

## Supplementary Material

**Tab. S1** - Observations from the forest ecosystems, showing the general overview of forest (study area). (#): Plot located near to human settlement area and stream.

Plot	Tree DBH (cm)	Tree height (m)	Grass cover (%)	Stoniness/rock out crop/Other (%)	Soil type, texture	Dominant species
1	5.73-71.62	3-12	80	20	Sandy loam, Weak fine granular	<i>Pleiospermium alatum</i> (Wight & Arn.) Swingle , <i>Canthium coromandelicum</i> (Burm.f.) Alston, <i>Chloroxylon swietenia</i> DC. <i>Euphorbia antiquorum</i> L, <i>Gmelina arborea</i> Roxb., <i>Hardwickia binata</i> Roxb.
2	3.18-77.99	2-16	70	30	Sandy loam, Weak fine granular	<i>Atalantia monophylla</i> DC. , <i>Canthium coromandelicum</i> (Burm.f.) Alston, <i>Commiphora berryi</i> (Arn.) Engl. , <i>Cordia gharaf</i> (Forssk.) Ehrenb. ex Asch, <i>Dichrostachys cinerea</i> (L.) Wight & Arn., <i>Ehretia ovalifolia</i> Wight.
3	4.14-55.07	2-13	60	40	Sandy loam, Weak fine granular	<i>Atalantia monophylla</i> DC. , <i>Canthium coromandelicum</i> (Burm.f.) Alston, <i>Sapindus emarginatus</i> Vahl , <i>Cordia gharaf</i> (Forssk.) Ehrenb. ex Asch , <i>Chloroxylon swietenia</i> DC. , <i>Ehretia ovalifolia</i> Wight.
4	3.50-21.65	2-13	70	30	Sandy loam, Weak fine granular	<i>Atalantia monophylla</i> DC. , <i>Canthium coromandelicum</i> (Burm.f.) Alston, <i>Pleiospermium alatum</i> (Wight & Arn.) Swingle , <i>Chloroxylon swietenia</i> DC. , <i>Cordia gharaf</i> (Forssk.) Ehrenb. ex Asch, <i>Dichrostachys cinerea</i> (L.) Wight & Arn.
5	3.18-14.32	2-4	60	40	Sandy loam, Weak fine granular	<i>Acacia planifrons</i> Wight & Arn., <i>Canthium coromandelicum</i> (Burm.f.) Alston, <i>Cordia sinensis</i> Lam., <i>Dichrostachys cinerea</i> (L.) Wight & Arn. , <i>Gmelina arborea</i> Roxb. , <i>Pleiospermium alatum</i> (Wight & Arn.) Swingle.
6 <sup>#</sup>	3.50-111.41	2-17	60	40	Sandy loam, Weak fine granular	<i>Atalantia monophylla</i> DC. <i>Vitex leucoxydon</i> L.f. , <i>Lepisanthes tetraphylla</i> (Vahl) Radlk. , <i>Pleiospermium alatum</i> (Wight & Arn.) Swingle , <i>Tamarindus indica</i> L. , <i>Chloroxylon swietenia</i> DC.
7	3.18-39.15	3-9	60	40	Sandy loam, Weak fine granular	<i>Acacia planifrons</i> Wight & Arn. , <i>Albizia amara</i> (Roxb.) B.Boivin , <i>Atalantia monophylla</i> DC. , <i>Azadirachta indica</i> A.Juss. , <i>Pleiospermium alatum</i> (Wight & Arn.) Swingle , <i>Cordia sinensis</i> Lam.
8	3.50-30.88	2.5-9	80	20	Sandy loam, Weak fine granular	<i>Albizia amara</i> (Roxb.) B.Boivin , <i>Atalantia monophylla</i> DC. , <i>Azadirachta indica</i> A.Juss. , <i>Cordia sinensis</i> Lam., <i>Pleiospermium alatum</i> (Wight & Arn.) Swingle , <i>Acacia planifrons</i> Wight & Arn.