

ಹೈದರಾಬಾದ್ ಕರ್ನಾಟಕ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆ
ಶ್ರೀಮತಿ ಚಿನ್ನಮ್ಮ ಬಸಪ್ಪ ಪಾಟೀಲ
ಕಲಾ ಮತ್ತು ವಾಣಿಜ್ಯ ಪದವಿ ಮಹಾವಿದ್ಯಾಲಯ
ಚಿಂಚೋಲಿ-585307-ಜಿ. ಕಲಬುರಗಿ-ಕರ್ನಾಟಕ-ಭಾರತ
☎:CC 08475-273045-Website: www.hkesociety.org
Email: - principalcbpdcc@hkes.edu.in



Estd : 1983

Hyderabad Karnataka Education Society's
**SMT. CHINNAMMA BASAPPA PATIL
ARTS & COMMERCE DEGREE COLLEGE**
Chincholi-585307 - Dist. Kalaburagi-Karnataka State-India
☎:CC 08475-273045-Website: www.hkesociety.org
Email: - principalcbpdcc@hkes.edu.in

ಕ್ರಮಾಂಕ / Ref. No. HKES/ACCC/

Date :⁵ _____

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

HEI Input :

A. All of the above

DVV suggested Input :

C. Any 2 of the above

Change Input (Optional):

- E. None of the above
- D. Any 1 of the above
- C. Any 2 of the above
- B. Any 3 of the above
- A. All of the above**

1.Green audit / Environment audit

2 .Energy audit

Audit certificates are not in assessment period it will not be considered. Hence input is edited. Kindly provide the following documents: 1.Policy document on environment and energy usage.

GREEN AUDIT REPORT FOR THE YEAR 2021-22

HKE SOCIETY'S

SMT CHINNAMMA BASAPPA PATIL

ARTS & COMMERCE DEGREE COLLEGE

Chincholi- 585307, Dist : Kalaburagi (Karnataka)

(GPS: 17° 26' 36" N 25°36"E)

GREEN AUDIT REPORT 2021-22



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Email: green.foundation2020@gmail.com

Tele-Fax: +91 08472 255806

Cell: +91 9448035808

PRINCIPAL

HKES's Smt. C.B. Patil
Degree College
Chincholi Dist. Kalaburagi



KATHARE RAJENDRA

BS. JALSHON E. PIV. LLP

Central Govt. Regd. Valuer

Chartered Engineer

G-37, Century Complex,

S. B. Temple Road,

KALABURAGI-585101

KARNATAKA - INDIA

HKE Society's

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KATHARE RAJENDRA
BE, MACH E, PPA, LLB
Central Govt. Regd. Valuer
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Century Complex,
Opp. Sangam Cinema,
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THE INCREDIBLE HEALTH
BENEFITS OF BATHING
YOURSELF IN NATURE
[SHINRIN-YOKU]





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Preface

Life expectancy of those few who survive will be much shorter than what we have now. This is something we all agree to avoid. The students who are in schools and colleges now are to be the enlightened leaders of immediate tomorrow. Our national educational authorities, as in most developed countries, therefore insist that every student in our country should learn how damages to the environment occur and how to avoid such situations, emphasizing more on possible remedial measures. This green education should start from schools and colleges, and the insistence on Green Audit of higher education institutions on an annual basis is to make students and staff well informed of the extent of 'ecological footprints' each one creates, as well as on which areas one should concentrate to make his or her environs greener than before. The 2021-22 Green Audit report of **HKE'S Smt.Chinnamma Basappa Patil Arts & Commerce Degree College Chincholi-585 307**, Karnataka, is prepared in such a manner that it can educate every concerned member of this institution, on the major contributors tending to destroy and on every step helpful to restoration leading to further flourishing of its green status. A brief presentation of the contents of this report by the teachers to the other stakeholders would help in getting every one of them to start taking further steps to achieve a 'brighter shade of green' for their campus directly and hence the region indirectly.





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Chincholi Dist. Kalaburagi

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HKE SOCIETY'S
SMT. CHINNAMMA BASAPPA PATIL
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CHINCHOLI- 585 307

Vision

"To realize the need in imparting higher education in this backward region, encouraging the poor, supporting depressed and up righting the neglected students of rural background with harmonious blending of actions, emotions and intellect."

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"The mission of the institution is to create social awareness to places the students in the mainstream of the society ennobling discipline, self respect, self reliance and motivating leadership qualities in students."




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SMT. CHINNAMMA BASAPPA PATIL ARTS & COMMERCE DEGREE COLLEGE,
CHINCHOLI-585 307 (KARNATAKA)

EXECUTIVE SUMMARY

This Report presents the results of Green Auditing conducted at **HKE'S Smt. Chinnamma Basappa Patil Arts & Commerce Degree College Chincholi**, was established in the year 1983, and is affiliated to Gulbarga University, Kalaburagi. It offers three years Degree Courses in Arts & Commerce, to Award of Bachelor Degree from the said University. The College with NAAC Accredited B+ Grade and has been co-educational since its establishment. Established by the Hyderabad Karnataka Education Society, Kalaburagi.

Account the Green/Energy/Enviro Auditing, is mutually respected with THE GREEN AUDIT are related to all the students, employees and administrators; Green Auditing is far less familiar to all stakeholders including students and general public. It is most of the time capable of evoking several doubts and misunderstandings on its need as well as on the methodology. Yet, Green Auditing is not to be understood as another name for ecological or environmental auditing. It is much broader and encompasses audit of the following aspects of an institution's normal functioning: Use of Water, Energy, Renewable and other Nature's Resources etc. and the state of Health (of all related persons), Environmental Quality, Transportation & Communication as well as assessment on Accessibility for differently-able, Gender Justice and **Carbon Footprint**, it leaves through all activities over a year. Green denotes a world full of all living beings – human, animals, insects and plants as well as all the useful and harmful micro-organisms that can go on forever in peace, happiness and equity. Teachers play an undeniable role in imparting knowledge to the students and the nature of future living on this planet is shaped by their hands. Hence, teachers are in a position to facilitate knowledge and promote the learners to achieve better awareness about what is happening in and around them. Teachers as professionals and influential individuals.





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supported by the managements of institutions, can play an important role in shaping up students' attitude through training and parading them to be the role models in their communities. Educational Institutions thus can offer an ideal service in molding the young minds in their impressionable age, towards promoting the health of nature, understanding the underlying causes of climate change and its impacts, and the conditions required to be maintained for sustaining life on earth. Green Audit is, therefore to make the entire college and the society understand through the trained students, as to how heavy is their carbon footprint, and help search for remediation and make their campuses and living surroundings 'as green as' one can make it. It is also in search of newer ways to climb up the ladder through continuous efforts in search of the green shade in appreciating their responsible behavior and admire the novel ways in which the campus team has strived to achieve their "shade of green". Green audit can also be a useful tool for a college to know how and where they are using the most energy, water and other Nature's resources. The college can thus plan for the needed changes and ensure savings. It can also be used to improvise their waste minimization strategy. Green auditing and the implementation of mitigation measures will be a win-win situation for the college, the learners and the planet. It can also create health consciousness and promote awareness on environment, ethics and values. Green auditing in such a situation, it is only logical that the college evaluate its own contributions toward a sustainable future for all. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to

Environmental sustainability is more apparent. Over a period, the green culture will pervade the society. In this College, the Green Audit process involved the creation of a student volunteer corps in the form of Green Guardians Club and an audit team with students, teachers, members from Administration, as well as a team of experts who have practiced greening for years including energy and environmental auditors and ecological administrators, through the Nature's and Earth Matters Green Foundation and other related




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team with the motto 'engineering green solutions'. The results showed that the austere ways of the college, with the cycles of green audits conducted, have helped in identifying opportunities for a number of refuse, recover, reuse, and recycle strategies for wastes as well as for increased energy efficiency and renewable energy use. The carbon footprint in 2021 is only at a very low level, which is less with the national benchmark. A more concrete strategy for students to interact with the communities around them and help them for building resiliency could be developed in the face of onslaughts from climate change and natural calamities on our EARTH which is only one.



Er Ra Na Kathare

BE, MIE, Ch E (Kolkata) FIV LLB.

General Secretary,

Green Foundation:

Energy & Environment Consultant

IT Dept, Govt. Registered & Approved Valuer

& Founder Director:

Bhupavan Energy & Enviro

Projects Pvt Limited &

ARC Power Generation Limited

Dated: 11.02.2022

A handwritten signature in blue ink, appearing to read "Patil".

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Chincholi Dist. Kalaburagi

On behalf of Green Foundation's Green Auditing Team, very much thankful to :

Dr Manikamma N Sultanpur, Principal, Smt CB Patil Degree College Chincholi, 585 307.

Dr. Laxman Rathod, Dept of Commerce & Co Ordinator IQAC.

M/s Vardhman Associates Represented by Er Rajshekhar Vardhamane, Aland.

Cell: 9972900324 Consultants & Surveyors with Test Lab.

Sri SB Chanpally, Chief Engineer (Retd-KPCL); Bidar.

Smt: Sonali V M, M.Tech (Mech) Lecturer, Panchasheel Polytechnic College, Raj Rajeshwari Nagar, Bengaluru.

Sri: MG Kalekar, Manager (Retd), ACC Wadi.

Sri Subhash the college representative, The Photographer, Gardener, the respective care taker of RO water Unit and Nature Lovers among the College, Teaching & Non Teaching staff & the students.

I. Green Audit 2021-22:

The National Assessment and Accreditation Council (NAAC), India, insists on having a Energy Audit and Green Audit or Enviro Audit; all these to be conducted for every accredited higher educational institution (HEI) mainly because, such an act will help in achieving the following to signal the enhancement of quality of higher education as well as life in India.

- * Ensure increased clarity and focus in institutional functioning towards quality Enhancement
- * Ensure enhancement and coordination among various activities of the institution with careful ecological consideration and resources conservation in view and in due course institutionalize all such good practices
- * Ensure internalization of the quality culture in education
- * Ensure driving a strong basis for decision making on institutional issues
- * Ensure that a methodology is developed, tried and established for documentation and internal communication




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&

- Ensure that all stakeholders including the students accept a dynamic system for quality changes in Higher Educational Institutes.

Background: For the Green Audit of 2021-22 of **HKE'S Smt. Chinnamma Basappa Patil Degree College, CHINCHOLI-585 307**, the Faculties and the Management decided upon bringing changes in the physical and cultural environments, with the participation of students, in tune with the salubrious nature around - minimizing resources consumption and maximizing the performance efficiency in all sectors of activities. A preliminary random audit indicated that maximum savings could be obtained through interventions in the energy sector - cooking energy, lighting and motive power - and embracing renewable energy with an increased opportunity window. As a part of it, **Er. Rana Kathare, GI, Secretary of Green Foundation** took the charge for the Green & Energy Auditing of this College Premises. This was followed by preliminary audit by a team of experts under the initiation of **Er. Rana Kathare**. The draft audit report and the recommendations were discussed among others, & the College Staff with independent references between the faculty of College and the Audit team.




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GREEN AUDIT

[Referred documents: The information furnished by the staff Dr. Rathod, representatives of the institute, Photographs and my personal visit to the premises on 01st February, 2022]



GREEN COVERAGE IN AND OUT FOR THE COLLEGE PREMISES.

Sl No	Particulars	Nos	Green surface Canopy covered in premises	Remarks
1	No of Trees	33	33X25X25=10625 Sqft	Deficient
2	No of Plants i) Ornamental-14 ii) Medicinal-07	21	53X5X5= 1325 Sqft	Deficient
3	Total	54	11950 Sqft	Deficient
4	Area of college premises.	-	137814.08 SqFt (12808 SqMtr)	D-33528.64
5	Required Green Coverage Canopy through plants trees or carbon credit	100	45478.64 Sqft	Sufficient.

Conclusion: There is a short fall of Green canopy coverage of about 40%.

Recommendation: Plant at least 600 Nos of Trees for the green canopy coverage of 900 Sqft each at the maturity. For the suitable Air Quality Index in the premises.


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SMT.CHINNAMMA BASAPPA PATIL ARTS AND COMMERCE DEGREE COLLEGE CHINCHOLI-585 307

List of plants Name with Botanical name and Family name in our college campus.

Sl. No.	Common Name	Botanical name	Family
1	Fig	Ficus religiosa	Moraceae
2	Lxora	laora coccinea	Rubiaceae
3	Aloe vera	aloe vera	Liliaceae
4	Tulsi	ocimum sanctum	Imiaceae
5	Hibiscus	Hibiscus Rosa senensis	Malvaceae
6	Oleander	Thevetia peruviana	Apocynaceae
7	Vinca	Catharanthus roseus	Apocynaceae
8	Tridax	Tridax procumbens	Asteraceae
9	Neem	Azadirachta indica	Meliaceae
10	Custard Apple	Annona squamosa	Annonaceae
11	Mango	Mangifera indica	Anacardiaceae
12	Drumstick	Moringa oleifera	Moringaceae
13	Ashoka (false Ashoka)	Polyalthia longifolia	Annonaceae
14	Mulgu Jaji	Barleria brionita	Acanthaceae
15	Wild Almond	sterculla foetida	Malvaceae
16	Monkey Bush	abutilon indicum	Malvaceae
17	Lantana	lantana camara	Verbinaceae
18	Glory Bower	clerodendrum fragrans	Lamiaceae
19	American arborvitae	Thuja japonica	Cupressaceae
20	Palm	Roystonea regia	Arecaceae
21	Akasha malige	Millingtonia hortensis	Bignoniaceae
22	Curry leaf	Murraya koenigii	Rutaceae
23	Kali gidda/milk bush	Euphorbia tirucalli	Euphorbiaceae
24	cotton	Gossypium hirsutum	Malvaceae
25	Coconut	Cocos nucifera	Arecaceae
26	ghost gum	Alcalyptus globules	Myrtaceae
27	Snowgum	Alcalyptus pauciflora	Myrtaceae
28	Money plant	Epipremnum aureum	Arecaceae
29	Snake Plant	Dracaena trifasciata	Asparagaceae
30	Canna/Kaballe	Canna indica	Cannaceae
31	Rivertamarind	Leucaena leucocephala	Fabaceae
32	Ngaicomphor	Biumeabalsamifera	Asteraceae
33	Rheo	Tradescantia spathacea	Commelinaceae
34	Amurith balli	Tinospora cordifolia	Menispermaceae
35	Bambay Blackwood	Dalbergia latifolia	Leguminaceae
36	Indian camphorweed	Pluchea indica	Asteraceae
37	Buchinia	Bauhinia variegata	Fabaceae
38	Bauhinia	Bauhinia variegata	Fabaceae
39	Pandanus palms	Kapona vidua	Pandanaceae
40	Spanish dagger	Yucca gloriosa	Asparagaceae
41	Devils backbone	Pedilanthus tithymalioides	Euphorbiaceae
42	Gulab	Rosadamasena	Rosaceae
43	Creeping wood	Axalis corniculata	Oxalidaceae
44	Rheo/purple hurt	Tradescantia pallida	Commelinaceae
45	Lemon	Citrus lemon	Rutaceae

46	Indian blackberry	Syzygium cumini	Myrtales
47	Guava	Psidium guajava	Myrtales
48	Kanakambari	Crossandra infundibuliformis	Acanthaceae
49	Pinwheelflower	Tabernaemontana grisea	Apocynaceae
50	Calotropis	Calotropis procera	Apocynaceae
51	Adaken gida	Portulaca umbraticola	Portulacaceae
52	Gobbarad gidda	Girardinia septum	Fabaceae
53	Paper Flower	Bougainville	Nyctaginaceae
54	Flame of the forest	Deionilix regia	Fabaceae




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Green Foundation (Regd)

G-37, Century Complex, SB Temple Road, **GULBARGA**-585101, Karnataka-India.
Fax: +0091-08427-234808, Email: greenfoundation@ymail.com

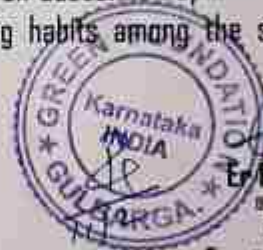
GREEN AUDIT CERTIFICATE

This is to certify that the **GREEN FOUNDATION (R)**, has conducted the Green Audit & Environment Audit, with respect to Nature's Resources and their compensation related to carbon & water foot print of the Campus of **H.K.E. SOCIETY'S SMT. CHINNAMMA BASAPPA PATIL ARTS & COMMERCE DEGREE COLLEGE**, Chincholi-585307, Kalaburagi District of Karnataka State, for the year 2021-22.

The Audit of the Nature's Resources of the College premises, reviews of data and implementation of measures by the management was done.

The implementation of Green Measures by the Management, Faculties and students, environmental sustainability is partially commendable and satisfactory.

This **Green Audit** is conducted to ensure that a Green Policy is followed and implemented in the campus across all academic and non-academic departments and the need for individual efforts in perpetuating green living habits among the students and college related people.



[Signature]
Er Ra Na Kathare
B.E., M.E., D.T. (General), U.E., M.E.
General Secretary.

For: Green Foundation:

Energy & Environment Consultant

IT Dept, Govt. Registered & Approved Valuer

Founder Director:

Bhupawan Energy & Enviro Projects Pvt Limited &

ARC Power Generation Limited.

11th February 2022

Place: KALABURAGI

I agree with the data presented in this report, as true, and further express my willingness to implement the recommendations of this audit report after internal review, even if any or many of them are in excess of the relevant mandates.

Principal,

Date: 11-02-2022.

[Signature]

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HKES's Smt. C.B. Patil

Degree College

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[Signature]

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KALABURAGI-585107

Acknowledgements:-

I on behalf of Green Foundation are thankful to the Principal Dr Manikamma N Sultanpur, IQAC Co Ordinator Dr. Laxman Rathod, Dept of Commerce, Smt CB Patil Degree College Chincholi, and the staff of the college, M/s Vardhman Associates represented by Er Rajshekhar Vardhmane, Sri Chanpally Shivaraj Chief Engineer(Rtd),


--	--

Office Superintendent Sri Srinivas, Smt. Sonali V M, Lecturer, Dept of Mechanical, in Panchashil Polytechnic College, Raj Rajeshwari Nagar, Bengaluru. Sri MG Kalekar-Works Manager(Rtd), Acc wadi. We thank all the participants of the auditing team, faculty and non-teaching staff who provided the information along with us during the survey. We also thankful to the office staff who helped us for the completion of this Green Audit Report.

Next Audit

In order to promote continuous improvement it is recommended to conduct the next green auditing during the year 2022-23.





11/2/2022
KATHARE RAJENDRA
DE. JAB. CH. E. CIV. LLB
Central Govt. Regd. Valuer
Chartered Engineer
G-37, Century Complex,
Opp. Sangem Cinema,
S. B. Temple Road,
KALABURAGI-585101
KARNATAKA - INDIA


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Photo Gallery




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2. Green Audit / Environment Audit / Energy Audit reports by involving the one external expert of the accredited Institution / Government / Govt. recognised

ENERGY AUDIT REPORT FOR THE YEAR 2021-22

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Smt Chinnamma Basappa Patil arts & Commerce
Degree College Chincholi-585307. Dist: Kalaburagi.

ENERGY AUDIT REPPORT FOR THE YEAR 2021-22



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GPS: 17° 30' 34" N 76° 50' 6"

Email: green.foundation2020@gmail.com

Tele-Fax: +91 08472 253808

Cell: +91 9448055908


KATHAR
REG. NO. 136/118
Central Govt. Regd. Valuer
Chartered Engineer
G-37, Century Complex,
Opp. Langam Cinema,
S. B. Temple Road,
KALABURAGI-585101
KARNATAKA - INDIA



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REG. NO. CH E- 116/LLB
Central Govt. Regd. Valuer
Chartered Engineer
G-37, Century Complex,
Opp. Sangam Cinema,
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EXECUTIVE SUMMARY

This Report presents the results of Green Auditing conducted at HKE'S Smt. Chinnamma Basappa Patil Arts & Commerce Degree College Chincholi, was established in the year 1983, and is affiliated to Gulbarga University, Kalaburagi. It offers three years Degree Courses in Arts & Commerce, to Award of Bachelor Degree from the said University. The College with NAAC Accredited B+ Grade and has been an educational since its establishment. Established by the Hyderabad Karnataka Education Society, Kalaburagi.

Account the Green/Energy/Enviro Auditing, is mutually respected with THE GREEN AUDIT are related to all the students, employees and administrators. Green Auditing is far less familiar to all stakeholders including students and general public. It is most of the time capable of evoking several doubts and misunderstandings on its need as well as on the methodology. Yet, Green Auditing is not to be understood as another name for ecological or environmental auditing. It is much broader and encompasses audit of the following aspects of an institution's normal functioning: Use of Water, Energy, Renewable and other Nature's Resources etc. and the state of Health (of all related persons), Environmental Quality, Transportation & Communication as well as assessment on Accessibility for differently-able, Gender Justice and **Carbon Footprint**, it leaves through all activities over a year. Green denotes a world full of all living beings – human, animals, insects and plants as well as all the useful and harmful micro-organisms that can go on forever in peace, happiness and equity. Teachers play an undeniable role in imparting knowledge to the students and the nature of future living on this planet is shaped by their hands. Hence, teachers are in a position to facilitate knowledge and promote the learners to achieve better awareness about what is happening in and around them. Teachers as professionals and influential individuals.




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supported by the managements of institutions, can play an important role in shaping up students' attitude through training and parading them to be the role models in their communities. Educational institutions thus can offer an ideal service in molding the young minds in their impressionable age, towards promoting the health of nature, understanding the underlying causes of climate change and its impacts, and the conditions required to be maintained for sustaining life on earth. Green Audit is therefore to make the entire college and the society understand through the trained students, as to how heavy is their carbon footprint, and help search for remediation and make their campuses and living surroundings 'as green as' one can make it. It is also in search of newer ways to climb up the ladder through continuous efforts in search of the green shade in appreciating their responsible behavior and admire the novel ways in which the campus team has strived to achieve their "shade of green". Green audit can also be a useful tool for a college to know how and where they are using the most energy, water and other Nature's resources. The college can thus plan for the needed changes and ensure savings. It can also be used to improvise their waste minimization strategy. Green auditing and the implementation of mitigation measures will be a win-win situation for the college, the learners and the planet. It can also create health consciousness and promote awareness on environment, ethics and values. Green auditing in such a situation, it is only logical that the college evaluate its own contributions toward a sustainable future for all. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to

Environmental sustainability is more apparent. Over a period, the green culture will pervade the society. In this College, the Green Audit process involved the creation of a student volunteer corps in the form of Green Guardians Club and an audit team with students, teachers, members from Administration, as well as a team of experts who have practiced greening for years including energy and environmental auditors and ecological administrators, through the Nature's and Earth Matters Green Foundation and other related



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team with the motto 'engineering green solutions'. The results showed that the austere ways of the college, with the cycles of green audits conducted, have helped in identifying opportunities for a number of refuse, recover, reuse, and recycle strategies for wastes as well as for increased energy efficiency and renewable energy use. The carbon footprint in 2021 is only at a very low level, which is less with the national benchmark. A more concrete strategy for students to interact with the communities around them and help them for building resiliency could be developed in the face of onslaughts from climate change and natural calamities on our EARTH which is only one.



Er. RaNa Kathare

BE, ME, Ch E (Kolkata) FIV LLB.

General Secretary.

Green Foundation:

Energy & Environment Consultant

IT Dept, Govt. Registered & Approved Valuer


& Founder Director:

Bhupavan Energy & Enviro

Projects Pvt Limited &

ARC Power Generation Limited

Dated: 11.02.2022


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Degree College
Chincholi Dist. Kalaburagi

On behalf of Green Foundation's Green Auditing Team, very much thankful to:
 Dr. Manikamma N Sultanpur, Principal, Smt CB Patil Degree College Chincholi, 585 307.
 Dr. Laxman Rathod, Dept of Commerce & Co Ordinator IQAC.
 M/s Vardhman Associates Represented by Er. Rajshekhar Vardhaman, Aland, Cell: 9972900324 Consultants & Surveyors with Test Lab.
 Sri SB Chanpally, Chief Engineer (Retd-KPCL); Bidar.
 Smt. Sonali V M, M.Tech (Mech) Lecturer, Panchasheel Polytechnic College, Raj Rajeshwari Nagar, Bengaluru.
 Sri MG Kalekar, Manager (Retd), ACC Wadi.
 Sri Subhash the college representative, The Photographer, Gardener, the respective care taker of RO water Unit and Nature Lovers among the College, Teaching & Non Teaching staff & the students.

Table

Sl No	ELECTRICAL ENERGY CONSUMING DEVICES	Quantity
1	COMPUTERS	17
2	FANS	26
3	NORMAL TUBE LIGHTS	15
4	LED TUBE LIGHTS	17
5	LED BULBS	17
6	NORMAL BULBS	8
7	PROJECTOR	1
8	ELECTRIC GENERATOR/INVERTOR	1
9	CITY SET WITH ACCESSORIES OF 20	5
10	SOLAR GARDEN TOWER WITHOUT BATTERY	1
11	BATTERIS	7
12	INKRITOR	1
13	OTHER ELECTRICAL EQUIPMENTS(SMKE SET SPEAKERS KASHIK, PRINTER/ SCANNER, TV, REFRIGERATOR ETC ETC)	17



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Energy Audit

Year by year, the electrical energy of this college and Sustainability Audit identified immediate and no cost, low cost and high cost options that can be pursued in above Table. The College Authorities has advised to be act continuously on the first two opportunities during the year 2021-22, which are as follows:

1. Minimise the phantom load in the electrical system. Immediate returns will come with practically no investment. Replace the existing multiple units of UPS system for computers by properly optimized single unit UPS system.
2. Replace existing ordinary tube lights and CFLs with LED lights in the Guest House and in the Hostels. Bring down the consumption without reducing illumination levels or human comfort.


Phantom load is the energy that will be measured by energy meters, even when the equipment is out of use. Computers, LCD projectors, Printers, Photostat machines, Fridges, TV units etc. which are normally hooked to the power line all the 24 hours, may be active only for part of the day. When not in use, unless they are isolated by switching off (not stopping by remote electronic controls), a small percentage of the full load will still be consumed and felt by the energy meter.

Most of them were under-loaded and idled for hours every day. Also, the batteries were old and very weak. Failure of any one UPS unit used to totally disable the devices connected to it, till it is set right. With the suggested new system, a single unit of sufficient capacity is connected in parallel mode to all the user outlets.

The following housekeeping measures required for achieving the cited gains were introduced during the Audit year:

- a) Displayed stickers to switch off equipment - like Computers, Printers, Photocopiers, etc. - when not required; also to isolate them from power supply, whenever possible.
- b) Maintenance schedules for switchboards and distribution boards prepared and followed.
- c) Log Books for recording energy consumption, extent of power failures and running of standby generators were introduced.
- d) Meters for sub-units for monitoring monthly energy consumption in every building to be implemented in the immediate future.

The college has its electrical installations in the various depts of the building and facilities and the connected load exceeds 33 KW, as indicated in Table above. The electrical energy consumption takes place during normal, peak time and off-peak time


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Chincholi Dist. Kalaburagi




differently in different sub-areas. Electricity used is charged according to the energy charges. Which is on an average of more than Rs 60000.00 per year is made up of energy consumption during three tariff regimes - normal, peak and off-peak. Major part of it is as energy charges. Cost based on the maximum demand is not high in comparison. So, reducing consumption can bring in large reduction in **carbon footprint**. As three fourth of the charges are for kWh consumed, 'energy conservation' potential remains high. If demand can be restricted within the 'contract demand' limit (in kW), the demand charge component of electricity bill every month will remain predictable.

Energy Efficiency tips:

The next attractive opportunity in the path of greening through energy management is the replacement of fluorescent tubes (1200 mm or 4 ft) and compact fluorescent lamps (CFLs). At present the buildings have some number of ordinary four feet tubes. Reduction in Carbon Footprint will arise due to electrical energy being saved by using LED tubes that require only less electricity for giving the same level of illumination. In this case, 20 W LED tubes can be used instead of 40 W ordinary tubes. 40 W tubes with magnetic choke and starter used to need 56 W (power) to light up. So, savings per tube will be 36 W.

In addition, recommend to replace all the Bulbs with tubes of 4' for older & inefficient lighting devices (other than tubes) during the year. This also helped in bringing down the **carbon footprint**. On a rough estimate, the energy consumed by these all the lamps has been reduced to half and the heat radiating from such lamps has also gone down considerably, giving a greener environment.




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Chincholi Dist. Kalaburagi

ENERGY AUDIT

[Referred documents: The information furnished by the staff
Prof. Dr. Lakshman Bhatnagar of Dept of Commerce of the College, Photographs and
my personnel visit to the premises on 27th January 2022]


ENERGY CONSUMPTION BY VERTUE OF WHICH ITS IS MANDATORY IN AND OUT FOR
THE COLLEGE PREMISES.

Sl No	Particulars	Nos	Watts consumption	Time in hours/day	Total watts	Remarks
1	Bore Pump for Lifting	1	1X1000=1000	3	3000	
2	Fridge	1	1X1000=1000	8	8000	
3	Computers	12	12X100=1200	3	3600	
4	All Kinds of Fans	36	36X60=2100	4	8400	
5	Printer/Scanners	2	2X1000=2000	0.5	1000	
6	LED/Tubes/bulbs	52	52X15=780	2	1560	
7	Projector	1	1X500=500	2	1000	
8	Other equipments LS	8	8X200=1600	4	6400	
	Total	113	9900	26.50	32960	
					33000	

Total Consumption considering 250 WD in the year is 330.00 KW per day

Conclusion: There is a less power consumption in the college premises. As compared to 1010 KW the National average and that of the college average 330.00

Recommendation: Use always the **BEE STAR Marked** electrical equipments for the less consumption with higher efficiency.


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Chincholi Dist. Kalaburagi



Green Foundation (Regd)

G-37, Century Complex, SB Temple Road, **GULBARGA**-585101, Karnataka-India.
Fax: +0091-08427-234808; Email: greenfoundation@ymail.com

ENERGY AUDIT CERTIFICATE

This is to certify that the GREEN FOUNDATION (R), has conducted the Energy Audit its Resources and their compensation related to optimum use from all conventional & non conventional resources for the Campus of **H.K.E. SOCIETY'S SMT. CHINNAMMA BASAPPA PATIL ARTS & COMMERCE DEGREE COLLEGE**, Chincholi-585307, Kalaburagi District of Karnataka State, for the year 2021-22.

The **Energy Audit** for the reviews of data and implementation of measures by our Audit Team was done. The implementation of Energy Efficiency Measures by the Management, Faculties and students, environmental sustainability is partially commendable and satisfactory.

This audit is conducted to ensure that an Energy Policy is followed and implemented in the campus across all academic and non-academic departments and the need for individual efforts in perpetuating green living habits among the students and college related people.



[Signature]
Er Ra Na Kathare

MIE; Ch E (Kolkata) L SR; TV.
General Secretary,

FOR: Green Foundation;

Energy & Environment Consultant

IT Dept, Govt. Registered & Approved Valuer

Founder Director:

Bhupavan Energy & Enviro Projects Pvt Limited &
ARC Power Generation Limited.

11th February 2022.

Place: KALABURAGI

I agree with the data presented in this report, as true, and further express my willingness to implement the recommendations of this audit report after internal review, even if any or many of them are in excess of the relevant mandates.

[Signature]
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HKES's Smt. C.B. Patil
Degree College
Chincholi Dist. Kalaburagi

[Signature]
PRINCIPAL
Govt. College (Autonomous)
KALABURAGI-585102.

Acknowledgements:-

I on behalf of Green Foundation are thankful to the Principal Dr Manikamma N Sultanpur, IQAC Co Ordinator Dr. Laxman Rathod, Dept of Commerce, Smt CB Patil Degree College Chincholi and the staff of the college, M/s Vardhman Associates represented by Er Rajshekhar Vardhmane, Sri Channally Shivaraj Chief Engineer(Rtd), Office Superintendent Sri Srinivas, Smt: Sonali V M, Lecturer, Dept of Mechanical, in Panchashil Polytechnic College, Raj Rajeshwari Nagar, Bengaluru, Sri MG Kalekar-Works Manager(Rtd), Acc wadi. We thank all the participants of the auditing team, faculty and non-teaching staff who provided the information along with us during the survey. We also thankful to the office staff who helped us for the completion of this Green Audit Report.

Next Audit

In order to promote continuous improvement it is recommended to conduct the next green auditing during the year 2022-23.



[Handwritten Signature]
11/2/2022

KATHIARE RAJENDRA
REGD. CH. E. ENCLB
Central Govt. Regd. Valuer
Chartered Engineer
G-37, Century Complex,
Opp. Sangam Cinema,
S. B. Temple Road,
KALABURAGI-585101
KARNATAKA - INDIA

[Handwritten Signature]
PRINCIPAL
HKES's Smt. C.B. Patil
Degree College
Chincholi Dist. Kalaburagi

Photo Gallery



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HKES's Smt. C.B. Patil
Degree College
Chincholi Dist. Kalaburagi

GREEN & ENVIRONMENT AUDIT REPORT 2022-23



Green Foundation (Regd)

G-37, Century Complex, SB Temple Road, **GULBARGA**-585101, Karnataka-India.
Fax: +0091-08427-234808. Email: greenfoundation@ymail.com

GREEN AUDIT CERTIFICATE

This is to certify that the **GREEN FOUNDATION (R)**, has conducted the Green Audit & Environment Audit, with respect to Nature's Resources and their compensation related to carbon & water foot print of the Campus of **H.K.E. SOCIETY'S SMT. CHINNAMMA BASAPPA PATIL ARTS & COMMERCE DEGREE COLLEGE**, Chincholi-585307, Kalaburagi District of Karnataka State, for the year 2022-23.

The Audit of the Nature's Resources of the College premises, reviews of data and implementation of measures by the management was done.

The implementation of Green Measures by the Management, Faculties and students, environmental sustainability is partially commendable and satisfactory.

This **Green Audit** is conducted to ensure that a Green Policy is followed and implemented in the campus across all academic and non-academic departments and the need for individual efforts in perpetuating green living habits among the students and college related people.

22nd February 2023.
Place: KALABURAGI


Er Ra Na Kathare
SE, MBE, Ch E (Kolkata) I, LB, FTV,
General Secretary,

For: Green Foundation;
Energy & Environment Consultant
IT Dept, Govt. Registered & Approved Valuer
Founder Director:
Bhupavan Energy & Enviro Projects Pvt Limited &
ARC Power Generation Limited.

I agree with the data presented in this report, as true, and further express my willingness to implement the recommendations of this audit report after internal review, even if any or many of them are in excess of the relevant mandates.

Principal,
Date: 22-02-2023.

ENERGY AUDIT REPORT 2022-23



Green Foundation (Regd)

G-37, Century Complex, SB Temple Road, **GULBARGA**-585101, Karnataka-India.
Fax: +0091-08427-234808. Email: greenfoundation@ymail.com

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The **Energy Audit** for the, reviews of data and implementation of measures by our Audit Team was done.

The implementation of Energy Efficiency Measures by the Management, Faculties and students, environmental sustainability is partially commendable and satisfactory.

This audit is conducted to ensure that an Energy Policy is followed and implemented in the campus across all academic and non-academic departments and the need for individual efforts in perpetuating green living habits among the students and college related people.



Er Ra Na Kathare

BE: MIE; Ch E (Kolkata) L UB: FIV.
General Secretary,

For: Green Foundation;

Energy & Environment Consultant

IT Dept, Govt. Registered & Approved Valuer

Founder Director:

Bhupavan Energy & Enviro Projects Pvt Limited &
ARC Power Generation Limited.

22nd February 2023.

Place: KALABURAGI

I agree with the data presented in this report, as true, and further express my willingness to implement the recommendations of this audit report after internal review, even if any or many of them are in excess of the relevant mandates.

Principal,

Date: 22-02-2023.

CLEAN AND GREEN CAMPUS INITIATIVES





BEYOND THE CAMPUS ENVIRONMENTAL PROMOTION ACTIVITIES





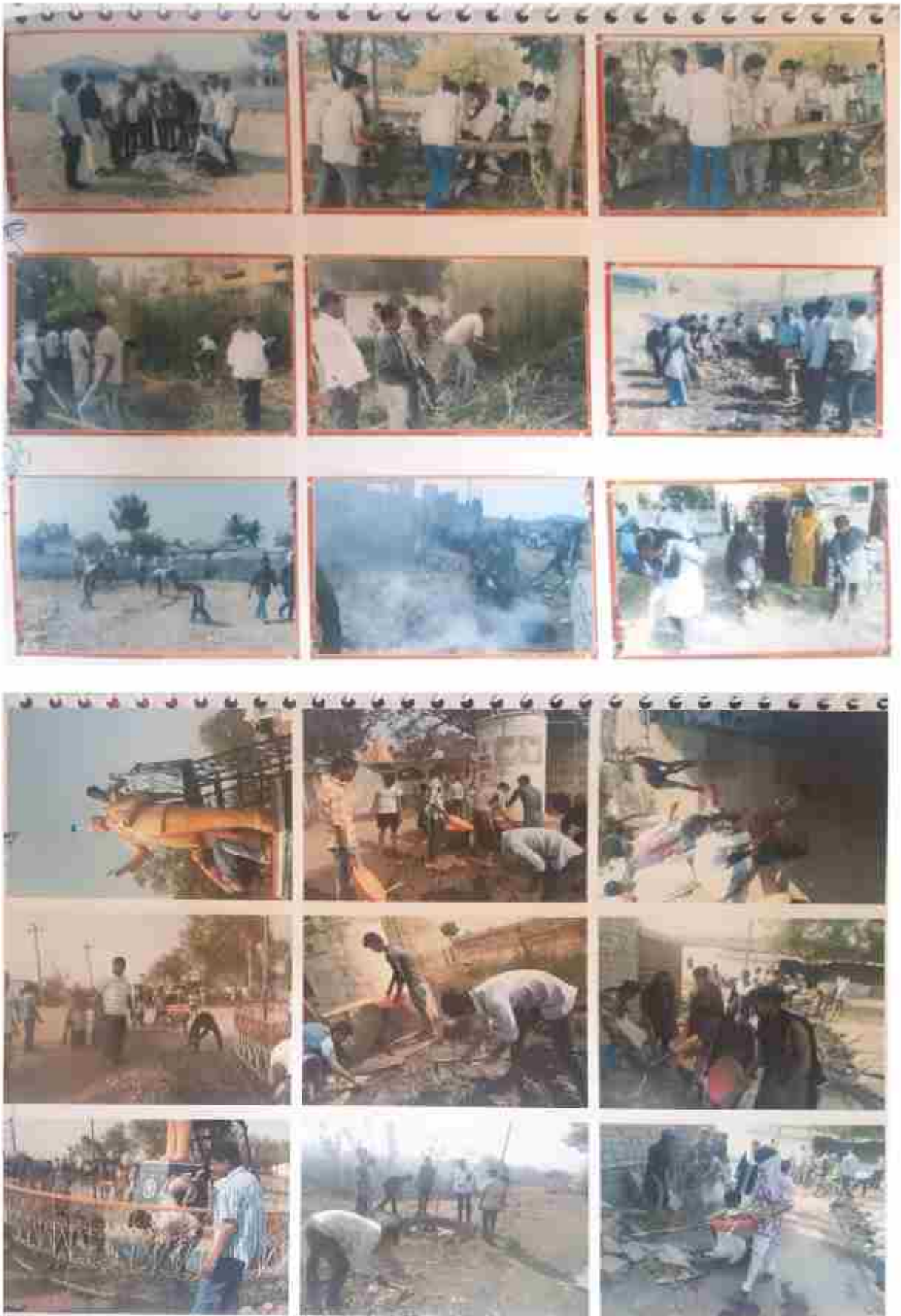




HARKUD TERUMAIDANA SWACCHATA PROGRAMM







**RECOGNITION BY REGIONAL DIRECTOR, NSS MINISTRY OF YOUTH AFFAIRS
AND SPORTS GOVERNMENT OF INDIA BANGALORE**

**NATIONAL SERVICE SCHEME
REGIONAL DIRECTORATE OF NSS BANGALORE
Swachh Bharat Summer Internship 2.0 (50hrs) Programme 2019**



Coordinators are requested to send the Mandate form from the following Colleges for the onward transmission to Water & Sanitation Ministry Government of India to release the award at District Level Prize Money in Connection of Swachh Bharat Summer Internship 2.0 (50hrs) Programme. On 23rd September 2019 to this office without fail.

Name of the University	District	Name of the College	Position Secured
Gulbarga University	GULBARGA	S B College of Commerce, Kalaburagi	1st
		Govt First Grade College, Chittapur	2nd
		HKE's Smt. C.B. Patil Degree College, Chincholi	3rd
	BIDAR	Govt First Grade College Bidar	1st
		karnataka Degree College Bidar	2nd
		Govt first Grade College, Humnabad	3rd
	RAICHUR	Govt. First Grade College, Raichur	1st
		LVD College, Raichur	2nd
		SSM College, Raichur	3rd
	YADGIRI	Govt First Grade College, Yadgir	1st
		Swami Vivekananda College, Hunasagi	2nd
		Govt First Grade College, Shahpur	3rd


KQAC Co-Ordinator
 HKE'S Smt. C.B.Patil Arts & Commerce
 Degree College, Chincholi


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 HKE'S Smt. C.B. Patil
 Degree College
 Chincholi Dist. Kalaburagi


K.V. KHADRINARASIMHAIAH
REGIONAL DIRECTOR, NSS
Ministry of Youth Affairs & Sports
Government of India
BANGALORE

Activity	Duration From	Duration To	Number of Participants
Swachha Bharat Abhiyan- Ainoli	20/07/2018	20/07/2018	25
Swachha Bharat Abhiyan- Chimmaidalia	25/07/2018	25/07/2018	20
Swachha Bharat Abhiyan- Buggi	10/08/2018	20/07/2018	20
Swachha Bharat Abhiyan- Gottamgotti	03/08/2018	03/08/2018	30
Swachha Bharat Abhiyan- Harkud temple	18/03/2019	18/03/2019	120