

R. N. College, Hajipur

Vaishali, Bihar- 844101

GREEN AUDIT

(2018-19)



BY

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GREEN AUDIT REPORT 2018-19

PREAMBLE

Vegetational diversity of a region or locality adds valuably to its natural landscape and scenic beauty as also contributes a lot in maintaining a healthy and pleasant atmosphere. This has further got an immense ecological importance in that it promotes ecosystem stability and dynamic equilibrium for a sustainable community of plant populations. Floristic richness has an aesthetic component also as it offers ample recreational pleasure to humans. For an institution of higher education offering undergraduate and post-graduate courses in Botany, campus plantation is an important requirement which provides a variety of live specimens for purposeful studies and observations. Floristic documentation of the campus and its periodical review is an equally important aspect of botanical investigation which confers a quality tag of practical consciousness upon the faculty of the Botany Department

NAAC Accreditation process of the College has necessitated a lot of preparatory exercises in fulfilling the desired level of institutional quality status. Botany Department of the College was assigned the responsibility of carrying out a Green Audit of the campus with a view to updating and enlisting prominent species of shrubs, under trees and trees along with their botanical names, trivial names and taxonomic status. The assigned project was accomplished with collective effort of the faculty members and B. Sc. and M. Sc. students of the Department under the leading supervision of Retired HOD. Dr. Mahesh Roy , Department of Botany and from the year 2021-2022 under the supervision of Dr. Priyanka Chatterjee Assistant Professor Department of Botany.

This detail of species composition of the campus flora is tabulated below:

PLANT SPECIES NAME

TREE

S.No	Botanical Name	English Name	Trivial Name	Family	Numerical Strength
1	<i>Mangifera indica</i>	Mango	Aam	Anacardiaceae	35
2	<i>Saraca asoca</i>	Asoka	Sita Ashoka	Annonaceae	25
3	<i>Feronia elephantu</i>	Elephant apple	Kaith/kaitha	Rutaceae	2
4	<i>Eucalyptus globosus</i>	Eucalyptus tree	Sufeda	Myrtaceae	1
5	<i>Tectona grandis</i>	Teak wood	Sagwan	Verbenaceae	12
6	<i>Emblica officinalis</i>	Emblic myrobalan	Amla	Euphorbiaceae	2
7	<i>Eugenia jambolana</i>	Black berry	Jamun	Myrtaceae	2
8	<i>Dalbergia sissoo</i>	Indian Redwood	Shishoo	Papilionaceae	2
9	<i>Bombax ceiba</i>	Silk cotton tree	Semul	Bombacaceae	3
10	<i>Azadirachta indica syn. Melia</i>	Margosa tree	Neem	Meliaceae	1
11	<i>Delonix regia</i>	Gold Mohur	Gul Mohur	Caesalpinaceae	8
12	<i>Anthocephalus kadamba</i>		Kadamb	Rubiaceae	1
13	<i>Tamarindus indica</i>	Tamarind	Imli	Caesalpinaceae	1
14	<i>Artocarpus integra</i>	Jackfruit	Kathal	Moraceae	1
15	<i>Cassia fistula</i>	Indian laburnum	Amaltas	Caesalpinaceae	3
16	<i>Ficus religiosa</i>	Peepal or Bo-tree	Pipal	Moraceae	1
17	<i>Aegle marmelos</i>	Wood apple	Bel	Rutaceae	2
18	<i>Mduca indica</i>		Mahua	Sapotaceae	1
19	<i>Citrus</i>	Citrus	Nimbu	Rutaceae	1
20	<i>Luma apiculata</i>	Chilean myrtle	luma	Myrtaceae	2
21	<i>Sideroxylon foetidissimum</i>	Barbados-mastic		Sapotaceae	2
22	<i>Dypsis lutescens</i>	Butterfly palm	palm	Arecaceae	2
23	<i>Phoenix roebelenii</i>	Roebelin plam	Palm	Arecaceae	4
24	<i>Diospyros nigra</i>	Chocolate sapote	Black sapote	Ebnaceae	1
25	<i>Brosimum alicastrum</i>	Breadnut	Breadnut	Moraceae	1
26	<i>Toona ciliata</i>	Red Cedar	Cedar	Meliaceae	1
27	<i>Swietenia mahagoni</i>	Mahogany	Mahogany	Maliaceae	1
28	<i>Syzygium cumini</i>	Blackberry	Jamun	Myrtaceae	1
29	<i>Phyllanthus Emblica</i>	Gooseberry	Amla	Phyllanthaceae	1
30	<i>Piper betle</i>	Plam	Khajoor	Arecaceae	4
31	<i>Plumeria Alba</i>	White Frangipani	Champa	Apocynaceae	2

32	<i>Vasconacellea badilloi</i>	Mountain Papaya	Pahari Papita	Caricaceae	3
33	<i>Cordia myxa</i>	Indian-cherry	Glueberry	Boraginaceae	2
34	<i>Melaleuca brateata</i>	Black teatree	Kali chai	Myrtaceae	1
35	<i>Garcinia xipshuanbannaensis</i>	Garcinia		Clusiaceae	1
36	<i>Mimusops elengi</i>	Medlar	Medlar	Saptaceae	1

UNDER TREE

S.No	Botanical Name	English Name	Trivial Name	Family	Numerical Strength
1	<i>Cocos nucifera</i>	Coconut palm	Nariyal	Arecaceae (=Palmae)	2
2	<i>Thevetia nerifolia</i>	Yellow oleander	Pila Kaner	Apocynaceae	1
3	<i>Nerium odorum</i>	Oleander	Kaner	Apocynaceae	1
4	<i>Psidium guyajava</i>	Guava	Amrud	Myrtaceae	1
5	<i>Zamia furfuracea</i>	Cardboard Palm	Pine nut	Zamiaceae	3
6	<i>Jatropha curcas</i>	Nettlespurges		Euphorbiaceae	10
7	<i>Musa acuminata</i>	Red Banana	Scarlet banana	Musaceae	1
8	<i>Butea monosperma</i>	Butea		Fabaceae	1

SHURB

S.No	Botanical Name	English Name	Trivial Name	Family	Numerical Strength
1	<i>Nyctanthes arbortristis</i>	Night jasmine	Harsingar	Oleaceae	1
2	<i>Codiaeum variegatum (severa)</i>	Garden croton		Euphorbiaceae	21
3	<i>Hibiscus rosa-sinensis</i>	China-rose/Shoe flower	Udhool	Malvaceae	16
4	<i>Thuja occidentalis</i>	Thuja	Thuja	Cupressaceae (Gymnospi	5
5	<i>Araucaria sp.</i>	Araucaria		Araucariaceae (Gymnospi	2
6	<i>Murraya exotica</i>	Chinese box	Kaumini/ Marchula	Rutaceae	1
7	<i>Cestrum nocturnum</i>	Queen of the night	Raat Ki Rani	Solanaceae	1
8	<i>Rosa chinensis</i>	China rose	oruhul	Rosaceae	16
9	<i>Vaccinium myrtillus</i>	Blaeberry	European blueberry	Ericaceae	4
10	<i>Dieffenbachia seguine</i>	Dumb Cane	Dumb Cane	Arecaceae	6
11	<i>Croton</i>	Croton	Rushfoil	Euphorbiaceae	2
12	<i>Tinospora cordifolia</i>	Giloy	Giloy	Menispermaceae	1
13	<i>Dracenea</i>	Corn Plant	Corn	Asparacaceae	2
14	<i>Afrocanthium mundianum</i>	Rock Alder	Alder	Rubiaceae	2
15	<i>Euphorbia nerifolia</i>	Sweet aloes	Aloes	Euphorbiaceae	5
16	<i>Colubrin asiatica</i>	Wild coffee	Wild coffee	Ramnaceae	1
17	<i>Alnus acuminata</i>	Andean Alder	Alder	Betulaceae	2
18	<i>Acalypha wikesiana</i>	Copper leaf	Tamba patta	Euphorbiaceae	1

19	<i>Rosa rubiginosa</i>	Rose	Gulab	Rosaceae	6
20	<i>Catharanthus roseus</i>	Sadabahar	Sadasuhagan	Apocynaceae	10
21	<i>Acalypha wikesiana</i>	Copper leaf	Tamba patta	Euphorbiaceae	1
22	<i>Rosa rubiginosa</i>	Rose	Gulab	Rosaceae	6
23	<i>Catharanthus roseus</i>	Sadabahar	Sadasuhagan	Apocynaceae	10
24	<i>Dyopsis madagascariensis</i>	Dysis		Arecaceae	5
25	<i>Laurus nobilis</i>	Bay laurel	Tej Patta	Lauraceae	1
26	<i>Jatropha integerrima</i>	Spicy Jatropha	Jatropheae	Euphorbiaceae	6

Gymnosperm

S.No	Botanical Name	English Name	Trivial Name	Family	Numerical Strength
1	<i>Cycas revoluta</i>	Sago Palm	Palm	Cycadaceae	4

Pteridophyte

S.No	Botanical Name	English Name	Trivial Name	Family	Numerical Strength
1	<i>Pteris</i>	Chinese Brake	Fern	Pteidaceae	7

Amaltas

Order – Fabales

Family – Fabaceae

Subfamily – Caesalpinioideae

Genus – *Cassia*

Botanical Name – *Cassia Fistula*

Common Name – Amaltas



Ixora

Order – Gentianales

Family – Rubiaceae

Genus – *Ixora*

Species – *I. coccinea*

Botanical name – *Ixora Coccinea*

(Pink and red, yellow variety)

Common name – Scarlet jungle flame



Croton

Oder – Malpighiales

Family – Euphorbiaceae

Subfamily – Crotonoideae

Tribe – *Crotoneae*

Genus – *Croton*

Common name – Rushfoil & Croton



Nyctanthes

Order – Lamiales

Family – Oleaceae

Tribe – *Myxopyreae*

Genus – *Nyctanthes C.*

Scientific Name – *Nyctanthes Arbor*

Common name – Night Jasmine





Mahua

Order – Ericales

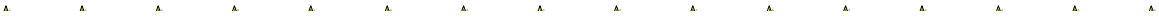
Family – Sapotaceae

Genus – *Madhuca*

Species – *M. longifolia*

Botanical name – *Madhuca longifolia*

Common Name – Mahua



Palm

Division – Magnoliophyta

Class – Liliopsida

Order – Arecales

Family – Arecaceae



Vasconcellea

Order – Brassicales

Family – Caricaceae

Genus – *Vasconcellea*

Species – *Vasconcellea badilloi*

Vasconcellea candicans

Common Name – Mountain Papaya



Amla

Order – Malpighiales

Family – Phyllanthaceae

Genus – *Phyllanthus*

Species – *P. Emblica*

Botanical Name – *Phyllanthus Emblica*

Common Name – Gooseberry (Amla)



Mango

Order – Sapindales

Family – Anacardiaceae

Genus – *Mangifera*

Species – *M. Indica*

Botanical Name – *Mangifera Indica*

Common Name - Aam



Sisam

Order – Fabales

Family – Fabaceae

Genus – *Dalbergia*

Species – *D. Sissoo*

Botanical Name – *Dalbergia Sissoo*

Common Name – Indian rosewood



Jamun

Order – Myrtales

Family – Myrtaceae

Genus – *Syzygium*

Species – *S. Cumini*

Botanical Name – *Syzygium Cumini*

Common Name – *Blackberry (Jamun)*



Pipal

Order – Rosales

Family – Moraceae

Genus – *Ficus*

Species – *F. Religiosa*

Botanical Name – *Ficus Reigiosa*

Common Name – Piple T



Sagwan

Order – Lamiales

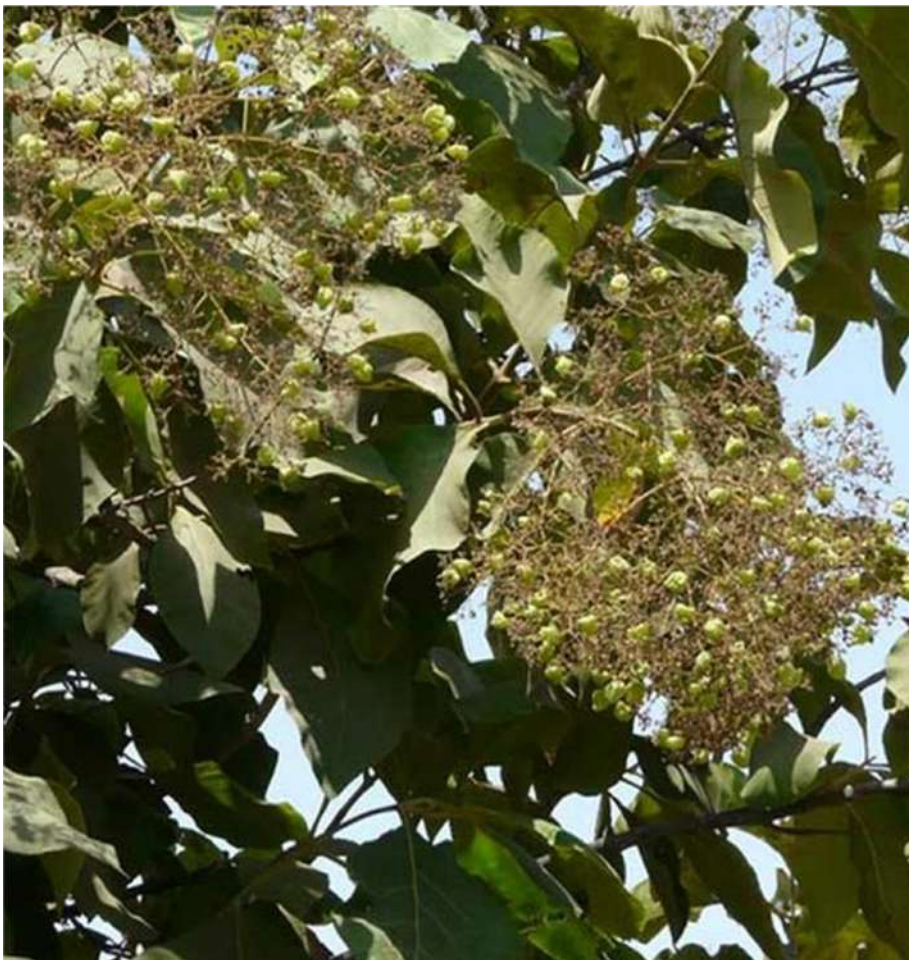
Family – Lamiaceae

Genus – *Tectona*

Species – *T. Grandis*

Botanical Name – *Tectona Grandis*

Common Name – Sagwan



Bael

Order – Sapindales

Family – Rutaceae

Genus – *Aegle*

Species – *A. Marmelos*

Botanical Name – *Aegle Marmelos*

Common Name – Wood Apple (Bael)



Rose

Order – Rosales

Family – Rosaceae

Genus – *Rosa*

Botanical Name – *Rosa Rubiginosa*

Common Name – Rose





Species : *Cordia myxa*

Family : Boraginaceae

Genus : *Cordia*

Common Names : Indian- cherry

Uses : FOOD: fruits , MEDICINE: folklore



Species : *Euphorbia tithymaloides*

Family : Euphorbiaceae

Genus : *Euphorbia*

Common Names : Devil's backbone

Uses : Environmental Uses : ornamental

Poison : Mammals



Species : *Agapanthus campanulatus*

Family : Amaryllidaceae

Genus : *Agapanthus*

Common Name : *Agapanthus*



Species : *Dieffenbachia seguine*

Family : Araceae

Genus : *Dieffenbachia*

Common Name : Dumb cane



Species : *Toona ciliata*

Family : Meliaceae

Genus : *Toona*

Common Name: Red Cedar



Species : *Cycas revoluta*

Family : Cycadaceae

Genus : *Cycas*

Common Name : Sago palm

Uses : Environmental Uses : ornamental
Medicine : folklore



Species : *Vaccinium myrtillus*

Family : Ericaceae

Genus : *Vaccinium*

Common Names : Blaeberry; European blueberry

Uses : FOOD ADDITIVE : dye;

FOOD:beverage base fruit;

FORAGE:fodder ; GENE SOURCES:

genetic input ; MATERIAL : tannin/dye

MEDICINE : folklore; BEE PLANTS: honey



Species : *Melaleuca bracteata*

Family : Myrtaceae

Genus : *Melaleuca*

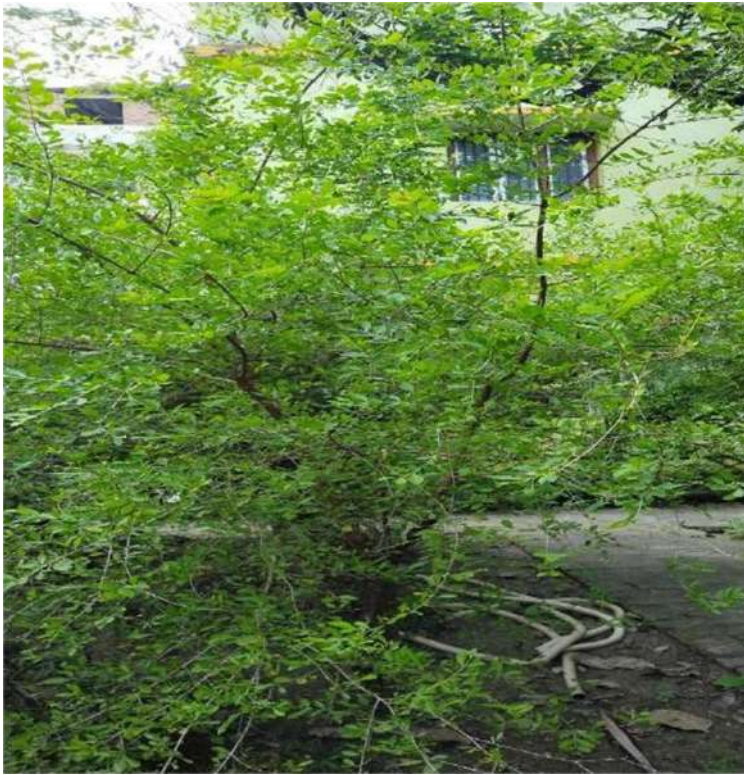
Common Name : Black teatree



Species : *Dypsis madagascariensis*

Family : Arecaceae

Genus : *Dypsis*



Species : *Afrocanthium mundianum*

Family : Rubiaceae

Genus : *Afrocanthium*

Common Name : Rock Alder



Species : *Brosimum alicastrum*

Family : Moraceae

Genus : *Brosimum*

Common Name : Breadnut

Uses : MEDICINE : folklore



Species : *Diospyros nigra*

Family : Ebenaceae

Genus : *Diospyros*

Common Name : Black sapote ,
chocolate pudding fruit , chocolate
sapote



Species : *Euphorbia neriifolia*

Family : Euphorbiaceae

Genus : *Euphorbia*

Common Name : Sweet – aloes

Uses : ENVIRONMENTAL USES :
ornamental; MEDICINE: folklore ;
POISON : fish mammals



Species: *Colubrina asiatica*

Family : *Rhamnaceae*

Genus : *Colubrina*

Common Name : Wild coffee



Species : *Garcinia xipshuanbannaensis*

Family : Clusiaceae

Genus : *Garcinia*



Species : *Afrocanthium mundianum*

Family : Rubiaceae

Genus : *Afrocanthium*

Common name : Rock Alder



Species : *Dypsis madagascariensis*

Family : Arecaceae

Genus : *Dypsis*



Species : *Mimusops elengi*

Family : Sapotaceae

Genus : *Mimusops*

Common Name: Medlar

Uses : ENVIRONMENTAL USES :
ornamental; MATERIAL: wood;
MEDICINE: folklore



Species: *Phoenix roebelenii*

Family : Arecaceae

Genus: *Phoenix*

Common Name: Roebelin palm

Uses : ENVIRONMENTAL USES :

ornamental; GENE SOURCE : genetic input



Species : Araucaria columnaris

Family : Araucariaceae

Genus :Araucaria

Common : Cook's pine



Species : *Alnus acuminata*

Family : Betulaceae

Genus : *Alnus*

Common Names : Andean Alder



Species : *Bambusa vulgaris*

Family: Poaceae

Genus : *Bambusa*

Common Name : Bamboo



Species : *Rhododendron ponticum*

Family : Ericaceae

Genus : *Rhododendron*

Common Name: Pontian rhododendron



Species : *Dypsis lutescens*

Family : Arecaceae

Genus : *Dypsis*

Common name : Butterfly palm



Species : Tabernaemontana

Family : Apocynaceae

Genus : Tabernaemontana

Common Name : Giant pinwheel-flower



Species : *Tabernaemontana donnellsmithii*

Family : Apocynaceae

Genus : *Tabernaemontana*

Common Name : Horse Balls Tree



Species : *Plumeria pudica*

Family : Apocynaceae

Genus : *Plumeria*

Common Name : Bridal boquet



Species : *Ficus aurea*

Genus : *Ficus*

Family : *Moraceae*

Common Name : Florida strangler



Species: *Sideroxylon foetidissimum*

Family : Sapotaceae

Genus : *Sideroxylon*

Common Name : Barbados – mastic



Species : *Zamia furfuracea*

Family : *Zamiaceae*

Genus : *Zamia*

Common Name: cardboard palm



Species : *Agave fourcroydes*

Family : Asparagaceae

Genus : *Agave*

Common Name : Yucatan sisal



Species : *Cordyline rubra*

Family : Asparagaceae

Genus : *Cordyline*

Common Name : Palm Lily



Species : *Cecropia obtusifolia*

Family : Urticaceae

Genus : *Cecropia*

Common Name : Trumpet;Red Banana



Species :*Luma apiculata*

Family : Myrtaceae

Genus: *Luma*

Common Name : Chilean myrtle



Botanical Name : *Laurus nobilis*

Family: Lauraceae

Common Name : Bay Leaf



Botanical Name: *Psidium guajava*

Family: Myrtaceae

Common Name: Amrud

English Name : Guava



Botanical Name : *Jatropha curcus*

Family : Euphorbiaceae



Botanical Name : *Jatropha integrerrima*

Family : Euphorbiaceae

Common Name : Spicy Jatropha

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THANK YOU

