

SS MARGOL DEGREE COLLEGE OF
ARTS, SCIENCE AND COMMERCE
Shahabad-585228 (Karnataka)

(GPS: 17.125709° N 76.928361° E)

GREEN AUDIT REPORT 2022-23



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DETERMINED FOR INCREDIBLE EARTH

A Widest Platform of Enviro Analysis

G-37, CENTURY COMPLEX,
OPP: SANGAM CINEMA, SB TEMPLE ROAD,
KALABURAGI- 585101. KARNATAKA- INDIA.

gps: 17° 20' 24" N 76° 50' 6"

Email: green.foundation2020@gmail.com

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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 2022-23 Green Audit report of **SS MARGOL DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE, SHAHABAD-585228**, 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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SS MARGOL DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCIAL,
SHAHABAD-585228,

Vision

To Preserve and Promote the finer innate qualities of a STUDENTS, then Citizens of our Nation for the eternal Human Values, the rich heritage of our Nation, to equip with her with knowledge and skills to meet the regional and global challenges with confidence. Apart from this, intends to be a transformational leader Environmental Education & its awareness, facilitating with day to day happenings and routine practices, the full flowering of Life in Abundance

Mission

The institution's Mission is to infuse the Ethical, Moral and Social Values to disseminate the unfolding and sensitizing the integrated personality of humanity. Providing and promoting the apt education to empower and assimilate all the innate human qualities to face the National and Global Challenges with confidence, apart from the sustainable livings, ensuring a learning environment of creativity, Adventure of ideas with Constant innovation, and State-of-the-art Technique, Information & Communication Technology

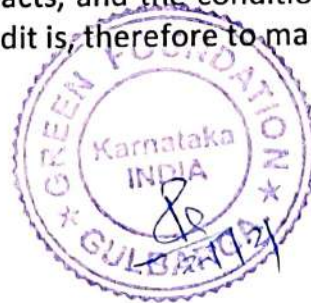


SS MARGOL DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE SHAHABAD-585 228, (KARNATAKA)

EXECUTIVE SUMMARY

This Report presents the results of Green Auditing conducted at **SS MARGOL DEGREE COLLEGE, SHAHABAD**, was established in the year 1967, and is affiliated to **Gulbarga University, Kalaburagi**. It offers three years Degree Courses in Arts, Science, 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, 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



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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 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) L LB.

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: 21.02.2023

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

Prof: Kankappa Bilav, Principal, SS Margol Degree College, Shahabad-585 228.

Prof: Basavaraj Hiremath, Dept of Chemistry, & Co Ordinator IQAC.

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.

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

1. Green Audit 2022-23:

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



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Background: For the Green Audit of 2022-23 of **SS MARGOL DEGREE COLLEGE, SHAHABAD**, 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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H.K.E. SOCIETY'S.
S.S.MARGOL COLLEGE OF ARTS, SCIENCE AND COMMERCE
DEGREE COLLEGE SHAHABAD 585228.

List of Plants Name with Botanical name and Family name
In our college campus.

Sl.no	Common name	Botanical name	Family
1)	Banyan	Ficus bengalensis	Moraceae
2)	Fig	Ficus religiosa	Moraceae
3)	Cycas	Cycas revoluta	Cycadaceae
4)	Ixora	Ixora coccinea	Rubiaceae
5)	Aloe vera	Aloe vera	Liliaceae
6)	Tulsi	Ocimum sanctum	Lamiaceae
7)	Hibiscus	Hibiscus Rosa senensis	Malvaceae
8)	Oleander	Thevetia pueuviana	Apocyanaceae
9)	Vinca	Catharanthus roseus	Apocyanaceae
10)	Thorn apple	Datura stramonium	Solanaceae
11)	Tridax	Tridax procumbens	Asteraceae
12)	Neem	Azadirachta indica	Meliaceae
13)	Custard apple	Annona squamosa	Annonaceae
14)	Mango	Mangifera indica	Anacardiaceae
15)	Drumstick	Moringa oleifera	Moringaceae
16)	Ashoka(false Ashoka)	Polyarthia longifolia	Annonaceae
17)	Mull jaji	Barleria prionitis	Acanthaceae
18)	Wild almond	Sterculia foetida	Malvaceae
19)	Monkey bush	Abutilon indicum	Malvaceae
20)	Lantana	Lantana camara	Verbinaceae
21)	Lantana	Lantana indica	Verbinaceae
22)	Glory bower	Clerodendrum fragrans	Lamiaceae
23)	American arborvitae	Thuja japonica	Cupressaceae
24)	Pigeon berry	Duranta erecta	Verbinaceae
25)	Palm	Roystonea regia	Arecaceae
26)	Akasha malige	Millingtonia hortensis	Bignoniaceae
27)	Curry leaf	Murraya koenigii	Rutaceae
28)	Kalli gidda/milk bush	Euphorbia tirucalli	Euphorbiaceae
29)	Cotton	Gossypium hirsutum	Malvaceae
30)	Coconut	Cocos nucifera	Arecaceae
31)	Ghost gum	Eucalyptus globules	Myrtaceae
32)	Snow gum	Eucalyptus pauciflora	Myrtaceae
33)	Money plant	Euphorbia aureum	Arecaceae
34)	Snake plant	Dracaena trifasciata	Asparagaceae
35)	Canna/kabale	Canna indica	Cannaceae



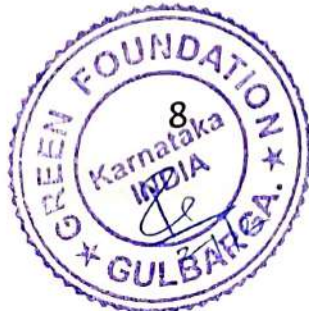
HEAD

Department of Botany
S. S. Margol College of Arts,
Science and Commerce,
Shahabad - 585 228.



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H.K.E.S. S.S. Margol College
of Arts, Science & Commerce,
SHAHABAD-585 228



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36)	River tamarind	Leucaena leucocophala	Fabaceae
37)	Ngai camphor	Blumea balsamifera	Asteraceae
38)	Rheo	Tradescantia spathaceae	Commelinaceae
39)	Amrit Balli(ಅಮೃತ ಬಳ್ಳಿ)	Tinospora cardifolia	Menispermaceae
40)	Bambay black wood	Dalbargia latifolia	Leguminaceae
41)	Indian camphorweed	Pluchea indica	Asteraceae
42)	Pongame oil tree	Pongamia pinnata	Fabaceae
43)	Bauhinia	Bauhinia variegata	Fabaceae
44)	Pandanus palms	Kapebonavista pendanus	Pandanceae
45)	Spanish dagger	Yucca gloriosa	Asparagaceae
46)	Devil's Backbone	Pedilanthus tithymaloides	Euphorbiaceae
47)	Gulab	Rosa damascena	Rosaceae
48)	Creeping wood	Oxalis corniculata	Oxalidaceae
49)	Rheo/purple heart	Tradescantia pallida	Commelinaceae
50)	Moss Rose/ಅಡಕೆ ಹೂ	Portulaca grandiflora	Portulacaceae
51)	Indian rose wood	Dalbargia sisso	Fabaceae
52)	Lemon	Citrus lemon	Rutaceae
53)	Indian blackberry	Syzygium cumini	Myrtaaceae
54)	Guava	Psidium guajava	Myrtaaceae
55)	Pomegranate	Punica granatum	Lythraceae
56)	Lesser mallow orange	Hibiscus hirtus	Malvaceae
57)	Agave Amica(ಸಾಸಿ ಸುಪರಿ)	Pollanthes tuberosa	Asparagaceae
58)	Kanakambari	Crossandra Infundibuliformis	Acanthaceae
59)	Pinwheel flower(ಪಿನ್‌ವೀಲ್)	Tabernaemontana orientalis	Apocyanaceae
60)	Milk wood	Tabernaemontana divaricata	Apocyanaceae
61)	Calotropis(ಎತ್ತೆ ಹೂ)	Calotropis procera	Apocyanaceae
62)	Grey podolepis	Podolepis aristata	Asteraceae
63)	Amla(ಅಮಲೆ ಹೂ)	Phyllanthus emblica	Phyllanthaceae
64)	Adake gida	Portulaca umbraticola	Portulacaceae
65)	Gobbarad gidda	Gliricidia sepium	Fabaceae
66)	Goat weed	Arginine maxicana	Papaverceae
67)	Paper flower	Bougainville	Nyctaginaceae
68)	Wood apple(ಐಲೂ ಪೆಟ್ಟೆ)	Aegle marmelos	Rutaceae
69)	Flame of the forest(ಸಂಕೇಶ್ವರ ಹೂ)	Deloniz regia	Fabaceae
70)	Butterfly pea	Ciltoria ternatea	Fabaceae



[Signature]
HEAD

Department of Botany
S. S. Margol College of Arts,
Science and Commerce,
Shahabad - 585 228.



[Signature]
PRINCIPAL
S. S. Margol College
of Arts, Science & Commerce,
SHAHABAD 585 228



GREEN AUDIT

[Referred documents: The information furnished by the staff Prof; Basavaraj Hiremath, representatives of the institute, Photographs and my personnel visit to the premises on 30 January 2023]

GREEN COVERAGE IN AND OUT FOR THE COLLEGE PREMISES.

SI No	Particulars	Nos	Green surface Canopy covered in premises	Remarks
1	No of Trees	17	17X25X25=10625 Sqft	Deficient
2	<u>No of Plants</u> i) Ornamental-37 ii) Medicinal-16	53	53X5X5= 1325 Sqft	Deficient
3	Total	70	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 27% .
Recommendation: Plant at least 300 Nos of Trees for the green canopy coverage of 625 Sqft each. For the suitable Air Quality Index in the premises.





CREDIBLE EARTH

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 SS Margol College of Arts, Science & Commerce Shahabad-585228, 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 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]
21/02/2023

Er Ra Na Kathare

BE; MIE; Ch E (Kolkata) L LB; 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.

21st 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: 21-02-2023.



[Signature]

PRINCIPAL

H.K.E.S. S.S. Margol College
of Arts, Science & Commerce,
SHAHABAD-585 228

[Signature]

PRINCIPAL
Govt. College (Autonomous)
KALABURAGI-585102

ACKNOWLEDGEMENTS

I on behalf of Green Foundation are thankful to the Principal Prof: Kankappa Billava, IQAC Co Ordinator Prof: Basavaraj Hiremath, Dept of Chemistry of SS Margol Degree College , Shahabad, and the staff of the college, & Sri Chanpally Shivaraj Chief Engineer,(Retd.), Prof: Sri Mallappa Bothgi, Dept History, 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 2023-24.



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PHOTO GALLERY

