

V.S.R. Government Degree & P.G. College

NAAC Reaccredited with a CGPA of 3.01 score at 'A' Grade

(Affiliated to Krishna University)

Dr. S. Madhavi
M.Sc, B.Ed., Ph.D.
PRINCIPAL



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GREEN AUDIT COMPLETION CERTIFICATE

I, Forest Range Officer, Machilipatnam acknowledge and confirm that the Green/Environmental audit was conducted on 23-11-2023 by the instructions of Dr. S.Madhavi, Principal, VSR Government Degree & PG College, Movva, Krishna District, AP. This is a report based on site visits and evidence collected from the college and is issued in accordance with metric 7.1.3 of NAAC Accreditation Manual. We made an effort to assess the extent of green practices on campus. The focus is on making a positive impact on the environment and society for better living. We also verified and signed this certificate; if the organization requires demonstration my team of experts will come to do so. We provide this report far beyond legal or mandatory compliance. This report is presented as per the statutory requirements of the NAAC Accreditation Regulations which includes Biodiversity and Water audit. We Prepared audit reports on Green/Environment. Any changes, modifications and errors made after site visit are exclusive.


Forest Range Officer
MACHILIPATNAM

Green Audit Report



V.S.R. Govt. Degree & P.G. College is a prestigious and pioneering institution of higher learning in the rural area of Krishna District, Andhra Pradesh was established in the year 1984 as per the G.O.Ms. No. 509/EDN dated 28-11-1984. It has been serving the student community in and around Movva, Krishna DT. The institution is accredited with 'A' grade with a CGPA of 3.01 which was the highest in rural colleges during the academic year 2016-17. As we are going for 4th cycle of accreditation, we are applying for Green audit from the academic year 2022-2023.

Green auditing is an essential step to identify and determine whether the institutional practices are sustainable and ecological. Traditionally, we were honest and well-organized users of natural resources. But over the period of time, excessive usage of resources like water, electricity, petrol, etc. have become normal for everyone especially, in urban and semi-urban areas. Green audit homogenizes all such practices and provides a resourceful way to use natural wealth. In the time of climate change and source collapse it is essential to re-check the processes and convert them in to green and invulnerable.

Concept: The National Assessment and Accreditation Council, New Delhi (NAAC) has made it compulsory from the academic year 2019-20 onwards that all Higher Educational Institutions should submit an annual Green, Environment and Energy Audit Report. Green Audit is assigned to the Criteria 7 of NAAC. In addition, it is part of corporate communal liability of the Higher Educational Institutions to strive for the diminution of global warming through Carbon Footprint cutback actions. It is a methodical detection, quantification, recording, reporting and study of components of college environment. It is instigated to evaluate the efforts within the institution in safeguarding the health of the inhabitants and the environment.

Aims

- To evaluate the nature and extent of the risk to human health
- To study the ecological practices inside and outside the college campus
- To estimate the effect of pollutants honestly or circuitously on the environment
- To advise measures to control the risk of damage to human health or the atmosphere.

Objectives

- To promote environmental management and conservation
- To ensure compliance with policies and the requirements of Environmental Management System
- To ensure compliance with laws, regulations and standards
- To enable environmental problems and risks to be anticipated.
- To ensure the Institution's environmental performance meet with the goals set in environmental policy.
- To Safeguard humans and all ecosystems
- To Minimise any environmental problem on a local, regional, and national level
- To upgrade the environmental condition in and around institutions colleges and others.
- To identify bio diversity in the campus

Methodology

A baseline survey of the flora and fauna of the college campus was conducted. The total area of the college campus is 4.20 acres. The study was conducted between August 15, 2023 and September 14, 2023. Batches of 10 students were assigned with the audit and the entire area was surveyed and the bionetwork of the campus was identified. Data were recorded on tabular sheets supplied to them.

S.No.	Scientific Name of Plant	Local Name	Family	Habit/T/S/H/C	Uses	Nos
1	Mangifera indica	Mango	Anacardiaceae	T	Timber	12
2	Terminalia arjuna	Arjuna tree	Combretaceae	T	Timber	11
3	Melia azedarach	Chinna berry	Miliaceae	T	Timber	12
4	Shorea robusta	Sal	Dipterocarpaceae	T	Timber	7
5	Morus alba	Mulberry	Moraceae	T	Timber	8
6	Tecoma stans	Suvama ganneru	Bignoniaceae	T	Ornamental	1
7	Codiaeum variegatum	Multicolour Croton	Euphorbiaceae	H	Ornamental	20
8	Dalbergia sisso	Red wood	Fabaceae	T	Timber	6
9	Juglans regia	Walnut	Juglandaceae	T	Timber	5
10	Tectona ITTandis	Teak	Verbenaceae	T	Timber	20
11	Leucaena leucocephala	Subabul	Mimosaceae	T	Avenue	2
12	Acalypha hispida	Chenille plant	Euphorbiaceae	S	Ornamental	1
13	Tectona grandis	Teak	Verbenaceae	T	Timber	5
14	Delonix regia	Flame tree	Caesalpinaceae	T	Timber	5
15	Quercus Leucotrichophora	Ban oak	Fagaceae	T	Timber	5
16	Pistacia chinensis	Kakkar	Anacardiaceae	T	Timber	3
17	Eucalyptus tereticornis	Blue gum	Myrtaceae	T	Timber	2
18	Platanus orientalis	Chinar	Platanaceae	T	Timber	4
19	Artocarpus hispidus	Aangili	Moraceae	T	Timber	5
20	Anogeissus latifolia	Axiewood	Combretaceae	T	Timber	6
21	Acacia nilotica sub	Babul	Fabaceae	T	Timber	6
22	Ficus benghalensis	Banyan	Ficaceae	T	Timber	7
23	Lagerstomia	Benteak	Lythraceae	T	Timber	8
24	Pterocarpus parviflora	Bijasal	Fabaceae	T	Timber	8
25	Casuarina	Casuarina	Casuarinaceae	T	Timber	5

26	Causuarina Equisetifolia	Causurina	Causurinaceae	T	Timber	2
27	Roystonea regia	Royal Palm	Areaceae	T	Ornamental	4
28	Borassus Flabellifer	Tadichettu	Areaceae	T	Timber	20
29	Coccinia Cordifolia	Donda	Cucurbitaceae	H	Edible	5
30	Delonix regia	Turai chettu	Caesalpiniaceae	T	Social forestry	4
31	Pongamia pinnata	Kanuga Chettu	Fabaceae	T	Medicinal	10
32	Bahimia vahaly	Adaku	Fabaceae	T	Avenue	3
33	Albizia procera	Karoi Tree	Fabaceae	T	Avenue	20
34	Saraka Indica	Ashoka	Caesalpinaceae	T	Avenue	20
35	Zinnia Elegans	Zinnia	Asteraceae	S	Ornamental	2
36	Cassia fistula	Rella	Caesalpinaceae	T	Avenue	3
37	Embllica officinalis	Usiri	Euphorbiaceae	T	Medicinal	4

List of the Audited Medicinal Plants in and around the campus

S. No.	Scientific Name of Plant	Local Name	Family	Habit/ T/S/H/C	Uses	Nos
1	<i>Azadirachta indica</i>	Vepa	Meliaceae	T	Medicinal	20
2	<i>Aloe vera</i>	KALABANDA	LILLIACEAE	S	Medicinal	20
3	<i>Calatropis procera</i>	TELLA JILLEDU	AsCLIPEDIACEAE	S	Medicinal	10
	<i>Oscimum sanctum</i>	Krishna TuLASI	LAMIACEAE	S	Medicinal	15
	<i>Datura metel</i>	Uramentha	Solanaceae	S	Medicinal	5
	<i>Ricinus communis</i>	Castor	Euphorbiaceae	S	Medicinal	5
	<i>Phyllanthus acidus</i>	Nelavusuri	Euphorbiaceae	H	Medicinal	2
8	<i>Muraya koengii</i>	Curryleaves	Rutaceae	T	Medicinal	10
9	<i>Terminalia catappa</i>	Almond	Combretaceae	T	Medicinal	4
10	<i>Solanum nigrum</i>	Kamanchi	Solanaceae	S	Medicinal	10
11	<i>Cleome viscosa</i>	Kukkavaminta	Capparidaceae	H	Medicinal	10
12	<i>Achyranthus aspera</i>	Uttareni	Amaranthaceae	H	Medicinal	10
13	<i>Acalypha indica</i>	Muripinda	Euphorbiaceae	H	Medicinal	50
14	<i>Sida acuta</i>	Chilakathotakura	Malvaceae	H	Medicinal	20
15	<i>Aerva lanata</i>	Kondapindaku	Amaranthaceae	H	Medicinal	50
16	<i>Phyllanthus niruri</i>	Nelavusuri	Euphorbiaceae	H	Medicinal	50
	<i>Momordica charantia</i>	Kakara	Cucurbitaceae	S	Medicinal	3
	<i>Bryophyllum pinnatum</i>	Ranapala	Crassulaceae	H	Medicinal	10
19	<i>Syzygium cumini</i>	Neredu	Myrtaceae	T	Medicinal	16
20	<i>Mimosa pudica</i>	Attipatti	Mimosaceae	H	Medicinal	20

K.R. M. W
I.A.A.C
Coordinator



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The Green audit was conducted in the college and around 60 species of flora and 36 species of fauna are identified. The diversity of trees in the college campus is considerably privileged. The campus has an extensive diversity of garden plants and orchids. The floral diversity of the campus is moderately better as the campus has native and striking plant species. A designed endeavor has been launched to green each nook and corner of the campus to develop variety at all levels. However, the floral diversity can be enhanced by toting up more indigenous species, and creating themed gardens in the green areas of the campus to make it an aesthetic and enlightening nucleus of the college. The college has its own botanical garden. All these are part of the college authority's effort to educate students and public about various floras and their importance in our daily lives. This is a great effort of the college and it can be enhanced by planting native trees and shrubs in these gardens. Thematic gardens comprise nectarine flowering plants for butterflies, fruit trees for birds and insects and a vegetable garden. It also fosters a protecting approach in students as well.

CONCLUSION AND RECOMMENDATIONS

Green audit was completed and data collection was done systematically to assist calculation of biodiversity pointers. In terms of fauna also the analysis is concluded. Conversely, the fundamental perceptive of the biodiversity in the campus of V.S.R. Government Degree & P.G. College, Movva college, is achieved through this survey. Alternatively, it improves the knowledge and skills of the students and their passion for environment too.

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