



SJM Vidyapeetha (R.) Chitradurga

SJM COLLEGE OF ARTS, SCIENCE & COMMERCE,

Chandravalli, Chitradurga

Affiliated to Davanagere University, Davanagere

NAAC Accredited with "A" Grade with CGPA 3.05

PROJECT WORK ON

GREEN AND ENVIRONMENT AUDIT

2022-23



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Sri Jagadguru Murugharajendra College of Arts, Science & Commerce CHITRADURGA

Executive Summary

Eco friendly green campus is a concept implemented in many educational institutions, Sustainable because their mass resource utilization and waste discharge in to the environment. Waste minimization plans for educational Institute are now essential do maintain the cleanliness campus. It is necessary to conduct the Green audit in the campus to find out the environmental performance and to analyze the possible solution for converting the college campus as eco-friendly campus. This audit was mainly focused on greening indicators. Flora was documented with the help of relevant literature. Collected data was tabulated and analyzed. Finally recommendations were given to improve the lacunae in the campus.

NEED FOR GREEN AND ENVIRONMENT AUDIT

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this front it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric carbon-di-oxide from the environment.

BENEFITS OF GREEN AND ENVIRONMENT AUDIT

If green audit is enforced in an effective way then there are many advantages that could be adopted from it.

- ➢ It would help to shield the environment.
- Recognize the cost saving methods through waste minimizing and managing.
- > Empower the organizations to frame a better environmental performance.
- > Enhance the alertness for environmental guidelines and duties.

In view of this our institution has constituted an internal committee and also invited an external team for auditing the campus environment. Target areas included in this green auditing are water, soil, energy, waste and green campus. The observations made by the team are as follows.

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About the College



S. J.M College of Arts, Science, and Commerce, Chandravalli, Chitradurga.

Sri Jagadguru Murugharajendra College of Arts, science and commence (SJMC), Chitradurga was popularly known as SJM college of Arts. Science and commerce, Chitradurga was established On 1st June 1969 managed by S.J.M. vidyapeetha (R) which was established in 1966.

It is one of the premier colleges established to impart and provide in the field of higher education for the deserving candidates and milestone in the part of progress.

The College is at present affiliated with Davanagere University, Davanagere. Formerly affiliated with Kuvempu University, Shivamogga and it is recognized by the University grants commission (UGC) Under Section 2(f) and 12(B) on 31st March 1971 under Act 1956. It is re-accredited by national Assessment and accreditation council (NAAC) with "A" grade (CGPA score 3.05 on a 4 Point scale in 3rd cycle) on 28th, march 2017.

Sri Jagadguru Murugharajendra Colleges of Arts, Science, and commerce (S.J.M) is one of the reputed institutions which is well administered and offered good infrastructure, facilities and excellent academic activities in Chitradurga which is in the state Karnataka and this college excels not only in academic activities but also in and in Extra-curricular activities and in Sports too.

The College Strives to produce intellectually competent, morally upright and strong, compassionately committed, spiritually inspired and nationally dedicated men and women.

At present, the college is situated in a splendid place called Chandravalli, which has a panoramic View of mountains, greeneries, caves and historically significant Chandravalli Tank on Holalkere Road in outskirts of the city. The College is built on a land of 10 acres with all necessary infrastructures. The College offers three to four years undergraduate courses in BA ,BSc, and B.com.

College Location on Google Map



INTRODUCTION



The term "green" means Eco-friendly Environment- It can be acronymically called as "global Readiness in Ensuring Ecological Neutrality" (green). Green accounting can be defined as systematic identification quantification, recording, reporting and analysis of components of ecological diversity and expressing the same in financial or social terms.

A Committee has been formed to monitor the Proper conservation and plantation of the plants in the Campus. This responsibility has been given to the staff members Botany, Zoology, Physics, Mathematics and Chemistry departments of the college with cooperation of Principal, and green Audit committee. The green audit report has been discussed with green audit committee of the college with suggestions to increase greenery in campus, extra efforts have been taken by the college to create environment consciousness amongst students. One major step in this regard is the environmental awareness and plantation program organized by NSS, NCC, Rovers and Rangers. Red cross youth wing and green audit committee. Plantation encouraged by the Principal and Departments Faculty members to increase greenery. Extension programs like environmental day, world wetland day 'Vanamahotsava' also organized to create, environment awareness and conservation of Biodiversity.

Objectives of the Green Audit Committee

- ➤ Identifying problems: Detecting problems and providing the Solutions.
- Documenting the plant and Animal species in the campus.
- Measuring Environmental impact: measuring environmental impact of each and every activity in the Campus.
- Confirming Environmental management System effectiveness: giving an indication of the effectiveness of the system and suggestions for improvement.

METHODOLOGY ADOPTED

The methodology adopted to conduct the green audit of the Institution and the following Components.

1. Field visit was conducted by the green Audit Team and Students

The key focus of the visit was on assessing Status of the green cover of their institution, their waste management practices and energy conservation Strategies etc. The Survey is done the scientific manner as prescribed by the Standard procedures.

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2. Focus Group Discussion:



The focus group discussions were held with the Science Staff members and the governing Body members focusing various aspects of Green Audit the discussion was focused on identifying the attitudes and awareness towards environmental issues at the institutional and local level. With the help of teachers and students, the audit team has assessed the diversity of plant generation, disposal and treatment facilities of the college.

3. Solid waste can be divided into Categories

Bio-degradable non bio-degradable. Bio-degradable wastes include food wastes, wastes from toilets etc. non-biodegradable wastes include what is usually thrown away in college Such as plastic, tins and glass bottles etc.

UN scientific management of these wastes such as dumping in pits or burning them may cause harmful discharge of contaminants into soil and water Supplies, and produce greenhouse gases contributing to global Climate Change respectively. Special attentions should be given to the handling and management of hazardous waste generated in the college, especially chemical wastes generated from Chemistry, Botany and Zoology Laboratories.

GREEN AUDIT REPORT

AUDITING FOR WATER MANAGEMENT

Water sources of the college are bore well and the water supplied by municipality. Municipality water is stored in a sump. The analysis of this water will be carried out to confirm that water is suitable for drinking and general usage. For daily consumption, water is stored in the overhead tanks. An RO plant is installed for drinking water.

SL.NO	PARTICULARS	CAPACITY
1	Bore well two	250 feet depth
2	Sump	5000 liters
3	Overhead Tank	1000+5000 =6000 liters
4	Rain water for distilled water tanks	1000 liters
5	R O filter Tank	500 liters
6	Water usage per day	10000 liters

WATER STORAGE CAPACITY

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BORE WELL



OVER HEAD TANK



RO PLANT





RAIN WATER HARWESTING



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WATER ANALYSIS

SL.NO	TEST	BOREWELL	RO WATER
		WATER	
01	РН	7.94	8.04
02	CONDUCTANCE	651	36
03	ODOUR	AGREEABLE	AGREEABLE
04	TASTE	-	-
05	COLOUR	01	<1
06	TURBIDITY	< 0.5	< 0.5
07	TDS mg/l	385	21
08	ALKALINITY AS CaCo3 mg/l	140	8.0
09	TOTAL HARDNESS AS CaCo3	160.1	6.7
	mg/l		
10	CALCIUM mg/l	36.8	1.6
11	MAGNESIUM mg/l	16.5	0.9
12	CHLORIDE mg/l	63.9	4.0
13	SULPHATE mg/l	12.8	0.7
14	FLUORIDE mg/l	0.93	< 0.1
15	NITRATE mg/l	3.5	0.8
16	IRON mg/l	0.13	< 0.1





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COLL

CHITE ADORG

SOIL ANALYSIS

			Calle
SL.NO	PARTICULARS	TEST VALUES	RATING
1	P ^H	7.25	Neutral
2	EC	0.35b dS/m	Medium
3	Organic Carbon	0.42%	low
4	Available Nitrogen	0.212 kg/ha	Medium
5	Available Phosphorus	28.36 kg/ha	High
6	Available Potassium	129.36 kg/ha	High
7	Available Sulphur	12.4 ppm	Medium
8	Available Zinc	0.58 ppm	Medium
9	Available Boron	0.4 ppm	Medium
10	Available Iron	3.9 ppm	low
11	Available Manganese	2.1 ppm	Medium
12	Available Copper	0.2 ppm	Medium



Waste water management:

- 1. 1. Rain water from the roof top is collected in the sump and this water is utilized for laboratories and watering the plants.
- 2. The waste water from R O plant is used for plants and excess water is drained out.
- 3. Waste water from washrooms and laboratories are directed to the soak pit through proper drainage system.
- 4. Water recycling system is not yet adopted in the college.

AUDITING FOR WASTE MANAGEMENT

To manage solid waste, separate dustbins for degradable and non-degradable waste are installed at different places in the campus. Non degradable waste is collected by the municipality vehicle. The degradable waste along with other plant

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waste will be disposed in the compost pit. The manure obtained from the composition pit is used as fertilizer.

E-waste will be sold to scrap buyers with the permission of Principal and college governing body. The campus is a plastic free zone due to the constant awareness created by the faculty among the students regarding the harmful effects of dumping plastic in the environment. Chemical wastes from the laboratories are neutralized with water.



ROOF TOP SOLAR PANELS

Roof top solar panels are installed in the college building.



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AUDIT FOR CARBON FOOT PRINT



Presence of lichens in college campus – Lichens as an indicator of pollution free zone air quality indicator species are organisms that provide information on the condition of their environment. Lichens are one such example,

What are lichens?

Lichens are organisms consisting of a symbiotic relationship between a fungus and a chlorophyll-containing partner, either algae or cyanobacteria. Fungi are incapable of photosynthesis as they do not possess chlorophyll, but algae and cyanobacteria do. By forming a symbiotic relationship, the fungus gains constant access to nourishment, and can thus thrive. Lichens are found in both nature and in human-made environments, including rocks, trees, barren earth, metal and concrete. They are sensitive to air pollution because they receive all nutrients from the atmosphere, which makes them valuable as indicator species. In particular, the two pollutants that mostly affect lichens are nitrogen (N) and sulfur dioxide (SO2).

Pollution Indicators - Lichens



ANALYSIS REPORT OF AMBIENT AIR QUALITY

SL.NO	PARAMETERS	RESULT
01	Particulate Matter PM ₁₀	72.06
02	Sulphur Dioxide as SO ₂	4.02
03	Oxides of Nitrogen as NO ₂	11.50

As most of the students are from rural areas, they use public transport on a daily basis. Less than 10% of the students use two wheelers and very rarely do faculty members use four wheelers.

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AMBIENT NOISE LEVEL MONITORING REPORT

SL.NO	SAMPLE LOCATION	TIME FREQUENCY	RESULTS [avg.in
			dB(A)Leq]
01	In front of Principal	11.20am to 11.40am	58.2
	Room		
02	In front of ICP Room	11.55am to 12.15am	56.7
	In front of Class Room	12.40pm to 01.00pm	59.9

Considering the above parameters the campus can be declared as a near carbon free zone.



GREEN CAMPUS

The College campus is enriched with a variety of plants. The premises are enriched by greenery of various plant species. The plants are seen in the corridor, along the building walls, border area of the playground and in the botanical garden. Several types of plant species are available in the campus including both wild and cultivated. Each species is represented by varied number of individuals. Common wild plants, Fruit trees, Ornamental plants, Medicinal plants are cultivated in the botanical garden for field study and also for practical purpose. Following are the identified list of plant species available in the college campus



Carranna +

LIST OF PLANTS IN THE CAMPUS

Total no of plant species identified-66

Total no of trees in the campus-352

S	FAMIL	SCIEN	COMM	DEN	
L	Y	TIFIC	ON	SIT	MEDICINAL USES
•		NAME	NAME	Y	
Ν					
0					
01.	Acantha	1.Justic	Malabar	01	Primarily used as a treatment of issues related to
	ceae	ia	nut		the respiratory system. It treats conditions of
		adhato			excessive cough and improves breathing in
		da			patients affected by coryza and dyspnoea. It is
					effective in reducing cough and clears
00		1 14	N	01	congestion in the chest.
02.	Annacar	1.Mang	Mango	01	primarily used as a treatment of issues related to
	diaceae	ifera			the respiratory system. It treats conditions of
		inaica			excessive cough and improves breatning in
					patients affected by coryza and dysphoea. It is
					concertion in the chest
02	Annona	1 1 1 1 1 1 1 1	Custurd	02	Append squamesa is a lowland tropical shrub
03.	Alliona	1.Anno	appla	02	that possesses a high pharmacoutical potential
	ceae	nu sauam	appie		for treating cardiac ailments, thyroid-related
		osa			disorders diabetes and cancer
04	Apocyn	1 Casc	Lucky	01	Although poisonous if consumed by itself C
01.	aceae	ahela	bean	01	the vetia is considered effective in preparations
		theveti			for eve infections, as well as for fever, leprosy.
		a			and hemorrhoids. Bark: Bark preparations are
					used for fevers, burns, ringworm, and rashes.
		2.Neriu	Nerium	02	Despite the danger, oleander is of great
		m			medicinal importance and used for heart
		oleand			conditions, asthma, epilepsy, cancer, painful
		er			menstrual periods, leprosy, malaria, ringworm,
					indigestion, and venereal disease; and to cause
					abortions, as well as drugs derived from this
					plant, is used in treatment of cancer

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					Contraction
05.	Arecace ae	1.Arch ontoph oenix alexan dere	King palmtree	02	The Alexandra Palm is grown for its stately habit and is planted in tropical gardens or along water courses singularly or in groups. It is suitable for coastal and low-mountain regions, establishing in 3 to 5 years and is also used for riverbank binding.
		2.Coco s nucifer a	Coconut	03	Industry is using the husk fiber from the pith as raw material for carpets, car seat stuffing, and in agricultural as fertilizers. The hard core is used to make handcrafts. The stalk and leaves of the coconut tree are useful in construction, and sugar, vinegar, and alcohol can be extracted from the inflorescence
06.	Bignona ceae	1.Teco ma stans	Yellow elder	01	Pharmacologically Tecoma stans flower is traditionally used for many ailments including cancer, diabetes and arthritis. Tecoma stans, also shows antioxidant, wound healing, antispasmodic, antiproliferative, anti- inflammatory, antimicrobial, antifungal and cytotoxic properties.
07.	Casuari naceae	1.Casu arina equistif olia	Australia n pine tree	02	Medicinal (The bark is used to treat dysentery and diarrhoea. The twigs are used for swelling and as a wash for beri beri.) Timber & Products (The wood of this tree is extremely hard and dense, and has been used for construction of stilts, poles and fences in coastal areas.
08.	Cambre taceae	1.Term inalia catapp a	Indian almond	04	The oil is employed medicinally as a substitute for true almond oil to relieve abdominal inflammations, and, cooked with the leaves, in treating leprosy, scabies and other skin diseases. The flesh of the fruit is also edible, but is often fibrous and not tasty in spite of the pleasant smell.
		2.Term inalia arjuna	Arjun tree	05	Its bark decoction is being used in the Indian subcontinent for anginal pain, hypertension, congestive heart failure, and dyslipidemia, based on the observations of ancient physicians for centuries.
09.	Cucurbi taceae	1.Diplo cyclos	Striped cucumbe	01	Traditionally, this plant has been used in the folk medicine and possesses several activities such as
					13 Dororehi &

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					COLLEGE COLLEGE
		palmat us	r		gynaecological, anti-asthmatic, anti-convulsant anti-venom, anti-inflammatory, androgenic and antioxidant
10.	Cupress aceae	1.Cupr essus lusitani ca	Mexican cypress	19	The essential oil from the leaves of C. lusitanica is commonly used to treat haemorrhoids, rheumatism, whooping cough and styptic problems . The leaves of C. lusitanica are used traditionally to protect stored grains from insect infestation and also to cure skin diseases.
11.	Cycada ceae	1.Cyca s rajberg i	Cycas	03	The male cones of the plant are used in Ayurvedic medicine as a cure for rheumatoid arthritis and muscle pains. This cycad, due to its demand for medicinal purposes, and consequent reduction in living populations, is now an endangered species.
12.	Fabacea e	1.Albizi a chinens is	Chocolat e heart	17	It can be used as a fodder tree, its leaves being readily eaten by goats, though the bark of branchlets remains untouched, possibly because of its high saponin content. A showy tree, Chinese albizia is used as an ornamental in parks and avenues. It is helpful for slope stabilization and soil improvement.
		2.Albizi a julibris sin	Silk tree	38	Albizia julibrissin Durazz., a leguminous deciduous shrub, is one of the most common herbs used for depression treatment. In TCM practice, its dried flowers or bark are generally processed for medicinal purposes. The main ingredients in A. julibrissin include triterpenoids, lignans, flavonoids, saponins, sterols, etc.
		3.Albizi a lebbeck	Women' s tongue	01	Albizia lebbeck, a flora of the family Mimosaceae, is a deciduous woody tree which is traditionally used for treating asthma, colds, coughs, and other allergic diseases
		4.Bouh inia farficat a	Brazilian orchid	02	Ethnopharmacological relevance: Bauhinia forficata Link, commonly known as "cow's paw", is a native plant from South America. Its leaves are widely used in Brazilian folk medicine to treat diabetes and cardiovascular disorders.
		5.Cerat	Carob	02	Carob is also being considered as a treatment for

onia siliqua cervical and lung cancers due to its antioxidant activity. Anti-fungal and antibacterial activity. A powder made from Carob pods and seeds are used as an anti-fungal, antibacterial agent in treating wounds and other skin disorders. 6.Dalb ergia Indian rosewoo 03 It is used to treat sore throats, dysentery, syphilis, bronchitis, inflammations, infections, hernia, skin diseases, and gonorrhea. 7.Dichr Omubam 01 cinerea is traditionally used in the treatment of rheumatism, diabetes, coughs, asthma, kidney disorders, gonorrhea, syphilis, malaria, tuberculosis, epilepsy, snake bites, pains, wounds, boils, burns, toothache, headache, and scabies. 8.Enta da Splinter been 01 It is traditionally used to treat coughs, rheumatism, diabetes coughs, asthma, kidney disorders, gonorrhea. 0.byssin ica Splinter been 01 It is traditionally used to treat coughs, rheumatism, bronchitis, abdominal pains, diarrhoea and fever and to prevent miscarriage . Some pharmacological properties of E. abyssinica have been previously reported, including anti-inflammatory, antimicrobial and antioxidant 9.Leuc aena leucoce phala 05 Leucaena is valuable for its wood, which is used to make good quality charcoal, small furniture and paper pulp. Its young shoots, young leaves and seeds may be used as a vegetable in human nutrition. Seeds can also be used as a substitute of coffee or as pieces of jewellery				and canter a Domes
onia siliquacervical and lung cancers due to its antioxidant activity. Anti-fungal and antibacterial activity. A powder made from Carob pods and seeds are used as an anti-fungal, antibacterial agent in treating wounds and other skin disorders.6.Dalb ergia rosewooIndian rosewoo03It is used to treat sore throats, dysentery, syphilis, bronchitis, inflammations, infections, hernia, skin diseases, and gonorrhea.7.Dichr ostachy s s cinereaOmubam baniabe01cinerea is traditionally used in the treatment of rheumatism, diabetes, coughs, asthma, kidney disorders, gonorrhea, syphilis, malaria, tuberculosis, epilepsy, snake bites, pains, wounds, boils, burns, toothache, headache, and scabies.8.Enta da obyssin icaSplinter been01It is traditionally used to treat coughs, rheumatism, bronchitis, abdominal pains, diarrhoea and fever and to prevent miscarriage . Some pharmacological properties of E. abyssinica have been previously reported, including anti-inflammatory, antimicrobial and antioxidant9.Leuc phalaDumbay05Leucaena is valuable for its wood, which is used to coffee or as pieces of jewellery		<u> </u>		Clandal
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7.Dichr ostachy sOmubam baniabe01cinerea is traditionally used in the treatment of rheumatism, diabetes, coughs, asthma, kidney disorders, gonorrhea, syphilis, malaria, tuberculosis, epilepsy, snake bites, pains, wounds, boils, burns, toothache, headache, and scabies.8.Enta da obyssinSplinter been01It is traditionally used to treat coughs, rheumatism, bronchitis, abdominal pains, diarrhoea and fever and to prevent miscarriage . Some pharmacological properties of E. abyssinica have been previously reported, including anti-inflammatory, antimicrobial and antioxidant9.Leuc aena leucoce phalaDumbay and seeds may be used as a vegetable in human nutrition. Seeds can also be used as a substitute of coffee or as pieces of jewellery	sisso	d		hernia, skin diseases, and gonorrhea.
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cinereatuberculosis, epilepsy, snake bites, pains, wounds, boils, burns, toothache, headache, and scabies.8.Enta da obyssinSplinter been01It is traditionally used to treat coughs, rheumatism, bronchitis, abdominal pains, diarrhoea and fever and to prevent miscarriage . Some pharmacological properties of E. abyssinica have been previously reported, including anti-inflammatory, antimicrobial and antioxidant9.Leuc aena leucoce phalaDumbay and seeds may be used as a vegetable in human nutrition. Seeds can also be used as a substitute of coffee or as pieces of jewellery	S			disorders, gonorrhea, syphilis, malaria,
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8.Enta da obyssin icaSplinter been01It is traditionally used to treat coughs, rheumatism, bronchitis, abdominal pains, diarrhoea and fever and to prevent miscarriage . Some pharmacological properties of E. abyssinica have been previously reported, including anti-inflammatory, antimicrobial and antioxidant9.Leuc aena leucoce phalaDumbay aena leucoce of coffee or as pieces of jewellery				wounds, boils, burns, toothache, headache, and
8.Enta daSplinter been01It is traditionally used to treat coughs, rheumatism, bronchitis, abdominal pains, diarrhoea and fever and to prevent miscarriage . Some pharmacological properties of E. abyssinica have been previously reported, including anti-inflammatory, antimicrobial and antioxidant9.Leuc aena leucoce phalaDumbay aena been05Leucaena is valuable for its wood, which is used to make good quality charcoal, small furniture and seeds may be used as a vegetable in human nutrition. Seeds can also be used as a substitute of coffee or as pieces of jewellery				scabies.
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icaSome pharmacological properties of E. abyssinica have been previously reported, including anti-inflammatory, antimicrobial and antioxidant9.LeucDumbay05Leucaena is valuable for its wood, which is used to make good quality charcoal, small furniture and paper pulp. Its young shoots, young leaves and seeds may be used as a vegetable in human nutrition. Seeds can also be used as a substitute of coffee or as pieces of jewellery	obyssin			diarrhoea and fever and to prevent miscarriage.
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aena leucoce phalabuildybuildybuildybuild buildaena leucoce phalato make good quality charcoal, small furniture and paper pulp. Its young shoots, young leaves and seeds may be used as a vegetable in human nutrition. Seeds can also be used as a substitute of coffee or as pieces of jewellery	9.Leuc	Dumbay	05	Leucaena is valuable for its wood, which is used
leucoce phalaand paper pulp. Its young shoots, young leaves and seeds may be used as a vegetable in human nutrition. Seeds can also be used as a substitute of coffee or as pieces of jewellery	aena	2 41112		to make good quality charcoal, small furniture
<i>phala</i> <i>phala</i> <i>and seeds may be used as a vegetable in human</i> <i>nutrition. Seeds can also be used as a substitute</i> <i>of coffee or as pieces of jewellery</i>				and paper pulp. Its young shoots, young leaves
nutrition. Seeds can also be used as a substitute of coffee or as pieces of jewellery	phala			and seeds may be used as a vegetable in human
of coffee or as pieces of jewellery				nutrition Seeds can also be used as a substitute
				of coffee or as pieces of jewellery
10 Mac Caviana 101 Machaerium scleroxylon (Pao ferro) of the	10 Mac	Caviana	01	Machaerium sclerovylon (Pao ferro) of the
hagium	haaium	Caviana	01	Esbacese family are used for high-class furniture
sclaror and cabinetwork knife handles wooden jewelry	nueum scleror			and ashinetwork knife handles wooden jewelry
<i>Scierox</i> <i>lor</i> <i>lor</i> <i>and</i> musical instruments can cause contact	lon			and musical instruments can cause contact
and musical mist unients can cause contact				and musical mistruments can cause contact
11 Mill Indian 10 ninnata (I.) Danigrahi flower is used for the		Indian	10	definations.
11.//111 Indian 10 primata (L.) Faingrain nower is used for the		haab	10	pinnata (L.) Panigrani nower is used for the
<i>ettia</i> beech treatment of plies as well as bleeding disorders.		beech		treatment of piles as well as bleeding disorders.
<i>pinnata</i> Its fruits are meant for the treatment of	pinnata			Its fruits are meant for the treatment of
abdominal ulcer and tumor. The leaf juice is				abdominal ulcer and tumor. The leaf juice is
meant for the treatment of cough, colds, leprosy,				meant for the treatment of cough, colds, leprosy,
diarrhoea.			<u> </u>	diarrhoea.
12.Par Tree 01 Traditional uses of Parkia timoriana by the Lotha	12. <i>Par</i>	Tree	01	Traditional uses of Parkia timoriana by the Lotha
tmorehu- 2/1				tomen - la

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					COLL&COLLACON
		kia	bean		community of Wokha. Parkia timoriana has been
		timoria			realized as a multipurpose tree species, with all
		na			of its parts used such as pods, dried or fresh
					seeds, leaf shoots and flowers, leaves, bark and
					timber, and usage is increasing in recent years.
		13. <i>Pro</i>	Honey	02	glandulosa has been used for a variety of
		sopis	mesquite		medicinal purposes, including lice control and
		glandul			treatment of sore throat, skin sores and ulcers.
		osa			Reported to be a collyrium, emetic and laxative,
					P. glandulosa is a folk remedy for dyspepsia,
					eruptions, hernias and skin and umbilical
					ailments.
		14. <i>Pro</i>	Mesquite	06	Prosopis is a commercially important plant
		sopis			genus, which has been used since ancient times,
		juliflor			particularly for medicinal purposes.
		a			Traditionally, Paste, gum, and smoke from
					leaves and pods are applied for anticancer,
					antidiabetic, anti-inflammatory, and
					antimicrobial purposes.
		15.Sar	Ashoka	18	Ashoka has been traditionally used in Indian
		aca	tree		Ayurveda as a uterine tonic and has been
		asoca			indicated in menstrual irregularities ESP in
					DUB. Ashoka happens to be a uterine stimulant
					and increases uterine contractions. It also
					stimulates the ovarian tissue.
		16. <i>Tam</i>	Tamarin	08	Tamarindus indica; which is one of the highly
		arindus	d		commercialized medicinal plants is known for its
		indica			potent anti-inflammatory activities. 7, 8 This
					tropical tree has been used to treat inflammation,
					stomach pain, throat pain, and rheumatism in
10	Г	10		01	traditional medicine.
13.	Fagacea	I.Casta	Chinkapi	01	the nuts of many Castanopsis species are edible.
	e	nopsis	n		The trees may be grown for their nuts, but more
					often they are used as forestry or ornamental
		2.0 /	G (01	trees and the nuts are collected opportunistically.
		2.Casta	Sweet	01	I ne iruit (cnestnut) can be roasted and eaten as
		nea	cnestnut		1000. The leaves and bark are used in medicine.
		sativa			European cnestnut contains chemicals called
					tannins and havonoids that might help reduce
					skin swennig and kin bacteria.
					16 PRINCIPAL

				2 montaneous +
	3.Quer cus phellos	Willow oak	01	primarily as an ornamental tree and the wood for pulp and paper production, but also for tameer; it is often marketed as "red oak" wood.
Gentian naceae	1.Anth ocleisl a grandif lora	Forest fever tree	01	The leaves and bark are used to brew a tea to treat malaria, and bark is chewed to treat diarrhoea, and used to treat diabetes, high blood pressure and venereal disease. In the Congo the leaf and leaf ash is used to treat wounds of teats. In Tanzania leaves are used to treat malaria and roots to treat diarrhoea.
Lamiac eae	1.Tecto na grandis	Teak	02	The various parts of the plant have been used traditionally and ethnopharmacologically for the treatment of common cold, headache, in wound healing, bronchitis scabies, as a laxative, diuretic, antidiabetic, anti-inflammatory, antioxidant, lipid disorders, constipation, and diuretic
Mangno liaceae	1. Magno lia grandif lora	Bull bay	02	This plant has been reported to have beneficial effects on several ailments, including high blood pressure, heart disturbances, dyspnea, abdominal discomfort, muscle spasm, infertility, and epilepsy. The bioactive extracts from seeds of M. grandiflora are honokiol and magnolol.
Miliace ae	1.Azadi rachta indica	Neam	13	Neem whole plant is extensively used in Ayurvedic System Medicine for various skin disorders and diabetes. Nature has served this plant with various organic Compounds that are used as insecticides and pesticides.
Morace ae	1.Ficus Belgiu m	Weeping fig	01	its wide variety of chemical constituents, its use in traditional medicine as remedies for many health problems, and its biological activities. The plant has been used traditionally to treat various ailments such as gastric problems, inflammation, and cancer.Reports on the biological activities of the plant are mainly on its crude extracts which have been proven to possess many biological activities. Some of the most interesting therapeutic effects include anticancer, hepatoprotective, hypoglycemic, hypoliplidemie.
	Gentian naceae Lamiac eae Mangno liaceae Miliace ae	3.Quer cus phellosGentian naceae1.Anth ocleisl a grandif loraLamiac eae1.Tecto na grandisMangno liaceae1. Magno lia grandif loraMangno liaceae1. Magno lia grandif loraMiliace ae1.Azadi rachta indicaMorace ae1.Ficus Belgiu m	3. Quer cus phellosWillow oakGentian naceae1. Anth ocleisl a grandif loraForest fever treeLamiac eae1. Tecto na grandisTeak a sinceMangno liaceae1. Magno liacraBull bay hellosMiliace ae1. Azadi rachta indicaNeam figMorace ae1. Ficus Belgiu mWeeping fig	3.Quer cus phellosWillow oak01Gentian naceae1.Anth ocleisl a grandif loraForest fever tree01Lamiac eae1.Tecto na grandisTeak ol02Mangno liaceae1. Magno liaceaeBull bay na grandif lora02Miliace ae1.Azadi nacia grandif naciaNeam fig13Morace ae1.Ficus Belgiu mWeeping fig01

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					and antimicrobial activities.
		2.Ficus	Banyan	03	Banyan is used for the treatment and
		bengha	tree		management of diarrhoea, dysentery, leucorrhea,
		lensis			piles, gum and teeth disorders, lower back and
					rheumatic pain, female infertility, ear problems,
					skin and hair woes, nasal troubles, nausea and
					diabetes.
		3.Ficus	Java fig	01	The plant is well known due to its medicinal
		benjam			potential. Its latex and some fruit extracts are
		ina			used by indigenous communities to treat skin
					disorders, inflammation, piles, vomiting,
					leprosy, malaria, nose-diseases and cancer
					besides the use as a general tonic.
		4.Ficus	Fig plant	01	carica are used in native medicinal system in
		carica			different disorders such as gastrointestinal (colic,
					indigestion, loss of appetite, and diarrhea),
					respiratory (sore throats, cough, and bronchial
					problems), inflammatory, and cardiovascular
					disorders [32, 33]. Fruits of F. carica can be
					eaten fresh or dried or used as jam.
		5.Ficus	Wild	01	Ficus citrifolia is used in the Lucayan
		citrifoli	banyan		Archipelago to treat cancer, gastrointestinal
		a	tree		problems (constipation, worms), circulatory
					issues (heart ailments), dermatological matters,
					and pain (tooth aches).
		6.Ficus	Sacred	02	Ficus religiosa (L.), commonly known as pepal
		religios	fig		belonging to the family Moraceae, is used
		a			traditionally as antiulcer, antibacterial,
					antidiabetic, in the treatment of gonorrhea and
				0.1	skin diseases.
19.	Moring	1.Mori	Drumstic	01	Moringa oleifera plays an important role in
	aceae	nga	k tree		protecting the liver from damage, oxidation and
		oleıfer			toxicity due to the high concentrations of
		a			polyphenols in its leaves and flowers. Moringa
					oleitera oli can also restore liver enzymes to
					normal levels, reducing oxidative stress and
20		1 17 7		01	increasing protein content in the liver.
20.	Myrtace	1.Eucal	Gum	06	Eucalyptus ointments are also used on the nose
	ae	yptus	tree		and chest to relieve congestion. Eucalyptus oil

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		globulu s			helps loosen phlegm, so many people breathers eucalyptus steam to help treat bronchitis, coaghs, and the flu.
		2.Loph ostemo n confert us	Vinegar tree	01	It is useful for urban plantings as it is resistant to pollution, disease, pests, and drought. Vinegartree is an important food source for the larval stages of some butterflies.
		3.Loph ostemo n suvade ns	Swamp box	11	Formerly used as wharf piles particularly with the bark still attached.
		4.Psidi um guajav a	Common gua	03	Psidium guajava has been used in traditional medicine by many cultures throughout Central America, the Caribbean, Africa, and Asia. It is used for inflammation, diabetes, hypertension, caries, wounds, pain relief, fever, diarrhea, rheumatism, lung diseases, and ulcers.
		5.Syzyg ium cumini	Malabar plum	04	The bark is acrid, sweet, digestive, astringent to the bowels, anthelmintic and used for the treatment of sore throat, bronchitis, asthma, thirst, biliousness, dysentery and ulcers. It is also a good blood purifier.
21.	Nyassac eae	1.Nysa sylvatic a	Black tupelo	01	Nysa sylvatica is a species commonly known as the blackgum tree. The bark of this tree was used to treat fevers, cancer, gonorrhea, wounds, urinary tract infections, and intestinal worms.
22.	Passiflo raceae	1.Pasifl ora incarn ata	Purple passion flower	01	The passionflower is also used as a remedy for burns, diarrhea, painful menstruation, hemorrhoids, in neurotic disorders, insomnia, to treat morphine dependence, and can be helpful in convulsions or neuralgia, too. Passiflora incarnata is a source of alkaloids, phenolic compounds, flavonoid, and cyanogenic glycosides.
23.	Phyllant haceae	1.Phyll anthus	The Indian	01	All parts of the plant are used for medicinal purposes, especially the fruit, which has been used in Avurveda as a potent reservents and in
		emblic	guuseber		

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		a	ry		traditional medicine for the treatment of diarrhea, jaundice, and inflammation.
24.	Phytolo caceae	1.Phyto lacca dioica	Pokeberr y tree	01	The fruit has been used as a human emetic and purgative; an infusion of the leaves also acts as a purgative.
25.	Poaceae	1.Dend rocala mus gianteu s	Giant bamboo	03	Dendrocalamus giganteus is very useful for construction, boat mast, bamboo house, water pipes, furniture, paper production and various other uses. While young shoots are used as a vegetable source, the culm sheaths are used to make hats.
26.	Proteac eae	1.Grevi llea robusta	Silky oak	01	Before the advent of aluminium, Grevillea robusta timber was widely used for external window joinery, as it is resistant to wood rot. It has been used in the manufacture of furniture, cabinetry, and fences.
		2.Leuc adendr on argente um	Silver tree	01	Leucadendron argenteum is widely cultivated as an ornamental garden specimen. Its beautiful silver foliage is used in floristry and lasts well in the vase. The leaves have also long been collected, pressed and dried for decoration or as a souvenir.
27.	Rubeac eae	1.Jasmi ne plant	Simply jasmine	01	Jasmine is used on the skin to reduce the amount of breast milk, for skin diseases, and to speed up wound healing. Jasmine is inhaled to improve mood, reduce stress, and reduce food cravings. In foods, jasmine is used to flavor beverages, frozen dairy desserts, candy, baked goods, gelatins, and puddings.
		2.Chin esa ixora	Jungle flame	01	Ixora Chinensis can be used for hypertension. Additionally, it is helpful for the bone marrow. The plant is used to treat abscesses, wounds, rheumatism, and bruises. Further, Ixora Chinensis can be utilised as a resolvent and anodyne.
28.	Rosacea e	1.Prun us amygd alus	Almond	07	Sweet almond oil, prepared by pressing the kernels, is used to make medicine. Sweet almond is used as a mild laxative, and as a remedy for cancer of the bladder, breast, mouth, spleen, and

					COLLACS COLLACS
					uterus. Some people apply sweet almost directly to the skin to soften chapped skin, to soote mucous membranes, and to kill germs.
29.	Rutacea e	1.Aegle marmel os	Bilwa/ba el	01	The leaves are most effective in treating fever, nausea, vomiting, swellings, dysentery, dyspepsia, seminal weakness, and intermittent fever. The roots of bael are thought to be effective in treating urinary problems, preventing heart palpitations, and curing fevers.
		2.Citru s limon	Lemon	01	limon, known since ancient times, has nowadays been supported by numerous scientific studies. Other uses for lemon juice, known from traditional medicine, include treatment of high blood pressure, the common cold, and irregular menstruation. Moreover, the essential oil of C. limon is a known remedy for coughs
		3.Murr aya koenigi i	Curry leaf tree	02	They are used as antihelminthics, analgesics, digestives, and appetizers in Indian cookery. The green leaves of M. koenigii are used in treating piles, inflammation, itching, fresh cuts, dysentery, bruises, and edema. The roots are purgative to some extent.
30.	Simarou baceae	1.Sima rouba glauca	Paradise tree	02	The wood is generally insect resistant and is used in the preparation of quality furniture, toys, matches, and as pulp (in paper making). It also can be used for industrial purposes in the manufacture of biofuel, soaps, detergents, lubricants, varnishes, cosmetics, and pharmaceuticals.
		2.Ailan thus attissi ma	Tree of heaven	08	used in traditional medicines and homeopathy for the treatment of various disorders including gastrointestinal, respiratory, cardiovascular, neurological, and peripheral disorders.
31.	Verbena ceae	1.Dura nta repens	Duranta	100	The extracts from D. repens had antifeedant and insecticide properties against the larvae of Culex pipiens and Spodoptera littoralis and the adults of Musca domestica.
32.	Grosssu lariacea	1.Ribes uva	Europea n	01	The leaves have been used in the treatment of gravel[4]. An infusion taken before the monthly

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e	crispa	goosberr	periods is said to be a useful tonic for growing
		у	girls[4]. The leaves contain tannin and have been
			used as an astringent to treat dysentery and
			wounds

Plant Auditing by Staff and students



SUGGESTIONS AND RECOMMENDATIONS BY THE GREEN AUDIT COMMITICE

- I. Water Conservation
 - The water sources are safe in terms of contamination but try to avoid the wastage of water near the drinking unit.
 - Rain water harvesting tank can satisfy the need of laboratory.
 - The rain water can also be wed as source for drinking water.
 - These should be a proper monitoring of Consumption pattern in the campus.

II Green campus

• It is recommended to plant more indigenous fruit yielding /medicinal plants inside the campus.

III. Waste management

- Steps to be taken to avoid the use of plastic in the campus, and to encourage the use of biodegradable materials as alternatives,
- Try to achieve the goal of plastic free campus.
- Leaf litter from wed campus can be much effectively used for aerobic / Vermi Composting, So that the composted material can also be good manure.
- The Students are taking back the food waste as per the zero waste management strategy of the college. It helped in reducing consumption of water for washing. Although a good practice of managing their own waste

(from lunch box) instead of carrying them back home they can be trained in operating the compost yard by using their Lunch time waste to produce good organic manure.

SL.NO	NAME OF THE	DEPARTMENT	COMMITTEE
	STAFF		
	MEMBER		
01.	Dr. K.C	PRINCIPAL	CHAIRMAN
	RAMESH		
02.	Dr. R.V	IQAC CO-	MEMBER
	HEGADAL	ORDINATOR	
03.	Prof. C.N	HOD. ZOOLOGY	CO-
	VENKATESH		ORDINATOR
04.	Prof. N	HOD. BOTANY	MEMBER
	CHANDAMMA		
05.	Prof. L	HOD. PHYSICS	MEMBER
	SRINIVASA		
06.	Prof. H.M	HOD. CHEMISTRY	MEMBER
	MANJUNATH		
07.	Prof. V.S NALINI	HOD.	MEMBER
		MATHEMATICS	
08.	HEENA	LECTURER IN	MEMBER
	KOUSER.M	BOTANY	
09.	ARPITHA M.P	LECTURER IN	MEMBER
		BOTANY	
10.	TEJAS KUMAR	LECTURER IN	MEMBER
	ACHAAR .N	BOTANY	
11.	TIPANNA .N	SUPERINTENDENT	MEMBER

• COLLEGE LEVEL COMMITTEE FOR GREEN AUDIT

PRINCIPAL

Sri Jagadguru Murugharajendra College of Arts, Science & Commerce CHITRADURGA

STUDENT LIST



SL.NO	STUDENT NAME
01	AYESHA
02	AFSANA BANU
03	AISHWARYA R
04	AMOGHA T
05	ARUN S
06	ASHIYA BANU
07	AYESHA SIDDIQUA G H/E
08	CHADRU NAIK
09	FIRDOSE KHANUM
10	GURUKIRAN S K
11	HAJIRA S
12	HALIMA SADIYA
13	HASEEBA NAZ
14	HUZAIFA BANU
15	K R SANDEEP
16	KANIMESH S
17	KAVYA M J
18	KAVYA N
19	MANASA G P
20	MEGHA T M
21	MOHAMMED MUSTAFA
22	NANDEESH KUMAR J M
23	NANDITHA N
24	NANJUNATHA J
25	NEHA TWASEEN
26	OBALESH B
27	POOJA C S
28	PRAVEEN R
29	RASHMITHA N
30	RAVITEJA L U
31	SHRAVANI M P
32	VENKATESHA G
33	YASHWANTH N
34	ZOYA HASHMI

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