## R. N. College, Hajipur

Vaishali, Bihar-844101

## GREEN AUDIT

(2021-22)



Under The Supervision of Dr. Priyanka Chatterjee, Assistant Professor, Department of Botany, R.N. College, Hajipur

### ACKNOWLEDGEMENT

I, Dr. Priyanka Chatterjee, Assistant Professor, Department of Botany want to give special thanks to our Principal Professor (Dr.) Ravi Kumar Sinha, who continuously inspires and gives support & suggestions for such an important assignment. I am also thankful to our former retired H.O.D. Prof Mahesh Roy & the present H.O.D of Botany Department Dr. Rosline Soren, Nitu Bharti, H.O.D of Zoology Department Dr. Shushma Kumari, Dr. Vijay Kumar, Dr. Rakesh Mohan & Gaurav Kumar & Aniket Kumar from the Department of Biotechnology & Arjun Prasad (non-teaching staff of Department of Botany) for the journey of Green Audit project work. Still now it is continuing in process for plantation of more new & rare trees, set up of green-houses & others work for the purity of air and greenery of the college campus for building of socio-environmental culture.

### INTRODUCTION:

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of the college campus. Green audit of the college campus has been done periodically to ensure the role of Institution in mitigating the present environmental problems. Green Audit of the R.N. College campus for the academic year 2021-2022 is done under the supervision of Dr. Priyanka Chatterjee, Assistant Professor & it's team from Department of Botany in association of Biotechnology, Zoology & Geography Department.

It aims to analyses environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important

issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent. The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background 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 CO<sub>2</sub> from the environment.

### **OBJECTIVES:-**

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institution which reflects the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

### The main objectives of carrying out Green Audit are:

- 1. To map the geographical location and recording of the meteorological parameters of Raj Narain College, Hajipur
- 2. Documentation of the floral and faunal diversity of the College
- 3. To estimate the energy requirement of the College
- 4. Documentation of the waste disposal system/ recycling system
- 5. Rain water harvesting/ Ground water recharge system
- 6. To document the ambient environmental condition of weather, air, water and noise of the college
- 7. To estimate Carbon foot print
- 8. To introduce and make students aware of, real concerns about environment and it's sustainability

# 1. MAPPING OF THE GEOGRAPHICAL LOCATION & RECORDING OF THE METEOROLOGICAL PARAMETERS OF RAJ NARAIN COLLEGE, HAJIPUR

The college has a sprawling pollution-free green campus spread over in the heart of the Hajipur Town.

DD Coordinates - 850 13' 12" E - 850 20 '83" E

Area - 19.64 Sq km Altitude - 46 M (151 feet)

Climate - Semi-tropical Monsoon type

Precipitation. - 993 ml. (39.3 inch)

Temperature - 26<sup>0</sup> average

## 2. DOCUMENTATION OF THE FLORAL AND FAUNAL DIVERSITY OF THE COLLEGE

#### **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 amble 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 Dr. Priyanka Chatterjee, Assistant Professor Department of Botany, during the year 2021-2022.

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

# ANT SPECIES NAME

Botanical Name	English Name	Trivial Name	Family	Category	Numerical Strength
Mangifera indica	Mango	Aam	Anacardiaceae	Tree	
Saraca asoca	Asoka	Sita Ashoka	Annonaceae	Tree	
Feronia elephantu	Elephant apple	Kaith/kaitha	Rutaceae	Tree	
Eucalyptus globosus	Eucalyptus tree	Sufeda	Myrtaceae	Tree	
Tectona grandis	Teak wood	Sagwan	Verbenaceae	Tree	
Emblica officinalis	Emblic myrobalan	Amla	Euphorbiaceae	Tree	
Eugenia jambolana	Black berry	Jamun	Myrtaceae	Tree	
Dalbergia sissoo	Indian Redwood	Shishoo	Papilionaceae	Tree	
Bombax ceiba	Silk cotton tree	Semul	Bombacaceae	Tree	
Azadirachta indica syn. Melia <u>aza</u>	<u>dirachta</u> Margosa tree	Neem	Meliaceae	Tree	1
Delonix regia	Gold Mohur	Gul Mohur	Caesalpinaceae	Tree	
Anthocephalus kadamba		Kadamb	Rubiaceae	Tree	
Tamarindus indica	Tamarind	Imli	Caesalpinaceae	Tree	
Artocarpus integra	Jackfruit	Kathal	Moraceae	Tree	
Cassia fistula	Indian laburnum	Amaltas	Ceasalpinaceae	Tree	
Ficus religiosa	Peepal or Bo-tree	Pipal	Moraceae	Tree	
Aegle marmelos	Wood apple	Bel	Rutaceae	Tree	
Mdhuca indica		Mahua	Sapotaceae	Tree	
Cocos nucifera	Coconut palm	Nariyal	Arecaceae (=Palmae)	Under tree	
Thevetia nerifolia	Yellow oleander	Pila Kaner	Apocynaceae	Under tree	

Nerium odorum	Oleander	Kaner	Apocynaceae	Under tree
Psidium guyajava	Guava	Amrud	Myrtaceae	Under tree
Nyctanthes arbortristis	Night jasmine	Harsingar	Oleaceae	Shurb
Codiaeum variegatum				
24Garden croton(several varie	ties <u>)</u>			
	Euphorbiaceae	Shurb		21
Hibiscus rosa-sinensis	China-rose/Shoe flower	Udhool	Malvaceae	Shurb
Cupressaceae Thuja occidentalis (Gymnosperm)	Thuja	Thuja	Araucariaceae	Shurb
Araucaria sp.	Araucaria			Shurb
(Gymnosperm)	Araucaria			Siturb
Murraya exotica	Chinese box	Kaumini/ Marchula	Rutaceae	Shurb
Cestrum nocturnum	Queen of the night	Raat Ki Rani	Solanaceae	Shurb
Rosa chinensis	China rose	oruhul	Rosaceae	Plantea
Citrus	Citrus	Nimbu	Rutaceae	Tree
Cycas revoluta	Sago Palm	Palm	Cycadaceae	Gymnosperm
Pteris	Chinese Brake	Fern	Pteidaceae	Pteridophyte
Zamia furfuracea	Cardboard Palm	Pine nut	Zamiaceae	Plant
Jatropha curcas	Nettlespurges		Euphorbiaceae	Plant
Laurus nobilis	Bay laurel	Tej Patta	Lauraceae	Shrub
Musa acuminata	Red Banana	Scarlet banana	Musaceae	Plant
Jatropha integerrima	Spicy Jatropha	Jatropheae	Euphorbiaceae	Shrub
Butea monosperma	Butea		Fabaceae	Plant
Luma apiculata	Chilean myrtle	luma	Myrtaceae	Tree
Sideroxylon foetidissimum	Barbados-mastic		Sapotaceae	Tree

Dypsis lutescens	Butterfly palm	palm	Arecaceae	Tree
Phoenix roebelenii	Roebelin plam	Palm	Arecaceae	Tree
Diospyros nigra	Chocolate sapote	Black sapote	Ebnaceae	Tree
Brosimum alicastrum	Breadnut	Breadnut	Moraceae	Tree
Dypsis madagascariensis	Dysis		Arecaceae	Shrub
Toona ciliata	Red Ceder	Cedar	Meliaceae	Tree
Swietenia mahagoni	Mahogany	Mahogany	Maliaceae	Tree
Syzygium cumini	Blackberry	Jamun	Myrtaceae	Tree
Phyllanthus Emblica	Goooseberry	Amla	Phyllanthaceae	Tree
Piper betle	Plam	Khajoor	Arecaceae	Tree
Dieffenbachia seguine	Dumb Cane	Dumb Cane	Arecaceae	Shrub
Croton	Croton	Rushfoil	Euphorbiaceae	Shrub
Tinospora cordifolia	Giloy	Giloy	Menispermaceae	Shrub
Tinospora cordifolia Dracenea	Giloy Corn Plant	Giloy	Menispermaceae Asparacaceae	Shrub Shrub
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Dracenea	Corn Plant	Corn	Asparacaceae	Shrub
Dracenea Plumeria Alba	Corn Plant White Frangipani	Corn	Asparacaceae Apocynaceae	Shrub Tree
Dracenea  Plumeria Alba  Vasconacellea badilloi	Corn Plant White Frangipani Mountain Papaya	Corn Champa Pahari Papita	Asparacaceae Apocynaceae Caricaceae	Shrub Tree Tree
Dracenea  Plumeria Alba  Vasconacellea badilloi  Acalypha wikesiana	Corn Plant  White Frangipani  Mountain Papaya  Copper leaf	Corn Champa Pahari Papita Tamba patta	Asparacaceae Apocynaceae Caricaceae Euphorbiaceae	Shrub Tree Tree Shrub
Dracenea  Plumeria Alba  Vasconacellea badilloi  Acalypha wikesiana  Rosa rubiginosa	Corn Plant  White Frangipani  Mountain Papaya  Copper leaf  Rose	Corn Champa Pahari Papita Tamba patta Gulab	Asparacaceae Apocynaceae Caricaceae Euphorbiaceae Rosaceae	Shrub Tree Tree Shrub Shrub
Dracenea  Plumeria Alba  Vasconacellea badilloi  Acalypha wikesiana  Rosa rubiginosa  Catharanthus roseus	Corn Plant  White Frangipani  Mountain Papaya  Copper leaf  Rose  Sadabahar	Corn Champa Pahari Papita Tamba patta Gulab Sadasuhagan	Asparacaceae Apocynaceae Caricaceae Euphorbiaceae Rosaceae Apocynaceae	Shrub Tree Tree Shrub Shrub Shrub
Dracenea  Plumeria Alba  Vasconacellea badilloi  Acalypha wikesiana  Rosa rubiginosa  Catharanthus roseus  Cordia myxa	Corn Plant  White Frangipani  Mountain Papaya  Copper leaf  Rose  Sadabahar  Indian-cherry	Corn Champa Pahari Papita Tamba patta Gulab Sadasuhagan Glueberry	Asparacaceae Apocynaceae Caricaceae Euphorbiaceae Rosaceae Apocynaceae Boraginaceae	Shrub Tree Tree Shrub Shrub Shrub Tree
Dracenea  Plumeria Alba  Vasconacellea badilloi  Acalypha wikesiana  Rosa rubiginosa  Catharanthus roseus  Cordia myxa  Vaccinium mrytillus	Corn Plant  White Frangipani  Mountain Papaya  Copper leaf  Rose  Sadabahar  Indian-cherry  Blaeberry	Corn Champa Pahari Papita Tamba patta Gulab Sadasuhagan Glueberry Europian blueberry	Asparacaceae Apocynaceae Caricaceae Euphorbiaceae Rosaceae Apocynaceae Boraginaceae Ericaceae	Shrub Tree Tree Shrub Shrub Tree Shrub Tree

Colubrin asiatica	Wild coffee	Wild coffee	Ramnaceae	Shrub
Garcinia xipshuanbannaensis	Garcinia		Clusiaceae	Tree
Mimusops elengi	Medlar	Medlar	Saptaceae	Tree
Alnus acuminata	Andean Alder	Alder	Betulaceae	Shrub-



**Order – Alismatales** 

Family - Araceae

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Genus - Dieffenbachia

Species - *D.seguine* 

**Botanical Name - Dieffenbachia Seguine** 

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**Common Name – Dumb Cane** 





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**Order – Magnoliales** 

Family - Magnoliaceae

Genus - *Magnolia* 

Species - M. champaca

**Botanical Name - Magnolia Champaca** 

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**Common name - Champa** 





**Order - Ranunculales** 

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Family - Menispermaceae

Genius - Tinospora

Species - T. cordifolia

**Botanical Name - Tinospora cordifolia** 

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**Common name – Giloy** 





**Oder – Malpighiales** 

Family - Euphorbiaceae

**Subfamily - Crotonoideae** 

Tribe - Crotoneae

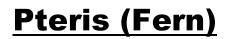
Genus - Croton

Common name - Rushfoil & Croton

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**Division – Polypodiophyta** 

Class - Polypodiopsida

**Order – Polypodiales** 

Family - Pteridaceae

**Sub family - Pteridoideae** 

Genus - Pteris L.



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**Division - Gymanospermae** 

**Class - Cycadophyta** 

**Order - Cycadales** 

Family - Cycadaceae

Genus - Cycas L.

**Common Name – Living fossil** 



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**Order – Asparagales** 

Family - Asparacaceae

**Subfamily - Nolinoideae** 

Genus - Dracaena f.

**Species** – *Dracaena fragrans* 

Common name - Corn plant



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**Order - Lamiales** 

Family - Oleaceae

Tribe - *Myxopyreae* 

Genus - Nyctanthes C.

Scientific Name - Nyctanthes arboritis

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**Common name - Night Jasmine** 





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**Order – Fabales** 

Family - Fabaceae

Genus - Saraca

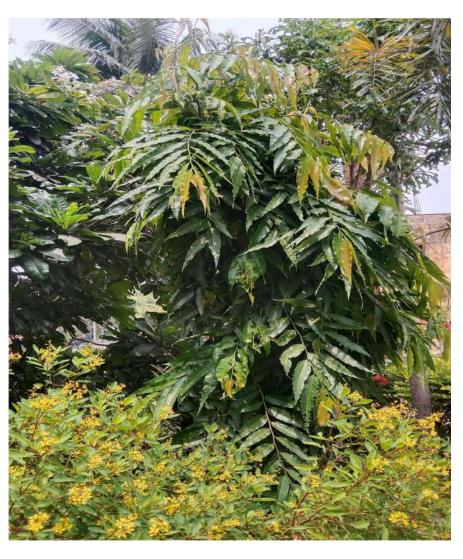
Species – *S. asoca* 

Botanical name - S. asoca

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**Common Name - Ashok** 





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**Division – Magnoliophyta** 

Class – Lipiopsida

Order - Arecales

Family - Arecaceae







**Order - Gentianales** 

Family - Apocynaceae

Genus - Plumeria

Species - P. alba

**Botanical Name - Plumeria alba** 

**Common Name – White Frangipani** 



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**Order - Brassicales** 

Family - Caricaceae

Genus - Vasconcellea

Species - Vasconcellea badilloi

Vasconcellea candicans

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**Common Name – Mountain Papaya** 





**Order – Malphighiales** 

Family - Euphorbiaceae

Genus - Acalypha

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Species - A. wilkesiana

**Botanical Name - Acalypha wilkesiana** 

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**Common Name – Copper leaf** 









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**Order - Sapindales** 

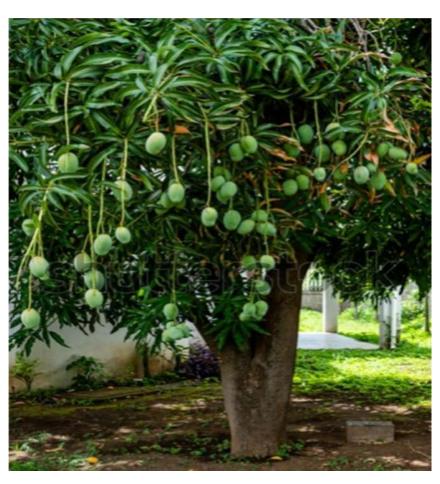
Family - Anacardiaceae

Genus - *Mangifera* 

Species - M. indica

**Botanical Name – Mangifera indica** 

**Common Name - Aam** 







Family - Fabaceae

Genus – *Dalbergia* 

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Species - D. sissoo

**Botanical Name - Dalbergia sissoo** 

**Common Name – Indian rosewood** 





### <u>Jamun</u>

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**Order – Myrtales** 

Family - Myrtaceae

Genus - Syzygium

Species - *S. cumini* 

**Botanical Name – Syzygium cumini** 

Common Name - Blackberry (Jamun)









**Order – Sapindales** 

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Family - Meliaceae

Genus - Swietenia

Species - S. mahagoni

**Botanical Name – Swietenia mahagoni** 

**Common Name – Mahogany** 





**Order - Lamiales** 

Family - Lamiaceae

Genus - Tectona

**Species** – *T.grandis* 

**Botanical Name - Tectona grandis** 

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**Common Name – Sagwan** 





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**Order – Sapindales** 

Family - Rutaceae

Genus - Aegle

Species - A. marmelos

**Botanical Name – Aegle marmelos** 

Common Name – Wood Apple (Bael)



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**Order - Rosales** 

Family - Rosaceae

Genus - Rosa

**Botanical Name – Rosa rubiginosa** 

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**Common Name - Rose** 







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**Species:** Cordia myxa

Family: Boranginaceae

Genus: Cordia

**Common Names: Indian-cherry** 

**Uses: FOOD: fruits, MEDICINE: folklore** 



**Species:** *Euphorbia tithymaloides* 

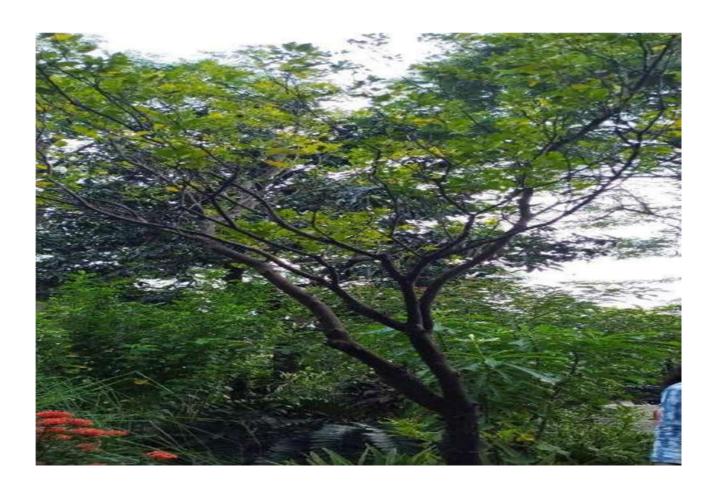
Family: Euphobiaceae

**Genus:** Euphorbia

**Common Names: Devil's backbone** 

**Uses: Environmental Uses: ornamental** 

**Poison: Mammals** 



**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; Europian** 

**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: Ramnaceae

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: Saptaceae

**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:** 

**Oranamental; Gene Source: genetic** 

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**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

**Commom Name: Bamboo** 



**Species:** *Rhododendron ponticum* 

Family: Ericaceae

Genus: Rhododendron

**Common Name:** *Pontian rhododendron* 



Species : *Dypsis lutescens* 

Family: Arecaceae

Genus: Dypssis

Common name: Butterfly palm



**Species:** *Tabernaemontana* 

Family: Apocynaceae

Genus: Tabernaemontana

**Common Name: Giant pinwheel-flower** 



**Species:** *Tebernaemontana* 

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:** Siderroxylon

**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: Aspargaceae

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** 

#### 3. TO ESTIMATE THE ENERGY REQUIREMENT OF THE COLLEGE

On an average of electricity which turns out to be 41664 kilo -watt per year energy & per month 3750 kilo-watt is utilized only to maintain its volumetric activities throughout the year.

- i) For renewable sources of energy solar PV panels are fitted in the college campus & its utilization is about 15%.
- ii) For non-renewable sources of energy General Electricity utilization system are utilized.
- For non-renewable sources of energy Diesel Generator machine 20 kw in examination section and 50 kw for all college is established.
- iv) For non-renewable sources of energy 240 volt & 900 Watt of Invertors are established in an every department of the college.



Fig- Solar PV panel system present on the roof of Arts Block



Fig-Solar PV panel system present on the roof of Administrative Block



Fig- Solar PV panel system present on the roof of Arts block

### 4. DOCUMENTATION OF THE WASTE DISPOSAL SYSTEM/ RECYCLING SYSTEM

Waste disposal are the activities and actions required to manage waste from its inception to its final disposal. This includes the collection, transport, treatment and disposal of waste, together with monitoring and regulation of the waste management process. The

waste from all around the college is separated daily as wet and dry waste in different bins which are disposed separately.

By the help of all UG & PG department, environment friendly practices and necessary actions taken by the college, such as - energy conservation, production of organic composts by biodegradable products through Vermicomposting procedure that established in the back side of science block of college campus, waste recycling, etc. The biological reusable waste are processed as organic manure for the plants available in the college campus and the other solid waste generated in the college campus is taken to the community bin of Hajipur municipality for recycling and disposal.



Fig- Vermicomposting system present back side of Science block of R.N. College campus

## 5. RAIN WATER HARVESTING/ GROUND WATER RECHARGE SYSTEM

In R.N. College campus four or five places, in front of History department, near to Girls common room, near to English department, near to Library etc. Rain water harvesting

system through underground pipeline systems has established. These are fully covered by our green vegetation that easily absorbed water.

Following photographs are given below:-



Fig-Rain water harvesting /Ground water Recharge system near Girls common room



Fig-Rain water harvesting /Ground water Recharge system near History Department

# 6. TO DOCUMENT THE AMBIENT ENVIRONMENTAL CONDITION OF WEATHER, AIR, WATER AND NOISE OF THE COLLEGE

Weather:- Semi -Tropical, due to coastal region of River Ganga & Gandak.

Air:- Air quality is good

Water:-i) Fresh ground water used through submersible motor pump

ii) pH water is 7.6 & TDS is 326 ppm

**Noise:-**Noise pollution is free due to Green environment of the college campus i.e 52-56 decimal (Air index)

Soil:- i) Soil pH is 7.4

- ii) Alkalinity in nature
- iii) Soil texture is Clay with Sandy due to coastal region of River Ganga & Gandak
- iv) Soil is full with humus with moisture i.e best for soil fertility for plantation of any type of plant or trees in this college campus.

# 7. TO INTRODUCE AND MAKE STUDENTS AWARE OF, REAL CONCERNS ABOUT ENVIRONMENT AND IT'S SUSTAINABILITY

By the different ways of students aware of real concerns about environment and it's sustainability are established. These are following:-

- i) by Counseling techniques,
- ii) by Seminars/Webinars
- iii) by Workshops,
- iv) By Science Day, Earth day, Water Day, Environmental day celebration etc.

#### 8. CARBON FOOT PRINTING

R.N. College having a largest campus in the region and located centrally, staff and students commute on their own. The college is dedicated to provide its students and staff all the comfort and convenience to help them to achieve their targets. The students are encouraged to use cycles, two wheelers rather than four wheelers which leads to fuel saving and also the contribution of pollutants to atmosphere is less.

### Students supported for documentation of Flora of R.N.College campus under the supervision of Dr. Priyanka Chatterjee

**B.Sc**: II YEAR (2020-2023)

1.Name: Anjali Kumari, Roll no: 20BNBTO11

2.Name: Anjali Singh, Roll no: 20BNBTO29

3.Name: Deepali, Roll no: 20BNBT072

4. Name: Nisha Singh, Roll no: 20BNBTO69

5.Name: Anshu, Roll no: 20BNBT048

6. Name: Mukul, Roll no: 20BNBT67

7. Name: Puspa

#### M.SC (BOTANY) 2<sup>ND</sup> SEMESTER, SESSION – (2020-2022)

- 1.Name Jyoti Kumari, Roll no. 20BNBT013
- 2.Name Gargi Singh, Roll no. 20BNBTOO9
- 3.Name Kundan Kishor, Roll no. 20BNBT015
- 4.Name Priya, Roll no. 20BNBT024
- 5. Name Srishti Kumari, Roll no. 20BNBT030
- 6. Name Sima Kumari, Roll no. 20BNBT029
- 7. Name Shivani Kumari, Roll no. 20BNBT036
- 8. Name Komal Kumari, Roll no. 20BNBT014
- 9. Name Guriya Khatoon, Roll no. 20BNBT010
- 10. Name July Kumari, Roll no. 20BNBT012



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