

**Appendix 1:** List of all woody species ( $\geq 5$ cm dbh) recorded in three sites of Cherrapunjee in northeast India with family, habit, density (D, ha<sup>-1</sup>), basal area (BA, m<sup>2</sup>ha<sup>-1</sup>), importance value Index (IVI), conservation status and their distribution

Sl. no.	Species	Family	Habit#	MR			MM			KS			Conservation Status†#†	Distribution
				D	BA	IVI	D	BA	IVI	D	BA	IVI		
1	<i>Acronychia pedunculata</i>	Rutaceae	T	1	0.10	0.51	24	0.60	4.95	-	-	-		Indo-Malaya
2	<i>Agapetes obovata</i>	Vacciniaceae	S	-	-	-	-	-	-	46	0.77	9.06		NE India (Meghalaya)
3	<i>Albizzia chinensis</i>	Fabaceae	T	1	0.01	0.26	-	-	-	-	-	-		S&SE Asia, Indonesia
4	<i>Ardisia crispa</i>	Myrsinaceae	S	1	*	0.23	1	*	0.18	-	-	-		Indo-Malaya, NE India
5	<i>Aristolochia saccata</i>	Aristolochiaceae	S	1	0.00	0.24	-	-	-	-	-	-	R	E Himalayas, China, Indo-
6	<i>Aspidopterys indica</i>	Malpighiaceae	L	-	-	-	2	0.01	0.25	-	-	-		Throughout India
7	<i>Beilschmedia assamica</i>	Lauraceae	T	8	0.05	1.70	-	-	-	-	-	-	R	Indo -Burma
8	<i>Betula alnoides</i>	Betulaceae	T	25	3.31	14.62	-	-	-	-	-	-		Temperate and Subtropical
9	<i>Calophyllum polyanthum</i>	Clusiaceae	T	7	0.09	1.31	14	0.19	2.62	-	-	-		Indo -Burma
10	<i>Camellia caduca</i>	Theaceae	T	1	*	0.24	16	0.08	2.26	5	0.04	0.98	R	NE India (Meghalaya)
11	<i>Camellia caudata</i>	Theaceae	T	-	-	-	25	0.14	3.37	6	0.01	0.96		Nepal, Bangladesh, Indo-
12	<i>Caryota urens</i>	Arecaceae	T	3	0.02	0.74	1	0.06	0.33	1	0.01	0.23		Srilanka, Singapore, Indo-
13	<i>Casearia glomerulata</i>	Flacourtiaceae	T	8	0.10	2.21	31	0.35	5.14	10	0.05	1.74		Indo-Malaya, NE India
14	<i>Castanopsis armata</i>	Fagaceae	T	6	0.11	1.55	169	11.1	47.5	5	0.13	1.26		Indo -Burma
15	<i>Castanopsis kurzii</i>	Fagaceae	T	13	0.48	3.95	15	0.26	2.76	34	1.58	10.2		Indo -Burma
16	<i>Castanopsis purpurella</i>	Fagaceae	T	11	0.21	2.98	42	2.69	13.0	25	1.48	8.83		Indo -Burma
17	<i>Castanopsis tribuloides</i>	Fagaceae	T	12	0.42	3.29	-	-	-	-	-	-		Tropical Himalayas, Burma
18	<i>Cinnamomum tamala</i>	Lauraceae	T	24	0.67	7.03	47	1.41	10.1	27	0.69	7.13		Tropical and subtropical
19	<i>Cinnamomum pauciflorum</i>	Lauraceae	T	10	0.17	2.64	2	0.08	0.43	-	-	-	R	NE India
20	<i>Cinnamomum zeylinicum</i>	Lauraceae	T	1	0.01	0.25	-	-	-	-	-	-		Indo-Burma, Srilanka
21	<i>Clerodendron bracteatum</i>	Verbenaceae	S	1	*	0.24	2	*	0.35	-	-	-		Himalayas, NE India
22	<i>Croton oblongus</i>	Euphorbiaceae	T	5	0.04	1.13	1	*	0.18	-	-	-	R	Indo-Malaya
23	<i>Cyathea gigantea</i>	Cyathaceae	T	3	0.02	0.60	-	-	-	-	-	-	R	NE &S India, Burma,
24	<i>Daphniphyllum</i>	Daphniphyllaceae	T	-	-	-	-	-	-	1	*	0.21	R	NE India
25	<i>Disopyros kaki</i>	Ebenaceae	T	2	0.06	0.62	-	-	-	-	-	-		Indo-Malaya
26	<i>Drymicarpus racemosus</i>	Anacardiaceae	T	5	0.04	1.28	3	0.07	0.68	-	-	-		E Himalayas, Bangladesh
27	<i>Echinocarpus murex</i>	Elaeocarpaceae	T	-	-	-	6	0.60	2.35	-	-	-		Indo-Burma
28	<i>Elaeocarpus prunifolius</i>	Elaeocarpaceae	T	3	0.15	0.99	13	0.25	2.83	11	0.66	4.16	VU	NE India (Meghalaya &
29	<i>Elaeocarpus lancifolius</i>	Elaeocarpaceae	T	1	0.13	0.62	11	0.30	2.30	-	-	-		NE India
30	<i>Elaeocarpus floribundus</i>	Elaeocarpaceae	T	6	0.89	3.57	-	-	-	-	-	-		Indo-Burma, Malaya
31	<i>Elaeocarpus braceanus</i>	Elaeocarpaceae	T	10	1.71	6.75	29	1.25	6.84	-	-	-		Burma , India

32	<i>Embelia ribes</i>	Myrsinaceae	L	6	0.02	1.29	7	0.02	1.12	6	0.03	1.14		Indo-Malaya throughout
33	<i>Engelhardtia spicata</i>	Juglandaceae	T	10	6.64	37.24	40	3.11	13.9	17	0.87	5.79	LC	NE India, China, Bhutan,
34	<i>Entada phaseoloides</i>	Fabaceae	L	3	0.02	0.73	-	-	-	-	-	-		NE & S India
35	<i>Erythroxylon kunthianum</i>	Erythroxylaceae	T	2	*	0.47	21	0.06	2.73	9	0.02	1.44		Indo-Burma
36	<i>Eunymous bullatus</i>	Celastraceae	T	4	0.02	0.99	2	0.01	0.36	-	-	-	R	Bangladesh & NE India
37	<i>Eunymous lawsonii</i>	Celastraceae	T	9	0.03	1.73	1	*	0.28	-	-	-		NE India (Meghalaya)
38	<i>Euodia trichotoma</i>	Rutaceae	T	9	0.20	2.23	-	-	-	-	-	-		China & Indo-Malaya
39	<i>Eurya acuminata</i>	Theaceae	T	12	0.07	2.39	5	0.04	0.83	2	0.02	0.47		Indo-Malaya
40	<i>Eurya cerocifolia</i>	Theaceae	T	-	-	-	2	0.01	0.37	7	0.02	1.18		Himalayas, Indo- Burma,
41	<i>Eurya japonica</i>	Theaceae	S	8	0.02	1.61	-	-	-	2	*	0.40		Indo-Malaya, W Ghats
42	<i>Exbucklandia populnea</i>	Hamamelidaceae	T	1	0.24	0.94	-	-	-	-	-	-		Indo-Malaya, Temperate
43	<i>Ficus cunia</i>	Moraceae	T	1	0.01	0.26	-	-	-	1	0.01	0.23		Himalayas & Burma
44	<i>Ficus hirta</i>	Moraceae	T	-	-	-	-	-	-	1	*	0.20		Indo-Malaya
45	<i>Ficus nerifolia</i>	Moraceae	T	1	*	0.24	8	0.14	1.69	12	0.13	2.64		Himalayas
46	<i>Fraxinus floribunda</i>	Oleaceae	T	5	0.52	2.40	-	-	-	5	0.11	1.22	R	Temperate & sub Himalayas
47	<i>Garcinia anomala</i>	Myrtaceae	T	3	0.01	0.71	-	-	-	1	*	0.20		Indo-Burma
48	<i>Glochidion lanceolarium</i>	Euphorbiaceae	T	40	0.75	9.57	17	0.16	2.63	18	0.15	3.22		Bangladesh, Indo-Burma
49	<i>Glycosmis cymosa</i>	Rutaceae	T	-	-	-	77	0.69	10.6	-	-	-		NE India
50	<i>Glycosmis pentaphylla</i>	Rutaceae	T	1	*	0.24	-	-	-	-	-	-		NE India
51	<i>Helicia nilagirica</i>	Proteaceae	T	4	0.02	0.97	99	1.89	17.0	166	3.82	34.0		Indo-Malaya, Nilgiris & NE
52	<i>Hiptage acuminata</i>	Malpighiaceae	L	-	-	-	1	*	0.17	-	-	-		NE India
53	<i>Ilex excelsa</i>	Aquifoliaceae	T	-	-	-	1	0.11	0.45	-	-	-		Subtropical Himalayas & NE
54	<i>Ilex fragilis</i>	Aquifoliaceae	T	1	*	0.24	-	-	-	7	0.02	0.78	R	E Himalayas, NE India
55	<i>Ilex odorata</i>	Aquifoliaceae	T	-	-	-	26	0.14	3.67	8	0.29	2.39		Indo -Burma
56	<i>Ilex venulosa</i>	Aquifoliaceae	T	22	0.77	7.02	-	-	-	6	0.08	1.18	EN	NEIndia (Meghalaya)
57	<i>Illicium griffithii</i>	Magnoliaceae	T	-	-	-	-	-	-	7	0.02	1.16	EN	Bhutan, NE India,
58	<i>Itea chinensis</i>	Iteaceae	T	1	*	0.24	-	-	-	-	-	-		Indo-China
59	<i>Itea macrophylla</i>	Iteaceae	T	11	1.38	21.98	-	-	-	-	-	-		Indo-Malaya, NE India
60	<i>Lasianthus hookeri</i>	Rubiaceae	S	-	-	-	3	0.01	0.52	-	-	-		Burma, China & NE India
61	<i>Leea indica</i>	Leeaceae	S	19	0.10	3.38	-	-	-	2	*	0.28		Indo-Malaya
62	<i>Ligustrum robustum</i>	Oleaceae	T	18	0.29	4.12	77	1.64	13.1	90	2.24	19.4		Indo-Malaya
63	<i>Lindera caudata</i>	Lauraceae	T	2	*	0.47	-	-	-	3	0.01	0.35		Indo-Burma
64	<i>Lindera melastomaceae</i>	Lauraceae	T	-	-	-	5	0.02	0.67	1	0.03	0.28		E Himalayas, NE India
65	<i>Lithocarpus dealbatus</i>	Fagaceae	T	-	-	-	-	-	-	1	*	0.21		E Himalayas, Nilgiris
66	<i>Lithocarpus elegans</i>	Fagaceae	T	4	0.04	1.05	37	0.79	6.99	17	0.55	4.61		Indo-Malaya, Tropical
67	<i>Litsea laeta</i>	Lauraceae	T	8	0.10	2.12	4	0.10	0.94	1	*	0.21	R	Bangladesh, E Himalayas
68	<i>Litsea elongata</i>	Lauraceae	T	-	-	-	2	0.03	0.42	-	-	-	R	Temperate & Subtropical

69	<i>Litsea salicifolia</i>	Lauraceae	T	23	0.12	4.66	34	0.50	5.83	-	-	-		Indo -Burma
70	<i>Macaranga denticulata</i>	Euphorbiaceae	T	25	0.34	5.60	5	0.06	0.88	5	0.14	1.29		Indo-Malaya, NE India
71	<i>Macropanax disperma</i>	Araliaceae	T	34	0.34	6.70	-	-	-	1	0.01	0.21		Indo-Malaya
72	<i>Melodinus monogynus</i>	Apocynaceae	L	-	-	-	1	*	0.17	4	0.02	0.85	R	Indo-Malaya
73	<i>Maesa indica</i>	Myrsinaceae	S	3	0.01	0.71	2	*	0.24	-	-	-		Africa to Malaya
74	<i>Michelia punduana</i>	Magnoliaceae	T	3	0.10	0.98	7	0.35	1.86	13	0.54	3.52	VU	NE India (Meghalaya &
75	<i>Microtropis discolor</i>	Celastraceae	T	-	-	-	5	0.04	0.93	-	-	-		Burma, Himalayas
76	<i>Miliusa roxburghiana</i>	Annonaceae	S	1	0.01	0.26	14	0.05	1.93	2	0.01	0.28		Bangladesh, Burma, NE
77	<i>Milletia pulchra</i>	Fabaceae	S	-	-	-	3	0.01	0.31	-	-	-		Indo-Malaya, NE India
78	<i>Mezoneurum cucullatum</i>	Fabaceae	L	-	-	-	1	*	0.17	-	-	-		Indo-Malaya, S& NE India
79	<i>Meyna laxiflora</i>	Rubiaceae	T	-	-	-	22	0.12	3.46	-	-	-		Indo-Malaya, S& NE India
80	<i>Morinda angustifolia</i>	Rubiaceae	S	-	-	-	1	*	0.28	-	-	-		Indo-Burma, Himalayas &
81	<i>Myrica esculenta</i>	Myricaceae	T	-	-	-	3	0.68	2.28	1	0.54	1.96		Indo-Malaya, Subtropical
82	<i>Myrsine semiserrata</i>	Myrsinaceae	T	-	-	-	3	0.01	0.42	18	0.08	3.14		E Himalayas, Burma
83	<i>Neolitsea cassia</i>	Lauraceae	T	2	*	0.47	2	0.02	0.39	3	0.01	0.36		Indo-Malaya, S India
84	<i>Oreocnide intigrifolia</i>	Urticaceae	S	2	0.01	0.47	-	-	-	-	-	-		Indo-Malaya, NE India
85	<i>Ostodes paniculata</i>	Euphorbiaceae	T	7	0.02	1.39	-	-	-	-	-	-		Indo-Malaya, E Himalayas
86	<i>Pandanus odoratissimus</i>	Pandanaceae	T	-	-	-	315	2.13	33.1	378	3.04	46.8		Indo-Malaya, Srilanka, SE
87	<i>Persea odoratissima</i>	Lauraceae	T	2	0.02	0.51	25	0.45	4.51	15	0.51	4.46		Indo-Malaya, Temperate
88	<i>Photinia integrifolia</i>	Rosaceae	T	-	-	-	3	0.10	0.77	11	0.21	2.58	R	Himalayas
89	<i>Photinia niotoniana</i>	Rosaceae	T	-	-	-	13	0.41	3.02	68	2.89	19.0		E Himalayas, W Ghats, NE
90	<i>Pittosporum podocarpum</i>	Pittosporaceae	T	17	0.02	3.67	-	-	-	5	0.02	0.77		Indo-Malaya, NE India
91	<i>Podocarpus neriifolia</i>	Podocarpaceae	T	-	-	-	1	0.01	0.18	-	-	-	R	Indo-Malaya
92	<i>Photonia cuspidata</i>	Rosaceae	T	-	-	-	2	0.07	0.53	12	0.86	4.89		NE India (Meghalaya)
93	<i>Psychotria adenophylla</i>	Rubiaceae	T	-	-	-	14	0.07	2.33	25	0.22	4.30		Indo-Burma, NE India,
94	<i>Psychotria symplicifolia</i>	Rubiaceae	S	-	-	-	-	-	-	5	0.14	1.43	R	Indo-Burma
95	<i>Quercus gluca</i>	Fagaceae	T	-	-	-	1	0.24	0.80	-	-	-	R	Subtropical Himalayas,
96	<i>Randia griffithii</i>	Rubiaceae	T	-	-	-	3	0.01	0.53	1	*	0.20		India
97	<i>Randia longiflora</i>	Rubiaceae	L	-	-	-	1	*	0.17	-	-	-		Indo-Burma, Andamans
98	<i>Rhus acuminata</i>	Anacardiaceae	T	6	0.04	1.48	-	-	-	-	-	-		Indo-Malaya, Himalayas
99	<i>Rourea minor</i>	Connaraceae	L	-	-	-	-	-	-	2	0.01	0.42		Indo-Malaya, NE India
100	<i>Sapium baccatum</i>	Euphorbiaceae	T	1	0.05	0.38	-	-	-	-	-	-		Indo-Malaya, NE India
101	<i>Sarcococca pruniformis</i>	Buxaceae	S	-	-	-	4	0.02	0.73	2	0.01	0.42		Afganistan, Himalayas, S
102	<i>Sarcosperma griffithii</i>	Sapotaceae	T	-	-	-	20	0.39	3.83	12	0.04	2.22	R	NE India
103	<i>Saurauia cerea</i>	Saurauiaceae	T	5	0.14	1.43	-	-	-	1	0.02	0.26		E Himalayas, Indo-Burma
104	<i>Schefflera hypoleuca</i>	Araliaceae	T	12	0.16	2.93	2	0.02	0.83	45	1.07	9.72		Indo-Burma
105	<i>Schfelleria wallichiana</i>	Araliaceae	T	-	-	-	1	0.04	0.27	35	0.91	7.78		E Himalayas, Srilanka, S

106	<i>Schima wallichii</i>	Theaceae	T	14 7	9.50	52.98	21	1.25	6.36	27	1.45	9.38		Indo-Burma, Himalayas, Bangladesh, NE India
107	<i>Symplocos paniculata</i>	Symplocaceae	S	-	-	-	1	*	0.17	-	-	-		E Himalayas to Japan
108	<i>Spondias pinnata</i>	Anacardiaceae	T	8	0.97	4.13	-	-	-	-	-	-		Tropical Asia
109	<i>Styrax serrulatum</i>	Styracaceae	T	59	0.20	9.38	17	0.22	2.79	3	0.01	0.61		Indo-Malaya
110	<i>Symplocos glomerata</i>	Symplocaceae	T	22	0.20	5.05	3	0.01	0.52	1	*	0.20		E& Sub Himalayas
111	<i>Symplocos javanica</i>	Symplocaceae	T	34	0.32	7.04	14	0.05	1.08	29	0.22	5.09		Indo-Malaya
112	<i>Symplocos spicata</i>	Symplocaceae	T	11	0.09	2.50	31	0.69	4.55	24	0.12	3.92		Indo-Malaya, NE & S India
113	<i>Syzygium macrocarpum</i>	Myrtaceae	T	1	*	0.23	34	0.17	4.98	3	0.01	0.48		Indo-Malaya
114	<i>Syzygium tetragonum</i>	Myrtaceae	T	12	0.26	3.38	79	2.10	15.5	86	2.82	21.6		Bangladesh, Bhutan, Indo-
115	<i>Talauma hodgsonii</i>	Magnoliaceae	T	23	0.45	5.34	-	-	-	-	-	-		E Himalayas, NE India
116	<i>Tetrastigma obovata</i>	Vitaceae	L	1	*	0.24	-	-	-	-	-	-		NE India (Meghalaya)
117	<i>Vaccinium dunalianum</i>	Vaccinaceae	T	-	-	-	2	*	0.34	-	-	-		NE India
118	<i>Vaccinium sprengelii</i>	Vacciniaceae	T	-	-	-	-	-	-	1	0.00	0.21		Indo-Malaya
119	<i>Vernonia volkameriifolia</i>	Asteraceae	S	7	0.02	1.39	24	0.08	3.48	45	0.18	7.04		Indo -Burma
120	<i>Viburnum foetidum</i>	Caprifoliaceae	S	-	-	-	-	-	-	1	*	0.20		Indo -Burma
121	<i>Viburnum odoratissimum</i>	Caprifoliaceae	T	10	0.08	1.98	-	-	-	-	-	-		Indo-Burma, China
122	<i>Viburnum simonsii</i>	Caprifoliaceae	T	-	-	-	2	0.01	0.46	-	-	-		NE India (Meghalaya)
123	<i>Wendlendia wallichii</i>	Rubiaceae	T	50	0.44	10.66	10	0.03	1.44	22	0.46	5.01		E Himalayas
124	<i>Zanthoxylum ovalifolium</i>	Rutaceae	T	-	-	-	2	0.03	0.41	-	-	-		Indo-Malaya, NE & S India
125	Unidentified sp 1		T	-	-	-	-	-	-	6	0.08	1.42		-

#T= Trees, S=Shrub, L=liana ; \* = Values of basal area <0.01; † EN= Endangered, VU= Vulnerable, LC= Least Concern, R=Rare; MR= Mamloorim, MM= Mawsmi, KS= Khleighshnong

E = Eastern, NE= Northeast, S= South, SE= South east, W= Western.