

Campus Biodiversity Report

CAMPUS BIODIVERSITY OF DIMORIA COLLEGE, KHETRI

Introduction:

Biodiversity is the variety and variability of life on Earth. It is typically a measure of variations at the genetic, species and eco-system level. Biodiversity is important to most aspects of our lives. We value biodiversity both for what it provides to humans, and for the value it has in its own right. It provides many basic needs humans obtain from biodiversity such as food, fuel, shelter, and medicine. Further, ecosystems provide crucial services such as pollination, seed dispersal, climate regulation, water purification, nutrient cycling, and control of agricultural pests. Biodiversity also holds value for potential benefits not yet recognized, such as new medicines and other possible unknown services. Biodiversity has cultural value to humans as well, for spiritual or religious reasons for instance. The intrinsic value of biodiversity refers to its inherent worth, which is independent of its value to anyone or anything else. This is more of a philosophical concept, which can be thought of as the inalienable right to exist.

Over the last century, humans have come to dominate the planet with rapid population as well as developmental growth, causing rapid change to ecosystem and massive loss of biodiversity across the planet. Major direct threats to biodiversity include habitat loss and fragmentation, unsustainable resource use, invasive species, pollution, and global climate change.

Dimoria College campus biodiversity:

Dimoria College is located at the eastern fringe of Kamrup (Metro) district of Assam. It lies between $92^{\circ} 04' 28''$ E to $92^{\circ} 45' 39''$ E Longitude and $26^{\circ} 07' 10''$ N to $26^{\circ} 07' 03''$ N Latitude. It has tropical climate, with average temperature ranging between 37° C maximum and 13° C minimum. Soil type is brown and redish sandy loam rich in both macro and micronutrients. The college campus is located in a biodiversity hotspot region. It is surrounded by hills, stream and agricultural fields.

The College has a land 8.9 Hecter which is entirely in plains. Out of this area, nearly 40% area is covered by college playground. About 10% of the college campus is water body. A perennial stream, sourcing from the adjacent hills of the college campus, flows along the southern boundary of the campus. Besides, there is a pond right inside the campus which harbours many plant species and

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accommodating for various infrastructures of the college. The diverse physiography influenced by adjacent forested hilly terrain, helps the campus to harbour rich vegetation.

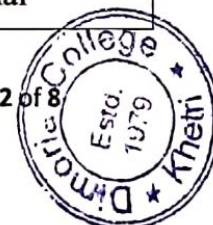
Area surrounding the campus is sparsely populated and the locality being a rural one, human intervention is relatively low. Lush green hills with thick forests of Meghalaya are also in close proximity to the college campus. The diverse physiography in the vicinity of the college campus like hills, plains and stream has considerable influence in the biodiversity of the area. The campus is endowed with terrestrial as well as aquatic vegetation. Most of the plant species are dicotyledonous. Some species are monocotyledonous, and some are gymnosperms. Plant species with their available local names are listed below:

ANGIOSPERMS

Dicotyledons

Sl.	Name of species	Family	Local Name
1	<i>Ranunculus cantoniensis</i> DC.	Ranunculaceae	—
2	<i>Polyalthia longifolia</i> (Sonner) Thw.	Annonaceae	Debadaru
3	<i>Polyalthia var. pendula</i> (Sonner) Thw.	Annonaceae	Debadaru
4	<i>Nymphaea nouchali</i> Burm. F.	Nymphaeaceae	Boga Bhet
5	<i>Nymphaea rubra</i> Roxb. Ex Andrews	Nymphaeaceae	Ronga Bhet
6	<i>Nelumbo nicifera</i> Gaertn.	Nelumbonaceae	Podum
7	<i>Argemone mexicana</i> L.	Papaveraceae	Xilkata
8	<i>Cleome viscosa</i> L.	Cleomaceae	Hurhuria
9	<i>Mesua ferrea</i> L.	Clusiaceae	Naahor
10	<i>Abutilon indicum</i> (L.) Sweet	Malvaceae	Jopa
11	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Rakta Joba
12	<i>Malvaviscus arborieus</i> Cav.	Malvaceae	Tikani-Joba
13	<i>Sida cordifolia</i> L.	Malvaceae	Sonborial
14	<i>Sterculia villosa</i> Roxb.	Sterculiaceae	Odal
15	<i>Elaeocarpus floribundus</i> BL.	Elaeocarpaceae	Jalphai

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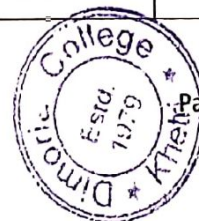
Sl.	Name of species	Family	Local Name
16	<i>Biophytum sp</i>	Oxalidaceae	
17	<i>Oxalis corniculata</i> L.	Oxalidaceae	Tengechi
18	<i>Oxalis corymbosa</i> L.	Oxalidaceae	Bor tengechi
19	<i>Averrhoa carambola</i> L.	Averrhoaceae	Kordoi
20	<i>Impatiens balsamina</i> L.	Balsaminaceae	Keruphool
21	<i>Aegle marmelos</i> (L.) Correa	Rutaceae	Bel
22	<i>Citrus reticulata</i> Blanco.	Rutaceae	Sumothira
23	<i>Murrya koenzii</i> (L.) Spreng.	Rutaceae	Narasingha
24	<i>Murrya paniculata</i> (L.) Jack	Rutaceae	Kaaminikanchan
25	<i>Azadirachta indica</i> A. Juss.	Meliaceae	Maha neem
26	<i>Melia azedarach</i> L.	Meliaceae	Ghora neem
27	<i>Ziziphus mauritiana</i> Lamk.	Rhamnaceae	Bogori
28	<i>Mangifera indica</i> L.	Anacardiaceae	Aam
29	<i>Moringa oleifera</i> Lamk.	Moringaceae	Sajina
30	<i>Acacia auriculiformis</i> A. Cunn. ex Benth.	Fabaceae	Australian acacia
31	<i>Albizia lebbek</i> Benth.	Fabaceae	Sirish
32	<i>Butea monosperma</i> (Lam) Kuntz.	Fabaceae	Palash
33	<i>Caesalpinia pulcherrima</i> (L.) Sw.	Fabaceae	Radhachura
34	<i>Cassia fistula</i> L.	Fabaceae	Sonaru
35	<i>Cassia sophera</i> L.	Fabaceae	Medelua
36	<i>Cassia tora</i> L.	Fabaceae	Saru medelua
37	<i>Crotolaria pallida</i> Ait.	Fabaceae	Junjunia
38	<i>Dalbergia sisoo</i> Roxb.	Fabaceae	Sishu
39	<i>Desmodium heterophyllum</i> (Willd.) DC.	Fabaceae	
40	<i>Desmodium trifolium</i> (L.) DC.	Fabaceae	

Sl.	Name of species	Family	Local Name
41	<i>Mimosa pudica</i> L.	Fabaceae	Lajukilata
42	<i>Pterocarpus santalinus</i> L.	Fabaceae	Ronga chandan
43	<i>Samanea saman</i> (Jacq.) Merr.	Fabaceae	
44	<i>Saraca asoca</i> (Roxb.) de Wilde	Fabaceae	Ashok gas
45	<i>Senna siamea</i> (Lam.) Irwin et Barneby	Fabaceae	
46	<i>Rosa damascena</i> Mill.	Rosaceae	Golap
47	<i>Terminalia arjuna</i> (DC) W. & A.	Combretaceae	Arjun Gos
48	<i>Terminalia chebula</i> Retz.	Combretaceae	Xilikha
49	<i>Eucalyptus maculata</i> Hook.	Myrtaceae	
50	<i>Psidium guajava</i> L.	Myrtaceae	Madhuriaam
51	<i>Syzygium cumini</i> (L.) Skeels.	Myrtaceae	Kalajamu
52	<i>Melastoma malabathricum</i> L.	Melastomataceae	Futuka
53	<i>Ladwigia adscendens</i> (L.) H. Hara	Onagraceae	Halosee
54	<i>Centella asiatica</i> (L.) Urban	Apiaceae	Bor-Manimuni
55	<i>Hydrocotyle sibthorpioides</i> Lamk.	Apiaceae	Saru-Manimuni
56	<i>Anthocephalus cadamba</i> Miq.	Rubiaceae	Kadam
57	<i>Mussaenda philippica</i> A. Rich.	Rubiaceae	
58	<i>Ageratum conyzoides</i> L.	Asteraceae	Gendheli bon
59	<i>Eclipta alba</i> Hassk	Asteraceae	Keheraj
60	<i>Parthenium hysterophorus</i> L.	Asteraceae	
61	<i>Sonchus wightianus</i> DC.	Asteraceae	
62	<i>Tridax procumbens</i> L.	Asteraceae	
63	<i>Vernonia cinerea</i> (L.) Less.	Asteraceae	
64	<i>Xanthium indicum</i> Koenig	Asteraceae	Agara
65	<i>Mimusops elengi</i> Roxb.	Sapotaceae	Bakul

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Sl.	Name of species	Family	Local Name
66	<i>Nyctanthus arbor-tristis</i> L.	Oleaceae	Xewali
67	<i>Cascabela thevetia</i> (L.) Lippold	Apocynaceae	Karabi
68	<i>Catharanthus roseus</i> (L.) G. Don.	Apocynaceae	Nayantora
69	<i>Rauvolfia canascens</i> L.	Apocynaceae	Sarpagandha
70	<i>Tebernaemontana divericata</i> (L.) R. Br.	Apocynaceae	Kathanda
71	<i>Calotropis gigantea</i> (L.) Roxb.	Asclepiadaceae	Aakon
72	<i>Cuscuta reflexa</i> Roxb.	Convolvulaceae	Raghumola
73	<i>Evolvulus nummularius</i> (L.) L.	Convolvulaceae	
74	<i>Ipomoea aquatica</i> Forssk.	Convolvulaceae	Kalmou
75	<i>Datura metal</i> L.	Solanaceae	Dhatura
76	<i>Solanum indicum</i> L.	Solanaceae	Katahi Bengena
77	<i>Solanum nigrum</i> L.	Solanaceae	Kaisi
78	<i>Solanum torvum</i> L.	Solanaceae	Haati Bhekuri
79	<i>Solanum viarum</i> Dunal	Solanaceae	Bhekuri Tita
80	<i>Bacopa monnieri</i> (L.) Pennel	Scrophulariaceae	Brahmisaak
81	<i>Justicia adhatoda</i> L.	Acanthaceae	Boga Bahok
82	<i>Clerodendrum serratum</i> (L.) Spreng	Verbinaceae	Nangal bhanga
83	<i>Duranta erecta</i> L.	Verbanaceae	
84	<i>Gmelina arborea</i> Roxb.	Verbanaceae	
85	<i>Lantana camera</i> L.	Verbanaceae	
86	<i>Leucas plukentii</i> (Roth) Spreng	Lemiaceae	Doron
87	<i>Ocimum tenuniflorun</i> L.	Lemiaceae	Kaltulashi
88	<i>Ocimum basilicum</i> L.	Lamiaceae	Ram tulashi
89	<i>Boerhavia diffusa</i> L.	Nyctaginaceae	Purnanoba
90	<i>Achyranthes aspera</i> L.	Amaranthaceae	Obhat kata

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Sl.	Name of species	Family	Local Name
91	<i>Alternanthera philoxeroides</i> (Martius) Grisebach	Amaranthaceae	Neuthoni- Sak
92	<i>Alternanthera sessilis</i> (L.) R. Brown	Amaranthaceae	Maati Kaduri
93	<i>Amaranthus spinosus</i> L.	Amaranthaceae	Kata Khutura
94	<i>Amaranthus viridis</i> L.	Amaranthaceae	Khutura
95	<i>Persicaria barbata</i> (L.) Hara	Polygonaceae	
96	<i>Persicaria hydropiper</i> (L.) Spach.	Polygonaceae	Bihalongoni
97	<i>Polygonum plebeium</i> Roxb.	Polygonaceae	
98	<i>Rumex maritimus</i> L.	Polygonaceae	
99	<i>Rumex nepalensis</i> Spreng	Polygonaceae	Tarboura
100	<i>Santalum album</i> L.	Santalaceae	Boga Chandan
101	<i>Codiaeum variegatum</i> (L.) Bl.	Euphorbiaceae	Patbahar
102	<i>Euphorbia hirta</i> L.	Euphorbiaceae	Gakhirati bon
103	<i>Euphorbia pulcherrima</i> Willd.	Euphorbiaceae	Lalpata
104	<i>Jatropha gossypifolia</i> L.	Euphorbiaceae	Bhatera
105	<i>Phyllanthus acidus</i> Skeel	Euphorbiaceae	Poramlakhi
106	<i>Phyllanthus emblica</i> L.	Euphorbiaceae	Aaamlakhi
107	<i>Ricinus communis</i> L.	Euphorbiaceae	Eragos
108	<i>Ficus benghalensis</i> L.	Moraceae	Batgos
109	<i>Ficus benjamina</i> L.	Moraceae	Jarigos

Monocotyledons

1	<i>Hydrilla verticillata</i> (L.f.) Royle	Hydrocharitaceae	
2	<i>Rhyncostylis retusa</i> (L.) Bl.	Orchidaceae	Kopou phool
3	<i>Curcuma caesia</i> Roxb.	Zingiberaceae	
4	<i>Ravenala madagascariensis</i> J.F. Gamble	Sterlitziaceae	Traveller's tree

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Sl.	Name of species	Family	Local Name
5	<i>Sterlitzia reginae - juncea</i>	Strelitziaceae	
6	<i>Canna indica</i> L.	Cannaceae	Parijat
7	<i>Crinum asiaticum</i> L.	Amaryllidaceae	Bon Naharu
8	<i>Yucca gloriosa</i> L.	Asparagaceae	Dagger plant
9	<i>Eichhornia crassipes</i> (Mart.) Solms.	Pontedarniaceae	Meteka
10	<i>Commelina benghalensis</i> L.	Commelinaceae	Kona shimolu
11	<i>Cocos nucifera</i> L.	Arecaceae	Naarikol
12	<i>Crysalidocarpus lutescens</i>	Arecaceae	Momaitamul
13	<i>Roystonea regia</i> (Kunth) O. F. Cook.	Arecaceae	
14	<i>Alocasia fornicate</i> (Roxb.) Schott	Araceae	Kachu
15	<i>Colocasia esculenta</i> (L.) Schott	Araceae	Kala kochu
16	<i>Pistia stratioetes</i> L.	Araceae	Bar puni
17	<i>Lemna perpurilla</i> Torruil	Lemnaceae	Saru puni
18	<i>Cyperus cephalotes</i> Vahl.	Cyperaceae	
19	<i>Cyperus compressus</i> L.	Cyperaceae	Muthi bon
20	<i>Cyperus natans</i> Vahl.	Cyperaceae	
21	<i>Cyperus pilosus</i> Vahl.	Cyperaceae	
22	<i>Cyperus platystylis</i> Roxb.	Cyperaceae	
23	<i>Cyperus rotundus</i> L.	Cyperaceae	Keyanbon
24	<i>Fimbristylis globulosa</i> (Retz.) Kunth	Cyperaceae	
25	<i>Coix lacryma-jobi</i> L.	Poaceae	Kauri moni
26	<i>Cymbopogon nardaus</i> (L.) Rendle	Poaceae	Chitnella
27	<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	Duboribon
28	<i>Digitaria ciliaris</i> L.	Poaceae	
29	<i>Panicum repens</i> L.	Poaceae	

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29	<i>Panicum repens</i> L.	Poaceae	
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Gymnosperm

Sl.	Name of species	Family	Local Name
1	<i>Cycas pectinata</i> Buch-Ham.	Cycadaceae	
2	<i>Pinus Khasiana</i> Hook. f.	Pinaceae	Saralgos
3	<i>Araucaria heterophylla</i> (Salisb.) Franco.	Araucariaceae	
4	<i>Cryptomeria japonica</i> (L. f.) D. Don	Cupressaceae	
5	<i>Thuja occidentalis</i>	Cupressaceae	

Presence of 143 species of Angiospermic taxa representing 120 genera under 61 families, with many valuable and economically important plants, makes the Dimoria College campus with rich biodiversity.

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