

"SANJEEVANIVATIKA"-theAnandaChandraCollegeMedicinalPlantGarden

The Ananda Chandra College Medicinal Plant Garden was established in 2009 under a Research Project carried out by the then Principal Dr. Hiranmay Biswas (PI), funded by the West Bengal State Council of Science & Technology with the aim of conservation and propagation of Medicinal Plants of North Bengal region. The garden covered almost an area of one acre lying vacant within the college campus, behind the college building on the bank of Karala River. The teachers of Botany Department Dr.Rita Som Paul and Sri Suman Sen were the Co-PIs in the project. Extensive survey work was carried out to different forest villages of North Bengal with the help of the Forest Department and propagules were collected for planting in the demonstration plot of the garden. Several workshops were also conducted and SHGs were made awareabout thedemand of Medicinal Plantsand their market value. The garden gradually turned out to be a green paradise with near about 250 odd species of herbs, shrubs and trees, all of which had great medicinal value. Plants like Abroma augusta, Achyranthes aspera, Justicia adhatoda, Aloe vera, Andrographis paniculata, Asparagus racemosus, Averrhoea carambole, Bixa orellana, Cajanus cajan and Catharanthus roseus to name a few (list enclosed). After completion of the said project the maintenance of the garden and its sustenance became a major problem. BotanyDepartmentcameupwithaminorprojectduring2011-2013whichcouldhelpa

little insustaining the college MedicinalPlant Garden. Thereafter, the college authorityhas been taking care of this garden with the help of the faculty of Botany Department in terms of knowledge based support. Unfortunately, during Covid lockdown period, little or no care of the garden could be taken for a long period of time leading to the loss of several medicinally important plant species. Moreover, the undergrowth of weeds damaged the garden flora. Post lockdown, the college is trying to restore the garden gradually with the help of Botany Department and technical support from the Medicinal Plant Garden of the North Bengal University. The aim is to create a herbal garden which would academically benefit both the students and the faculty of the college. Another aim is to protect and sustain several endangered and rare speciesofplants. Presently, the gardenhasnearly70 oddspeciesofidentified medicinal plants and efforts are on to introduce more medicinally useful plant species in the garden from the vast treasure of medicinal and aromatic plants of North Bengal flora.



Photographstakenwhentheherbalgardenwasin fullvigour



 $The geographical location\ of the Medicinal Plant Garden$

$\underline{List of Medicinally important plant species grown in the garden during project tenure}$

	Common name	Scientific name (in alphabetic order)	Family
SI. No			Sterculiaceae
1	Olatkambal	Abroma augusta (L) L.J.	Papilionaceae
2	Kuch	Abrus pulchellus Wall ex Thw	Malvaceae
3	Petari	Abutilon indicum (L) Sweet	Amaranthaceae
4	Apang	Achyranthes aspera L.	Asteraceae
5	Pirazh	Acmella uliginosa (Schwartz) Cussiin	Araceae
6	Bach	Acorus calamus L	Acanthaceae
7	Bashok	Adhatoda vasica (L.) Nees	Adiantaceae
8	Kali Jhamp	Adiantum philipense L	Rutaceae
9	Beal	Aegle marmelos (L.) correct	Orchidaceae
10	Foxtail Orchid	Aerides multiplorum Koxb.	Amaranthaceae
11	Lal bishollokoroni	Aerva jasanguinolenta(c) biome	Asteraceae
12	Uchuni	Ageratum conyziotes L.	Araceae
13	Kalo kochu	Alocasia jallax schole	Araceae
14	Man Kachu	Alocasia macronniza (L) & bon	Liliaceae
15	Ghritakumari	Aloe verd (L) Burninj.	Apocyanaceae
16	Chatim	Alstonia scholaris (L) K.Br.	Amaranthaceae
17	Sanchi shak	Alternanthera sessins (L) DC	Amaranthaceae
18	Kanta notey	Amaranthus spinosus L.	Acanthaceae
19	Kalmegh	Andrographis paniculata (Burm.)/Wall exitees	Annonaceae
20	Nona	Annona involucrata L.	Annonaceae
21	Ata	Annona squamosa L.	Actoração
22	Nagdamani	Artemisia vulgaris L.	Asteriaceae
23	Bamboo Orchid	Arundina gramifolia (D Don) Hochr	Urchiuaceae
24	Satamuli	Asparagus racemosus Willd	Asparagaceae
25	Kamranga	Averrhoea carambole L.	Oxalidaceae
26	Jati neem	Azadirachta indica A.Juss.	Meliaceae
27	Brahmi	Bacopa monnieri (L.) Pennel	Scrophulariaceae
28	Kata bishollokoroni	Barleria lupulina Linl	Acanthaceae
20	Neel jati	Barleria strigosa Willd.	Acanthaceae
20	Rokto kanchon	Bauhinia purpurea L.	Caesalpiniaceae
21	Venesta	Bianonia venusta Miers	Bignoniaceae
22	Sinduri	Bixa orellana L.	Bixaceae
22	Duparpaua	Boerhaavia diffusa L	Nyctaginaceae
33	Punamava	Bember coiha l	Bombaceaeae
34	Shimul	Bornbox cerbo L.	Caesalniniaceae
35	Nata	Caesalpinia bonauc (L) Koxb.	Papilionaceae
6	Arhar	Cajanus cajan (L) Millsp.	Papilionaceae
7	Akondo	Calotropis gigantea(L) R.Br. ex Aiton	Asciepiadaceae
8	Swet akondo	Calotropis procera (Ait.) R.Br.	Asclepiadaceae
9	Kalabati	Canna indica L.	Cannaceae
	Gania	Cannabis sativa L.	Cannabinaceae



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41	Dadmari	Cassia alata L.	Caesalpiniaceae
42	Nayantara	Catharanthus roseus (L.) G. Donn	Apocyanaceae
43	Thankuni	Centella aslatica (L) Urban	Apiaceae
44	Bathua	Chenopodium album L.	Chenopodiaceae
45	Harjora	Cissus quadrangularis L.	Vitaceae
46	Baro lebu	Citrus medica L.	Rutaceae
47	Torel	Cleome rutidosperma DC	Cleomaceae
48	Hurhure	Cleome gynandra L.	Cleomaceae
49	Bamanhati	Clerodendrum Indicum (L.) Kuntze	Verbenaceae
50	Bhant	Clerodendrum viscosum Vent.	Verbenaceae
51	Aporajita	Clitoria ternatea L.	Papilionaceae
52	Telakucha	Coccinia grandis (L.) Voigt.	Cucurbitaceae
53	Pathorkuchi	Coleus aromaticus Benth.	Lamiaceae
54	Kanchira	Commelina benghalensis L.	Commelinaceae
55	Kémuk	Costus speciosus (Koen. Ex. Retz.) Smith	Costaceae
56	Atashi	. Crotalaria retusa L.	
57	Chur-churi	Croton bonplandianum Baillon	Euphorbiaceae
58	Amada	Curcuma amada Roxb.	Zingiberaceae
59	Bon Haldi	Curcuma aromatica Salisb.	Zingiberaceae
60	Kalo holud	Curcuma caesia Roxb.	Zingiberaceae
61	Swarnalata	Cuscuta reflexa Roxb.	Cuscutaceae
62	Cycas	Cycas circinalis L.	Cycadaceae
63	Lemon grass	Cymbopogon martinii (Roxb.) Wats (Syn C. citratus Stampf.)	Poaceae
64	Citronella	Cymbopogon winterianus Jowitt. (Syn C. nardus)	Poaceae
65	Durba	Cynodon dactylon (L.) Pers.	Poaceae
66	Nirbish	Cyperus kyllinga Endl.	Cyperaceae
67	Krishna Dhatura	Datura metel L.	Solanacae
68	Bans	Dendrocalamus strictus (Roxb.) Nees	Poaceae
69	Bhuipat	Dentella repens (L) Frost	Rubiaceae
70	Solpani	Desmodium agnaeticum (L) DC	Fabaceae
71	Bon chandal	Desmodium motorium (Houtt) Marr	Papilionneone
71	Bon alu	Discorage hulbifora l	Diese
72	Kanta alu	Dioscoreg assulants (Laureira) Dustill	Dioscoreaceae
70	Ognikunda	Dioscorea esculenta (Loureiro) Burkill	Dioscoreaceae
74	Oginkundo	Dracaena spicata koxp.	Asparagaceae/Agavad eae
15	Pankhiraj	Drynaria quercifolia (L) J.Sm.	Polypodiaceae
76	Hatipa	Elephantopus scaber L.	Asteraceae
77	Rakta piyaj	Eleutherina bulbosa (Miller) Urban	Iridaceae
78	Tagar	Ervatamia divaricata Bl	Apocyanaceae
79	Bilati dhone	Ervngium foetidum L.	Aniaceae
80	Avapan	Eunatorium triplinense Vahl	Actorace
81	Pushidudh	Euphorbia birta l	Funk and in a
87	Manca Cil		Euphorbiaceae
2	Ivialisa Sij	Eupnorbia nerifolia L	Euphorbiaceae
53	Lankas Sij	Euphorbia tirucalli L	Euphorbiaceae



84	Dumur	Ficus hispida L.f.	Moraceae
85	Jaggya dumur	Ficus racemosa L	Moraceae
86	Asathwa	Ficus religiosa L.	Moraceae
87	Gima	Glinus oppositifillus (L) A.D.C.	Aizoaceae
88	Ulatchandal	Gloriosa superba L	Lillaceae
89	Kalpahi bon	Gnaphalium Indicum L	Asteraceae
90	Gurmar	Gymnema sylvestre (Rtz) R.Br. ex Schult.	Asclepidaceae
91	Hatisur	Heliotropium Indicum L.	Boraginaceae
92	Joba	Hibiscus rosa-sinensis	Malvaceae
93	Kurchi	Holarrhena pubescence (Buch –Ham) G. Don	Apocyanaceae
94	Kulekhara	Hygrophila auriculata (Schum.) Heine	Acanthaceae
95	Bon tulsi	Hyptis soaveolens(L) Poiteau.	Lamiaceae
96	Shada bherenda	Jatropha curcas L.	Euphorbiaceae
98	Lal bherenda	Jatropha gossypifolia L.	Euphorbiaceae
99	Jagat Madan	Justicia gendarussa L.f.	Acanthaceae
100	Bhui champa	Kaempferia galanga L	Zingiberaceae
101	Patharkuchi	Kalanchoe pinnata (Lam) Pers.	Crassulaceae
102	Jarul	Lagestroemia reginae Roxb.	Lythraceae
103	Raktadron	Leonurus sibiricus L.	Lamiaceae
104	Dandakalosh	Leucas indica (L) R.Br. ex Vatke	Lamiaceae
105	Ban Lavanga	Ludwigia octavalsis (Jacq.) Raven.	Onagraceae
106	Bhutraj	Lygodium flexuosum (L) SW	Lygodiaceae
107	Ararut	Maranta arundinacea L.	Marantaceae
108	Sushni	Marsilea minuta L.	Marsileaceae
109	Futki	Melastoma malabatricum L.	Melastomaceae
110	Ghora neem	Melia azedirach L.	Meliacae
111	Pudina	Mentha piperita L.	Lamiaceae
112	Nagkesar	Mesua ferrea L.	Clusiaceae
113	Champa	Michelia champaca L.	Magnoliaceae
114	Assamilata	Mikania micrantha H.B.K.	Asteraceae
115	Lajjaboti	Mimosa pudica L.	Mimosaceae
116	Bakul	Mimusops elengi L.	Sapotaceae
117	Sadhvamaloti	Mirabilis jalapa L.	Nyctaginaceae
118	Salina	Moringa oleifera Lamk.	Moringaceae
119	Alkushi	Mucuna pruriens (L) DC	Papilionaceae
120	Lanka joha	Malvaviscus arboreus Cav	Malvaceae
171	Raktakarahi	Narium indicum Mill	Anoguanacaaa
177	Ron Tamak	Nicotiana plumbaginifolia Viuiani	Soloonsooo
122	Mieti tulei	Osimum kasilisum l	Solanaceae
125	IVIISTI CUISI	Ocimum Basilicum L	Lamiaceae
124	Kam tuisi	Ocimum gratissimum L.	Lamiaceae
125	Radha Tulsi	Ocimum sanctum L	Lamiaceae
.26	Khetpapra	Oldenlandia corymbosa L.	Rubiaceae
27	Adder's tongue	Ophioglossum nudicaule L.f.	Ophioglossaceae
28	Totola	Oroxylum indicum (L) Vent.	Oroxylaceae
29	Amrul	Ovalis corpiculata I	Oralidaceae



4.74	Luchinata	Paparomia pollucida (L) H.B.K.	Piperaceae
131	Nilmanilata	Petrog volubilis L	Verbenaceae
132	Amlaki	Phyllanthus emblica L.	Euphorbiaceae
133	Bhui amloki	Phyllanthus fraternus Webster	Euphorbiaceae
135	Bon Tepari	Physalis minima L.	Solanaceae
136	Pipul	Piper longum L.	Piperaceae
137	Rokto chita	Plumbago Indica L.	Plumbaginaceae
138	Shada Chita	Plumbago zeylanica L.	Plumbaginaceae
139	Patchouli	Pogostemon patchouli J. Pellet	Lamiaceae
140	Pani-maricha	Polygonum hydropiper L.	Polygonaceae
141	Brake fern	Pteris vittata L.	Pteridaceae
142	Sarpagandha	Rauvolfia serpentina (L.) Benth ex Kurz	Apocyanaceae
143	Gondhonokuli	Rauvolfia tetraphylla L.	Apocyanaceae
144	Rheo	Rhoeo spathacea f.concolor(Baker)Stehle	Commelinaceae
145	Reri	Ricinus communis L.	Euphorpiaceae
146	Asok	Saraca asoca (Roxb.) de Wilde	Caesalpiniaceae
147	Bondhone	Scoparia dulcis L.	Scrophulariaceae
148	Shibjota	Sensevieria cylindrica Boj.	Liliaceae
149	Berela	Sida acuta Burm f.	Malvaceae
150	Shet berela	Sida cordifolia L.	Malvaceae
151	Peet berela	Sida rhomboidea Roxb. Ex Fleming	Malvaceae
152	Kukurdaini/Kumari ca	Smilax ovalifolia Roxb.	Smilacaceae
153	Kakmachi	Solanum nigrum L.	Solanaceae
154	Stevia	Stevia rebaudiana (Bertoni) Bertoni	Asteraceae
155	Dalda gaach	Talinum patens (L) Willd.	Portulacaceae
156	Yellow	Tecoma stans (L) Juss ex Kunth.	Bignoniaceae
157	Bon nil	Tephrosia purpurea (L) Piers.	Papilionaceae
158	Bahera	Terminalia bellerica (Gaertn.) Roxb.	Combretaceae
150	Haritaki	Terminalia chebula Retz.	Combretaceae
160	Gulancha	Tinospora cordifolia (Wild.) Miers. Hook.f. & Thoms.	Menispermaceae
161	Jol bichuti	Tragia involucrata L	Euphorbiaceae
162	Targanda	Tridax procumbans L.	Asteraceae
162	longli netari	Urena lobata L.	Malvaceae
164	Nichinda	Vitex negundo L	Verbenaceae
104	Mingaral	Wedelia calendulacea (L) Less	Asteraceae
165	vringaraj	Venthium strumsting 1	Asteraceae
166	Bichaphal, gagra	Aunthum strumunum L.	Zamiaccae
167	Cardboard plant (E)	Zamia jurjuracea L.J.	Zamaceae
.68	Bon ada	Zingiber cassumunar Roxb.	Zingiberaceae
69	Ada	Zingiber officinale Roxb.	Zingiberaceae
70	Kalo ada/Bon ada	Zingiber purpureum Roxb.	Zingiberaceae
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Students of Botany Honours (6thSemester)along with their teachers studying the garden flora (Recent pictures)

SINo.	ScientificName	Family
1.	Abelmoschusmoschatus	Malvaceae
2.	Achyranthesaspera	Amaranthaceae
3.	Aloevera	Asphodelaceae
4.	Andrographispaniculata	Acanthaceae
5.	Artocarpusheterophyllus	Moraceae
6.	Asparagusracemosus	Asparagaceae
7.	Averrhoacarambola	Oxalidaceae
8.	Ayapanatriplinervis	Asteraceae
9.	Bacopamonnieri	Plantaginaceae
10.	Bambusavulgaris	Poaceae
11.	Barleriacristata	Acanthaceae
12.	Barleriastrigose	Acanthaceae
13.	Bauhiniavariegata	Fabaceae
14.	Bixa orellana	Bixaceae
15.	Chamaecostuscuspidatus	Costaceae
16.	Cinnamomumverum	Lauraceae
17.	Cissusquadrangularis	Vitaceae
18.	Clerodendrum infortunatum	Verbenaceae
19.	Coffeabenghalensis	Rubiaceae
20.	Colocasiasp.	Araceae
21.	Curcumaamada	Zingiberaceae
22.	Cymbopogon flexuosus	Poaceae

${\bf List of identified Medicinal Plants in the garden at \ present}$

23.	Dracaenatrifasciata	Asparagaceae
24.	Ficus racemosa	Moraceae
25.	Glycosmis pentaphylla	Rutaceae
26.	Gmelina arborea	Lamiaceae
27.	Helleniaspeciosa	Costaceae
28.	Hygrophilaauriculata	Acanthaceae
29.	Jasminumsambac	Oleaceae
30.	Justicia adhatoda	Acanthaceae
31.	Kaempferiaparviflora	Zingiberaceae
32.	Kaempferiarotunda	Zingiberaceae
33.	Kalanchoepinnata	Crassulaceae
34.	Litchichinensis	Sapindaceae
35.	Lygodiumjaponicum	Lygodiaceae
36.	Mangiferaindica	Anacardiaceae
37.	Menthapiperita	Lamiaceae
38.	Ocimumgratissimum	Lamiaceae
39.	Oroxylumindicum	Oroxylaceae
40.	Paederiafoetida	Rubiaceae
41.	Pandanusodorifer	Pandanaceae
42.	Phlogacanthusthyrsiformis	Acanthaceae
43.	Phylanodiflora	Verbenaceae
44.	Phyllanthusemblica	Euphorbiaceae
48.	Phyllanthusniruri	Euphorbiaceae

49.	Piper nigrum	Piperaceae
50.	Pleurolobus gangeticus	Fabaceae
51.	Plumbagoindica	Plumbaginaceae
52.	Psidiumguajava	Myrtaceae
53.	Rauvolfia serpentina	Apocynaceae
54.	Spermacoce pusilla	Rubiaceae
55.	Sphagneticola calendulacea	Asteraceae
56.	Swieteniamacrophylla	Meliaceae
57.	Syzygiumcumini	Myrtaceae
58.	Tabernaemontanadivaricata	Apocynaceae
59.	Talinumpaniculatum	Talinaceae
60.	Terminalia bellirica	Combretaceae
61.	Terminalia chebula	Combretaceae
62.	Tinospora cordifolia	Menispermaceae
63.	Ziziphusmauritiana	Rhamnaceae



SINO	Scientific name
1	Abelmoschus moschatus Medik.
2	Achyranthes aspera L.
3	Aloe sp.
4	Aloe vera (L.) Burm.f.
5	Andrographis paniculata (Burm.f.) Wall. ex Nees
-	Asparagus racemosus Willd.
0	Avanana triplinervis (Vahl) R.M.King & H.Rob.
/	Record mornieri (L.) Wettst.
8	Bacipria cristata L.
9	Barleria strigosa Willd.
10	Barleria strigosa Willd.
10	Birren and Birren Bir
12	Characteristic cuspidatus (Nees & Mart.) C.D.Specht & D.W.Stev.
13	
14	Clerodendrum Infortundum E.
15	Coffee beignalensis B.reyne ex roat
16	Colocasia sp.
17	Cymbopogon Jiexuosus (Nees ex sieud.) with watson
18	Dracaena trifasciata (Prain) Mabb.
19	Duranta erecta L.
20	Equisetum sp.
21	Euphorbia tithymaloides L.
22	Hellenia speciosa (J.Koenig) S.R.Dutta
23	Hygrophila auriculata (Schumach.) Heine
24	Justicia adhatoda L.
25	Kaempferia rotunda L.
26	Kalanchoe pinnata (Lam.) Pers.
27	Mentha x piperita L.
28	Ocimum gratissimum L.
29	Paederia foetida L.
30	Pandanus odorifer (Forssk.) Kuntze
31	Pandamus odorifer (Forssk.) Kuntze
32	Phlogacanthus thursiformis (Roxh ex Hardw) Mabh
33	Phyla nodiflora (1.) Greene
34	Phylambagora (E.) Greene
35	Pinar Journal I
36	Piper longum L.
37	Plennelokus amaging (L) 15t 111 - 11 ol - 110 11 ol - 11
28	Preuronous gangeneus (L.) J.StHil. ex H.Ohashi & K.Ohashi
20	Spermacoce pusitia Wall.
39	 Spnagneticola calendulacea (L.) Pruski
	< Talinum paniculatum (Jacq.) Gaertn.

Documents for logistic and knowledge based support from the Centre for Conservation & Utilization of Medicinal and Aromatic plants,NBU for the revival of the medicinal plants garden.