed the audience. He stated the importance of NSS and how it works, organized by the students and teachers through their combined participation in community service. Essay Writing competition and Rally was organized on Swachhata and Gandhi's thought.




NSS Cleanness rally 24/09/2018



NSS program Officer Dr. Korade S.M. addressed to volunteers




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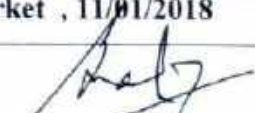
2. Report on Plastic elimination (Nirmulam)-

NSS Volunteers of our college have been appealing the people about not to throw out plastic and glass which are creating major solid waste problems. With respect to that Shri. Dhokeshwar College has started a noble project to collect the segregated waste plastic and glass. In this respect volunteers have claimed that "once the non-biodegradable solid waste is segregated from the biodegradable solid waste, biodegradable solid waste in the land field will never create any problem rather it will act as soil conditioner". In the first phase of activities on 11th January 2018 students had collected all types of carry bags, pouch, packs of vegetable oil and milk pouch, broken plastic buckets and mug, and all types of plastic bottle, container, plastic cups. Volunteers had collected about 100 kg of plastic from the Takali village and created awareness among the citizens about the elimination of plastic. 37 students participated in this programme.



NSS Volunteers Collect Plastics in village Weakly street market , 11/01/2018





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Shri. Dhokeshwar College
Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar

Academic Year 2017-18

1) Report on Road Safety Awareness

On the occasion of NSS day, a rally was organized in Takali Dhokeshwar village. The rally was hosted by Dr. Korade P.M. and Mr. Walhekar N.M. with the help of NSS and all other students of our college. Rally had begun with the introductory welcome speech by Principal Dr. Jadhav S.S. Dr. Khilari Bhausahab was the chief guest of the event, with the message "To Drive safely on streets" To alert people about safety rally was organised. The theme of the event was unveiled by Dr. Korade P.M. PO of our College, who briefed about theme. The rally was ended at the college.




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Tal. Parner, Dist. Ahmednagar

2. Report on Cleanness Drive Rally

NSS unit of Shree Dhokeshwar college started social service in this academic year through Swachhta Rally. At Takli Dhokeshwar village awareness was created by showing the slogan of cleanliness and environment. NSS Program Officer Dr. Korade S.M. , Mr. Walhekar N.M. and 122 NSS volunteers are participant in rally.



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Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar



Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

SHRI DHOKESHWAR COLLEGE

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Green campus initiatives policy

Objective:

- To create clean green and pollution free environment.
- Creating awareness of environmental conservation among students.
- To create awareness among students about global environmental issues and the greenhouse effect.
- To motivate students to adopt nature oriented lifestyle

Action Plan:

- a) To organize programs to create awareness among the students about hygiene.
- b) To implement activities like poster presentations under Swachh Bharat Abhiyan.
- c) Proper waste management.
- d) Making compost from wet waste.
- e) Solid waste management.
- f) Banning the use of plastics on college premises.
- g) To cultivate gardens and greenery.
- h) Organize tree plantation activities.
- i) Imbibing the importance of cleanliness.



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Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar

36




Action Taken Report Green Campus Initiative

Year	Action plan	Action Taken Report
2021-22	<ol style="list-style-type: none"> 1. To complete Rain Water Harvesting Project 2. To establish a botanical garden. 3. Planting trees for the beautification of the college. 4. Raising Funds for Green Campus through Public Participation. 	<ol style="list-style-type: none"> 1. The rainwater harvesting project was completed. 2. Designed a Medicinal and Botanical garden in front of the main building. 3. Laid out the boulders for the beautification of the college campus on the roadside. 4. The college collected 38 thousand of funds from public participation. And 20 cement benches have been purchased out of the funds collected from the public and laid on the college campus at different places..
2020-21	<ol style="list-style-type: none"> 1. Construction of a 1 lakh liter capacity storage water tank. 2. Installation of 5 KW on grid solar power plant for Ladies' hostel. 3. Establishment of Water Lily and Lotus Garden. 4. To develop rainwater harvesting project 	<ol style="list-style-type: none"> 1. A water tank with a capacity of 1 lakh liters was constructed to store the water flowing from the roof of the college terrace in the rainy season. 2. 5 KW off grid solar installed for Ladies' hostel. 3. Establishment of 'Water Lily and Lotus Garden' Behind The building of the Ladies' Hostel. 4. Started work on the rainwater harvesting project.



2019-20	<ol style="list-style-type: none"> 1. Installation of an on-grid 10 KW solar plant on the main building. 2. To solar proposal to the parent institution for the Ladies' hostel. 3. The construction of the canteen. 4. Dig up the borewell recharge trenches. 5. Construction of a staircase in front of the main building. 	<ol style="list-style-type: none"> 1. Off-grid solar plant installed on the main building. An agreement was made with Mahavitrans Power Company. 2. Proposed solar power to parent institution for Ladies' hostel. 3. Construction of the canteen on the college campus is completed. It was inaugurated by Trustee 4. Dug up borewell recharge trenches and coursed water through pipes.. 5. Stair case was constructed in front of the main building.
2018-19	<ol style="list-style-type: none"> 1. Construction of a horizontal wall in front of the main building. 2. Planting of various trees. 3. Making a shade net. 4. Cultivation of different hibiscus varieties. 	<ol style="list-style-type: none"> 1. A horizontal wall was built on the slope in front of the main building of the college. Also, palms, Ornamental plants, Adulsa, and various vines were planted there. 2. Prepared Shed-Net House for a botanical garden. 3. Trees like Neem, Kanchan, Gulmohar, Tamarind, Banyan tree, Pimple, etc. were planted on the slope in front of the building. 4. In Front of the shed net botanical garden planted different types of Hibiscus.
2017-18	<ol style="list-style-type: none"> 1. Planting various species of trees on the college premises by reaching out to the public. 2. Sending proposals for solar energy to the University for Non-conventional Energy Utilization. 	<ol style="list-style-type: none"> 1. Worked with a social service group from Takli Dhokeshwar village. The college took the government forest officers and the villagers to conduct a tree plantation program at the hands of Sarpanch Poptrao Pawar of Adarsh Gaon Yojana and Chairman of Parner Panchayat Samiti Rahul Bhaiyya Z aware. 2. A proposal for 10 KW solar energy was submitted to the university to make the college premises a green campus.

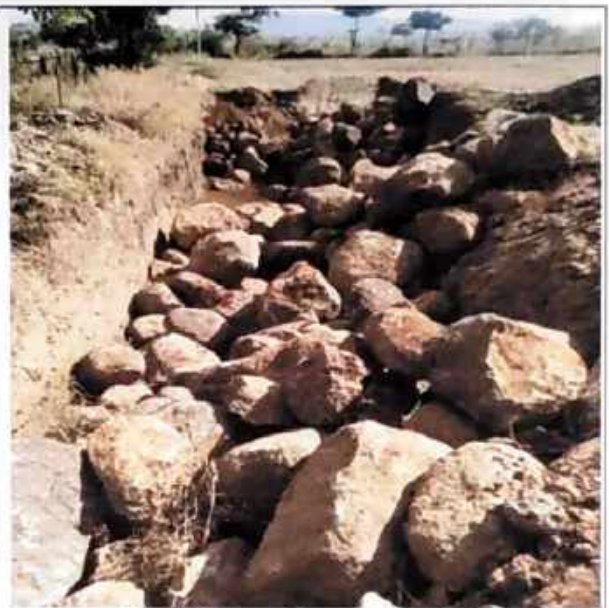



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 Tal. Parner, Dist. Solapur
 Tel. Parner, Dist. Solapur

Photo



Principal giving information to the students while preparing rainwater harvesting pit



Pit filling with stone-brick



Rain storage cover



Water Collection Area



Shahz
PRINCIPAL
Shri. Dhokeshwar College
Takoli, Dhokeshwar
Tal. Parner, Dist. Ahmednagar



Latitude: 19.15521
 Longitude: 74.39089
 Elevation: 440.4211 m
 Accuracy: 4.4 m
 Time: 10-15-2022 14:25
 Note: open ground bench

Donated cement benches



Latitude: 19.15532
 Longitude: 74.39021
 Elevation: 777.2429 m
 Accuracy: 15.6 m
 Time: 11-27-2022 08:49
 Note: CDF/pond/soil

Botanical Garden



Latitude: 19.15823
 Longitude: 74.390758
 Elevation: 440.6313 m
 Accuracy: 10.7 m
 Time: 10-18-2022 16:27
 Note: rock beautification

Rock beautification in campus



Latitude: 19.15825
 Longitude: 74.39064
 Elevation: 738.0342 m
 Accuracy: 5.7 m
 Time: 10-20-2022 11:48
 Note: yachan prema din

Rock beautification in campus



hals
PRINCIPAL
 Shri. Dhoreswar College
 Talasari, Ambednagar
 Tal. Parner, Dist. Ambednagar

ACADEMIC YEAR 2020-21

Photo



594R+ 28F, Maharashtra 414304, India
 Latitude: 19.15564904° Longitude: 74.3903662°
 Local: 12:04:53 PM Altitude: 734.53 meters
 GMT: 04:34:53 AM Wednesday, 23-02-2022

Storage Tank



Outlet tank to bore- well



Solar project-Ladies Hostel 5KW



Lotus and Lilly Garden



Lotus and Lilly Garden



[Signature]
 PRINCIPAL
 Shri. Dhokeshwar College
 Takall Dhokeshwar
 Tal. Parner, Dist. Ahmednagar

Photo



Latitude: 19.15496
Longitude: 74.39073
Elevation: 794.024 m
Accuracy: 10.1 m
Time: 10-06-2022 14:52
Note: solar energy project

Solar System installed - Main Building 10KW



Prof. Dr. Adinath Funde Sir (SPPU, Pune) Visited to Unit For First visit Report



Canteen Inauguration MOMENT



Ahmednagar, Maharashtra, India
594R+38F, Maharashtra 414304, India
Lat 19.155137°
Long 74.390734°
15/12/22 10:39 AM GMT +05:30

Canteen Facility



Latitude: 19.15552
Longitude: 74.390757
Elevation: 440.6114 m
Accuracy: 7.9 m
Time: 10-06-2022 16:24
Note: stairs

Construction of a sloping staircase in front of the main building



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Takli Dhokeshwar
Tal. Parner, Dist. Ahmednagar

ACADEMIC YEAR 2018-19

Photo



Horizontal wall in front of main building



Tree Plantation by Students




Cultivation of different Hibiscus varieties



Shed net (Botany)




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Shri. Dhokeshwar College
Takali Dhokeshwar
Tal. Parner, Dist. Ahmednagar

ACADEMIC YEAR 2017-18

Photo



Plantation With Hon. Popatrao Pawar and AmhiTakalikar Group



Plantation by student



Plantation at the main building and on college Campus with Z. P. Member Hon. Kashinath Date, PanchayatSamitee Sabhapati Hon. Rabul Zaware, Sarapanch Mrs. Sunita Zaware, AmhiTakalikar Group And Forest Department. Date- 01/07/2017



Kalyan
PRINCIPAL 44
Shri. Dhokeshwar College
Takallim, Dhokeshwar
Tal. Parbhani, Dist. Solapur