

Botanical Audit

Udalguri College, Udalguri, BTR, Assam

Introduction:

Udalguri College, established on 20th August 1978, located in Udalguri district is a general degree college of both Arts and Science stream under the Bodoland University, Kokrajhar. The land area of the campus is 42 bigha. As the area has sub-tropical climate so there are various kinds of plants in the campus. Like any other places the flora of this area is closely concern with the climatic condition of this region.

Seasonal characteristics:

Depending upon the temperature and rainfall of the year, it may be divided into four seasons viz., pre-monsoon, monsoon, retreating monsoon and cool-dry winter (M.Barthakur, 1986). The flora of the campus depends on this cycle of climatic season. By early March, the pre-monsoon starts along with gradual rise in the mercury level couple with occasional thunder showers. Up to mid of April, the early part of this season is affected by strong winds causing excessive transpiration and evaporation which turns into dusty storms. The dusty storm subsides towards late April with the frequency of the thunder shower increases. The South-West monsoon starts from the middle of June and continues up to September, it breaks in the area characterize mainly by cloudy weather, high humidity, heavy rainfall with thunder, high temperature and weak variable surface wind. The monsoon season is the most important period for growing, flowering and fruiting of the flora in the area. Again the South-West monsoon starts to retreat by the middle of September and is followed by fogs towards the end of November. The number of rainy days as well as the intensity of rainfall decreases during this season. Some grass species are benefited by the moderate autumn rainfall. The winter season starts at the end of November and continues up to the end of February due to cold weather with low temperature and absence of rainfall there is frequent morning fogs.

List of plants in the campus:

Different types of plants in the campus can be categorized into trees, shrubs, herbs, grasses, climbers and ferns. The following plant lists have the scientific names along with their local names [Bodo (Bd.), Assamese (As.) and English (Eng.)].

[A]List of trees:

1. *Acacia catechu* Willd., **Local name:** Khoir (As./Bd.)

Family: Mimosaceae

2. *Anthocephalus cadamba* Miq., **Local name:** Kadam (As./Bd.)
Family: Rubiaceae
3. *Azadirachta indica* A. Juss., **Local name:** Neem (As./Bd.)
Family: Meliaceae
4. *Bombax ceiba* L., **Local name:** Simolu (As.), Swmli (Bd.)
Family: Bombacaceae
5. *Callistemon citrinus* (Curtis) Stapff., **Local name:** Bottle brush (As./Bd./Eng.)
Family: Myrtaceae
6. *Cassia fistula* L., **Local name:** Sonaru (As./Bd.)
Family: Caesalpiniaceae
7. *Cedrela febrifuga* C. DC., **Local name:** Jati poma (As./Bd.)
Family: Meliaceae
8. *Chrysalidocarpus lutescens* Wendl., **Local name:** Mumai tamul (As.)
Family: Arecaceae
9. *Cocos nucifera* L., **Local name:** Narikol (As./Bd.), Coconut (Eng.)
Arecaceae
10. *Dalbergia sissoo* Roxb., **Local name:** Sissoo (As./Bd./Eng.)
Family: Papiolionaceae
11. *Delonix regia* (Bojr.) Raf., **Local name:** Krishnosura (As./Bd.), Gulmohur (Eng.)
Family: Caesalpiniaceae
12. *Derris indica* (Lamk.) Bennet., **Local name:** Koros (As.), Khoromsu (Bd.)
Family: Papiolionaceae
13. *Dipterocarpus mannii* King ex Kanjilal, **Local name:** Holong (As./Bd.)
Family: Dipterocarpaceae
14. *Dysoxylum gobara* (Buch-Hum) Merr., **Local name:** Lali (As./Bd.)
Family: Meliaceae
15. *Eucalyptus maculata* Hook., **Local name:** Eucalyptus (As./Bd./Eng.)
Family: Myrtaceae
16. *Ficus benghalensis* L., **Local name:** Bot (As.), Phakhri (Bd.), Banyan (Eng.)
Family: Moraceae
17. *Ficus fistulosa* Reinw. ex Bl., **Local name:** Kotia dimuru (As.), Dumbri fisa (Bd.)

- Family: Moraceae
18. *Gmelina arborea* Roxb., **Local name:** Gomari (As.), Gambari (Bd.)
- Family: Verbenaceae
19. *Lannea coromandelica* (Houtt.) Merr., **Local name:** Jia (As./Bd.)
- Family: Anacardiaceae
20. *Livistona jenkinsiana* Griff., Local name: Tokow (As./Bd.)
- Family: Arecaceae
21. *Mangifera indica* L., **Local name:** Aam (As.), Thaiju (Bd.), Mango (Eng.)
- Family: Anacardiaceae
22. *Mesua assamica* L., **Local name:** Nahor (As./Bd.)
- Family: Clusiaceae
23. *Michelia champaca* L., **Local name:** Titasopa (As./Bd.)
- Family: Magnoliaceae
24. *Mimusops elengi* Roxb., **Local name:** Bokul (As./Bd.)
- Family: Sapotaceae
25. *Polyalthia longifolia* (Sonner) Thw., **Local name:** Debodaru (As./Bd.)
- Family: Annonaceae
26. *Psidium guajava* L., **Local name:** Modhuri am (As.), Sofari (Bd.)
- Family: Myrtaceae
27. *Shorea robusta* Gaertn., **Local name:** Sal (As./Bd.)
- Family: Dipterocarpaceae
28. *Sterculia urens* Roxb., **Local name:** Udal (As./Bd.)
- Family: Sterculiaceae
29. *Syzygium cumini* (L.) Skeels., **Local name:** Kolajamu (As.), Gwswm jambu (Bd.)
- Family: Myrtaceae
30. *Tectona grandis* L.f., **Local name:** Segun (As./Bd.), Teak (Eng.)
- Family: Verbenaceae
31. *Terminalia chebula* Retz., **Local name:** Silikha (As./Bd.)
- Family: Combretaceae
32. *Terminalia cuneata* Roth., **Local name:** Arjun (As./Bd.)
- Family: Combretaceae

33. *Terminalia myriocarpa* Heurck et Muell., **Local name:** Holok (As./Bd.)

Family: Combretaceae

34. *Ziziphus mauritiana* Lamk., **Local name:** Bogori (As.), Baigri (Bd.)

Family: Rhamnaceae

[B]List of shrubs:

1. *Cassia alata* L., **Local name:** Khorpat (As.), Khurubilai (Bd.)

Family: Caesalpinaceae

2. *Clerodendrum viscosum* Vent., **Local name:** Phet tita (As.), Mwkhwana (Bd.)

Family: Verbenaceae

3. *Hibiscus rosa-sinensis* L. **Local name:** Joba (As./Bd.)

Family: Malvaceae

4. *Justicia gendarussa* L.f., **Local name:** Tita khori (As.), Jatrasri (Bd.)

Family: Acanthaceae

5. *Mimosa pudica* L., **Local name:** Nilaji bon (As.), Daosamwkhreb (Bd.)

Family: Mimosaceae

6. *Murrya paniculata* (L.) Jack., **Local name:** Kamini kanchon (As./Bd.)

Family: Rutaceae

7. *Murrya koenigii* (L.) Spreng., **Local name:** Norosingha (As.), Nwrsing (Bd.)

Family: Rutaceae

8. *Pandanus fascicularis* Lamk., **Local name:** Keteki phul (As.), Screw pine (Eng.)

Family: Pandanaceae

9. *Solanum anguivi* Lamk., **Local name:** Titabhekuri (As.), Khunthai (Bd.)

Family: Solanaceae

[C]List of climbers:

1. *Clitoria ternata* L., **Local name:** Aparajita (As./Bd.)

Family: Fabaceae

2. *Mikania micrantha* Kunth. ex H.B.K., **Local name:** China lota (As.), Amirikan bendwng (Bd.)

Family: Asteraceae

3. *Monstera deliciosa* Liebm., **Local name:** Lota kosu (As.), Manlagra thaso (Bd.)

Family: Araceae

4. *Paederia foetida* L., **Local name:** Fedai lota (As.), Khifi bendwng (Bd.)

Family: Rubiaceae

5. *Piper longum* L., **Local name:** Pipli (As.), Simfri (Bd.)

Family: Piperaceae

[D]List of herbs:

1. *Ageratum conyzoides* L., **Local name:** Gendheli bon (As.), Mwnamsu hagra (Bd.)

Family: Asteraceae

2. *Amaranthus spinosus* L., **Local name:** Katakhutura (As.), Sugwnang khuduna (Bd.0

Family: Amaranthaceae

3. *Canna indica* L., **Local name:** Parijat phul (As.), Khathri phul (Bd.)

Family: Cannaceae

4. *Catharanthus roseus* (L.) G. Don., **Local name:** Nayan tora (As.), Daodai phul (Bd.)

Family: Apocynaceae

5. *Centella asiatica* (L.) Urban, **Local name:** Bar manimuni (As.)

Family: Apiaceae

6. *Chromolaena odorata* (L.) Voigt., **Local name:** Jarmani bon (As./Bd.)

Family: Asteraceae

7. *Crinum pratens* Herb., **Local name:** Bon nohoru (As.), Hagrani sambram (Bd.)

Family: Amaryllidaceae

8. *Curculigo orchioides* Gaertn., **Local name:** Tamolpotia bon (As.), Hagrani goi (Bd.)

Family: Hypoxidaceae

9. *Eclipta alba* Hassk., **Local name:** Keheraj (As.)

Family: Asteraceae

10. *Hydrocotyle sibthorpioides* Lamk., **Local name:** Horu manimuni (As.)

Family: Apiaceae

11. *Leucas plukenetii* (Roth.) Spreng., **Local name:** Durun (As.), Baramfutu (Bd.)

Family: Lamiaceae

12. *Oxalis corniculata* L., **Local name:** Tengesi (As.), Singrimwkhwi (Bd.)

Family: Oxalidaceae

13. *Solanum nigrum* L., **Local name:** Kosi (As.), Mwisung (Bd.)

Family: Solanaceae

[E]List of grasses:

1. *Cynodon dactylon* (L.) Pers., **Local name:** Duburi bon (As.), Dwori hagra (Bd.)
Family: Poaceae
2. *Chrysopogon aciculatus* (Retz.) Trin., **Local name:** Bonkuti (As.), Samthai (Bd.)
Family: Poaceae
3. *Cyperus rotundus* L., **Local name:** Mutha bon (As.), Nut grass (Eng.)
Family: Cyperaceae
4. *Eleusin indica* Gaertn., **Local name:** Bobocha bon (As.), Dabsa hagra (Bd.)
Family: Poaceae
5. *Imperata cylindrical* (L.) P. Beauv. **Local name:** Ulu kher (As.), Thuri (Bd.)
Family: Poaceae
6. *Saccharum spontaneum* L., **Local name:** Kohua (As.), Khasi hagra (Bd.)
Family: Poaceae
7. *Vetiveria zizanioides* (L.) Nash., **Local name:** Birina (As.), Pherenga (Bd.)
Family: Poaceae

[F]List of ferns:

1. *Angiopteris evecta* (Forst.) Hoffm.
Family: Marattiaceae
2. *Azolla pinnata* R.Br.
Family: Azollaceae
3. *Dryopteris chrysocoma* (Christ) C. Chr.
Family: Dryopteridaceae
4. *Dryopteris dilatata* (Hoffm.) A. Gray
Family: Dryopteridaceae
5. *Equisetum hyemale* L.
Family: Equisetaceae
6. *Marsilea minuta* L.
Family: Marsileaceae
7. *Polypodium vulgare* L.
Family: Polypodiaceae
8. *Pteris vittata* L.

Family: Pteridaceae

9. *Pteridium aquilinum* (L.) Kuhn

Family: Dennstaedtiaceae

10. *Salvinia auriculata* Aubl.

Family: Salviniaceae

[G]Peace and health plants:

1. *Aloe barbadensis* Mill., **Local name:** Salkuori (As.), Salkhungri (Bd.)

Family: Liliaceae

2. *Bryophyllum pinnatum* (Lam.) Oken., **Local name:** Dupor tenga (As./Bd.)

Family: Crassulaceae

3. *Draecaena sanderiana* L., **Local name:** Buri thokon (As./Bd.)

Family: Asperagaceae

4. *Epipremnum aureum* G.S. Bunting., **Local name:** Money plant (As./Bd.)

Family: Araceae

5. *Ocimum sanctum* L., **Local name:** Tulsi (As./Bd.)

Family: Lamiaceae

6. *Sansevieria roxburghiana* Schult. f., **Local name:** Horpa gos (As./Bd.)

Family: Agavaceae

A. List of Cactus Types:

1. Bunny Ears Cactus (*Opuntia microdays*)

2. Old Lady Cactus (*Mammillaria hahniana*)

3. Ballon Cactus (*Parodia magnifica*)

4. Christmas Cactus (*Schlumbergera spp.*)

5. Powder Puff Cactus (*Mammillaria boolii*)

6. Moon Cactus (*Gymnocalycium mihanovichii*)

7. Star Cactus (*Astrophytum asterias*)

8. Fairy Catle Cactus (*Acanthocerus tetragonus*)

9. Lady Finger Cactus (*Mammillaria elongta*)

10. Crown Cactus (*Reputia marsoneri*)

11. Prickly Pear Cactus (*Opuntia microphylla*)

12. Queen of Night (*Epiphyllum oxypetalum*)

B.List of Fern and Fern allies Types:

- 1.Grey Ghost Lady Fern (*Athyrium niponicum*)
- 2.Harts Tongue Fern (*Asplenium scolopendrium*)
- 3.Delta Maidenhair (*Adiantum raddianum*)
- 4.Hen and Chickens Fern (*Asplenium bulbiferum*)
- 5.Kangaroo Fern (*Microrosum diversifolium*)
- 6.Birds Nest Fern (*Asplenium nidum*)
- 7.Eagle Fern (*Pteridium aquilinum*)
- 8.Holly Fern (*Cyrtomium falcatum*)
- 9.Giant Wood Fern (*Dryopteris goldieana*)
- 10.Northern Maidenhair Fern (*Adiantum pedatum*)
- 11.Australian Tree Fern (*Sphaeropteris cooperi*)
- 12.Hard Fern (*Blechnum spicant*)
- 13.Water Fern (*Azolla spp.*)
- 14.Water Fern (*Salvinia spp.*)
- 15.Western Sward Fern (*Polysticchum munitum*)
- 16.Boston Fern (*Nephrolepis exaltata*)
- 17.Tangle Fern (*Gleichenia dicarpa*)
18. Varieties of *Pteris spp.*
- 19.Varieties of *Polypodium spp.*

C.List of Orchid Types:

- 1.*Aerides multiflora*
- 2.*Aerides odorata*
- 3.*Cymbidium aloifolium*
- 4.*Dendrobium aphyllum*
- 5.*Papilionanthe teres*
- 6.*Rhynchostylis retusa*
- 7.*Arundina graminifolia*
- 8.*Cymbidium iridioides*
- 9.*Dendrobium nobile*
- 10.*Aplectrum hyemale*

11. *Cypripedium acaule*
12. *Vanda coerulea*
13. *Rhynchosyles gigantea*
14. *Bulbophyllum grandiflora*
15. *Masdevallia* spp.

D. List of Indigenous Medicinal Herbs and Shrubs:

1. *Acorus calamus*
2. *Euphorbia hirta*
3. *Achyranthus aspera*
4. *Mikania micrantha*
5. *Centella asiatica*
6. *Bryophyllum pinnatum*
7. *Leucas aspera*
8. *Chenopodium album*
9. *Oxalis corniculata*
10. *Bacopa monnieri*
11. *Hottuynia cordata*
12. *Alternanthera sessile*
13. *Rauvolfia serpentine*
14. *Catharanthus roseus*
15. *Ocimum sanctum*
16. *Aloe vera*
17. *Zingiber officinale*
18. *Curcuma longa*
19. *Curcuma amada*
20. *Curcuma aromatic*
21. *Allium cepa*
22. *Azaratum conizoedes*
23. *Asparagas* spp.
24. *Paederia foetida*
25. *Murrya koenigii*

26. *Polypodium virginianum*

27. *Clitoria ternatea*

28. *Cassia alata*

29. *Typhonium trilobatum*

30. *Commelia benghalensis*

31. *Alocasia indica*

32. *Lasia spinosa*

33. *Spilanthes paniculata*

34. *Cynodon dactylon*

35. *Clematis cadmia*

36. *Andrographis paniculata*

Conclusion:

Population explosion, unchecked destruction of forest, monoculture, network of roads, industrialization, over collection of medicinal and vegetable plants, loss of potential habitat and climatic changes have definitely altered the vegetation pattern of the universe and has caused scarcity of many species. There is a dire need to promote *ex situ* conservation practice. Hence, modern scientific methods of conservation and development of suitable cultivation techniques are required for balancing our ecosystem.

Therefore, to prevent those above-mentioned conditions we (Udalguri College family) must also join our hands together to conserve the varieties of plants available at our campus as it says "making one small change at a time can be life-changing".

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