



S.S.V.V. Sangha's

Tel : 08359-225118

**SHRI G.R.GANDHI ARTS, SHRI Y.A.PATIL  
COMMERCE & SHRI M.F.DOSHI SCIENCE  
DEGREE COLLEGE, INDI- 586 209**

NAAC RE-ACCREDITED AT THE 'B' LEVEL IN 3<sup>rd</sup> CYCLE

College Code-5225

INDI-586209 Dist : VIJAYAPUR(Karnataka)

Web site : [www.grgayapcci.org](http://www.grgayapcci.org)

Email : [pplgrgindi@gmail.com](mailto:pplgrgindi@gmail.com)

Date :



## **CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES**

### **7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution**

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions/awards
5. Beyond the campus environmental promotional activities

# ENVIRONMENT AUDIT REPORT

FOR THE YEAR 2021-22



**Shri G R Gandhi Arts, Shri Y A Patil Commerce &  
Shri M F Doshi Science Degree College, Indi**

Principal Lead Auditor:

Mallikarjun A Kambalyal.

Regd India: CEA, EA-2485, ISO 50001, 14001 Lead Auditor.

Germany Energie Berater: Anbieter-Nr 1041288

Mauritius : REA-57

Audited by:

**SUNBSHUBH TECHNOVATIONS PVT LTD.,**

120-2, LGF, 'A' wing, IT Park,

Hubli - 580029, Karnataka, India.

Germany off: Neuer Weg 166, 47803 Krefeld, Dusseldorf, Germany



**SUNSHUBH RENEWABLES & RESEARCH CENTRE**

**EXECUTIVE SUMMARY.**

Sr No	Observation*	Problems*	Resulting losses*	Remedial measures*	Capital*	Projected savings*	Category 7
1	Rainwater Management	No serious water problem seen but anticipated.	Need quality water for social existence.	Structured approach to retain the rainwater within the campus.	Yes, Capital intensive	Improved quality of water and high yield. Calls for reduced pumping hours and eliminate or reduce need for water conditioners.	7.1.4
2	Surface water	Runoff to drain	Wastage of precious pure water	Divert to specified point near to borewell.	Rs. 50000/-		
3	Water management	Flooding bottle watering			Nil, use of used water bottles	Minimized water use, manpower and spillage.	
4	Solid Waste Management	Spillage of waste	Dirty used packages in and around the college	Awareness to place the waste in right place.	Already in place, however, needs to be refined.	Reduced cleaning hours and hygienic conditions.	7.1.3
5	Personal Health	Used Sanitary pads dispensing unit is not in place.	Open area disposal	Incinerator to be placed at convenient point and proper training is given to the students to make use of it.	Nil	Clean and safe health.	7.1.3
6	Used Battery disposal	Environmental hazard.		Regenerative approach.			7.1.3

There are about 19,00,00,000 students in INDIA. If every student saves one sheet per day, 19,00,00,000 sheets of paper meaning 988 tons of paper will be saved every day. This is equivalent to saving 2748.54 tons of wood a day. This will lead to saving about 33,00,678 trees per year.

SO, LET US ALL USE BOTH SIDES OF THE SHEET even better adopt E-CORRESPONDENCE.

## SUNSHUBH RENEWABLES & RESEARCH CENTRE

Sr No	Observation*	Problems*	Resulting losses*	Remedial measures*	Capital*	Projected savings*	Category 7
7	Work culture	Paperless office, as discussed in detail.					
8	Commutation and safe distancing	Parking	High energy consumers	LED lights of appropriate ratings.	Rs.80/- to Rs.250/- per unit	Rs.175/- per tube per annum. ROI of 1 years.	7.1.6
9	Natural Lighting	Un cleaned windows and ventilators, forced switching on of tube lights	High energy bills	Clean the windowpanes and allow maximum natural light penetration.	Nil, part of routine, In house manpower.	Substantial cost of energy bills on lighting.	7.1.2 7.1.6
10	Natural Ventilation	Permanently closed ventilators.	Creation of hot air pockets below the ceiling.	Open the Ventilators for easy exit of hot/warm air from the rooms.	Nil, In house manpower.	Eliminates use of Electrical Fans and Substantial cost of energy bills	7.1.2 7.1.6
* For details please follow the discussions in the report.							

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## ACKNOWLEDGEMENT:

SUNSHUBH TECHNOVATIONS PVT LTD is pleased to express its sincere gratitude to the management of Shri G R Gandhi Arts, Shri Y A Patil Commerce & Shri M F Doshi Science Degree College, Indi for entrusting SUNSHUBH TECHNOVATIONS PVT LTD with the assignment on Green Earth practices based on Educate, Practice, Advocate & Manage the resources in their educational organization.

We acknowledge the assignment with order reference number **GRGA/YAPCC/GreenAudit/2021-22**

We also wish to thank Prof S B Jadhav, Principal, and Dr P K Rathod, NAAC Audit Co-Ordinator, who have been constantly following with the Carbon Handprint initiatives and developments in the college. It was on their instance that we got to evaluate the initiatives undertaken. The officials and the maintenance staff for the help rendered during the energy flow study.

We would fail if we neglect to appreciate the sincere efforts put in by the Faculty Members,

Dr A C Nadamani, Political Science

Dr V A Korwar, History

Dr P K Rathod, Economics, NAAC Audit Co-Ordinator

Dr Surendra K, Social Science

S G Sannakki, Kannada

Dr C S Biradar, English

Dr Jayaprasad, Commerce, IQAC Co-ordinator

Shri S U Rathod, Hindi

M R Konade, Commerce

R P Inganal, Library

The Students who against all odds have kept the college premises clean to the possible limits.

Without the crucial and significant support from the fellow teaching team the potential energy saving options and carbon footprint reduction would not be a reality.

With the motivational support of the management, ground realistic support from teaching team and sincere efforts of the students in incorporating the change (habits) and instructions, the college could effectively declare the reduction in Carbon footprint and optimize the waste reductions.

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SUNSHUBH RENEWABLES & RESEARCH CENTRE

**ENVIRONMENT AUDIT COMPLETION CERTIFICATE**

I, Mallikarjun A Kambalyal, endorse and confirm that the Energy Audit has been carried out on 21<sup>st</sup> Feb 2022 under the instructions of Prof S B Jadhav, Principal, and Dr P K Rathod, NAAC Co-Ordinator, Asst Prof. Srishail convener Criteria 7.0 and Dr Jayaprasad, IQAC Co-ordinator, Shri G R Gandhi Arts, Shri Y A Patil Commerce & Shri M F Doshi Science Degree College, Indi. KARNATAKA

This report is generated based on the site visits and evidence collected from the site and this completion certificate is issued in compliance with *Criteria 7.1.6.*

All attempts have been made to evaluate the scope for development and inculcate green practices in the campus and extended throughout the campus. The focus is also laid to make positive impact on the society for a better living.

This report is tabled in two parts. The first forms the core discussions which are subject specific under the statutory requirements of the NAAC accreditation norms. The second section is general in nature.

Any modifications, changes, omissions after the site visit shall be exclusive.

Authorised Auditor.



Mallikarjun A. Kambalyal B.E (E&C)  
Certified Energy Auditors EA-3485.

ISO 50001:2011 & ISO14001:2015 Lead Auditor.

Date: 26<sup>TH</sup> Feb 2022

*Credentials attached 7.1.6*



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# SUNSHUBH RENEWABLES & RESEARCH CENTRE



## BUREAU OF ENERGY EFFICIENCY



Examination Registration No. : **EA-3485** Serial Number **2838**

Certificate Registration No. : **2838**

### Certificate For Certified Energy Manager

This is to certify that Mr./Mrs./Ms. **Mallikarjun A Kambalyal** Son/Daughter of Mr./Mrs. **Andanappa V Kambalyal** who has passed the National Examination for certification of energy manager held in the month of **April 2006** is qualified as certified energy manager subject to the provisions of Bureau of Energy Efficiency (Certification Procedures for Energy Managers) Regulations, 2010.

This certificate shall be valid for five years with effect from the date of award of this certificate and shall be renewable subject to attending the prescribed refresher training course once in every five years.

His /Her name has been entered in the Register of certified energy manager at Serial Number **2838** being maintained by the Bureau of Energy Efficiency under the aforesaid regulations.

Mr./Mrs./Ms. **Mallikarjun A Kambalyal** is deemed to have qualified for appointment or designation as energy manager under clause (i) of Section 14 of the Energy Conservation Act, 2001 (Act No.52 of 2001).

Given under the seal of the Bureau of Energy Efficiency, this **7<sup>th</sup>** day of **February, 2013**

Secretary  
Bureau of Energy Efficiency  
New Delhi

Dates of attending the refresher course	Secretary's Signature	Dates of attending the refresher course	Secretary's Signature
<b>28.01.2020</b>			

Bureau of energy Efficiency Regd No: EA3485

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## SUNSHUBH RENEWABLES & RESEARCH CENTRE

### About the College

of Shri G R Gandhi Arts, Shri Y A Patil Commerce & Shri M F Doshi Science Degree College, Indi, KARNATAKA is located in a small town educating the rural children of nearby villages.

The college has Arts and Commerce stream.

The upkeep of the campus speaks for their concern to the environment. With few corrective measures the college can consider to move towards being CARBON NEUTRAL..

### ABOUT ENVIRONMENT AUDIT:

Shri G R Gandhi Arts, Shri Y A Patil Commerce & Shri M F Doshi Science Degree College, Indi, Karnataka has asked SUNSHUBH TECHNOVATIONS PVT LTD, Hubli, to conduct the Environment Audit for their Institution.

In this context, the management of the Institute represented by Prof S B Jadhav, Principal, entrusted us the task of conducting the feasibility study to reduce energy consumption and adopt green habits.

SUNSHUBH TECHNOVATIONS PVT LTD, Hubli, represented by Mr. Mallikarjun A Kambalyal made a detailed study and readings of various appliances were taken and carried out the Environment audit along with the safety parameters.

We hope the points presented will be self-explanatory, if there is need for any clarification, we are open for discussions.

### LIMITATIONS:

Our recommendations are in the interest of conservation of Electrical Energy and Green Culture i.e., the reduction in CARBON FOOTPRINT. The compliance to the recommendations will be subjected to meeting the safety and Environmental rules and guidelines.

There are about 19,00,00,000 students in INDIA. If every student saves one sheet per day, 19,00,00,000 sheets of paper meaning 988 tons of paper will be saved every day. This is equivalent to saving 2748.54 tons of wood a day. This will lead to saving about 33,00,678 trees per year.

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SUNSHUBH RENEWABLES & RESEARCH CENTRE

**AUTHENTICATION & DATE OF ENVIRONMENT AUDIT:**

This Environment Audit has been carried out on 21<sup>st</sup> Feb 2021 under the instructions of Prof S B Jadhav, Principal, and Dr P K Rathod, NAAC Audit Co-Ordinator.

We are not in a position to compute the carbon footprint at this point of time. however, a beginning is made in drawing the objective of Carbon Footprint. **we will discuss the Carbon Footprint in the follow up compliance report.**

Wishing the team, a great success, we deeply express our gratitude and heartfelt "THANKYOU" for allowing us to assess the energy flow scenario there by the GREEN STATUS.

Mallikarjun A. Kambalyal. B.E.(E&C).

Certified Energy Auditors (EA-3485)

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## SUNSHUBH RENEWABLES & RESEARCH CENTRE

### ONGOING STATUS:

It's an optimistic & highly dedicated team effort lead by the Principal & the senior staff who have dedicated all their wits & free time to initiate Green Carpet the entire college premises. It is also a fact that there do exist, few short comings which however is unintentional & on being trained & educated the campus should look for continued minimized waste generation. With all due appreciation to the management, staff involved & cooperation by the students, we have made few suggestions which on implementation, will reduce, demand for water & electrical power. It will also reduce the existing level of pollution to bear minimum.

There is high potential among the students to be educated and spread the knowledge of going ZERO waste generation in their respective colonies and society they dwell in, contributing positively to the cause of

**NO WASTE – NO POLLUTION – NO HEALTH HAZARD.**

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**DISCUSSIONS ON EXECUTIVE SUMMARY:**



Aerial View of the College Campus.

The campus is spread over scenic, elevated terrain. The Rocky structure makes things great for beatification with local flora and fauna. The campus has good opportunity to nurture the knowledge among the students from Biology, Physics and Geology.

We have discussed one such opportunity for the students and team of faculty from Physics department.

Primary Considerations: Conservation practices that can be brought about in the campus contributing to use of natural resources.

Water is the primary source of energy and motivation factor for all good things that can happen in the world.

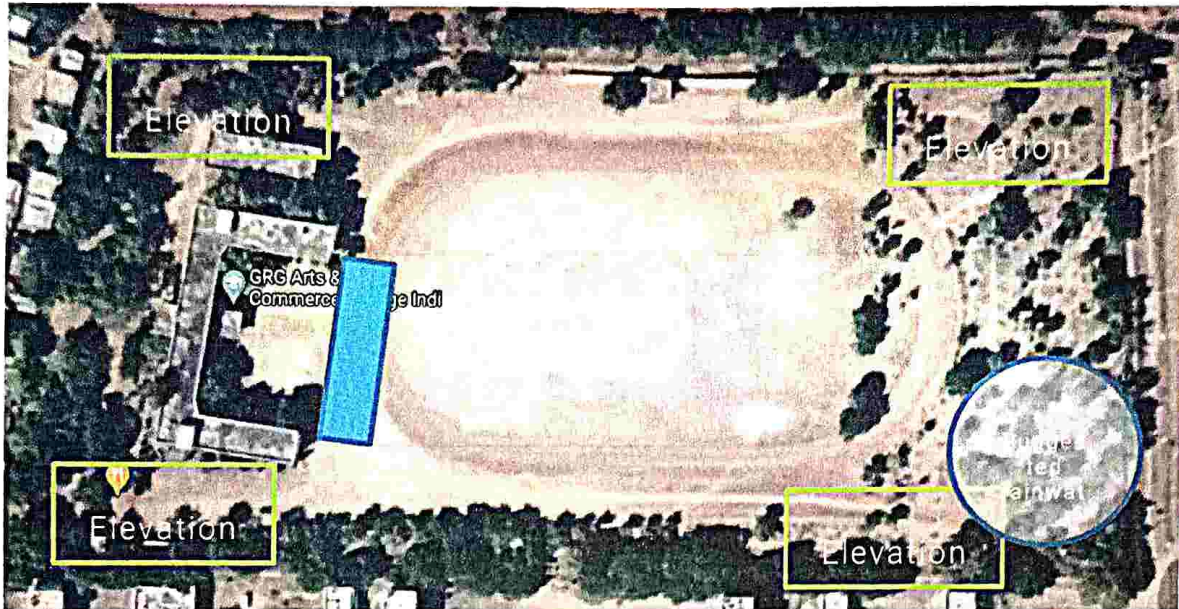
The gradient indicates that the complete campus rainwater can be pooled at a Point near the gotanical gargen and the same can be put to use at a later days.

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RAIN WATERMANAGEMENT:

Category 7.1.4

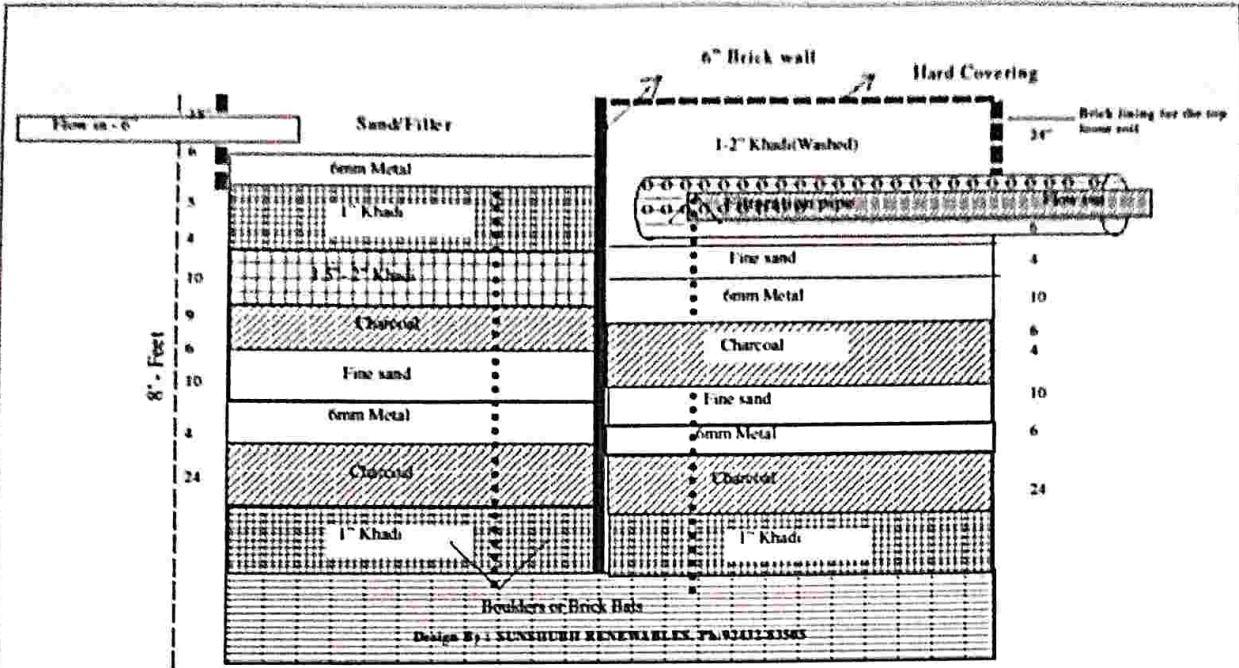


From the gradient discussed above, the profile varies from 1569ft to 1554ft. For cost effective rainwater management, it is advised to divert the surface rainwater to the area suggested.

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Not to scale.

Layout structure for 8" depth, hard strata.

The Borewell point that is located in front of the college may be directly connected to the Borewell through the filter provided the terrace is locked and has restricted entry.

If not the above filtration system should be adopted before linking to the borewell.

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# ENERGY AUDIT REPORT

FOR THE YEAR 2021-22



**Shri G R Gandhi Arts, Shri Y A Patil Commerce &  
Shri M F Doshi Science Degree College, Indi**

**Principal Lead Auditor:**

**Mallikarjun A Kambalyal.**

**Regd India: CEA, EA-3485, ISO 50001, 14001 Lead Auditor.**

**Germany Energie Berator: Anbieter-Nr 1041388**

**Mauritius : REA-57**

**Audited by:**

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**120-2, LGF, 'A' wing, IT Park,**

**Hubli - 580029. Karnataka. India.**

**Germany off: Neuer Weg 166, 47803 Krefeld, Dusseldorf. Germany**



  
Principal

**Shri G.R. Gandhi Arts, Shri Y.A. Patil Commerce &  
& Shri M.F. Doshi Science Degree College,  
INDI-586209, Dist: Vijayapur**



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*Credentials attached 7.1.6*

Shri G.R. Gandhi Arts, Shri Y.A. Patil Commerce  
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## EXECUTIVE SUMMARY.

Sr No	Observation*	Problems*	Resulting losses*	Remedial measures*	Capital*	Projected savings*	Category 7
1	Solar Power	Staggered standal one street light.	Working efficiency @ 30%	Centralised solar system	To be worked based on energy demand.	Net zero energy dependent	7.1.
2	Battery placement	Battery shell in conductor loop	Low performance & self-discharge.	Design the stacking arrangements.	In house resources	25% of the cost of the batteries.	7.1.2 7.1.6
3	Battery regeneration.	Short life span.	300% of the cost of the battery.	Subject all batteries to regeneration made.	Rs.20.00 Lacs or as per user agreement	300 %	7.1.2 7.1.6
4	Electrical	Old tube lights	High energy consumers	LED lights of appropriate ratings.	Rs.80/- to Rs.250/- per unit	Rs.175/- per tube per annum. ROI of 1 years.	7.1.6

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6	Natural Ventilation	Permanently closed ventilators.	Creation of hot air pockets below the ceiling.	Open the Ventilators for easy exit of hot/warm air from the rooms.	Nil, In house manpower.	Eliminates use of Electrical Fans and Substantial cost of energy bills	7.1.2 7.1.6
7	Fuel leakage and safety	Poor pipe quality	Fuel loss and possible life loss	Replace with standard specified pipes.	Rs.200 per pipe	Life safety	
* For details please follow the discussions in the report.							

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We hope the points presented will be self-explanatory, if there is need for any clarification, we are open for discussions.

## LIMITATIONS:

Our recommendations are in the interest of conservation of Electrical Energy and Green Culture i.e., the reduction in CARBON FOOTPRINT. The compliance to the recommendations will be subjected to meeting the safety and Environmental rules and guidelines.

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We are not in a position to compute the carbon footprint at this point of time. however, a beginning is made in drawing the objective of Carbon Footprint. **we will discuss the Carbon Footprint in the follow up compliance report.**

Wishing the team, a great success, we deeply express our gratitude and heartfelt "THANKYOU" for allowing us to assess the energy flow scenario there by the GREEN STATUS.

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SUNSHUBH TECHNOVATIONS PVT LTD.

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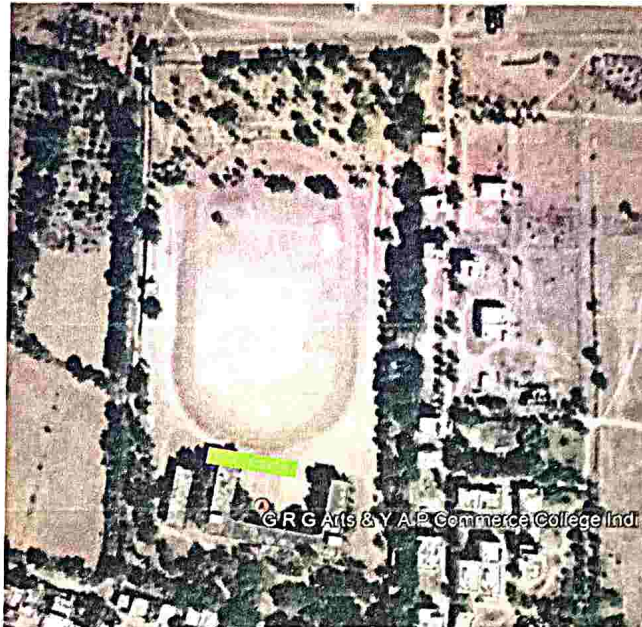
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**DISCUSSIONS ON EXECUTIVE SUMMARY:**

Energy Audit.



Aerial View of the College Campus

The campus is spread over scenic, elevated terrain. The Rocky structure makes things great for beatification with local flora and fauna. The campus has good opportunity to nurture the knowledge among the students from Biology, Physics and Geology.

<u>Green Power</u>	<u>Category 7.1.2</u>
<p>The Institute is located in rural area. Being in arid zone, the potential to meet energy demand by solar is very optimistic.</p> <p>We suggest that the college administration should set an example of being energy independent.</p> <p>The setting up of solar power systems in discrete methodology should help address the financial limitations as well.</p>	 <p style="text-align: center;">Principal</p>


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<p>It is advised to seek expert help to design the installation and gain more control over energy generation.</p> <p>This will help the organization meet all the energy needs in phase manner. And eventually export the excess power.</p> <p>More importantly, the college can happily and proudly declare that the college is on <b>net zero energy use</b> Institute.</p>	<p>Typical example of placing the rooftop solar</p>
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<p><b>Placing of Batteries</b></p> <p><b>BATTERY PLACEMENT:</b></p> <p>The batteries should be placed on an insulated platform not touching any of the metal frames.</p> <p>Need cross ventilation for favourable breathing.</p> <p>Provision for periodical checking and maintenance should be made possible without major obstacles.</p> <p>In absence of the above placement conditions, The batteries will discharge faster.</p> <p>The charging time and current will increase as there is the return path for self-discharge.</p> <p>A well-maintained battery is known to serve for more than 7 years.</p> <p>The presence of oxidation marks at the point of contact should not develop over the time.</p>	<p><b>Category 7.1.1, 7.1.2, 7.1.3 and 7.1.5</b></p>  <p>Batteries stacked without ventilation.</p> <p style="text-align: right;"><b>Principal</b> Shri G.R. Gandhi Arts, Shri Y.A. Patil Commerce &amp; Shri M.F. Doshi Science Degree Collage, INDI-586209, Dist: Vijayapur</p>
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Lighting improvements should be carried out by using T5/LED or The Induction Light systems in lieu of normal tube lights. If the finance department permits, it is advised to install 40W Induction lamps in all classrooms

Source : Can be locally procured, However the load-based selection is key aspect in its installation. To set the visibility, the intensity of natural light is much stronger and hence LUX based setting doesn't work. Hence the technical supervision is key aspect.



It is important to discuss some more on the below clipping. This was picked up from the College website.

### Light Intensity Sensor requirement.


It may be seen that the Light is illuminated. However, it has not made any significant presence on the visibility. The shadow indicates natural light coming from the windows is brighter. Natural light is more predominant than the tube light. Hence tube light being switched off has no adverse effect. However, it would save on the energy consumption and contribute to green practices.


Principal  
Shri G.R. Gandhi Arts, Shri Y.A. Patil Commerce  
& Shri M.F. Doshi Science Degree College,  
INDI-586209, Dist: Vijayanpur

#### THOUGHT FOR EVERY MOMENT

There are about 19,00,00,000 students in INDIA. If every student saves one sheet per day, 19,00,00,000 sheets of paper meaning 988 tons of paper will be saved every day. This is equivalent to saving 2748.54 tons of wood a day. This will lead to saving about 33,00,678 trees per year.

SO, LET US ALL USE BOTH SIDES OF THE SHEET even better adopt E-CORRESPONDENCE.

<p><b>NATURAL LIGHTING:</b></p>	<p>Category 7.1.1, 7.1.2, 7.1.3 and 7.1.5</p>
<p>It is found that the projector is screening against the bright light.</p> <p>This will result into setting high brightness and also strain the eyes of the pupil.</p> <p>Solution: Keep the windows closed.</p> <p>Sitting arrangements:</p> <p>The seating arrangements are placed across the projector, this will strain the students and may not serve the objective.</p> <p>Solution:</p> <p>Relocate the projector and the screen.</p>	 <p>For illustration only.</p>

<p><b>Windows:</b></p>	
<p>Key observations and requirements on designing the windows.</p> <p>Windows are necessary for natural lighting and for cross flow of air.</p> <p>The wooden plants may be considered to be replaced with glass for natural light effect.</p> <p>This should help avoid use of lights.</p> <p><u>Well-designed windows result into reduction of energy demand by 70%.</u></p>	 <p><u>For illustration and future requirements.</u></p>

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The beautiful structures planned by the administrators and built by the management clearly indicate that they are concerned about the environment and are committed to deliver good sense of civic discipline and knowingly or unknowingly are exhaling the process of heading towards **ZERO CARBON FOOTPRINT**.

When the infrastructure is in place, the staff are inclined to perform there is nothing that can stop from achieving the required. What is required is the orientation and awareness sessions on the right use.

The designated staff be trained in understanding the needs and allowed to test their innovative skills to move towards Green practices will accelerate the process of green revolution.

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## ACTION PLAN SUMMARY:

Earmark the action plan.

Invite subject experts for Tec talks,

Organize in person panel discussions and interaction to propagate the knowledge and mitigate the problems in practicing the same.

Prioritize the initiatives and execute.

Observe the benefits and shortcomings.

Workout further improvement by involving the staff and students.

## MODE OF ACTION:

The process of ENERGY AUDIT & ENERGY CONSERVATION should be carried out in three steps.

Good housekeeping practices using available manpower.

Minor alterations using in house work culture with minimum investments on accessories as discussed.

Capital investments, which may be required for installation of new methodologies may be taken up on phased manner.

We will be happy to assist you for any further advice/consultancy if required either on Rainwater management or on any of the measures discussed in the report.

We hope the measures are implemented in good spirit and to human convenience and comfort.

For SUNSHUBH TECHNOVATIONS PVT LTD.

Mallikarjun A. Kambalyal. B.E. (E&C)

Certified Energy Auditors EA-3485

Note Sheet:

Principal

Shri G.R. Gandhi Arts, Shri Y.A. Patil Commerce  
& Shri M.F. Doshi Science Degree Collage,  
INDI-586209, Dist: Vijayapur

### THOUGHT FOR EVERY MOMENT

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# GREEN AUDIT REPORT

FOR THE YEAR 2021-22

SHRI G.R. GANDHI ARTS & SHRI Y. A. PATIL COMMERCE COLLEGE INDI

**Shri G R Gandhi Arts, Shri Y A Patil Commerce &  
Shri M F Doshi Science Degree College, Indi**

Principal Lead Auditor:

Mallikarjun A Kambalyal.

Regd India: CEA, EA-3485, ISO 50001, 14001 Lead Auditor.

Germany Energie Berater: Anbieter-Nr 1041388

Mauritius : REA-57

Audited by:

**SUNSHUBH TECHNOVATIONS PVT LTD.,**

120-2, LGF, 'A' wing, IT Park,

Hubli - 580029, Karnataka, India.

Germany off: Neuer Weg 166, 47803 Krefeld, Dusseldorf, Germany



Search



**EXECUTIVE SUMMURY.**

Sr No	Observation*	Problems*	Resultin	Remedial measures*	Capital*	Projected savings*
	Differently abled children.	Committee to monitor and arrange the basic needs like commutation, sitting arrangements, washroom for these special children.				
	Girl children	To provide safe and dignified study time by providing health safety provisions in the campus.				
	Green Commute	To promote green commute within the campus and also outside the campus.				
	Green energy concept	College has kickstarted an initiative of lab testing the Solar thermal energy (Fresnel concentrating solar)				
1	Rain Water Management	No serious water problem seen	Future shortage of water	Perforated Pavers and water management system.	Yes, Capital intensive	Improved quality of water and high yield. Calls for reduced pumping hours.

1	2	3	4
Natural Ventilation	Natural Lighting	Health Hazard	Solid Waste Management
Permanently closed ventilators.	Uncleaned windows and ventilators, Forced switching on of tube lights	Sanitary pads disposal provision.	Spilling of waste
Creation of hot air pockets below the ceiling.	High energy bills	Open area disposal	Dirty used packages in and around the college
Open the Ventilators for easy exit of hot/warm air from the rooms.	Clean the window panes and allow maximum natural light penetration.	Incinerator placed at convenient point.	Incorporate need for cleanliness and place waste collection bins.
Nil, In house manpower.	Nil, In house manpower.	Rs. 10000/- to 15000/-	Rs.4500/- per set
Eliminates use of Electrical Fans and Substantial cost of energy bills	Substantial cost of energy bills on lighting.	Clean and safe health.	Reduced cleaning hours and good hygienic conditions.

## **AUTHENTICATION & DATE OF GREEN AUDIT:**

This Green Audit has been carried out on 21<sup>st</sup> Feb 2022 under the instructions of Prof S. B. Jadhav, Principal, and Dr P. K. Rathod, NAAC Audit Co-Ordinator.

We are not in a position to compute the carbon footprint at this point of time. however, a beginning is made in drawing the objective of Carbon Footprint. **we will discuss the Carbon Footprint in the follow up compliance report.**

Wishing the team, a great success, we deeply express our gratitude and heartfelt "THANKYOU" for allowing us to assess the energy flow scenario there by the GREEN STATUS.

Mallikarjun A. Kambalyal. B.E.(E&C).  
Certified Energy Auditors (EA-3485)

## **ONGOING STATUS:**

It's an optimistic & highly dedicated team effort lead by the Principal & the senior staff who have dedicated all their wits & free time to initiate Green Carpet the entire college premises. It is also a fact that there do exist, few short comings which however is unintentional & on being trained & educated the campus should look for continued minimized waste generation. With all due appreciation to the management, staff involved & cooperation by the students, we have made few suggestions which on implementation, will reduce, demand for water & electrical power. It will also reduce the existing level of pollution to bear minimum.

There is high potential among the students to be educated and spread the knowledge of going ZERO waste generation in their respective colonies and society they dwell in, contributing positively to the cause of

**NO WASTE - NO POLLUTION - NO HEALTH HAZARD.**

---

## DISCUSSIONS ON EXECUTIVE SUMMARY.

### GREEN AUDIT - Observations/Recommendations.

The institute has many short comings in meeting the requirements of the Physically challenged people. The college to setup a committee on immediate basis and come up with the action plan.

The check list is enclosed for compliance in line with the NAAC requirements under the 7<sup>th</sup> Criteria.

### Disabilities for Differently Abled.

*This section needs to be self-evaluated by constituting an internal team.*

*The corrective measures would take time but a move towards the implementation would be appreciated.*

*NAAC co-ordinating team may please look into the aspects and act.*

Need to form an inhouse committee on making the campus disabled friendly. A clear task is necessary and the required check list is presented for compliance.

Before we conduct check on compliance,

#### **A Brief note on Green Audit.**

Please refer to <http://www.disabilityindia.co.in/> for more information.

The green audit primarily lays focus on Energy use, its impact on environment and remedial measures.

It is equally focused on ways of making life of differently abled persons easy and readily adoptable to changing working environment.

Every citizen has to feel self-sufficient on economic front and self-reliant on meeting his daily chores.



## Sharing achievements.

The college English department and Computer department have projected photos of prominent achievers and performers.



While few of the people have been named some are not. More than just naming these achievers, it would be a great motivation if the concerned department highlights few details and why they are achievers. If space permits, their childhood days and early years are highlighted.



## WATER MANAGEMENT:

Category 7.1.4

Watering the plants in excess or not watering them hampers the healthy growth, it also results into wastage of water & increase manpower.

### SOLUTION:

Water management is advised as shown in the illustration here, using the waste plastic pet bottles. This will help in surface evaporation loss. For larger plants it is advised to incorporate mulching & using organic waste & cover with newspaper/wastepaper. The significance of newspaper to cover the mulched area draws the attention of the students & the visitors. Thus, creating a platform for education & knowledge sharing.

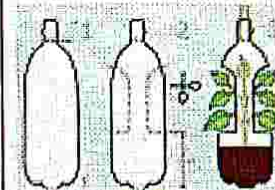
### BENEFITS:

Minimised disposal of plastic,

Reduced Waste segregation efforts.

Multiple use awareness using plastic bottles.

Plastic bottles can be used for road marking & demarcation.





## SOLID WASTE MANAGEMENT

Category 7.1.3

It is highly appreciated & worth noticing the level of awareness of spillage. It was noticed that the college management is focusing to maintain cleanliness & spitting Gutka is banned. To keep the good going, it is important that we facilitate the provision for waste disposal. Hence, it is advised to place waste segregation bins. There is an urgent need for placing waste bins at regular distances. Ideally for every room there should be two bins placed in front of the class room.

One in Yellow/Red and the other in Green in color.

It is necessary to educate the inmates to use to place degradable waste like food, paper and other vegetable waste in GREEN colored bin.

The plastic and other metal waste, should be placed in red/yellow colored bin.

This method imparts the sense of segregating waste at source and makes the task of handling waste simple.

It also makes room for revenue generation as the plastic and metal waste can be sold at a later date.

### **SOLUTION:**

A very innovative concept of waste collec-

Illustrative

me



Local Biodegradable



## WORK CULTURE:

Placement of footwear: Our work culture is depicted in the way we behave and exhibit.

Value for all commodities is important to conserve the mother earth. Hence the placement of material of use/substance/importance should find appropriate placing. The passage should be clear from all obstacles weather small or large. Here the placement of footwear is only an example. One needs to practice and exhibit in all sectors, be it waste or unused materials or the vehicles parked in wrong place.

