



CENTRE FOR ENVIRONMENTAL SOLUTIONS AND CONSULTANCY (CESAC)

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RAPID BIODIVERSITY ASSESSMENT AT GRANITE BUILDING STONE QUARRY SITE OF Mr. E.S BAIJU, EMMANIYEL HOUSE, VETTUKAD P.O, THRISSUR

DATE OF STUDY : 2.06.2018
LOCATION : Thrikkur
AREA : 0.9950 Ha
LAND TYPE : Private

SUMMARY OF THE REPORT

The proposed quarry site has a lease area of 0.9950 ha and was occupied mainly with few moist deciduous trees and rubber plantation. A total of 24 tree species includes both seedlings and saplings are reported from the quarry site. The dominant trees in the site were *Xylia xylocarpa* (Irul) and *Terminalia paniculata* (Maruthu). Plantation of Rubber was also established in the proposed quarry site. No endemic species of both flora and fauna are recorded from the site. Two vulnerable trees viz, *Dalbergia latifolia* & *Santalum album* were reported from the site. The detailed biodiversity assessment report and list of recommended species for afforestation is enclosed herewith.

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DETAILS OF FLORA

LIST OF TREES

Sl no:	Scientific name	Common name	Number	Status/Remarks
1	<i>Terminalia paniculata</i>	Maruthu	4	
2	<i>Ailanthus triphysa</i>	Matti	1	
3	<i>Stereospermum suaveolens</i>	Pathiri	3	
4	<i>Xylia xylocarpa</i>	Irul	4	
5	<i>Tectona grandis</i>	Teak	3	
6	<i>Ficus hispida</i>	Erumanakk	2	
7	<i>Santalum album</i>	Chandanam	Saplings	Vulnerable
8	<i>Tabernaemontana alternifolia</i>	Kundalappala	1	
9	<i>Trema orientalis</i>	Amapetti	2	
10	<i>Samanea saman</i>	Mazhamaram	1	
11	<i>Bombax ceiba</i>	Ilavu	1	
12	<i>Sterculia villosa</i>	Vakka	2	
13	<i>Wrightia tinctoria</i>	Dhanthappala	Saplings	Least concern
14	<i>Strychnos nux-vomica</i>	Kanjiram	Saplings	
15	<i>Macaranga peltata</i>	Vatta	2	
16	<i>Dalbergia latifolia</i>	Veeti	1+Sapling	Vulnerable
17	<i>Ailanthus triphysa</i>	Matti	1	
18	<i>Annona reticulata</i>	Atha	1	
19	<i>Cassia fistula</i>	Kanikonna	Sapling	
20	<i>Ficus exasperata</i>	Therakam	1	

21	<i>Holarrhena pubescens</i>	Kudakappala	1	Least concern
22	<i>Alstonia scholaris</i>	Ezhilampala	1+sapling	Least concern
23	<i>Gliricidia sepium</i>	Seemakonna	3+Saplings	
24	<i>Hevea braziliensis</i>	Rubber	Plantation	

LIST OF SHRUBS, HERBS AND CLIMBERS

Sl no:	Scientific name	Common name	Habit	IUCN Status
1	<i>Lantana camara</i>	Aripoo	Shrub	
2	<i>Vigna radiata</i>	Kattuzhunnu	Climber	
3	<i>Ziziphus oenopia</i>	Thodali	Climber	
4	<i>Pennisetum polystachyon</i>	Mission grass	Herb	
5	<i>Hyptis suaveolens</i>	Pignut	Herb	
6	<i>Glycosmis pentaphylla</i>	Panal	Shrub	
7	<i>Acacia caesia</i>	Incha	Climber	
8	<i>Merremia umbellata</i>	Vayara	Climber	
9	<i>Sida rhombifolia</i>	Kurumthotti	Shrub	
10	<i>Jasminum coarctatum</i>	Kattumulla	Climber	
11	<i>Canthium coromandelicum</i>	Karamullu	Shrub	
12	<i>Dioscorea alata</i>	Kachil	Climber	
13	<i>Colocasia esculenta</i>	Chembu	Herb	
14	<i>Ipomoea pileata</i>	Morning glory	Climber	
15	<i>Ipomoea pes-tigridis</i>	Pulichuvadi	Climber	
16	<i>Indigofera astragalina</i>		Shrub	

17	<i>Cleome rutidosperma</i>	Neelavela	Herb	
18	<i>Tinospora sinensis</i>	Kattamruthu	Climber	
19	<i>Ichnocarpus frutescens</i>	Kattupalvalli	Climber	
20	<i>Phyllanthus amarus</i>	Keezharnelli	Herb	
21	<i>Clerodendrum infortunatum</i>	Peruku	Shrub	
22	<i>Scoparia dulcis</i>	Kallurukki	Herb	
23	<i>Cyperus sp.</i>		Herb	
24	<i>Cyclea peltata</i>	Padavalli	Climber	
25	<i>Mikania micrantha</i>	Vayara	Climber	
26	<i>Mimosa pudica</i>	Thottavadi	Climber	
27	<i>Sida cordifolia</i>	Vallikurumthotti	Herb	
28	<i>Senna alata</i>	Malamthakara	Shrub	
29	<i>Spermacoce latifolia</i>	Tharavu	Herb	
30	<i>Alternanthera brasiliana</i>	Joyweed	Shrub	
31	<i>Paspalum conjugatum</i>	Hilograss	Herb	
32	<i>Helicteres isora</i>	Idampiri valampiri	Shrub	
33	<i>Breynia retusa</i>	Ekdania	Shrub	
34	<i>Triumfetta rhomboidea</i>	Oorpam	Shrub	
35	<i>Cayratia pedata</i>	Corivalli	Climber	
36	<i>Capsicum annum</i>	Kanthari	Shrub	

DETAILS OF FAUNA

LIST OF BIRDS

Sl no:	Scientific name	Common name	IUCN Status	WPA Schedule
1	<i>Dicrurus macrocercus</i>	Black Drongo	Least Concern	Sch. IV
2	<i>Dendrocitta vagabunda</i>	Rufous Treepie	Least Concern	Sch. IV
3	<i>Orthotomus sutorius</i>	Common Tailor bird	Least Concern	Sch. IV
4	<i>Dicrurus paradiseus</i>	Greater Racket tailed drongo	Least Concern	Sch. IV
5	<i>Psilopogon viridis</i>	White cheeked barbet	Least Concern	Sch. IV
6	<i>Cinnyris asiaticus</i>	Purple sunbird	Least Concern	Sch. IV
7	<i>Pycnonotus jocosus</i>	Red-whiskered Bulbul	Least concern	Sch. IV
8	<i>Corvus splendens</i>	House crow	Least concern	Sch. V
9	<i>Dinopium benghalense</i>	Black rumped flameback	Least Concern	Sch. IV
10	<i>Hierococcyx varius</i>	Common hawk Cuckoo	Least Concern	Sch. IV
11	<i>Oriolus xanthornus</i>	Black hooded oriole	Least Concern	Sch. IV
12	<i>Halcyon smyrnensis</i>	White breasted King Fisher	Least Concern	Sch. IV
13	<i>Pycnonotus cafer</i>	Red vented Bulbul	Least Concern	Sch. IV
14	<i>Copsychus saularis</i>	Oriental magpie robin	Least Concern	Sch. IV
15	<i>Acridotheres tristis</i>	Common Myna	Least Concern	Sch. IV
16	<i>Centropus sinensis</i>	Greater Coucal	Least Concern	Sch. IV
17	<i>Turdoides affinis</i>	Yellow billed Babbler	Least Concern	Sch. IV

LIST OF INSECTS

Sl no:	Scientific name	Common name	WPA Schedule
1.	<i>Trithemis aurora</i>	Crimson marsh glider	
2.	<i>Brachydiplax sobrina</i>	Little blue marsh Hawk	
3.	<i>Orthetrum luzonicum</i>	Tricoloured mars hawk	
4.	<i>Menochilus sp.</i>	lady beetle	
5.	<i>Papilio polytes</i>	Common Mormon	
6.	<i>Ypthima huebneri</i>	Common Four-ring	
7.	<i>Ariadne ariadne</i>	Angled Castor	
8.	<i>Melanitis leda</i>	Evening brown	
9.	<i>Eurema hecabe</i>	Common Grass Yellow	
10.	<i>Catantops sp.</i>	Short horned grasshopper	
11.	<i>Oecophylla smargdina</i>	Weaver ant	
12.	<i>Myrmecaria brunnea</i>	Hunch back	
13.	<i>Apis mellifera</i>	Honey bee	
14.	<i>Hypolimnas misippus</i>	Danaid Eggfly	
15.	<i>Papilio demoleus</i>	Lime butterfly	
16.	<i>Iambrix salsala</i>	Chestnut bob	

LIST OF REPTILES

Sl no:	Scientific name	Common name	IUCN Status	WPA Schedule
1	<i>Eutropis carinata</i>	Common keeled Skink	Least concern	
2	<i>Calotes versicolor</i>	Indian Garden Lizard	NE	

SPECIES RECOMMENDED FOR AFFORESTATION AT QUARRY SITE

Sl no:	Scientific name	Local name	Remarks
1	<i>Pennisetum pedicellatum</i>	Dheenanth grass	Grasses with soil binding capacity
2	<i>Cymbopogon flexuosus</i>	Lemon grass	
3	<i>Sida acuta</i>	Anakurumthotti	Medicinal herbs & shrubs
4	<i>Sida rhombifolia</i>	Kurumthotti	
5	<i>Desmodium gangeticum</i>	Orila	
6	<i>Pseudarthria viscida</i>	Moovila	
7	<i>Justicia gendarussa</i>	Vathamkolli	
8	<i>Andrographis paniculata</i>	Kiriyath	Trees for dust mitigation and as green belt
9	<i>Mangifera indica</i>	Maavu	
10	<i>Grewia tiliifolia</i>	Chadachi	
11	<i>Syzygium cumini</i>	Njaval	
12	<i>Artocarpus hirsutus</i>	Anjili	
13	<i>Albizia odoratissima</i>	Kunnivaka	
14	<i>Holarrhena pubescens</i>	Kudakappala	
15	<i>Terminalia bellirica</i>	Thanni	
16	<i>Ailanthus triphysa</i>	Matti	
17	<i>Xylia xylocarpa</i>	Irul	
18	<i>Swietenia macrophylla</i>	Mahogany	



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