



GREEN AUDIT

Diphu Government College
Diphu, Assam



[Signature]
20/8/2023
Head
Dept. of Life Science & Bioinformatics
Assam University::Diphu Campus
Diphu, Karbi Anglong, Assam



Department of Life Science and Bioinformatics
Assam University :: Diphu Campus (A central University
established by an Act of Parliament) Diphu,
Karbi Anglong, Assam : 782462

To

The Principal,

Diphu Govt. College,
Diphu, Karbi Anglong, Assam.

PIN 782462

Date: 20-03-2023

Green Audit Certificate

This is to certify that the Green audit report prepared by the internal committee for “Institutional Values and Best Practices” of your college has been studied and scrutinized by the undersigned and found to be satisfactory.

I wish that your college excels and shine in the academic atmosphere as well as all related fields of society at large in the state of Assam in the days to come.

(Prof. Ajit Kr. Tamuli)

Head

Dept. of Life Science & Bioinformatics
Assam University::Diphu Campus
Diphu, Karbi Anglong, Assam

Introduction

Diphu Government College located in the hill-district of Karbi Anglong has been recognized as one of the greenest educational institutions of Assam as far the vegetation cover is concerned.

The internal Committee- "Institutional Values and Best Practices" has been entrusted the responsibility for assessing the present greenery status and the presence of different animals and other living creatures sheltered by the floral kingdom within the campus through total ground-based observations and surveys. The geographical location as well as the undulating landscape of the campus provide a unique environment to grow various types and species of natural and planted vegetation as well as animal species.

Diphu Government College is currently having more than **38%** green cover out of the total geographical area of **29.30 Acres (87.98 Bighas)**. About **85%** of which is planted, and the remaining **15%** is natural vegetation grows in wild within the campus.



Green View of Diphu Government College Campus

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Compliance and Reporting

Since the very beginning of establishment of the institution, tree-plantation has been taken into account as a part and parcel on many occasions keeping in view the better natural environment around the area. These activities make awareness and encourage the student fraternity finally to make the world clean and green.

Parks and Gardens

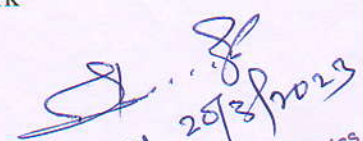
The Diphu Government College has a beautiful **Botanical Garden** embellished with a variety of flowering, fruit-bearing and medicinal plants looked after by the Department of Environment and Forests, Government of Assam. The garden possesses a large pond containing different types of aquatic flora and fauna. This is used as a place of leisure and amusement for the students too. A plantation site named as "**Peace Park**" beside the Canteen and Guest House has a good number of eucalyptus and white sandalwood trees. A beautiful **flower garden** containing varieties of plants in the front side of the College building is always attracting sights of the people passing by it. A small-sized **garden of indigenous fruit-bearing trees** established a few years back is also an initiative of the college for future use and conservation where student community was especially engaged educating and encouraging them to do more in their life.



Botanical Garden



Peace Park


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Botanical Garden with Recreation facilities



Creating a Garden of Indigenous Fruit-bearing Trees

Bio-Diversity of Diphu Government College Campus

Apart from the common herbs and shrubs, about 101 tree and other species have been identified within the college campus so far. Most of the road-side trees are planted trees. These include Rain tree (*Samanea saman*), Eucalyptus (*Eucalyptus globulus*), Debdaru (*Monoon longifolium*) and Nahor (*Mesua ferrea*) Houra (*Streblus asper*), Krishnachura (*Delonix regia*), Silver Oak (*Grevillea robusta*), Royal Palm (*Roystonea regia*), etc. The recent young plantations of indigenous fruit-bearing trees like Bakul (*Mimusops elengi*), Kola Jamuk (*Syzygium cumini*), Guava (*Psidium guajava*), Amlokhi (*Phyllanthus emblica*), Tamarind (*Tamarindus indica*); medicinal plants like

Maha neem (*Azadirachta indica*), Chandan (*Santalum album*), Ashok (*Saraca asoca*); and the pseudo tree- Yellow (Golden) bamboo (*Bambusa vulgaris*), etc. have made a unique natural environment in the college campus.



Front View of the College



Bird's-eye view of new Plantation



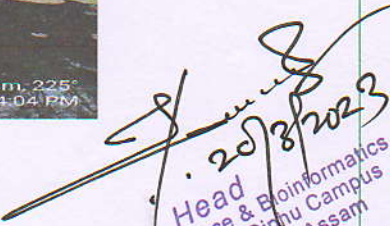
Part of the Flower Garden



Plantation beside the Courtyard



Pond inside the Botanical Garden

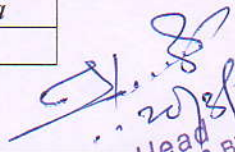

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Natural Vegetation inside Diphu Government College Campus

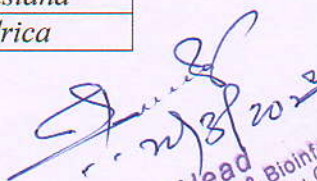
Flora found in Diphu Government College Campus

| Sl. No. | Vernacular Name | Common English Name | Scientific Name |
|---------|-------------------|---------------------------|------------------------------|
| 1 | Aam | Mango | <i>Mangifera indica</i> |
| 2 | Aamlokhi | Indian gooseberry | <i>Phyllanthus emblica</i> |
| 3 | Acassia | Wattle | <i>Acacia auriculiformis</i> |
| 4 | Agaru/Agar/Sanchi | Agarwood tree | <i>Aquilaria agallocha</i> |
| 5 | Amita | Papaya | <i>Carica papaya</i> |
| 6 | Arjun | Arjun | <i>Terminalia arjuna</i> |
| 7 | Ashok | Ashoka tree | <i>Saraca asoca</i> |
| 8 | Atlos | Custard apple | <i>Annona reticulata</i> |
| 9 | Bel | Stone apple/Bengal quince | <i>Aegle marmelos</i> |
| 10 | Bhedai lota | Skunkvine | <i>Paederia foetida</i> |
| 11 | Bhekuri Tita | Tropical Soda Apple | <i>Solanum viarum</i> |
| 12 | Bhet | Waret lily | <i>Nymphaea pubescens</i> |
| 13 | Bhim kol goch | Banana tree (?) | <i>Musa balbisiana colla</i> |
| 14 | Bogi Jamuk | Rose apple | <i>Syzygium jambos</i> |


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| | | | |
|----|-----------------------|-----------------------------|----------------------------------|
| 15 | Bogori | Jujube | <i>Ziziphus jujuba</i> |
| 16 | Bokul | Asian Bullet wood | <i>Mimusops elengi</i> |
| 17 | Bon-keteki | Tahitian screwpine | <i>Pandanus tectorius</i> |
| 18 | Bor Manimuni | Asiatic Pennywort | <i>Centella asiatica</i> |
| 19 | Bor puni | Water spangle | <i>Salvinia minima</i> |
| 20 | Bor puni | Water lettuce | <i>Pistia stratiotes</i> |
| 21 | Bor Tengesi | Pink Woodsorrel | <i>Oxalis corymbosa</i> |
| 22 | Botol brush | Bottle brush | <i>Callistemon viminalis</i> |
| 23 | Buddha Banh | Buddha belly bamboo | <i>Bambusa ventricosa</i> |
| 24 | Champa | Frangipani | <i>Plemeria rubra</i> |
| 25 | Chandan | Sandalwood | <i>Santalum album</i> |
| 26 | Cheni chompa | Ylang-ylang vine | <i>Artabotrys hexapetalus</i> |
| 27 | Christmas goch | Christmas tree/Cook pine | <i>Araucaria columnaris</i> |
| 28 | Cook Pine | Cook Pine | <i>Araucaria columnaris</i> |
| 29 | Cycus | Sago palm | <i>Cycus revoluta</i> |
| 30 | Dalim | Pomegranate | <i>Punica granatum</i> |
| 31 | Debdaru | Indian fir tree | <i>Polyalthia longifolia</i> |
| 32 | Durun Bon | Durun | <i>Leucas aspera</i> |
| 33 | Era goch | Castor oil plant | <i>Ricinus communis</i> |
| 34 | Eucalyptus | Eucalyptus | <i>Eucalyptus teriticornis</i> |
| 35 | Euphorbia | Pencil cactus | <i>Euphorbia tirucalli</i> |
| 36 | Fir goch | China fir | <i>Cunninghamia sinensis</i> |
| 37 | Gejeng Phool | Aleo-leafed cymbidium | <i>Cymbidium aloifolium</i> |
| 38 | Gohora | Dunil | <i>Premna bengalensis</i> |
| 39 | Gol Nemu | Key lime | <i>Citrus aurantifolia</i> |
| 40 | Gomari | Goomar teak | <i>Gmelina arborea</i> |
| 41 | Gondh Tora/ Kor Phool | Kor Phool | <i>Achasma loroglossum</i> |
| 42 | Halodhiya Banh | Golden bamboo | <i>Bambusa vulgaris</i> |
| 43 | Hewali | Coral/Night jasmine | <i>Nyctanthes arbor-tristis</i> |
| 44 | Hoguni Lota | Giloy | <i>Tinospora cordifolia</i> |
| 45 | Honaru | Golden shower | <i>Cassia fistula</i> |
| 46 | Horu Tengesi | Creeping | <i>Oxalis corniculata</i> |
| 47 | Houra | Sandpaper tree | <i>Streblus asper</i> |
| 48 | Jahaji Kol goch | Banana tree (?) | <i>Musa acuminata colla</i> |
| 49 | Jaluk | Black peeper | <i>Piper nigrum</i> |
| 50 | Japani lota | American rope | <i>Mikania micrantha</i> |
| 51 | Jati banh | Indian bamboo | <i>Bambusa tulda</i> |
| 52 | Jetuka | Henna | <i>Lawsonia inermis</i> |
| 53 | Joba Phool | Hibiscus/China Rose | <i>Hibiscus rosa-sinensis</i> |
| 54 | Jolphai | Indian olive | <i>Elaeocarpus serratus</i> |
| 55 | Jora Tenga | Citron | <i>Citrus medica</i> |
| 56 | Kagoj Phool | Bougainvillea | <i>Bougainvillea spectabilis</i> |
| 57 | Kaji Nemu | Assam lemon | <i>Citrus limon</i> |
| 58 | Kamini Kanchan | Orange Jashmin | <i>Murraya paniculata</i> |
| 59 | Kanchon | Mountain ebony/ Orchid tree | <i>Bauhinia variegata</i> |
| 60 | Khejur | Date palm | <i>Phoenix dactylifera</i> |

| | | | |
|-----|------------------|----------------------------|---------------------------------|
| 61 | Kola Jamuk | Indian blackberry | <i>Syzygium cumini</i> |
| 62 | Kopou Phool | Foxtail orchid | <i>Rhynchosytilis retusa</i> |
| 63 | Kordoi | Starfruit | <i>Averrhoa carambola</i> |
| 64 | Korobi | Oleander | <i>Nerium oleander</i> |
| 65 | Koroi | White siris | <i>Albizia procera</i> |
| 66 | Kothal | Jack fruit | <i>Atrocarpus heterophyllus</i> |
| 67 | Kou paat | Packing leaf | <i>Phrynium pubinerve</i> |
| 68 | Krishnasura | Royal Poinciana | <i>Delonix regia</i> |
| 69 | Kunhiyar | Sugarcane | <i>Saccharum officinarum</i> |
| 70 | Mahogani | Mahogani | <i>Swietenia macrophylla</i> |
| 71 | Meteka | Water hyacinth | <i>Pontederia crassipes</i> |
| 72 | Mochondari | Chameleon plant | <i>Houttuynia cordata</i> |
| 73 | Modhuri Aam | Guava | <i>Psidium guajava</i> |
| 74 | Moha Neem | Neem/Indian liliac | <i>Azadirachta indica</i> |
| 75 | Moj | Potka siris | <i>Albizia lucidor</i> |
| 76 | Mokal Banh | Polymorph bamboo | <i>Bambusa nutans</i> |
| 77 | Momai Tamul | Areca palm | <i>Dypsis lutescens</i> |
| 78 | Nahor | Sri Lankan Ironwood | <i>Mesua ferrea</i> |
| 79 | Narashingha | Curry leaf tree | <i>Murraya koenigii</i> |
| 80 | Narikol | Coconut palm | <i>Cocos nucifera</i> |
| 81 | Naspoti | Asian pear | <i>Pyrus pyrifolia</i> |
| 82 | Nilaji bon | Touch me not | <i>Mimosa pudica</i> |
| 83 | Nora Bogori | Plum | <i>Prunus domestica</i> |
| 84 | Paan | Betel | <i>Piper betle</i> |
| 85 | Pine | Khasi Pine | <i>Pinus kesiya</i> |
| 86 | Rain Tree | Rain tree/Monkey pod tree | <i>Samanea saman</i> |
| 87 | Robab Tenga | Pomelo | <i>Citrus maxima</i> |
| 88 | Robor | Rubber fig | <i>Ficus elastica</i> |
| 89 | Royal Palm | Royal Palm | <i>Roystonea regia</i> |
| 90 | Segun | Teak | <i>Tectona grandis</i> |
| 91 | Shatamul | Shatamull | <i>Asparagus racemosus</i> |
| 92 | Shimolu | Shimul/Silk Cotton tree | <i>Bombax ceiba</i> |
| 93 | Shorifa/Sitaphal | Sugar Apple | <i>Annona squamosa</i> |
| 94 | Silver Oak | Southern silky oak | <i>Grevillea robusta</i> |
| 95 | Sojina | Drumstick tree | <i>Moringa oleifera</i> |
| 96 | Tamul | Areca nut | <i>Areca catechu</i> |
| 97 | Tecoma | Yellow bells/Ginger thomas | <i>Tecoma saman</i> |
| 98 | Teteli | Tamarind tree | <i>Tamarindus indica</i> |
| 99 | Titasopa | Joi perfume tree | <i>Michelia champa</i> |
| 100 | Tokou | Assam fan palm | <i>Livistona jenkinsiana</i> |
| 101 | Ulu bon | Cogongrass | <i>Imperata cylindrica</i> |


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Ashok (*Saraca asoca*)



Yellow bells/Ginger thomas (*Tecoma saman*)



Golden bamboo (*Bambusa vulgaris*)



Buddha belly bamboo (*Bambusa ventricosa*)

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Fauna found in Diphu Government College Campus

Diphu Government College is situated over an undulating landscape with fertile soil that supports luxuriant growth of natural and planted vegetation. This semi-natural environment supported by well-grown plants and trees has made the campus a congenial habitat for many wild avifauna, aquafauna and terrestrial fauna including different types of insects and butterflies. The area having a small water body is also a house of different aquatic flora and fauna. Followings are some of the species very commonly seen in the campus.

List of Mammals

| Sl. No. | Vernacular Name | Common English Name | Scientific Name |
|---------|------------------|---------------------------|---------------------------------|
| 1 | Baduli | Fulvous Fruit Bat | <i>Leschenault's rousette</i> |
| 2 | Bor Baduli | Indian flying Fox | <i>Pteropus medius</i> |
| 3 | Kerketua | Irrawaddy squirrel | <i>Callosciurus pygerythrus</i> |
| 4 | Lajuki bandor | Slow loris | <i>Nycticebus bengalensis</i> |
| 5 | Neul | Mongoose | <i>Herpestidae javanicus</i> |
| 6 | Uroniya kerkeyua | Red giant flying squirrel | <i>Petaurista petaurista</i> |

List of Reptiles

| Sl. No. | Vernacular Name | Common English Name | Scientific Name |
|---------|------------------|-----------------------------|------------------------------|
| 1 | Dhora xap | Checkered keelback | <i>Xenochrophis piscator</i> |
| 2 | Guyin | Monitor Lizard | <i>Varanus bengalensis</i> |
| 3 | Holonga gom xap | Copper-headed Trinket snake | <i>Coelognathus helena</i> |
| 4 | Hongxachur | Banded krait | <i>Bungarus fasciatus</i> |
| 5 | Honka/Hongkhosur | Banded krait | <i>Bungarus</i> |
| 6 | Jethi | Common house lizard | <i>Hemidactylus frenatus</i> |
| 7 | Karhola xap | Bronzeback tree snake | <i>Dendrelaphis triris</i> |
| 8 | Keko | Tokay gecko | <i>Gecko gecko</i> |
| 9 | Koklonga | Oriental Garden Lizard | <i>Calotes versicolor</i> |
| 10 | Kola msura xap | Indian Rat snake | <i>Ptyas mucosa</i> |
| 11 | Maroli xap | Common wolf snake | <i>Lycodon aulicus</i> |
| 12 | Naipia | Gongilo | <i>Chalcides ocellatus</i> |
| 13 | Pheti xap | Indian cobra | <i>Naja naja</i> |

List of Birds

| Sl. No. | Vernacular Name | Common English Name | Scientific Name |
|---------|-----------------|---------------------|----------------------------|
| 1 | Barhoitoka | Woodpecker | <i>Colomba livia</i> |
| 2 | Bhatou | Parrot | <i>Psittacula eupatria</i> |
| 3 | Bogoli | Cattle egret | <i>Bubulcus ibis</i> |

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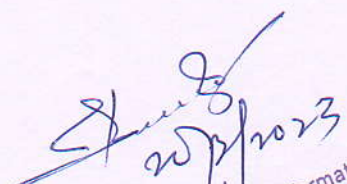
| | | | |
|----|-----------------|----------------------------|--------------------------------|
| 4 | Bulbuli | Red-vented Bulbul | <i>Pycnonotus cafer</i> |
| 5 | Dhora kauri | Common raven | <i>Corvus corax</i> |
| 6 | Fechu | Black Drongo | <i>Dicrurus macrocercus</i> |
| 7 | Fensa | Jungle owlet | <i>Glaucidium radiatum</i> |
| 8 | Ghorsirika | House sparrow | <i>Passer domesticus</i> |
| 9 | Haitha | Yellow-footed green pigeon | <i>Treron phoenicopterus</i> |
| 10 | Hetuluka | Blue-throated barbet | <i>Psilopogon asiaticus</i> |
| 11 | Kan kurika | Pied myna | <i>Gracupica contra</i> |
| 12 | Kooli | Asian Koel | <i>Eudynamys scolopaceus</i> |
| 13 | Kopou | Eastern spotted dove | <i>Spilopelia chinensis</i> |
| 14 | Machruka | Ajure kingfisher | <i>Ceyx azureus</i> |
| 15 | Moupiya | Crimson Sunbird | <i>Aethopyga siparaja</i> |
| 16 | Pani kauri | Little Cormorant | <i>Microcarbo niger</i> |
| 17 | Panituki chorai | Marsh babbler | <i>Pellorneum palustre</i> |
| 18 | Paro | Domestic pigeon | <i>Columba livia domestica</i> |
| 19 | Porghuma | Green Imperial Pigeon | <i>Ducula aenea</i> |
| 20 | Siloni | Black kite | <i>Milvus migrans</i> |
| 21 | Tokora chorai | Weaver bird | <i>Ploceus philippinus</i> |
| 22 | Tuntuni | Common tailor bird | <i>Othotomus sutorius</i> |
| 23 | Xalika | Common myna | <i>Acridotheres tristis</i> |

List of Aquatic fauna

| Sl. No. | Vernacular Name | Common English Name | Scientific Name |
|---------|-----------------|---------------------------|---------------------------------|
| 1 | Chengeli mach | Rainbow snake-headed fish | <i>Channa bleheri</i> |
| 2 | Dorikona mach | Indian flying barb | <i>Esomus danrica</i> |
| 3 | Goroi mach | Spotted snake-headed fish | <i>Channa punctata</i> |
| 4 | Kawoi mach | Climbing perch | <i>Anabas testudineus</i> |
| 5 | Kusia | kuchia fish | <i>Monopterus cuchia</i> |
| 6 | Magur mach | Asian catfish | <i>Clarias batrachus</i> |
| 7 | Mirika mach | Mrigal carp | <i>Cirrhinus mrigala</i> |
| 8 | Misa mach | Shrimp | <i>Macrobrachium assamensis</i> |
| 9 | Moa mach | Mola carplet | <i>Amblypharyngodon mola</i> |
| 10 | Puthi mach | Swamp barb | <i>Puntius chola</i> |
| 11 | Rou mach | Rohu fish | <i>Labeu rohita</i> |
| 12 | Singi msch | Stinging catfish | <i>Heteropneustes fossilis</i> |

List of Amphibians

| Sl. No. | Vernacular Name | Common English Name | Scientific Name |
|---------|-----------------|---------------------|---------------------------------|
| 1 | Bamun bhekuli | Indian bullfrog | <i>Hoplobatrachus tigerinus</i> |
| 2 | Chuk bhekuli | Common toad | <i>Bufo bufo</i> |
| 3 | Pani bhekuli | Cope's Assam frog | <i>Hydrophylax leptoglossa</i> |
| 4 | Pat beng | Tree frog | <i>Polypedates leucomystax</i> |


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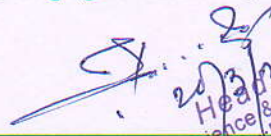
List of insects

| Sl. No. | Vernacular Name | Common English Name | Scientific Name |
|---------|-----------------|---------------------|----------------------------|
| 1 | Amroli | Red ant | <i>Myrmica rubra</i> |
| 2 | Borol | Yellow paper wasp | <i>Polistes olivaceus</i> |
| 3 | Borolia makhi | Fruit fly | <i>Bactrocera dorsalis</i> |
| 4 | Foring | Grasshopper | <i>Omocestus viridulus</i> |
| 5 | Jili | Cicada | <i>Purana tigrina</i> |
| 6 | Kodu | Banded hornet | <i>Vespa tropica</i> |
| 7 | Mou | Honey bee | <i>Apis cerana</i> |



Larva with Butterfly

Oriental Garden Lizard (*Calotes versicolor*)Green Imperial Pigeon (*Ducula aenea*)Blue-throated barbet (*Psilopogon asiaticus*)

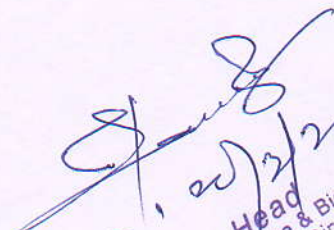

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Asian Koel (*Eudynamys scolopaceus*) Male & Female

Conclusion

Our objectives, being an educational institution, should be focussed on society's wellbeing through collective efforts. 'Plantation'- one of the great works in life being conducted regularly in the Diphu Government College campus is not only contributing to make the environment healthy, but also it is an encouraging factor for the student-fraternity to make the entire globe green. This exclusive Green Audit presentation is an attempt of self-assessment of our past and present activities, and a way of aiming to make the future goal of 'physical environment and sustainable development' in regard to our responsibility towards the society.


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