GREEN AUDIT Govt. V.Y.T. P.G. Autonomous College Durg (C.G.)



2015-16





Members of Green Audit Committee

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Introduction:

The term "Green" means eco-friendly or not damaging the environment. This can acronymically is called as "Global Readiness in Ensuring Ecological Neutrality" (GREEN). Green accounting can be defined as systematic identification quantification, recording, reporting & analysis of components of ecological diversity & expressing the same in financial or social terms. "Green Auditing", an umbrella term, is known by another name "Environmental Auditing". There is a provision of green audit in college campus. A committee has been formed to monitor the proper conservation and plantation of the plants in the campus. As per the suggestions made by IQAC, botany department is given the responsibility to do green audit with cooperation of the environmental experts of the state. A report on green audit has been prepared by department of botany Govt .V.Y.T. PG. Autonomous College Durg (C.G.). This college was established in 1958 and accredited with Grade 'A' by NAAC, Bengaluru. Total area of the college main campus is 14 acres, of which 31 percent is covered by herbs, shrubs and trees, including valuable medicinal flora. The plants has been systematically identified by the green audit committee. There are more than 431 plant species were audited. The green audit report has been discussed with environmental experts of Durg and Bhilai 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 extensive plantation program organized by NSS, NCC, garden committee and PG. students of botany department. Plantation is encouraged by principal and faculties of all departments to increase greenery and reduce carbon emission effects. Renovation of the garden at the entrance was done with financial support from Jan Bhagidari Samiti. Existing gardens are also maintained by the garden committee of this college. Extension programs also organized to create environment awareness and conservation of biodiversity amongst the students and public. In this regard extention program was organized at Matri garden Bhilai (a popular public garden of Durg distict, maintend by Bhilai Steel Plant).

Activities organized to create greenery and its conservation at college campus is as follows-

- Plantation of diversified species
- Vegetative propagation
- Uses of medicinal plants
- Identification of plants species

Plantation of diversified species:

To create- green cover, eco-friendly atmosphere, pure oxygen at the college campus, plantation program is organized every year with involving all students, principal, and all departments faculty members. In this session van mahotsav program was organized and about 100 ornamental, avenue, medicinal plant with rare and exotic beautiful trees was planted in botanical garden and other parts of college campus. To keep the greeneries in the campus, we regularly maintain the gardens which are looked after by paid staff under the guidance of garden committee members. Moreover, every year we try to plant new trees. Seasonal flower garden is also a unique feature of this college.

Vegetative propagation:

To learn how to propagate vegetatively the garden vegetation, training program is organized for students every year by expert gardener. Students learned various propagation techniques like cutting, grafting, and gooty.

Uses of medicinal plants:

There are many medicinal plants are planted in college botanical garden. The plants have medicinal value but students don't have knowledge how to use and they can't identify the particular plants, so therefore faculty members of botany department help them to identify with scientific name and give information about medicinal uses of the plants.

Identification of plant species:

There are so many plant species are present at college campus. The faculty member of the botany department audited and identified of various plant species with the help of flora.

List of the Audited plants

S.No.	Scientific Name of Plant	Local Name	Family	Uses	Nos
1	Acacia melanoxylon	Australian acacia	Mimosaceae	Social Forestry	01
2	Albizzia lebbeck	Siris (Black)	Mimosaceae	Avenue Tree, Timber, Skin, Bronchitis	04
3	Alstonia scholaris	Chhatim	Apocynaceae	Avenue Tree, Malaria	27
4	Anthocephalus cadamba	Cadam	Rubiaceae	Avenue Tree, Aesthetic	01
5	Azadiracta indica	Neem	Meliaceae	Avenue Tree, Skin,	15
6	Bauhania variegata	Kachnar	Ceasalpiniaceae	Avenue Tree, Ornamental	01
7	Bixa orellana	Sinduri	Bixaceae	Industrial food color	01
8	Cassia fistula	Amaltas	Ceasalpiniaceae	Avenue Tree, Laxative	27
9	Cassia siamea	Chakundi	Ceasalpiniaceae	Avenue Tree, Ornamental	02
10	Casuarina equisetifolia	Jhau	Cauarinaceae	Social Forestry, Diarrhea	02
11	Cocos nucifera	Narial	Palmaceae	Fruit Edible	01
12	Dalbergia sissoo	Sheesham	Papilionaceae	Avenue Tree, Timber,	31
13	Delonix regia	Gulmohar	Caesalpiniaceae	Avenue Tree, Ornamental	06
14	Emblica officinalis	Amala	Euphorbiaceae	Triphla, Skin, Tannins	02
15	Ficus bengalensis	Bargad	Moraceae	Avenue Tree, Aesthatic	03
16	Jacaranda mimosifolia	Nila Gulmohar	Bignoniaceae	Ornamental	02
17	Leucaena leucocephala	Shubabul	Mimosaceae	Social Forestry, Fodder	14
18	Mangifera indica	Aam	Anacardiaceae	Avenue Tree, Fruit Edible, Timber	03
19	Mimusops elengi	Maulsiri	Sapotaceae	Avenue Tree, Ornamental	02
20	Moringa oleifera	Munaga	Moringaceae	Blood Pressure, Fruit Vegetable	01
21	Nyctanthes arbor- tristis	Harsingar	Oleaceae	Ornamental, Diabetic	01
22	Peltophorum ferrugineum	Copper Pod	Caesalpiniaceae	Avenue Tree, Ornamental, Social Forestry	40
23	Pithecolobium dulce	Ganga Emli	Mimosaceae	Hedge,Fruit Edible	06
24	Plumeria alba	Temple Tree (Champa)	Apocynaceae	Ornamental	05
25	Polyanthia longifolia	Ashok	Annonaceae	Avenue Tree, Ornamental	06

26	Pongamia pinnata	Karanj	Papilionaceae	Avenue, Insecticide, Skin	28
27	Syzygium cuminii	Jamun	Myrtaceae	Avenue, Diabetes, Fruit Edible, Timber	01
28	Tabebuia rosea	Trumpet Tree	Bignoniaceae	Ornamental	01
29	Tabernaemontana coronaria	Chandni	Apocynaceae	Ornamental	02
30	Tamarindus indica	Imli	Caesalpiniaceae	Avenue, Fruit Editable	03
31	Tecoma stans	Yellow Bell	Bignoniaceae	Ornamental	10
32	Tectona grandis	Sagon	Verbenaceae	Furniture Of best Quality	04
33	Thevetia peruviana	Pili Kaner	Apocynaceae	Ornamental, Aesthetic	12
34	Zizyphus jujube	Ber	Rhamnaceae	Fruit Edible, Fodder	04

Medicinal Plants

S.No.	Scientific Name of Plant	Local Name	Family	Uses	Nos
01	Adhatoda vasica	Adusa	Acanthaceae	Espectorent	11
02	Aloe vera	Ghee Kwar	Liliaceae	Fever, Constipation, Piles, Skin, Jaundice, Leprosy	16
03	Andrographis paniculata	Kirayat	Acanthaceae	Fever, Dysentry, Dyspepsia, Stomachic	27
04	Asparagus racemosus	Satawar	Liliaceae	Tonic, Dysentry, Leprosy, T.B., Night Blindness	05
05	Catharanthes roseus	Sada Suhagan	Apocynaceae	Leukemia,Diabetic	22
06	Cymbopogon citrates	Lemon Grass	Poaceae	Bronchitis, Fever, Rheumatism, Leprosy	26
07	Gymnema sylvestre	Gurmar	Asclepiadaceae	Diabetic, Ulcer, Bronchitis, Piles, Snake Bite	11
08	Oscimum sanctum	Tulsi	Lamiaceae	Asthma, Bronchitis, Vomating, Malaria, Ring Worm	14
09	Rauwolfia serpentine	Sarpgandha	Apocynaceae	High Blood Pressure, Sebative, Mental Disorder, Anti Microbial	12
10	Tinospora cordifolia	Giloey	Menispermaceae	Diabetic, Tonic	02
11	Vitis quadriangularis	Harjod	Vitaceae	Joint and Bone Health	02
12	Withania somnifera	Ashwagand ha	Solanaceae	Asthma Bronchitis Arthritis, Rheumatism, Leucoderma	05

Clean Green College Campus At A Glance

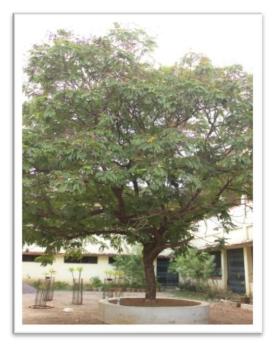


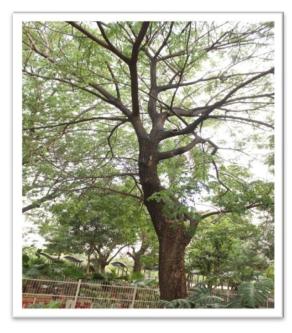


Polyanthia longifolia



Azadiracta indica



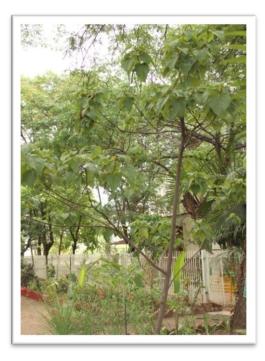


Peltophorum ferrugineum

Albizzia lebbeck



Acacia melanoxylon



Bixa orellana



Polyanthia longifolia



Ficus bengalensis



Bauhania variegata



Anthocephalus cadamba



Tabernaemontana coronaria



Alstonia scholaris





Jacaranda mimosifolia

Dalbergia sissoo



Cassia fistula



Thevetia peruviana



Cymbopogon citratus



Aloe vera



Tinospora cordifolia



Rauwolfia serpentina



Adhatoda vasica



Asparagus racemosus



Vitis quadriangularis

Awareness activity about medicinal plants organized by department of Botany

Date	Activity
12-1-2016	Biotechnology - Visit to botanical garden and significance of medicinal plant
29-7-2015	Physics - Visit to botanical garden and significance of medicinal plant
09-1-2016	Visit to Maitri Garden for awareness about medicinal plants





Photograph of students and faculty members during plantation program of van mahotsav.

Suggestion for Future Development of Green & Clean Campus

- 1. Improve the greenery up to 50% by plantation like trees and medicinal plants in the campus.
- 2. Plantation of water harvesting plants.
- 3. Ecofriendly management.
- 4. Development of medicinal garden.
- 5. Organic farming for the support of nature and environment.
- 6. Development of pollution free zone
- 7. Awareness about cleanliness and maintenance of flora and fauna.