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Indigenous Uses of Plants among Forest-dependent Communities of Seijosa, Arunachal Pradesh

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Abstract

The present paper explores the dependence of local population of Seijosa circle of Pakke-Kessang district, Arunachal Pradesh on the phytoresources available here. Local population of Seijosa circle has their unique system of resource management. They are directly dependent on their surroundings for *timber forest products* (TFPs) and *non timber forest products* (NTFPs). This area is rich in vascular plant diversity which directly or indirectly supports wild life also. In present study total 365 plant species belonging to 272 genera and 95 families have been recorded, which are utilized by natives of this area in the form of beverage, broom making, canes, condiment / spices, craft, dye, edible (fruit), fiber, fodder, fuel, medicinal, oil, ornamental, paper pulp, resin, tannin, timber, vegetable, etc.

Keywords: Arunachal Pradesh, medicinal uses, phytoresources, Seijosa circle

1. Introduction

Seijosa is situated in Pakke-Kessang district of Arunachal Pradesh (India). The total population of the Arunachal Pradesh spreading over 25 districts is about 13,83,727 (Census, 2011). The state is comprised of about 26 major tribes like *Nyishi*, *Apatani*, *Adi*, *Tagin*, *Monpa*, *Nocte*, *Mishimi*, *Idu-mishmi* etc., and over 110 sub-tribes inhabiting in different parts of the state (Pandey et al., 1999; Perme et al., 2015). It is a transition zone between Assam valley and Eastern Himalaya, which is considered to be luxuriant in floral diversity and has been recognized as the 25th biodiversity hotspot in the world (Chowdhery, 1999). Publication of Chowdhery et al. (1996, 2008, 2009), Tag et al. (2012), Ambrish (2013), Dash and Singh (2017) provides the baseline data on the Angiosperm diversity of the state. The major ethnic group found is *Nyishi* tribe in Seijosa with population of over 10,000 (Census 2011) used phytoresources for their daily requirement in different forms as Beverage, Broom making, Canes, Condiment / Spices, Craft, Dye, Edible (fruit), Fiber, Fodder, Fuel, Medicinal, Oil, Ornamental, Paper Pulp, Resin, Tannin, Timber, Vegetable, etc. Tag and Das (2004), Ali and Ghosh (2006), Angami et al. (2006), Tangjang et al. (2011), Jeri et al. (2011), Shankar and Rawat (2012), Perme et al. (2015), Murtem and Chaudhry (2016), Jeyaprakash et al. (2017) and Danggen et al. (2018) conducted ethnobotanical study among various tribal communities of Arunachal Pradesh. However, Srivastava et al. (2010), Yakang

et al. (2013), Singh and Asha (2017), Lyngdoh et al. (2016), Lungphi et al. (2018) and Balkrishna et al. (2019, 2021) studied traditional knowledge among different tribal communities of Arunachal Pradesh. The current survey recorded 365 plant species belonging to 272 genera and 95 families through systematic collection highlighting the utilization of various plant species by local natives and hence finding out the phytoresources in Seijosa circle of Arunachal Pradesh.

2. Materials and Methods

The present study was conducted during 2018-2019 in Seijosa circle under Pakke-Kessang district of Arunachal Pradesh. This area is a Tropical Evergreen Forest (1B/C₁, 1B/C₂) region falling under eastern Himalaya at an elevation of 300-550 m a.s.l. lies between the latitude 26°40'-27°20'N and longitude 93°-93°12'E (Figure 1) (Champion and Seth, 1968). Maximum-minimum temperature recorded at the foothills of Seijosa varies from 14-25°C in the month of January to 25-36°C in June. Heavy rainfall occurs in between April-October and November-January in the dormant period for plants. Average rainfall is 3742 mm and relative humidity varies from 32% to 93%.

Authors interacted with local people to know about the phytoresources and good specimens (those bearing flowers and/or fruits) of all the economic plants identified by the local guides were collected as voucher specimens during the field work following guided methodology (Jain and Rao,



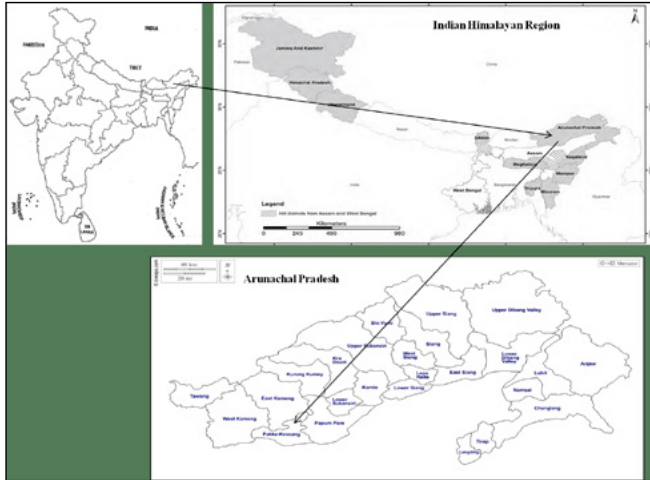


Figure 1: Map of Study area along with Arunachal Pradesh and India

1977). Each specimen was recorded with scientific and/or local name as far as possible. Information was also supported with photographs of the sites, individual plants and the useful parts. Identification of the plants was made as per available literature on regional floras and *Flora of British India* as well as matching with the herbarium sheets available on Kew websites. The identified herbarium sheets were deposited at Patanjali Research Foundation Herbarium (PRFH) Haridwar (Uttarakhand) for future reference. The scientific names of the plants were updated from *IPNI*, *Tropicos*. After extensive survey, the phytoresources of Seijosa circle have been enumerated in Table 3. Botanical name, family, habit, common/vernacular name, plant parts used along with medicinal and other uses have also been given.

3. Results and Discussion

In present study total 365 plant species belonging to 272 genera and 95 families have been recorded, which are in use by natives of the study area in the form of beverage, broom making, canes, condiment / spices, craft, dye, edible (fruit), fiber, fodder, fuel, medicinal, oil, ornamental, paper pulp, resin, tannin, timber,vegetable, etc (Table 1). The highest

number of species used by the natives are from the family Poaceae contribute maximum [27 (19 species of grass and 08 species of woody grasses)] species followed by Fabaceae (20), Asteraceae (16), Malvaceae (15), Lamiaceae (14), Rubiaceae (11), Cucurbitaceae, Euphorbiaceae, Urticaceae (10 each), Amaranthaceae, Lauraceae, Solanaceae (9 each) Apocynaceae, Moraceae (8 each), Araceae, Arecaceae, Fagaceae (7 each), Acanthaceae, Phyllanthaceae, Rutaceae (6 each) and Anacardiaceae, Commelinaceae, Dioscoreaceae, Piperaceae, Polygonaceae, Zingiberaceae (5 each) (Table 2). *Solanum* L. was the dominant genus used with 8 species followed by *Ficus* L. (6 species), *Piper* L. (5), *Bambusa* Schreb., *Begonia* L., *Boehmeria* Jacq., *Calamus* L., *Castanopsis* (D. Don) Spach, *Dendrocalamus* Nees, *Dioscorea* L., *Persicaria* Mill., *Ziziphus* Mill. (3 species each). The most utilized plant species are herbs (including plants of Poaceae) (115), followed by trees (111), shrubs (63), climbers (50), under-shrubs (16), lianas (7) and epiphytes (3) (Figure 2.). Most of the species have medicinal value (226 species) followed by fodder (55 species), vegetable (50 species), edible (43 species) & ornamental (43

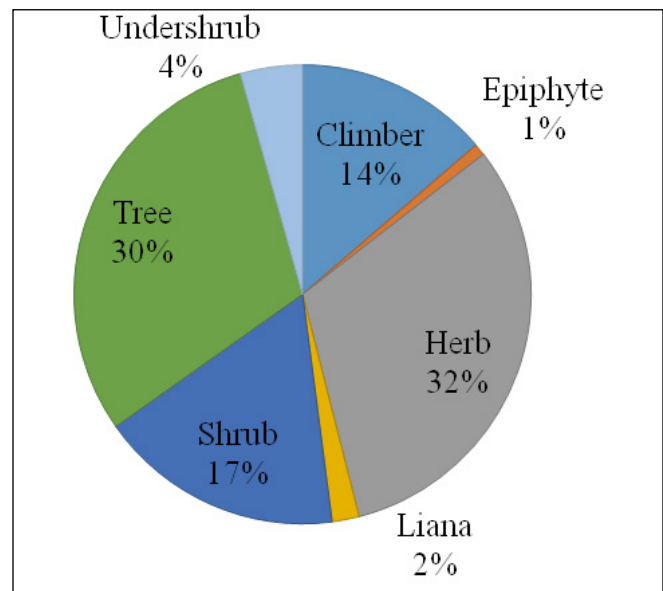


Figure 2: Contribution of plant species according to their habits

Table 1: Number of plant species used by local natives for various purposes

Sl. No.	Uses	No. of Plants	% Contribution	Sl. No.	Uses	No. of Plants	% Contribution
1.	Beverage	2	0.36	10.	Fuel	34	6.22
2.	Broom making	1	0.18	11.	Medicinal	226	41.32
3.	Canes	4	0.73	12.	Oil	3	0.55
4.	Condiment / Spices	9	1.65	13.	Ornamental	43	7.86
5.	Craft	6	1.1	14.	Paper Pulp	9	1.65
6.	Dye	12	2.2	15.	Resin	2	0.36
7.	Edible	43	7.86	16.	Tannin	1	0.18
8.	Fiber	10	1.82	17.	Timber	37	6.76
9.	Fodder	55	10.05	18.	Vegetable	50	9.14

Table 2: Family wise distribution of Indigenous plants of Seijosa circle, Pakke-Kessang district

Sl. No.	Family	No. of plants	% Contribution	Sl. No.	Family	No. of plants	% Contribution
1.	Acanthaceae	6	1.64	41.	Dilleniaceae	1	0.27
2.	Achariaceae	1	0.27	42.	Dioscoreaceae	5	1.37
3.	Actinidiaceae	1	0.27	43.	Elaeocarpaceae	1	0.27
4.	Amaranthaceae	9	2.46	44.	Euphorbiaceae	10	2.74
5.	Amaryllidaceae	2	0.54	45.	Fabaceae	20	5.48
6.	Anacardiaceae	5	1.37	46.	Fagaceae	7	1.91
7.	Annonaceae	1	0.27	47.	Gnetaceae	1	0.27
8.	Apiaceae	2	0.54	48.	Juglandaceae	1	0.27
9.	Apocynaceae	8	2.19	49.	Lamiaceae	14	3.83
10.	Araceae	7	1.91	50.	Lauraceae	9	2.46
11.	Araliaceae	3	0.82	51.	Linderniaceae	2	0.54
12.	Araucariaceae	1	0.27	52.	Lythraceae	2	0.54
13.	Arecaceae	7	1.92	53.	Magnoliaceae	3	0.82
14.	Aristolochiaceae	1	0.27	54.	Malpighiaceae	1	0.27
15.	Asteraceae	16	4.38	55.	Malvaceae	15	4.11
16.	Basellaceae	1	0.27	56.	Melastomataceae	3	0.82
17.	Begoniaceae	4	1.1	57.	Meliaceae	2	0.54
18.	Bignoniaceae	2	0.54	58.	Menispermaceae	3	0.82
19.	Brassicaceae	2	0.54	59.	Molluginaceae	1	0.27
20.	Bromeliaceae	1	0.27	60.	Moraceae	8	2.19
21.	Cactaceae	1	0.27	61.	Musaceae	1	0.27
22.	Calophyllaceae	1	0.27	62.	Myrtaceae	4	1.1
23.	Campanulaceae	1	0.27	63.	Nyctaginaceae	2	0.54
24.	Cannabaceae	2	0.54	64.	Oleaceae	3	0.82
25.	Capparaceae	1	0.27	65.	Onagraceae	1	0.27
26.	Caprifoliaceae	1	0.27	66.	Orchidaceae	4	1.1
27.	Caricaceae	1	0.27	67.	Oxalidaceae	3	0.82
28.	Caryophyllaceae	2	0.54	68.	Pandanaceae	1	0.27
29.	Celastraceae	1	0.27	69.	Passifloraceae	1	0.27
30.	Chloranthaceae	1	0.27	70.	Pedaliaceae	1	0.27
31.	Cleomaceae	1	0.27	71.	Phyllanthaceae	6	1.64
32.	Clusiaceae	1	0.27	72.	Pinaceae	1	0.27
33.	Combretaceae	2	0.54	73.	Piperaceae	5	1.37
34.	Commelinaceae	5	1.37	74.	Plantaginaceae	1	0.27
35.	Convolvulaceae	3	0.82	75.	Poaceae	28	7.67
36.	Cornaceae	1	0.27	76.	Polygonaceae	5	1.37
37.	Costaceae	1	0.27	77.	Pontederiaceae	1	0.27
38.	Crassulaceae	1	0.27	78.	Primulaceae	2	0.54
39.	Cucurbitaceae	10	2.74	79.	Ranunculaceae	2	0.54
40.	Cupressaceae	1	0.27	80.	Rhamnaceae	4	1.1

Table 2: Continue...



Sl. No.	Family	No. of plants	% Contribution	Sl. No.	Family	No. of plants	% Contribution
81.	Rosaceae	4	1.1	89.	Styracaceae	1	0.27
82.	Rubiaceae	11	3.01	90.	Theaceae	2	0.54
83.	Rutaceae	6	1.64	91.	Thymelaeaceae	1	0.27
84.	Sapindaceae	3	0.82	92.	Urticaceae	10	2.74
85.	Saururaceae	1	0.27	93.	Verbenaceae	3	0.82
86.	Scrophulariaceae	1	0.27	94.	Vitaceae	3	0.82
87.	Smilacaceae	2	0.54	95.	Zingiberaceae	5	1.37
88.	Solanaceae	9	2.46				

species each), timber (37 species), fuel (34 species), dye (12 species), fiber (10) species, condiment / spices, paper pulp (9 species each), craft (6 species), canes (4 species), oil (3 species), beverage, resin (2 species each), broom making & tannin yielding (1 species each), etc. (Table 3). Mostly whole plant is used by natives followed by leaf, stem, root and flowers.

The highly important medicinal plants of the locality

were *Aesculus assamica* Griff., *Ageratum conyzoides* (L.) L., *Alpinia malaccensis* (Burm. f.) Roscoe, *Alpinia nigra* (Gaertn.) Burtt, *Amomum maximum* Roxb., *Aphanamixis polystachya* (Wall.) R.Parker, *Aquilaria malaccensis* Lam., *Areca catechu* L., *Bombax ceiba* L., *Callicarpa arborea* Roxb., *Chenopodium album* L., *Cymbopogon nardus* (L.) Rendle, *Dioscorea pentaphylla* L., *Dioscorea alata* L., *Dioscorea deltoidea* Wall. ex

Table 3: Phytoresources of Sejiosa (forest area) circle of Arunachal Pradesh

Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
1.	<i>Abroma augustum</i> (L.) L.f.	Malvaceae	Tree	Wp, Rt, Bk	Medicinal, Ornamental
2.	<i>Acacia concinna</i> (Willd.) DC.	Fabaceae	Climber	Fr	Medicinal, Fiber
3.	<i>Acacia pennata</i> (L.) Willd.	Fabaceae	Climber	Bk	Medicinal
4.	<i>Acanthus leucostachyus</i> Wall. ex Nees	Acanthaceae	Herb	Wp	Medicinal
5.	<i>Achyrosperrum densiflorum</i> Blume	Lamiaceae	Shrub	Lf	Medicinal
6.	<i>Acmella calva</i> (DC.) R.K.Jansen	Asteraceae	Herb	Lf, Fr	Medicinal, Vegetable
7.	<i>Acmella oleracea</i> (L.) R.K. Jansen	Asteraceae	Herb	Wp	Medicinal, Vegetable
8.	<i>Acmella paniculata</i> (Wall. ex DC.) R.K. Jansen	Asteraceae	Herb	Lf, Fl	Medicinal, Vegetable
9.	<i>Actinodaphne gullavara</i> (Buch.-Ham. ex Nees) M.R.Almeida	Lauraceae	Tree	St	Fuel
10.	<i>Actinodaphne obovata</i> (Nees) Blume	Lauraceae	Tree	St	Fuel
11.	<i>Adenia trilobata</i> (Roxb.) Engl.	Passifloraceae	Climber	Lf	Medicinal
12.	<i>Aegle marmelos</i> (L.) Correa	Rutaceae	Tree	Fr	Medicinal, Edible
13.	<i>Aesculus assamica</i> Griff.	Sapindaceae	Tree	Rt, St, Fl, Sd	Medicinal, Timber
14.	<i>Ageratum conyzoides</i> (L.) L.	Asteraceae	Herb	Lf, St	Medicinal
15.	<i>Ageratum houstonianum</i> Mill.	Asteraceae	Herb	Lf	Medicinal
16.	<i>Alangium chinense</i> (Lour.) Harms	Cornaceae	Tree	St	Fuel
17.	<i>Allamanda cathartica</i> L.	Apocynaceae	Shrub	Rt	Medicinal
18.	<i>Alpinia malaccensis</i> (Burm. f.) Roscoe	Zingiberaceae	Herb	Rhz	Medicinal
19.	<i>Alpinia nigra</i> (Gaertn.) Burtt	Zingiberaceae	Herb	Rhz	Medicinal, Vegetable
20.	<i>Alseodaphne petiolaris</i> (Meisn.) Hook.f.	Lauraceae	Tree	St	Timber
21.	<i>Alstonia scholaris</i> (L.) R. Br.	Apocynaceae	Tree	Rt, St, Bk, Lf	Medicinal, Timber
22.	<i>Alternanthera sessilis</i> (L.) R.Br. ex DC.	Amaranthaceae	Herb	St, Ts, Lf,	Medicinal, Vegetable

Table 3: Continue...



Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
23.	<i>Amaranthus spinosus</i> L.	Amaranthaceae	Herb	Wp, Lf	Medicinal, Vegetable
24.	<i>Amaranthus tenuifolius</i> Willd.	Amaranthaceae	Herb	Lf	Vegetable
25.	<i>Amaranthus viridis</i> L.	Amaranthaceae	Herb	St, Lf	Vegetable
26.	<i>Amomum maximum</i> Roxb.	Zingiberaceae	Herb	Rt, Fl	Medicinal, Condiment/ Spice, Vegetable
27.	<i>Anacardium occidentale</i> L.	Anacardiaceae	Tree	Bk, Lf, Fr, O	Medicinal
28.	<i>Anamirta cocculus</i> (L.) Wight & Arn.	Menispermaceae	Climber	Bk, Lf	Medicinal
29.	<i>Ananas comosus</i> (L.) Merr.	Bromeliaceae	Shrub	Lf, Fr	Medicinal, Edible
30.	<i>Annona reticulata</i> L.	Annonaceae	Tree	Fr	Medicinal
31.	<i>Antidesma montanum</i> Blume	Phyllanthaceae	Tree	Fr	Edible
32.	<i>Aphanamixis polystachya</i> (Wall.) R.Parker	Meliaceae	Tree	St, Bk, Sd	Medicinal, Timber
33.	<i>Aquilaria malaccensis</i> Lam.	Thymelaeaceae	Tree	St	Medicinal
34.	<i>Araucaria heterophylla</i> (Salisb.) Franco	Araucariaceae	Tree	Wp	Ornamental
35.	<i>Archidendron bigeminum</i> (L.) I.C.Nielsen	Fabaceae	Tree	Lf, Sd	Medicinal
36.	<i>Archidendron clypearia</i> var. <i>sessiliflorum</i> (Merr.) I.C.Nielsen	Fabaceae	Tree	St	Fuel
37.	<i>Archidendron clypearia</i> (Jack) I.C. Nielsen	Fabaceae	Tree	St	Timber
38.	<i>Areca catechu</i> L.	Arecaceae	Tree	Nut	Medicinal, Tannin, Edible
39.	<i>Argyrea argentea</i> (Roxb.) Sweet	Convolvulaceae	Climber	Rt, Lf, Fr	Medicinal
40.	<i>Arisaema tortuosum</i> (Wall.) Schott	Araceae	Herb	Rt	Medicinal
41.	<i>Aristolochia indica</i> L.	Aristolochiaceae	Climber	Rt	Medicinal
42.	<i>Artocarpus heterophyllus</i> Lam.	Moraceae	Tree	Rt, Fr, Sd	Medicinal, Vegetable, Fiber, Fodder
43.	<i>Averrhoa carambola</i> L.	Oxalidaceae	Tree	Fr	Medicinal, Edible
44.	<i>Baliospermum calycinum</i> var. <i>micranthum</i> (Müll.Arg.) Chakrab. & N.P.Balagr.	Euphorbiaceae	Shrub	Wp	Medicinal
45.	<i>Bambusa tulda</i> Roxb.	Poaceae	Woody Grass	Wp	Timber, Paper Pulp, Vegetable, Craft
46.	<i>Bambusa griffithiana</i> Munro	Poaceae	Woody Grass	Wp	Timber, Paper Pulp, Craft
47.	<i>Bambusa nutans</i> Wall. ex Munro	Poaceae	Woody Grass	Wp	Timber, Paper Pulp, Craft, Edible (pickles)
48.	<i>Bambusa pallida</i> Munro	Poaceae	Woody Grass	Wp	Timber, Paper Pulp, Craft
49.	<i>Basella alba</i> L.	Basellaceae	Climber	Lf	Vegetable
50.	<i>Bauhinia ornata</i> Kurz	Fabaceae	Climber	Bk	Fiber
51.	<i>Bauhinia variegata</i> L.	Fabaceae	Tree	Wp, St, Bk	Medicinal, Timber, Edible, Fuel, Fiber
52.	<i>Begonia palmata</i> D.Don	Begoniaceae	Herb	Wp	Fodder, Ornamental
53.	<i>Begonia griffithiana</i> (A. DC.) Warb.	Begoniaceae	Herb	Wp	Vegetable
54.	<i>Begonia hatacoa</i> Buch.-Ham. ex D. Don	Begoniaceae	Herb	Wp	Vegetable

Table 3: Continue...



Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
55.	<i>Begonia silhetensis</i> (A. DC.) C.B. Clarke	Begoniaceae	Herb	Wp	Vegetable
56.	<i>Boehmeria depauperata</i> Wedd.	Urticaceae	Shrub	Lf	Fodder
57.	<i>Boehmeria hamiltoniana</i> Wedd.	Urticaceae	Shrub	Lf	Fodder
58.	<i>Boehmeria macrophylla</i> var. <i>scabrella</i> (Roxb.) D.G. Long	Urticaceae	Shrub	Lf	Fodder
59.	<i>Boehmeria penduliflora</i> Wedd. ex D.G.Long	Urticaceae	Shrub	Lf	Fodder
60.	<i>Bombax ceiba</i> L.	Malvaceae	Tree	Rt, St, Bk, Lf	Medicinal, Timber, Fuel, Vegetable, Fiber
61.	<i>Bonnaya ruellioides</i> (Colsm.) Spreng.	Linderniaceae	Herb	Lf	Medicinal
62.	<i>Bougainvillea glabra</i> Choisy	Nyctaginaceae	Climber	Wp	Ornamental
63.	<i>Brassaiopsis glomerulata</i> (Blume) Regel	Araliaceae	Tree	St	Fuel
64.	<i>Brassica nigra</i> (L.) K.Koch	Brassicaceae	Herb	Lf, Sd	Medicinal, Oil, Vegetable
65.	<i>Breynia androgyna</i> (L.) Chakrab. & N.P.Balacr.	Phyllanthaceae	Tree	St	Fuel
66.	<i>Bridelia retusa</i> (L.) A.Juss.	Phyllanthaceae	Tree	Rt, Bk	Medicinal
67.	<i>Buddleja asiatica</i> Lour.	Scrophulariaceae	Shrub	Lf	Medicinal
68.	<i>Caladium bicolor</i> (Aiton) Vent.	Araceae	Herb	Wp	Ornamental
69.	<i>Calamus flagellum</i> Griff. ex Walp.	Arecaceae	Shrub	St	Canes
70.	<i>Calamus erectus</i> Roxb.	Arecaceae	Shrub	St	Canes
71.	<i>Calamus floribundus</i> Griff.	Araceae	Shrub	St	Canes
72.	<i>Calamus leptospadix</i> Griff.	Arecaceae	Shrub	St	Canes
73.	<i>Callicarpa arborea</i> Roxb.	Lamiaceae	Shrub	Bk, Lf	Medicinal, Fuel, Fodder
74.	<i>Camellia sinensis</i> var. <i>assamica</i> (J.W. Mast.) Kitam.	Theaceae	Shrub	Ts	Beverage
75.	<i>Camonea umbellata</i> (L.) A.R.Simoes & Staples	Convolvulaceae	Climber	Wp, Sd	Medicinal
76.	<i>Cannabis sativa</i> L.	Cannabaceae	Shrub	Wp	Medicinal
77.	<i>Carica papaya</i> L.	Caricaceae	Tree	Lt, Fr, Sd	Medicinal, Edible
78.	<i>Caryota urens</i> L.	Arecaceae	Tree	Rs, Nut	Medicinal, Beverages
79.	<i>Cascabela thevetia</i> (L.) Lippold	Apocynaceae	Tree	Wp	Ornamental
80.	<i>Castanopsis tribuloides</i> (Sm.) A.DC.	Fagaceae	Tree	St	Fuel
81.	<i>Castanopsis castanocarpa</i> (Roxb.) Spach	Fagaceae	Tree	St	Fuel
82.	<i>Castanopsis indica</i> (Roxb. ex Lindl.) A. DC.	Fagaceae	Tree	St	Timber
83.	<i>Castanopsis lanceifolia</i> (Oerst.) Hickel & A.Camus	Fagaceae	Tree	St	Fuel
84.	<i>Catharanthus roseus</i> (L.) G. Don	Apocynaceae	Herb	Wp, Lf, Fl	Medicinal, Ornamental
85.	<i>Causonis trifolia</i> (L.) Mabb. & J.Wen	Vitaceae	Climber	St, Fr	Medicinal, Edible
86.	<i>Celastrus paniculatus</i> Willd.	Celastraceae	Liana	Bk, Sd	Medicinal
87.	<i>Celosia argentea</i> L.	Amaranthaceae	Undershrub	Fl, Sd	Medicinal, Ornamental
88.	<i>Celosia cristata</i> L.	Amaranthaceae	Undershrub	Wp	Ornamental
89.	<i>Centella asiatica</i> (L.) Urb.	Apiaceae	Herb	Wp	Medicinal

Table 3: Continue...



Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
90.	<i>Chenopodium album</i> L.	Amaranthaceae	Herb	Lf	Medicinal, Vegetable
91.	<i>Chloranthus elatior</i> Link	Chloranthaceae	Herb	Rt, Lf	Medicinal
92.	<i>Choerospondias axillaris</i> (Roxb.) B.L. Burt & A.W. Hill	Anacardiaceae	Tree	Fr	Edible
93.	<i>Chromolaena odorata</i> (L.) R.M.King & H.Rob. Syn. <i>Eupatorium odoratum</i> L.	Asteraceae	Herb	Lf	Medicinal
94.	<i>Cinnamomum bejolghota</i> (Buch.-Ham.) Sweet	Lauraceae	Tree	Bk, St	Medicinal, Timber
95.	<i>Cinnamomum tamala</i> (Buch.-Ham.) T. Nees & Eberm.	Lauraceae	Tree	Rt, Bk	Medicinal, Condiment / Spices
96.	<i>Cissampelos pareira</i> L.	Menispermaceae	Climber	Rt, St, Lf	Medicinal
97.	<i>Cissus repens</i> Lam.	Vitaceae	Climber	Wp	Medicinal
98.	<i>Citrus medica</i> L.	Rutaceae	Tree	Fr	Medicinal, Edible
99.	<i>Citrus sinensis</i> (L.) Osbeck	Rutaceae	Tree	Fr	Medicinal, Edible
100.	<i>Clematis gouriana</i> Roxb. ex DC.	Ranunculaceae	Climber	Lf	Medicinal
101.	<i>Cleome viscosa</i> L.	Cleomaceae	Herb	Rt, Sd	Medicinal, Condiment/ Spice
102.	<i>Clerodendrum colebrookeanum</i> Walp.	Lamiaceae	Shrub	Lf	Medicinal, Vegetable
103.	<i>Clerodendrum japonicum</i> (Thunb.) Sweet	Lamiaceae	Shrub	Wp	Ornamental
104.	<i>Clerodendrum infortunatum</i> L.	Lamiaceae	Shrub	Rt, Lf	Medicinal
105.	<i>Coccinia grandis</i> (L.) Voigt	Cucurbitaceae	Climber	Rt, Lf	Medicinal, Vegetable
106.	<i>Cocos nucifera</i> L.	Arecaceae	Tree	Fr	Medicinal, Fiber, Edible
107.	<i>Coffea benghalensis</i> B.Heyne ex Schult.	Rubiaceae	Undershrub	Wp	Ornamental
108.	<i>Colocasia esculenta</i> (L.) Schott	Araceae	Herb	Lf	Medicinal, Vegetable
109.	<i>Colocasia affinis</i> Schott	Araceae	Herb	Lf	Vegetable
110.	<i>Combretum indicum</i> (L.) DeFilipps	Combretaceae	Climber	Wp	Ornamental
111.	<i>Commelina benghalensis</i> L.	Commelinaceae	Herb	Lf	Medicinal
112.	<i>Commelina paludosa</i> Blume	Commelinaceae	Herb	Wp	Fodder
113.	<i>Coriandrum sativum</i> L.	Apiaceae	Herb	Lf, Sd	Medicinal, Condiment / Spices
114.	<i>Crassocephalum crepidioides</i> (Benth.) S.Moore	Asteraceae	Herb	Lf	Medicinal, Fodder
115.	<i>Crateva magna</i> (Lour.) DC.	Capparaceae	Tree	Bk, St	Medicinal, Timber
116.	<i>Crinum amabile</i> Donn ex Ker Gawl.	Amaryllidaceae	Herb	Wp	Ornamental
117.	<i>Crinum asiaticum</i> L.	Amaryllidaceae	Herb	Tub, Wp	Medicinal, Ornamental
118.	<i>Crotalaria retusa</i> L.	Fabaceae	Undershrub	Lf	Medicinal
119.	<i>Cucumis melo</i> L.	Cucurbitaceae	Climber	Fr	Vegetable
120.	<i>Cucumis sativus</i> L.	Cucurbitaceae	Climber	Fr	Medicinal, Vegetable
121.	<i>Cucurbita maxima</i> Duchesne	Cucurbitaceae	Climber	Fr	Medicinal, Vegetable
122.	<i>Cyanotis cristata</i> (L.) D.Don	Commelinaceae	Herb	Wp	Fodder
123.	<i>Cyanthillium cinereum</i> (L.) H. Rob.	Asteraceae	Herb	Wp, Lf, Sd	Medicinal
124.	<i>Cyathula prostrata</i> (L.) Blume	Amaranthaceae	Herb	Wp	Fodder

Table 3: Continue...



Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
125.	<i>Cymbopogon nardus</i> (L.) Rendle	Poaceae	Grass	Wp	Medicinal
126.	<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	Grass	Wp	Medicinal
127.	<i>Cyrtococcum oxyphyllum</i> (Hochst. ex Steud.) Stapf	Poaceae	Grass	Wp	Fodder
128.	<i>Dactyloctenium aegyptium</i> (L.) Willd.	Poaceae	Grass	Wp	Fodder
129.	<i>Dalbergia lanceolaria</i> L.f.	Fabaceae	Tree	Bk, St	Medicinal, Timber
130.	<i>Dalbergia pinnata</i> (Lour.) Prain	Fabaceae	Climber	Lf	Medicinal
131.	<i>Debregeasia longifolia</i> (Burm.f.) Wedd.	Urticaceae	Shrub	Lf, Fr	Medicinal, Fodder
132.	<i>Dendrocalamus giganteus</i> Munro	Poaceae	Woody Grass	Wp, Ts, St	Medicinal, Timber, Paper Pulp, Vegetable, Craft
133.	<i>Dendrocalamus hamiltonii</i> Nees & Arn. ex Munro	Poaceae	Woody Grass	Wp, Lf, Ts	Medicinal, Timber, Paper Pulp, Vegetable, Craft
134.	<i>Dendrocalamus longispathus</i> (Kurz) Kurz	Poaceae	Woody Grass	Lf, Ts	Paper Pulp, Vegetable
135.	<i>Dendrocalamus membranaceus</i> Munro	Poaceae	Woody Grass	Lf	Paper Pulp
136.	<i>Desmostachya bipinnata</i> (L.) Stapf	Poaceae	Grass	Wp	Medicinal, Fodder
137.	<i>Digitaria ciliaris</i> (Retz.) Koeler	Poaceae	Grass	Wp	Fodder
138.	<i>Digitaria sanguinalis</i> (L.) Scop.	Poaceae	Grass	Wp	Fodder
139.	<i>Dillenia indica</i> L.	Dilleniaceae	Tree	St, Lf, Fr	Medicinal, Timber, Edible
140.	<i>Dimetia scandens</i> (Roxb.) R.J.Wang	Rubiaceae	Climber	Rt	Medicinal
141.	<i>Dioscorea pentaphylla</i> L.	Dioscoreaceae	Climber	Tub	Medicinal, Vegetable
142.	<i>Dioscorea alata</i> L.	Dioscoreaceae	Climber	Tub	Medicinal, Vegetable
143.	<i>Dioscorea belophylla</i> (Prain) Voigt ex Haines	Dioscoreaceae	Climber	Tub	Vegetable
144.	<i>Dioscorea deltoidea</i> Wall. ex Griseb.	Dioscoreaceae	Climber	Tub, Lf, St	Medicinal, Vegetable
145.	<i>Drepanostachyum intermedium</i> (Munro) Keng f.	Poaceae	Grass	Lf	Paper Pulp
146.	<i>Drymaria cordata</i> (L.) Willd. ex Schult.	Caryophyllaceae	Herb	Wp, Lf	Medicinal, Fodder
147.	<i>Duabanga grandiflora</i> (DC.) Walp.	Lythraceae	Tree	St	Fuel
148.	<i>Duranta erecta</i> L.	Verbenaceae	Shrub	Wp	Ornamental
149.	<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants	Amaranthaceae	Under-shrub	Lf	Fodder
150.	<i>Eclipta prostrata</i> (L.) L.	Asteraceae	Herb	Wp	Medicinal, Fodder
151.	<i>Elaeocarpus rugosus</i> Roxb. ex G. Don	Elaeocarpaceae	Tree	St	Timber
152.	<i>Elatostema sessile</i> J.R.Forst. & G.Forst.	Urticaceae	Herb	Lf	Vegetable
153.	<i>Eleusine indica</i> (L.) Gaertn.	Poaceae	Grass	Wp	Medicinal, Fodder
154.	<i>Embelia ribes</i> Burm.f.	Primulaceae	Shrub	Rt, Fr	Medicinal
155.	<i>Emilia sonchifolia</i> (L.) DC. ex DC.	Asteraceae	Herb	Rt, Lf	Medicinal, Fodder
156.	<i>Engelhardia spicata</i> Lechen ex Blume	Juglandaceae	Tree	Rt, St	Medicinal, Timber
157.	<i>Entada rheedei</i> Spreng.	Fabaceae	Liana	Bk, Sd	Medicinal
158.	<i>Pipremnum pinnatum</i> (L.) Engl.	Araceae	Herb	Wp	Ornamental

Table 3: Continue...

Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
159.	<i>Eragrostis uniolooides</i> (Retz.) Nees ex Steud.	Poaceae	Grass	Wp	Fodder
160.	<i>Eriobotrya japonica</i> (Thunb.) Lindl.	Rosaceae	Tree	Lf, Fr	Medicinal, Edible
161.	<i>Euphorbia hirta</i> L.	Euphorbiaceae	Herb	Wp	Medicinal
162.	<i>Euphorbia milii</i> Des Moul.	Euphorbiaceae	Shrub	Wp	Ornamental
163.	<i>Euphorbia pulcherrima</i> Willd. ex Klotzsch	Euphorbiaceae	Shrub	Wp	Ornamental
164.	<i>Ficus altissima</i> Blume	Moraceae	Tree	Bk, Fr	Dye, Edible
165.	<i>Ficus benjamina</i> L.	Moraceae	Tree	Wp	Ornamental
166.	<i>Ficus elastica</i> Roxb. ex Hornem.	Moraceae	Tree	Fr	Edible
167.	<i>Ficus hispida</i> L. f.	Moraceae	Tree	Bk, Fr, Sd	Medicinal, Fodder
168.	<i>Ficus religiosa</i> L.	Moraceae	Tree	Bk, Fr	Medicinal, Fodder
169.	<i>Ficus semicordata</i> Buch.-Ham. ex Sm.	Moraceae	Tree	Bk, Fr	Medicinal, Fodder
170.	<i>Floscopa scandens</i> Lour.	Commelinaceae	Herb	Lf	Vegetable
171.	<i>Garcinia pedunculata</i> Roxb. ex Buch.-Ham.	Clusiaceae	Tree	Fr	Medicinal, Edible
172.	<i>Girardinia diversifolia</i> (Link) Friis	Urticaceae	Shrub	Lf	Medicinal
173.	<i>Gmelina arborea</i> Roxb. ex. Sm.	Lamiaceae	Tree	Wp, St, Lf	Medicinal, Timber, Edible, Fuel, Fodder
174.	<i>Gnaphalium pensylvanicum</i> Willd.	Asteraceae	Herb	Wp	Fodder
175.	<i>Gnetum montanum</i> Markgr.	Gnetaceae	Climber	Wp	Medicinal
176.	<i>Grewia serrulata</i> DC.	Malvaceae	Tree	Wp, St, Lf, Fr, Sd	Timber, Edible, Fuel, Fiber, Fodder
177.	<i>Gynocardia odorata</i> R. Br.	Achariaceae	Tree	St, Fr	Medicinal, Timber
178.	<i>Hedychium stenopetalum</i> Lodd.	Zingiberaceae	Herb	Wp	Ornamental
179.	<i>Helichrysum luteoalbum</i> (L.) Rchb.	Asteraceae	Herb	Lf	Medicinal, Fodder
180.	<i>Hellenia speciosa</i> (J.Koenig) S.R.Dutta	Costaceae	Herb	Lf	Medicinal
181.	<i>Hevea brasiliensis</i> (Willd. ex A.Juss.) Müll. Arg.	Euphorbiaceae	Tree	Lt	Resin
182.	<i>Hibiscus mutabilis</i> L.	Malvaceae	Shrub	Wp	Ornamental
183.	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Shrub	Wp, Lf, Fl	Medicinal, Ornamental
184.	<i>Hiptage benghalensis</i> (L.) Kurz	Malpighiaceae	Shrub	Bk, Lf	Medicinal
185.	<i>Hodgsonia macrocarpa</i> (Blume) Cogn.	Cucurbitaceae	Liana	Lf, Sd	Medicinal
186.	<i>Holmskioldia sanguinea</i> Retz.	Lamiaceae	Shrub	Wp	Ornamental
187.	<i>Houttuynia cordata</i> Thunb.	Saururaceae	Herb	Ts, St, Lf	Medicinal, Vegetable
188.	<i>Hydrocotyle javanica</i> Thunb.	Araliaceae	Herb	Lf	Medicinal
189.	<i>Hymenodictyon orixense</i> (Roxb.) Mabb.	Rubiaceae	Tree	St	Timber
190.	<i>Hyptis suaveolens</i> (L.) Poit.	Lamiaceae	Undershrub	Lf	Medicinal
191.	<i>Ipomoea quamoclit</i> L.	Convolvulaceae	Climber	Wp	Ornamental
192.	<i>Ixora coccinea</i> L.	Rubiaceae	Shrub	Wp	Ornamental
193.	<i>Jasminum nervosum</i> Lour.	Oleaceae	Climber	Lf	Medicinal
194.	<i>Jasminum multiflorum</i> (Burm. f.) Andrews	Oleaceae	Climber	Wp	Ornamental
195.	<i>Jatropha curcas</i> L.	Euphorbiaceae	Shrub	St, Fr	Medicinal, Fuel
196.	<i>Justicia gendarussa</i> Burm.f.	Acanthaceae	Shrub	Wp	Ornamental

Table 3: Continue...

Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
197.	<i>Kalanchoe pinnata</i> (Lam.) Pers.	Crassulaceae	Undershrub	Wp	Medicinal, Ornamental
198.	<i>Kydia calycina</i> Roxb.	Malvaceae	Tree	St, Lf	Medicinal, Timber, Fiber
199.	<i>Lagenaria siceraria</i> (Molina) Standl.	Cucurbitaceae	Climber	Fr	Medicinal, Vegetable
200.	<i>Lagerstroemia speciosa</i> (L.) Pers.	Lythraceae	Tree	Rt, St, Bk, Lf	Medicinal, Timber
201.	<i>Lantana indica</i> Roxb.	Verbenaceae	Shrub	Wp	Medicinal, Fuel
202.	<i>Lantana camara</i> L.	Verbenaceae	Shrub	Wp	Medicinal, Fuel
203.	<i>Leea indica</i> (Burm. f.) Merr.	Vitaceae	Shrub	Rt	Medicinal
204.	<i>Lepidium didymum</i> L.	Brassicaceae	Herb	Wp	Medicinal, Fodder
205.	<i>Leucaena leucocephala</i> (Lam.) de Wit	Fabaceae	Tree	St	Fuel
206.	<i>Leucas aspera</i> (Willd.) Link	Lamiaceae	Herb	St, Lf	Medicinal, Vegetable
207.	<i>Litchi sinensis</i> Sonner	Sapindaceae	Tree	Fr	Edible
208.	<i>Lithocarpus elegans</i> (Blume) Hatus. ex Soepadmo	Fagaceae	Tree	St	Fuel
209.	<i>Litsea salicifolia</i> (J. Roxb. ex Nees) Hook. f.	Lauraceae	Tree	St	Fuel
210.	<i>Litsea cubeba</i> (Lour.) Pers.	Lauraceae	Tree	St, Fr	Medicinal, Condiment / Spices
211.	<i>Livistona jenkinsiana</i> Griff.	Arecaceae	Tree	Fr	Edible
212.	<i>Lobelia nicotianifolia</i> Roth ex Schult.	Campanulaceae	Herb	St	Medicinal
213.	<i>Lonicera macrantha</i> (D. Don) Spreng.	Caprifoliaceae	Climber	St	Medicinal
214.	<i>Ludwigia octovalvis</i> (Jacq.) P.H. Raven	Onagraceae	Herb	St	Medicinal
215.	<i>Luffa cylindrica</i> (L.) M.Roem.	Cucurbitaceae	Climber	St	Vegetable
216.	<i>Luisia tenuifolia</i> Blume	Orchidaceae	Epiphyte	Wp, Rt, St	Medicinal, Ornamental
217.	<i>Macaranga denticulata</i> (Blume) Müll.Arg.	Euphorbiaceae	Tree	St	Medicinal, Fuel
218.	<i>Macaranga peltata</i> (Roxb.) Müll.Arg.	Euphorbiaceae	Tree	St	Medicinal, Fuel
219.	<i>Maesa chisia</i> Buch.-Ham. ex D. Don	Primulaceae	Shrub	St, Fr	Edible
220.	<i>Magnolia baillonii</i> Pierre	Magnoliaceae	Tree	St	Timber
221.	<i>Magnolia hodgsonii</i> (Hook. f. & Thomson) H. Keng	Magnoliaceae	Tree	St	Timber
222.	<i>Magnolia pterocarpa</i> Roxb.	Magnoliaceae	Tree	St	Fuel
223.	<i>Malvastrum coromandelianum</i> (L.) Garcke	Malvaceae	Herb	St	Medicinal
224.	<i>Mangifera indica</i> L.	Anacardiaceae	Tree	St, Bk, Lt, Fr	Medicinal, Dye, Timber, Edible
225.	<i>Manihot esculenta</i> Crantz	Euphorbiaceae	Shrub	Tub, St, Lf	Medicinal, Edible
226.	<i>Mecardonia procumbens</i> (Mill.) Small	Plantaginaceae	Herb	Wp	Fodder
227.	<i>Melastoma malabathricum</i> L.	Melastomataceae	Shrub	St, Fr	Medicinal, Dye, Edible
228.	<i>Melia azedarach</i> L.	Meliaceae	Tree	St, Lf, Sd	Medicinal
229.	<i>Mesua ferrea</i> L.	Calophyllaceae	Tree	Wp	Medicinal, Timber, Ornamental

Table 3: Continue...

Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
230.	<i>Micromelum integerrimum</i> (Buch.-Ham. ex DC.) Wight & Arn. ex M. Roem.	Rutaceae	Tree	St	Fuel
231.	<i>Mikania micrantha</i> Kunth	Asteraceae	Climber	St	Medicinal
232.	<i>Mimosa pudica</i> L.	Fabaceae	Shrub	Rt, St	Medicinal
233.	<i>Mirabilis jalapa</i> L.	Nyctaginaceae	Under-shrub	St	Medicinal, Ornamental
234.	<i>Momordica charantia</i> L.	Cucurbitaceae	Climber	St, Fr, Sd	Medicinal, Vegetable
235.	<i>Monochoria vaginalis</i> (Burm.f.) C.Presl	Pontederiaceae	Herb	Rt, St	Medicinal
236.	<i>Morinda angustifolia</i> Roxb.	Rubiaceae	Tree	St, Lf	Medicinal, Fuel
237.	<i>Morus alba</i> L.	Moraceae	Tree	St, Lf, In	Medicinal, Fuel, Edible, Fodder
238.	<i>Murdannia nudiflora</i> (L.) Brenan	Commelinaceae	Herb	Wp	Medicinal
239.	<i>Murraya koenigii</i> (L.) Spreng.	Rutaceae	Shrub	Lf	Medicinal, Condiment / Spices
240.	<i>Musa × paradisiaca</i> L.	Musaceae	Herb	Lf, Fr	Edible, Vegetable, Fodder
241.	<i>Mussaenda roxburghii</i> Hook. f.	Rubiaceae	Shrub	Wp, St	Medicinal, Dye
242.	<i>Mycetia longifolia</i> (Wall.) Kuntze	Rubiaceae	Shrub	St, Lf	Medicinal
243.	<i>Naravelia zeylanica</i> (L.) DC.	Ranunculaceae	Climber	St	Medicinal
244.	<i>Nephelium ramboutan-ake</i> (Labill.) Leenh.	Sapindaceae	Tree	Fr	Edible
245.	<i>Neyraudia arundinacea</i> (L.) Henrard	Poaceae	Grass	Wp	Fodder
246.	<i>Nyctanthes arbor-tristis</i> L.	Oleaceae	Tree	Bk, Lf, Fl	Medicinal, Dye
247.	<i>Ocimum tenuiflorum</i> L.	Lamiaceae	Under-shrub	Wp	Medicinal
248.	<i>Opuntia dillenii</i> (Ker Gawl.) Haw.	Cactaceae	Shrub	Wp, In	Ornamental, Edible
249.	<i>Oroxylum indicum</i> (L.) Kurz	Bignoniaceae	Tree	Bk, St, Fr	Medicinal, Dye
250.	<i>Osbeckia stellata</i> Buch.-Ham. ex D.Don	Melastomataceae	Shrub	St, Lf	Medicinal
251.	<i>Oxalis corniculata</i> L.	Oxalidaceae	Herb	Wp	Medicinal, Vegetable
252.	<i>Oxalis debilis</i> Kunth	Oxalidaceae	Herb	Wp	Medicinal
253.	<i>Pandanus furcatus</i> Roxb.	Pandanaceae	Tree	Fr	Medicinal, Edible
254.	<i>Panicum brevifolium</i> L.	Poaceae	Grass	Wp	Fodder
255.	<i>Paspalum conjugatum</i> P.J. Bergius	Poaceae	Grass	Wp	Fodder
256.	<i>Paspalum scrobiculatum</i> L.	Poaceae	Grass	St	Medicinal
257.	<i>Pavetta indica</i> L.	Rubiaceae	Shrub	Rt, St	Medicinal
258.	<i>Persicaria posumbu</i> (Buch.-Ham. ex D.Don) H.Gross	Polygonaceae	Herb	Wp	Fodder
259.	<i>Persicaria barbata</i> (L.) H. Hara	Polygonaceae	Herb	Rt, St, Sd	Medicinal
260.	<i>Persicaria capitata</i> (Buch.-Ham. ex D.Don) H.Gross	Polygonaceae	Herb	Wp	Fodder
261.	<i>Persicaria chinensis</i> (L.) H. Gross	Polygonaceae	Herb	Wp	Medicinal
262.	<i>Phalaenopsis cornu-cervi</i> (Breda) Blume & Rchb.f.	Orchidaceae	Herb	Wp	Ornamental



Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
263.	<i>Phanera macrostachya</i> Benth.	Fabaceae	Liana	St, Ts	Fuel, Vegetable
264.	<i>Phlogacanthus thyrsoformis</i> (Roxb. ex Hardw.) Mabb.	Acanthaceae	Shrub	St, Lf	Medicinal
265.	<i>Phlogacanthus curviflorus</i> (Wall.) Nees	Acanthaceae	Shrub	St, Lf	Medicinal
266.	<i>Phoebe lanceolata</i> (Nees) Nees	Lauraceae	Tree	St	Fuel
267.	<i>Phoebe attenuata</i> (Nees) Nees	Lauraceae	Tree	St	Fuel
268.	<i>Pholidota pallida</i> Lindley	Orchidaceae	Herb	Wp	Medicinal, Ornamental
269.	<i>Phyllanthus emblica</i> L.	Phyllanthaceae	Tree	St, Fr	Medicinal, Dye, Edible
270.	<i>Phyllanthus reticulatus</i> Poir.	Phyllanthaceae	Shrub	Bk, St, Lf	Medicinal
271.	<i>Phyllanthus urinaria</i> L.	Phyllanthaceae	Herb	Wp	Medicinal
272.	<i>Physalis angulata</i> L.	Solanaceae	Herb	Lf, St, Fr	Medicinal, Edible
273.	<i>Pinus roxburghii</i> Sarg.	Pinaceae	Tree	St, Bk, Rs	Medicinal, Fuel, Timber, Resin
274.	<i>Piper attenuatum</i> Buch.-Ham. ex Miq.	Piperaceae	Climber	St, Lf	Medicinal
275.	<i>Piper longum</i> L.	Piperaceae	Climber	Rt, St, Fr	Medicinal, Condiment / Spices
276.	<i>Piper nigrum</i> L.	Piperaceae	Climber	St, Sd	Medicinal, Condiment / Spices
277.	<i>Piper pedicellatum</i> C. DC.	Piperaceae	Climber	St, Lf, Fr	Medicinal
278.	<i>Piper sylvaticum</i> Roxb.	Piperaceae	Climber	Fr	Medicinal
279.	<i>Platyclusus orientalis</i> (L.) Franco	Cupressaceae	Shrub	Wp	Ornamental
280.	<i>Pleurolobus gangeticus</i> (L.) J.St.-Hil. ex H. Ohashi & K. Ohashi	Fabaceae	Undershrub	Lf, Rt	Medicinal
281.	<i>Plumeria alba</i> L.	Apocynaceae	Tree	Wp	Ornamental
282.	<i>Pogostemon benghalensis</i>	Lamiaceae	Shrub	St, In	Medicinal
283.	<i>Pogostemon auricularius</i> (L.) Hassk.	Lamiaceae	Herb	St, Wp	Medicinal
284.	<i>Polygonum microcephalum</i> D. Don	Polygonaceae	Herb	Wp	Fodder
285.	<i>Pothos scandens</i> L.	Araceae	Epiphyte	St	Medicinal
286.	<i>Pouzolzia rugulosa</i> (Wedd.) Acharya & Kravtsova	Urticaceae	Tree	St	Vegetable
287.	<i>Pouzolzia bennettiana</i> Wight	Urticaceae	Herb	Lf, Ts	Medicinal, Vegetable
288.	<i>Pouzolzia zeylanica</i> (L.) Benn.	Urticaceae	Herb	Ts	Vegetable
289.	<i>Prunus persica</i> (L.) Batsch	Rosaceae	Tree	St, Fr	Medicinal, Edible
290.	<i>Psidium guajava</i> L.	Myrtaceae	Tree	St, Lf, Fr	Medicinal, Timber, Edible
291.	<i>Pterospermum acerifolium</i> (L.) Willd.	Malvaceae	Tree	Bk, St, Fr	Medicinal, Timber
292.	<i>Pterygota alata</i> (Roxb.) R. Br.	Malvaceae	Tree	St	Fuel
293.	<i>Pueraria montana</i> var. <i>lobata</i> (Willd.) Sanjappa & Pradeep	Fabaceae	Climber	Tub	Medicinal
294.	<i>Quercus lamellosa</i> Sm.	Fagaceae	Tree	Fr	Medicinal, Edible
295.	<i>Quercus semiserrata</i> Roxb.	Fagaceae	Tree	St	Timber
296.	<i>Rhus succedanea</i> L.	Anacardiaceae	Tree	Lf, Fr	Medicinal

Table 3: Continue...



Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
297.	<i>Rhynchosyilis retusa</i> (L.) Blume	Orchidaceae	Epiphyte	Wp	Ornamental
298.	<i>Ricinus communis</i> L.	Euphorbiaceae	Shrub	Rt, Lf	Medicinal, Oil
299.	<i>Rosa indica</i> L.	Rosaceae	Shrub	Wp, Fl	Medicinal, Ornamental
300.	<i>Rothea serrata</i> (L.) Steane & Mabb.	Lamiaceae	Shrub	Wp	Medicinal
301.	<i>Rubus moluccanus</i> L.	Rosaceae	Shrub	Lf, Fr	Medicinal, Edible, Fodder
302.	<i>Saccharum officinarum</i> L.	Poaceae	Grass	St	Medicinal, Edible
303.	<i>Saccharum spontaneum</i> L.	Poaceae	Grass	Rt	Medicinal
304.	<i>Sacciolepis indica</i> (L.) Chase	Poaceae	Grass	Wp	Fodder
305.	<i>Saurauia roxburghii</i> Wall.	Actinidiaceae	Tree	St, Fr	Fuel, Edible
306.	<i>Schima wallichii</i> (DC.) Korth.	Theaceae	Tree	St, Bk, Sd	Medicinal, Timber, Fodder
307.	<i>Scoparia dulcis</i> L.	Plantaginaceae	Herb	Lf	Medicinal, Fodder
308.	<i>Senna occidentalis</i> (L.) Link	Fabaceae	Undershrub	Lf	Medicinal
309.	<i>Senna tora</i> (L.) Roxb.	Fabaceae	Shrub	Lf, Sd	Medicinal
310.	<i>Sesamum indicum</i> L.	Pedaliaceae	Herb	Sd	Medicinal, Oil
311.	<i>Sida acuta</i> Burm.f.	Malvaceae	Undershrub	Rt	Medicinal
312.	<i>Sida rhombifolia</i> L.	Malvaceae	Undershrub	Rt	Medicinal
313.	<i>Smilax ovalifolia</i> Roxb. ex D. Don	Smilacaceae	Climber	Rt	Medicinal
314.	<i>Smilax perfoliata</i> Lour.	Smilacaceae	Climber	Rt	Medicinal
315.	<i>Solanum nigrum</i> L.	Solanaceae	Shrub	Wp, Lf, Fr	Medicinal, Edible, Vegetable, Fodder
316.	<i>Solanum viarum</i> Dunal	Solanaceae	Shrub	Fr, Sd	Medicinal
317.	<i>Solanum aethiopicum</i> L.	Solanaceae	Shrub	Fr	Vegetable
318.	<i>Solanum indicum</i> L.	Solanaceae	Shrub	Wp	Medicinal, Dye
319.	<i>Solanum lycopersicum</i> L.	Solanaceae	Herb	Fr	Vegetable
320.	<i>Solanum melongena</i> L.	Solanaceae	Undershrub	Fr	Vegetable
321.	<i>Solanum myriacanthum</i> Dunal	Solanaceae	Shrub	Wp	Medicinal
322.	<i>Solanum torvum</i> Sw.	Solanaceae	Shrub	Fr	Medicinal, Vegetable
323.	<i>Solena heterophylla</i> Lour.	Cucurbitaceae	Climber	Rt	Medicinal
324.	<i>Sonerila maculata</i> Roxb.	Melastomataceae	Herb	Lf	Vegetable
325.	<i>Spermocoe ocymoides</i> Burm. f.	Rubiaceae	Herb	Wp	Fodder
326.	<i>Stellaria media</i> (L.) Vill.	Caryophyllaceae	Herb	Wp	Fodder
327.	<i>Sterculia lanceolata</i> var. <i>coccinea</i> (Jack) Phengklai	Malvaceae	Tree	Wp	Ornamental
328.	<i>Sterculia villosa</i> Roxb.	Malvaceae	Tree	St, Bk	Medicinal, Timber
329.	<i>Stereospermum chelonoides</i> (L.f.) DC.	Bignoniaceae	Tree	Bk, Rt	Medicinal
330.	<i>Styrax serrulatus</i> Roxb.	Styracaceae	Tree	Rs	Medicinal
331.	<i>Syzygium coarctatum</i> (Blume) Byng, N.Snow & Peter G.Wilson	Myrtaceae	Tree	Bk, Fr	Dye

Table 3: Continue...

Sl. No.	Name of plant	Family	Habit	Plant parts used	Medicinal and other uses
332.	<i>Syzygium cumini</i> (L.) Skeels	Myrtaceae	Tree	Bk, Fr, Sd	Medicinal, Edible
333.	<i>Syzygium diospyrifolium</i> (Wall. ex Duthie) S.N. Mitra	Myrtaceae	Tree	St	Fuel
334.	<i>Tabernaemontana divaricata</i> (L.) R. Br. ex Roem. & Schult.	Apocynaceae	Tree	Rt, Lt	Medicinal, Ornamental
335.	<i>Tacca integrifolia</i> Ker Gawl.	Dioscoreaceae	Herb	Wp	Ornamental
336.	<i>Tagetes erecta</i> L.	Asteraceae	Herb	Lf	Medicinal, Dye
337.	<i>Tectona grandis</i> L. f.	Lamiaceae	Tree	St, Bk	Medicinal, Dye, Timber
338.	<i>Terminalia catappa</i> L.	Combretaceae	Tree	Bk, Lf	Medicinal, Dye
339.	<i>Thunbergia grandiflora</i> Roxb.	Acanthaceae	Climber	Lf	Medicinal, Ornamental
340.	<i>Thunbergia coccinea</i> Wall.	Acanthaceae	Climber	Wp	Ornamental
341.	<i>Thysanolaena latifolia</i> (Roxb. ex Hornem.) Honda	Poaceae	Grass	In	Broom making
342.	<i>Tinospora crispa</i> (L.) Hook.f. & Thomson	Menispermaceae	Climber	St	Medicinal
343.	<i>Toddalia asiatica</i> (L.) Lam.	Rutaceae	Liana	Bk, Lf, Fr	Medicinal
344.	<i>Torenia violacea</i> (Azaola ex Blanco) Pennell	Linderniaceae	Herb	Wp	Fodder
345.	<i>Toxicodendron succedaneum</i> (L.) Kuntze	Anacardiaceae	Tree	Lf, Fr	Medicinal, Fodder
346.	<i>Trema orientalis</i> (L.) Blume	Cannabaceae	Shrub	Wp	Medicinal
347.	<i>Trevesia palmata</i> (Roxb. ex Lindl.) Vis.	Araliaceae	Shrub	Lf, Fl, Fr	Medicinal, Edible
348.	<i>Trigastrotheca pentaphylla</i> (L.) Thulin	Molluginaceae	Herb	Wp	Medicinal
349.	<i>Triumfetta rhomboidea</i> Jacq.	Malvaceae	Undershrub	Rt, Lf, Fl, Fr	Medicinal
350.	<i>Uncaria scandens</i> (Sm.) Wall.	Rubiaceae	Liana	Bk	Fiber
351.	<i>Uncaria homomalla</i> Miq.	Rubiaceae	Liana	Bk	Fiber
352.	<i>Urena lobata</i> L.	Malvaceae	Undershrub	Rt	Medicinal
353.	<i>Vallis solanacea</i> (Roth) Kuntze	Apocynaceae	Climber	Rt, Bk, Lt	Medicinal
354.	<i>Vicia hirsuta</i> (L.) Gray	Fabaceae	Herb	Wp	Fodder
355.	<i>Vigna radiata</i> var. <i>sublobata</i> (Roxb.) Verdc.	Fabaceae	Climber	Fr	Vegetable
356.	<i>Wrightia arborea</i> (Dennst.) Mabb.	Apocynaceae	Tree	Bk	Medicinal
357.	<i>Youngia japonica</i> (L.) DC.	Asteraceae	Herb	Wp	Fodder
358.	<i>Zea mays</i> L.	Poaceae	Grass	Fr	Edible, Fodder
359.	<i>Zehneria japonica</i> (Thunb.) H.Y. Liu	Cucurbitaceae	Climber	Lf	Fodder
360.	<i>Zingiber officinale</i> Roscoe	Zingiberaceae	Herb	Rhz	Condiment / Spices
361.	<i>Zinnia elegans</i> Jacq.	Asteraceae	Herb	Wp	Fodder
362.	<i>Ziziphus apetala</i> Hook.f.	Rhamnaceae	Tree	Lf	Fodder
363.	<i>Ziziphus jujuba</i> Mill.	Rhamnaceae	Tree	Rt, Lf, Bk, Fr	Medicinal, Edible, Fodder
364.	<i>Ziziphus oenopolia</i> (L.) Mill.	Rhamnaceae	Tree	Bk	Medicinal
365.	<i>Ziziphus xylopyrus</i> (Retz.) Willd.	Rhamnaceae	Tree	Lf, Fr	Fodder, Edible

Wp: Whole plant; Rt: Root; Lf: Leaf; Bk: Bark; Fl: Flower; Fr: Fruit; Rhz: Rhizome; St: Stem; Sd: Seed; In: Inflorescence; Lt: Latex; Rs: Resin; Tub: Tuber



Griseb., *Euphorbia hirta* L., *Garcinia pedunculata* Roxb. ex Buch.-Ham., *Hellenia speciosa* (J.Koenig) S.R.Dutta, *Houttuynia cordata* Thunb., *Leucas aspera* (Willd.) Link, *Mussaenda roxburghii* Hook. f., *Oroxylum indicum* (L.) Kurz, *Piper attenuatum* Buch.-Ham. ex Miq., *Schima wallichii* (DC.) Korth., *Solanum indicum* L., *Styrax serrulatus* Roxb., *Toddalia asiatica* (L.) Lam., *Toxicodendron succedaneum* (L.) Kuntze, *Urena lobata* L., etc. which are used by local people for curing various ailments. *Areca catechu* L. and *Cocos nucifera* L. were important plants for natives and used as a source of tannins, medicine, fiber and fruits. The tender leaves of *Camellia sinensis* var. *assamica* (J.W. Mast.) Kitam. is highly prized as a source of tea and affects the rural economy as it is cultivated here in large scale.

The most common fodder yielding plants are *Begonia palmata* D.Don, *Commelina paludosa* Blume, *Cyanotis cristata* (L.) D.Don, *Cyathula prostrata* (L.) Blume, *Digitaria ciliaris* (Retz.) Koeler, *D. sanguinalis* (L.) Scop., *Dysphania ambrosioides* (L.) Mosyakin & Clemants, *Gnaphalium pensylvanicum* Willd., *Mecardonia procumbens* (Mill.) Small, *Polygonum microcephalum* D. Don, *Persicaria posumbu* (Buch.-Ham. ex D.Don) H.Gross, *Persicaria capitata* (Buch.-Ham. ex D.Don) H.Gross, *Spermacoce ocymoides* Burm. f., *Stellaria media* (L.) Vill., *Torenia violacea* (Azaola ex Blanco) Pennell, *Vicia hirsuta* (L.) Gray, *Youngia japonica* (L.) DC., *Zea mays* L., *Ziziphus apetala* Hook.f., *Z. xylopyrus* (Retz.) Willd., etc.

The root, corm, rhizome, tender shoot, stem, bulbils, leaves, fruits and seeds of *Acmella calva* (DC.) R.K.Jansen, *Amaranthus spinosus* L., *A. viridis* L., *Artocarpus heterophyllus* Lam., *Bambusa tulda* Roxb., *Basella alba* L., *Begonia griffithiana* (A. DC.) Warb., *B. hatacoa* Buch.-Ham. ex D. Don, *B. silhetensis* (A. DC.) C.B. Clarke, *Bombax ceiba* L., *Brassica nigra* (L.) K.Koch, *Chenopodium album* L., *Colocasia esculenta* (L.) Schott, *Cucumis melo* L., *C. sativus* L., *Cucurbita maxima* Duchesne, *Dioscorea pentaphylla* L., *D. alata* L., *D. belophylla* (Prain) Voigt ex Haines, *D. deltoidea* Wall. ex Griseb., *Elatostema sessile* J.R.Forst. & G.Forst., *Floscopa scandens* Lour., *Houttuynia cordata* Thunb., *Lagenaria siceraria* (Molina) Standl., *Leucas aspera* (Willd.) Link, *Luffa cylindrica* (L.) M.Roem., *Sonerila maculata* Roxb., *Momordica charantia* L., *Musa × paradisiaca* L., *Oxalis corniculata* L., *Pouzolzia rugulosa* (Wedd.) Acharya & Kravtsova, *P. zeylanica* (L.) Benn., *Solanum nigrum* L., *S. aethiopicum* L., *S. lycopersicum* L., *S. melongena* L., etc. were consumed raw or cooked or taken directly as vegetable. The trunk and wood of *Aesculus assamica* Griff., *Aleodaphne petiolaris* (Meisn.) Hook.f., *Archidendron clypearia* (Jack) I.C. Nielsen, *Bambusa griffithiana* Munro, *B. tulda* Roxb., *B. nutans* Wall. ex Munro, *B. pallida* Munro, *Bauhinia variegata* L., *Castanopsis indica* (Roxb. ex Lindl.) A. DC., *Dalbergia lanceolaria* L.f., *Dillenia indica* L., *Gmelina arborea* Roxb. ex Sm., *Gynocardia odorata* R. Br., *Lagerstroemia speciosa* (L.) Pers., *Magnolia baillonii* Pierre,

Magnolia hodgsonii (Hook. f. & Thomson) H. Keng, *Mangifera indica* L., *Pterospermum acerifolium* (L.) Willd., *Quercus semiserrata* Roxb., *Sterculia villosa* Roxb., etc. were used as timber.

The bamboo species which are used extensively are *Bambusa griffithiana* Munro, *B. pallida* Munro, *B. nutans* Wall. ex Munro, *B. tulda* Roxb., *Dendrocalamus giganteus* Munro, *D. hamiltonii* Nees & Arn. ex Munro, *D. longispachus* (Kurz) Kurz, *D. membranaceus* Munro etc. However, the *Dendrocalamus hamiltonii* occur naturally only in areas of lower elevation and cultivated by few people around their dwelling.

The people living in this region have been leading an intricate life and mostly dependent on the forest plants. They have vast knowledge of plants and used it in various forms like food, medicinal, fodder, fuel, timber, gum, resin, etc. during popular festivals, rituals and functions. The natives of the region consume variety of wild forest produce chiefly tubers of different yams and various leaves, fruits, seeds, roots, flowers and sometimes whole plant. They even take various poisonous roots, as they know the art of purification and removing poison from them. The tribal community of the region possess unique ancient traditional and cultural heritage of using wild forest products as food and for other daily requirements. Naturally, they have plenty of knowledge about the wild edible plants and their utilization. The locally harvested plant parts are regularly sold in the local market. Also, all the edible plants are not available in one area, so the vendors collect them from different areas for marketing (Plates 1–4). Angami et al. (2006) reported 118 wild edible plants from different regions of Arunachal Pradesh. In his study *Artocarpus* sp., *Averrhoa carambola*, Bamboo sp., *Calamus* spp., *Clerodendrum* sp., *Colocasia* sp., *Elaeagnus* sp., *Garcinia* sp., *Morus* sp., *Phyllanthus* sp., *Prunus* sp., *Solanum* sp., *Syzygium* sp. and *Zizyphus* sp. are commonly grown and are in various stages of domestication in Arunachal Pradesh. Srivastava et al. (2010) in their studies on indigenous biodiversity of Apatani plateau reported about 100 species used by the Apatani and adjacent Nyshi communities. Yakang et al. (2013) reported 111 species of common and traditional *non-timber forest products* yielding plants under 58 families and 95 genera used by Apatani tribe of Arunachal Pradesh. Singh & Asha (2017) reported 63 wild edible fruits belonging to 33 families from Arunachal Pradesh. Lyngdoh et al. (2016) reported 52 wild edible fruits species belonging to 33 families from Arunachal Pradesh. Lungphi et al. (2018) reported 51 Wild edible plants belonging to 33 families used by the *Tangsa* community in the Changlang district of Arunachal Pradesh. Balkrishna et al. (2019) reported 43 highly economic ferns and fern-allies belonging to 17 families from Seijosa forest area of Arunachal Pradesh used by local people in different forms. Based on the local preferences and high commercial feasibility, *Aquilaria malaccensis* Lam., *Areca catechu* L., *Bambusa* Schreb., *Calamus* L., *Cocos nucifera* L., *Dendrocalamus* Nees and *Magnolia* L. have been identified, which can be cultivated and managed in various agricultural





Plates 1-4: 1 & 2 traditional market near Seijosa forest area; 3: local person doing fishing; 4: Nyishi tribes collecting forest produce

systems. The efficient management of the selected species growing luxuriantly in the locally prevalent climatic conditions may become the source of regular revenue generation, particularly for the poor section of the community.

4. Conclusion

On the basis of above study, it is concluded that flora of Seijosa, Arunachal Pradesh has a number of plant species, which are useful to mankind in various ways. For the first time, the detailed study was conducted to know the various phytoresources of Seijosa. These resources, if properly managed, will have the potential to enhance the rural income and also reduce population pressure on the forest.

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