

ANNEX S: Important Value Index (IVI) of Major Species



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SN	Local name	Botanical name	Density (D) (N/ha)	Relative Density (RD) %	Frequency (F)	Relative Frequency (RF) %	Basal Area (BA) m ² /ha	Relative Basal Area (RBA) %	Importance Value Index (IVI)
1	Amala	<i>Phyllanthus emblica</i>	1.0363	0.21151	0.51813	0.23095	0.00621	0.03525	0.47771
2	Anageri	<i>Lyonia ovalifolia</i>	1.5544	0.31726	1.03627	0.46190	0.01638	0.09303	0.87219
3	Aap	<i>Magnifera Indica</i>	0.8290	0.16920	1.55440	0.69285	0.28403	1.61316	2.47521
4	Arkhaule	<i>Lithocarpus elegans</i>	0.1036	0.02115	0.51813	0.23095	0.00884	0.05020	0.30230
5	Baiha	<i>Quercus lanata</i>	0.6218	0.12690	1.03627	0.46190	0.01507	0.08558	0.67438
6	Bakaino	<i>Meila azedarach</i>	1.0363	0.21151	1.03627	0.46190	0.01458	0.08283	0.75623
7	Bakale	<i>Myrsine capitellata</i>	3.6269	0.74027	0.51813	0.23095	0.06292	0.35734	1.32856
8	Bel	<i>Aegle marmelos</i>	1.0363	0.21151	0.51813	0.23095	0.00335	0.01905	0.46150
9	Bhalayo	<i>Semecarpus anacardium</i>	6.7358	1.37478	6.21762	2.77139	0.18118	1.02903	5.17520
10	Bibaune	<i>Maesa chisia</i>	0.5181	0.10575	0.51813	0.23095	0.00249	0.01413	0.35083
11	Botdhangero	<i>Lagerstroemia parviflora</i>	6.1140	1.24788	4.66321	2.07854	0.13992	0.79470	4.12112
12	Camuna	<i>Cleistocalyx operculata</i>	1.0363	0.21151	0.51813	0.23095	0.01655	0.09400	0.53646
13	Chanp	<i>Magnolia champaca</i>	0.5181	0.10575	0.51813	0.23095	0.01206	0.06848	0.40519
14	Chilaune	<i>Schinus molle</i>	111.2953	22.71565	42.48705	18.93784	3.42279	19.43995	61.09344
15	Chiuri	<i>Diplaknema butyracea</i>	2.0725	0.42301	1.03627	0.46190	0.01437	0.08161	0.96652
16	Dudhilo	<i>Ficus nerifolia</i>	0.5181	0.10575	0.51813	0.23095	0.02060	0.11702	0.45372
17	Falame	<i>Homalium napaulense</i>	0.5181	0.10575	0.51813	0.23095	0.00259	0.01471	0.35141
18	Gogan	<i>Saurauia napaulensis</i>	0.5181	0.10575	0.51813	0.23095	0.00207	0.01178	0.34848
19	Guyeko	<i>Callicarpa arborea</i>	1.1399	0.23266	1.03627	0.46190	0.03083	0.17511	0.86966
20	Gurans	<i>Rhododendron arboreum</i>	3.7306	0.76142	2.59067	1.15475	0.05742	0.32614	2.24231
21	Ipil ipil	<i>Leucaena leucocephala</i>	0.1036	0.02115	0.51813	0.23095	0.01907	0.10832	0.36042
22	Jamun	<i>Syzygium cumini</i>	1.5544	0.31726	3.10881	1.38570	0.13615	0.77329	2.47624
23	Other species	<i>Miscellaneous species</i>	10.3627	2.11505	8.29016	3.69519	0.31987	1.81672	7.62696
24	Jingath	<i>Lannea coromandelica</i>	0.1036	0.02115	0.51813	0.23095	0.00571	0.03240	0.28450
25	Kadam	<i>Neolamarckia cadamba</i>	0.1036	0.02115	0.51813	0.23095	0.01765	0.10025	0.35234
26	Kainjal	<i>Bischofia javanica</i>	0.1036	0.02115	0.51813	0.23095	0.03320	0.18859	0.44069
27	Jhigane	<i>Eurya acuminata</i>	0.5181	0.10575	0.51813	0.23095	0.00483	0.02745	0.36416
28	Kafal	<i>Myrica esculenta</i>	1.0363	0.21151	0.51813	0.23095	0.03036	0.17241	0.61486
29	Kalyo	<i>Grovelia robusta</i>	1.5544	0.31726	1.03627	0.46190	0.02393	0.13593	0.91508
30	Karma	<i>Adina cordifolia</i>	0.4145	0.08460	1.55440	0.69285	0.05356	0.30421	1.08166
31	Katahar	<i>Artocarpus heterophyllus</i>	0.2073	0.04230	0.51813	0.23095	0.02652	0.15060	0.42385
32	Patle Katus	<i>Castanopsis hystrix</i>	30.7772	6.28170	20.20725	9.00702	0.77160	4.38238	19.67110
33	Khayar	<i>Acacia catechu</i>	4.7668	0.97292	3.10881	1.38570	0.12359	0.70196	3.06058
34	Khanivu	<i>Ficus semicordata</i>	2.0725	0.42301	1.55440	0.69285	0.03053	0.17337	1.28923
35	Kharsu	<i>Quercus semecarpifolia</i>	1.5544	0.31726	1.03627	0.46190	0.02590	0.14711	0.92627
36	Khirro	<i>Falconeri insigni</i>	3.6269	0.74027	2.59067	1.15475	0.03497	0.19861	2.09363
37	Kumbhi	<i>Careya arborea</i>	0.5181	0.10575	0.51813	0.23095	0.00278	0.01578	0.35248
38	Kusum	<i>Schleichera oleosa</i>	0.5181	0.10575	0.51813	0.23095	0.01036	0.05884	0.39554
39	Kutamiro	<i>Libsea monopetala</i>	0.1036	0.02115	0.51813	0.23095	0.01191	0.06764	0.31974
40	Lakuri	<i>Fraxinus floribunda</i>	1.7617	0.35956	2.07254	0.92380	0.08954	0.50856	1.79192
41	Mahuwa	<i>Engelhardia spicata</i>	2.5907	0.52876	1.55440	0.69285	0.03964	0.22514	1.44675
42	Maidal kanda	<i>Tamilnadia virginosa</i>	0.5181	0.10575	0.51813	0.23095	0.01612	0.09157	0.42827
43	Mel	<i>Pyrus pashia</i>	1.0363	0.21151	1.03627	0.46190	0.01182	0.06716	0.74056
44	Odane	<i>Sterculia villosa</i>	0.6218	0.12690	1.03627	0.46190	0.02207	0.12533	0.71413
45	Khote sallo	<i>Pinus roxburghii</i>	25.2850	5.16073	17.61658	7.85228	2.10714	11.96764	24.98064
46	Gobre sallo	<i>Pinus wallichiana</i>	7.9793	1.62859	2.07254	0.92380	0.58900	3.34527	5.89765
47	Phadke siris	<i>Albizia julibrissin</i>	1.1399	0.23266	1.03627	0.46190	0.04729	0.26856	0.96311
48	Pivari	<i>Buchanania latifolia</i>	1.1399	0.23266	1.03627	0.46190	0.02268	0.12881	0.82336
49	Saj	<i>Terminalia alata</i>	3.1088	0.63452	3.10881	1.38570	0.19663	1.11677	3.13698
50	Sal	<i>Shorea robusta</i>	196.7876	40.16483	53.88601	24.01873	6.78626	38.54297	102.72653
51	Dhaine Katus	<i>Castanopsis indica</i>	2.0725	0.42301	1.55440	0.69285	0.01723	0.09786	1.21372
52	Sandan	<i>Desmodium oajinense</i>	0.1036	0.02115	0.51813	0.23095	0.00967	0.05494	0.30704
53	Saur	<i>Betula alnoides</i>	0.1036	0.02115	0.51813	0.23095	0.01841	0.10456	0.35666
54	Seto siris	<i>Albizia procera</i>	0.5181	0.10575	1.55440	0.69285	0.07181	0.40785	1.20645
55	Simal	<i>Bombax ceiba</i>	3.2124	0.65567	2.07254	0.92380	0.12747	0.72399	2.30345
56	Sindure	<i>Mallotus philippensis</i>	2.5907	0.52876	1.55440	0.69285	0.02541	0.14430	1.36591
57	Kalo Siris	<i>Albizia lebeck</i>	1.0363	0.21151	0.51813	0.23095	0.03936	0.22356	0.66602
58	Sisso	<i>Dalbergia sissoo</i>	12.7461	2.60151	5.69948	2.54044	0.53786	3.05479	8.19674
59	Tiuu	<i>Solanum anguivi</i>	1.5544	0.31726	1.03627	0.46190	0.02985	0.16953	0.94869
60	Tooni	<i>Toona ciliolata</i>	1.0363	0.21151	1.03627	0.46190	0.02456	0.13948	0.81288
61	Uttis	<i>Ainus nepalensis</i>	18.4456	3.76479	7.77202	3.46424	0.78053	4.43304	11.66207
	Total		489.9482	99.99963	224.35233	100.00104	17.60711	100.00065	300.00131

Note:

Basal Area (BA) (m²) = πr²n or πr²

Relative Basal Area (RBA) % = BA of individual species/total BA of species x 100

Density (D) N/ha = Total no of plant of any species/total no of quadrats studies x area of quadrats x 10000

Relative Density (RD) % = Density of individual species/total density of all species

Frequency (F) = No of quadrats in which species occurred/total no of quadrats studies x 100

Relative Frequency (RF) % = Frequency of species/total frequency of all species x 100

Important Value Index (IVI) = Relative Density + Relative Frequency + Relative Basal Area for trees.



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