Green Audit Report 2024-25

In recent past, due to the rapid urbanization, economic development and heavy industrialization at different level, led to severe damage to the environment and imbalance of the environment, whichaffected the environment. The consequences of such activities increases the greenhouse gases, increase in temperature, increase in pollution at all levels, reduction in green coverage, reduction in the number of fauna, cumulative effect of above in the imbalance of biodiversity on the earth.

Keeping in mind the present consequences experimenting by the flora and fauna on the earth, it becomes necessary to save the earth and nurture the nature at different level.

S. N. Mor College of Arts, Commerce and Smt. G. D. Saraf Science College Tumsar is deeply concerned and unconditionally believe and soldiering social responsibility that there is an urgent need to address the fundamental issues and reverse the trends at some extents.

The purpose of green audit was to ensure that the practices followed on the campus are in accordance with the green policy adopted by institution.

The methodology included physical inspection of the campus flora and fauna; observation, review, documentation and recommendation.

The green audits includes water conservation, tree plantation, waste management, paperless work, alternate energy, and use of low energy consuming bulbs and tubes.

Keeping in mind, the above mentioned green issues the green audit was started with following objectives.

1. Objective of green audit:

The main objective of green audit is to promote the environment measurement and its conservation on the college campus for sustainable environmental practices by adopting

- a) Identification
- b) Quantification
- c) Documentation
- d) Recommendation



2. Methodology:-

In order to perform the methodology used were -

- i) Physical inspection of campus (Observation)
- ii) Quantification
- iii) Documentation
- iv) Data analysis and measurements
- v) Recommendation

The audit was done on the following area on the college campus-

- > Water management
- > Energy conservation
- > Waste management
- > E-waste management
- > Biodiversity management

> Water management:-

Observations: -The major source of water in the college is the college well; bore well, municipal water connection. The well water is used for toilet, bathroom and gardening. The waste water from RO-water purifier is being used for gardening purpose. The rain water is collected in a container and used as de-ionized water in the laboratories as distilled water. During visit it was observed that no loss of water neither by any leakage nor by overflow of water from overhead tanks. The usage of water has been reduced to the minimum level which includes domestic laboratories drinking purpose and gardening purpose. Rain water harvesting facilities function for recharging ground water table in well.

Recommendation:-

- In campus, small scale reused and recycle of water system be installed.
- Minimize the wastage of water and use of electricity during water filtration process by installing more star rating instruments and undertake regularservicing.

> Energy conservation

Energy sources utilized by the campus are electricity and solar panel. The entire outer campus ground area is installed with solar panel were alternate renewable source of energy is being used. The offices and the principal cabin are equipped with LED lamps and Tube lights. The college



classrooms and halls are installed mainly by florescent tubes; however LED tub lights have been installed in some laboratories and rooms. Computers are set to automatic saving mode when not in used. Every room's electricity power is controlled by separate switches. Peons are deputed for switch on/off the fan and lights of the institution rooms, offices after occupancy time.

Recommendation:-

- Gradual replacement of fluorescenttube lights by installing LED lamp/ LED Tubes.
- More star rating instruments / fan / refrigerator.
- · Timely servicing of fan should be undertaken
- Installation of more number of solar based renewable energy source panels.

> Waste management:-

This parameter includes waste produced like paper, food, plastics, and glass, dust and laboratory hazardous chemicals. Solid waste generation and management is burning issue. Unscientific handling of solid waste and chemical waste can create threat to everyone. The audit focuses on volume, type, current management of solid and liquid waste generated on the campus.

Observation:-

The waste is segregated at sources by providing separate dust bins for dry and wet waste and collected by Municipal Corporation Ghanta Gadi and disposed them by their practices. Paperless communication/correspondence is in practice through what's App and other media sources. The waste generated newspapers, magazines, Very less plastic waste is generated by department, office, garden etc... Hazardous chemical waste collected separately and disposed them on bare land.

Recommendation:-

- Safe disposal of computer and electric appliances waste.
- Use reusable resources and containers.
- Avoid use of plastic on college campus.
- Avoid use of non-degradable plastic wares in the home- economics laboratories, college canteen and other laboratories of the college.
- Use of both sides of papers while printing.
- Educate the students and others to stop the use of non- degradable plastics and plastic wares.



> Biodiversity management:-

Biodiversity includes all the living organisms like plants, animals, fungi, bacteria etc., living on the earth. These organisms shows crucial role in the maintenance of ecological balance as they are living interdependently.

Observation:-

The college is located in the vicinity of peaceful, pollution free area of the town. The forest area starts about 1.5 km from the college which provides fresh air to the college campus. There is botanical cum medicinal plant garden is present in the college. About 56 plants species are present on the college campus (**Appendix-I**).,Tree plantation is observed every year in the college. In the rainy season, plantation drive was observed along with the students, N.S.S., N. C. C. and plantation committee of the college. However, due to heavy summer heat (47°C- 48°C) most of the plants die. Various tree plantation programs are being organized at the college campus and at surrounding villages through N. S. S., N. C. C. These programmes help in encouraging eco-friendly environment which add pure oxygen within the institute and awareness among villagers. The plantation programme includes various types of indigenous species of ornamental and medicinal value plant species in the college medicinal plant garden.

In the college corridor, about 120 potted plants of ornamental value are placed which increase the green coverage inside the building. In the college botanical/medicinal plant gardenplants are named scientifically.

Animals are of great importance in cleaning the atmosphere and maintain the earth ecological balance. On the college campus, animals like Crow, Sparrow, Grasshoppers, Butterfly, Moths, Bugs, Mantis, Dragon fly, Damsel fly, Honey bees etc., are inhabitant on various objects (Annexure-II). Many fungi species are also known to grow on cow dung, dead plant parts, on soil are of great importance, since they are the decomposers.

Various departments of the college organized programme on environmental protection of ozone layer. Awareness programs on various issues related to environment and its protected by various ways (like debate, poster exhibition competition, wild life week celebration etc.) indeed, B. A., B. Sc. and B. Com. IInd year students participated in environmental studies as per the instructions of Hon'ble supreme court of India. These green issues were organized with aim to uncalculated the importance of environment among the students.

Recommendations:-



- Increase the frequency of plantation programme outside the college campus with community.
- Select xerophytic plants species or plants which survive in strong heat/ summer for plantation programme, since the area suffers with extreme hot summer.
- Involve and encourage more and more students in environmental activities like plantation and programme related to environment.

Conclusion:-

Upon observation and analysis, considering the actual facts the following observations/conclusions are noted:-

- > There are significant activities on environmental issues like organization of plantation programs. The college is located in pollution free zone
- > The installation of Solar panels (5 nos.) and rain water harvesting system are noteworthy which reduces the extra load on conventional electric energy.
- > There is a good practice of collecting rain water and use as distilled for laboratory work.
- > There is well naturally illuminated and ventilated college buildings, class rooms, hall and laboratories.
- > Many students, about 90% using bicycle to attend college, some by public transport and others by foot.
- > Most of the staff using motor cycles to attend college.

> Overall observation is satisfactory; however there is need to increase the green coverage on the college campus.

Convener Green Audit Committee

Members of Green Audit Committee

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Appendix-I

Sr. No	Scientific Name of plants	Common/ local Name of plant
1.	Abrus precatoriusL.	Gunja
2.	Andrographis paniculata(Burm, f.) Wall	Bhuineemb
3.	Argyreia nervosa(Burm. f.) Bojer	Samudrashok.
4.	Annona reticulataL.	Ramphal
5.	Bauhunia racemoseLam	Bahava
6.	Baliospermum montanum(Willd.) Muell	Danti, Jamaigota, Sapidi
7.	Cassia fistula L.	Bahava
8.	Clerodendrum infortunatumaud. non L	
9.	Emblica officinalisGaertn	Awala
10.	Justicia adhatodal.	Adulsa
11.	Nopalea cochenillifera(L.) SalmDyck	Cactus
12.	Pithecellobium dulce(Roxb.) Bth	Chichbul
13.		Ritha
	Santalum albumL	Chandan
14.		Shehtut, Tut, Tuti
15.		Chitrak
16.		Gokaran
17.		Pisondi
18.		Sag / Sagwan
19.	Ficus benjaminaL.	
		Papal
21.		Amba
23.	7 18 500 3	Lokhandi
24.	Nyctanthes arbor-tristis L	Parijatak
25.	_ T	Shatavari / Marbad
26.	T	Mungana
20.	Syzygium cumini (L.) Skeels	Jambhul
20	Azadirachta indicaA. Juss	Kadunimb
20.	Aegle marmelos(L.) Corr	Bel
29.	Terminalia cuneataRoth	Arjuna
30.	Vitex negundovar. negundoL.	Nirgudi
32.	Bixa orellanaL.	Shendari
32.	Ocimum tenuiflorum L	Tulasi
34	Euphorbia serpensBenth.	
35	Geoderum recurvumAlston	Orchids
36	DaturainoxiaMill	Dhotara
37.	Datura metal L.	Dhotara
38.		Kena
39.	the Description	Kena
	Curculigo orchioidesGaertn.	Kali musali
41.	Hybanthus enneaspermus (L.)F. Muell	
42.	Chlorophytum tuberosum(Roxb.)Baker	Safedmusali
43.	Amorphophallus margaritifer (Roxb.) Kunth	Suran



44.	Hemidesmus indicus (L.) R. Br.	VI
45.	Passiflora foetidaL.	Khobarvel
46.	Tinospora cordifolia (Burm. f.) Merril	Gangurali
47.	Barleria cuspidataHeyne ex Nees	Gulvel
48.	Calotropis gigantea(L.) R. Br	Rui
49.	Alstonia scholaris (L.) R. Br	Satvin
50.	Rauvolfia sepentina(L.) Benth. Ex Kurz.	Sarpgandha
51.	Rauvolfiate traphyllaL.	Sarpgandna
52.	Withania somnifera(L.)Dunal	Aswagandha
53.	Tribulus terrestrisL.	Gokharu (Chota)
54.	Dichrostachys cinera(L.)Wight &Arn.	Shami (Pesudo)
55.	Sauromatum venosumL.	Kevkad
56.		Undirkani

Appendix-II

Sr. N	o Scientific Name of Animal	Common Name of Animal
57	7. Labeorohita	Rohu
58	3. Cirrhinamrigala	Mirgal
59). Catalacatala	Catala
60). Clariusbatracus	Vagur
61	. Ophiocephalusmorulus	Marad
62	. Lizards (Wall)	
63	. Lizards (Garden)	
64	. Ranatrigrina	Frog
65	. Buffo sp.	Tod
66		
67.	Crab	
68.	Grasshopper	
69.	Bugs species	
70.	Dragon fly	
71.	Damsel fly	
72.	Butterfly species	± 1
73.	Moths	
74.	Honey bees	
75.	Himantopushimantopus	Black-Winged Stilt
76.	Tringaglareola	Wood Sandpiper
77.	Charadriusdubius	Little ringed plover
78.	Ardeapurpurea	Purple Heron
79.	Ciconiaboyciana	Oriental stork
80.	Pseudibispapillosa	Black Ibis
81.	Threskiornismelanocephalus	Black Headed Ibis
82.	Merosorientalis	Green Bee-Eater
	Eudynamysscolopacea	Asian Koel



84.		Pied Cuckoo
85.	Falco tinnuculus	CommonIndianKastrel
86.	Grusgrus	Common Crane
87.	Lusciniasvecica	Bluethroat
88.	Luscinialuscinia	Thrush Nightingale
89.	Saxicolatorquata	Common Stone Chat
90.		Chestnut-Tailed Starling
91.		Rosy Starling
92.	Hirundodaurica	Striated Swallow
93.	Ripariariparia	Sand Martin
94.	Hirundorustica	Bran Swallow
95.	Motacilla alba	White Wagtail
96.		WesternYellow Wagtail
97.		Richards Pipit
98.	Laniuscollurio	Red-backed Shrike
99.	Acrocephalusbistrigiceps	Blyths Reed Warbler
	Oriolusoriolus	Eurasian Golden Oriole
101	Phytonmolurus	Ajagar
102	Phytonreticulatus	Ajagar
103	Eryxconicus	Ghonus
104	Eryxjohnii	Dutondya
105	Oligodonarnensis	Kukari
	Lycodonaulicus	Kavdya
107	Colubergrscilism	Chitrang
108	Micropisthodonplumbicolor	Gavtya
109	Xenochropispiscator	Divad
	Elaphae Helena	Taskar
111	Colubermucosus	Dhaman
112	Argyrogenafasciolatus	Dhulnagin
113	Acrochordusgranulatus	Ekeri
114	Boigatrigonata	Manjarya
115	Bungaruscaeruleus	Manyar
	Najanaja	Nag
	Doboiarussellii	Ghonus

