

Flora Identification Report (Tahir A. Haji)

1.0. INTRODUCTION

Tree species identification was conducted at Kiwengwa/Pongwe dry caves, near to Mchekeni and Mwanza village. The study carried out four days, from 6/3/2006 up to 10/3/2006

2.0. OBJECTIVES

- 2.1. To understand tree species richness of study area.
- 2.2. To find possible opportunities from tree existing near the caves that will serve in the Eco tourism attraction.
- 2.3. Marking useful trees, shrubs, scrubs and herbs that will lead to benefits social and scientific values.

3.0 STUDY AREA

The study was done at Kiwengwa-Pongwe Forest Reserve, Zanzibar. It is a tropical forest and the zone fall under high coral rag thickest type of vegetation. The height is 20m above sea level.

4.0. METHODOLOGY

A circular plot of 707.14 m was establishment by using 15 meter rope. All appeared trees in the plot above 2 cm diameter were considered in the identification, except climbers, Fern and useful herbs were taken even under 2cm diameter. By clockwise move direction, the all circle than completed.

5.0. RESULTS

- 5.1. 95 tree species were found in the plot belong under 34 Families.
- 5.2. 68 trees identified in local, scientific and family names
- 5.3. 22 tree species were identified only local name but not scientific and family name
- 5.4. 7 species were totally unknown neither local nor scientific names
(For details check attachment paper)

Fig 1: Flora identification and Marking at the cave sites



Marking of selected species at nature trail, in between caves and reception

53 Species selected for marking out of 95 spp founded in plot and categorized into three as follows.

- Natural trail number one. Starting from reception center to cave surrounding 37 tree species
- Sites in between tree cave 12 tree species.
- Reception center we marked only 4 tree spp.

This marking was more interesting on clear known spp on both scientific and local names also we were marked trees which above 2 cm and diameter

6.0. OBSERVATIONS

- 6.1. The cave area is rich in tree species (95spp.)
- 6.2. The site is heterogeneous in diameter classes may be by illegally harvesting of resources.

7.0. SUGGESTIONS

- 7.1. Cave area should be well maintained to ensure environmental stability
- 7.2. It is proposed an intensive biodiversity study of all area that will produce natural resource values.

Appendix 1: Tree species Identification

NO.	Location – Caves Sites		DATE 6/3/2006-10/3/2006				
	Local Name	Scientific name	Family	Uses	Marked at Nature Trail	Marked in btn cave	Marked at reception
1	Mlapaa jike	Polyspheria multiflora	Rubiaceae	Fuel wood.	****	****	
2	Mtowe	Ancylobo thryspeterciana	Apocynaceae	Fruits, tie rope of bundles.			
3	Mpwipwi[mkanate]	Un identified	Un identified	Medicinal , Fruits.			
4	Mchanga	Un identified	Un identified	Polesand fuel wood.			
5	Mpilpildoria.	sorindeia madagascariensis	Anacardiaceae	Fruit tree, Fuel wood.	****	****	
6	Mkuyu mrimbo	Ficus ingens.	Moraceae	Fuel wood.	****		
7	Mkumba	Rhus natalensis	Anacardiaceae	Fuel wood.			
8	Mrimba	Drypetes natalensis	Euphorbiaceae	Construction poles.	****	****	
9	Haungongwa	Psychotria mahonii	Rubiaceae	Poisonous tree.	****		
10	Mkenga jua	Un identified	Un identified	Unknown			
11	Mjoma	Macspohnia gracilis	Sapindaceae	Medicinal, construction poles.	****	****	
12	Mpande	Pittosporum viridoforum	Pittosporaceae	Medicinal, fuel wood.	****	****	
13	Mtapu	Un identified	Un identified	Unknown			
14	Muoza	Steculia rhnchcarp	Steculiaceae	Medicinal hedges.		****	
15	Mboya	Thylachium africanum	Capparidaceae	Shrub			
16	Mgole maji	Trichilia emetica	Meliaceae	Unknown		****	
17	Mchofu dume	Monathotaxis formicata	Annonaceae	Medicinal	****		
18	Mchofu mkumbwa,	Un identified	Un identified	Unknown			
19	Mchonjo,	Allophylus parvillei	Unknown	Medicinal.	****		
20	Unknown no 1	Unknown	Unknown	Unknown			
21	Mgwede	Encephalatos hildebrandtii	Cycadaceae	Ornamental tree	****		
22	Mkonge dume	Unknown	Un identified	Construction poles.			
23	Unknown.no 2	Unknown	Unknown	Unknown			
34	Mkunguni	Terminalia boivinii	Comreteceae	Fire wood.	****		
35	Unknown.no 3	Un identified	Un identified	Unknown			
36	Mkururu	Diospyros consolatae	Ebenaceae	Construction poles.	****		
37	Mchofu mke	Mkilua fragnus	Annonaceae	Medicinal.	****		
38	Kifugu	Mystroxyton aethiopicum	Celastraceae	Construction poles.	****		
39	Mtonga	Strychnos madagascariensis	Loganiaceae	Fuelwood, fruits.	****		

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40	Mng'ombe	<i>Ozoroa obovata</i>	Anacardiaceae	Medicinal, fuel wood	****		
41	Mdimu msitu	<i>Seregada zanzibariensis</i>	Euphorbiaceae	Poles, medicinal			
42	Mkaaga	<i>Eugenia capensis</i>	Myrtaceae	Poles .medicinal.			
43	Mjenaba	Un identified	Un identified	Unknown			
44	Mkweche	<i>Euphorbia nyikae</i>	Euphorbiaceae	Poisonous tree, medicinal.	****		
45	Mwavikali	<i>Strychnos angolensis</i>	Loganiaceae	Medicinal.			
46	Mnyevuu	<i>Mimusopsis fruticosa</i>	Sapotaceae	Construction poles.			
47	Muumbuzi dume	<i>Senna petersiana</i>	Caesapinaceae	Medicinal, poles.			
48	Mgo	<i>Flacourtia indica</i>	Flacourtiaceae	Fruits, medicinal.			
49	Mng'ongo	<i>Sclerocarya birrea</i>	Anacardiaceae	Medicinal, fruits .fuel wood.	****		****
50	Mkwamba	<i>Flueggia virosa</i>	Euphorbiaceae	Medicinal, fuel wood.			
51	Mtama goa	<i>Turea floribunda.</i>	Meliaceae	Medicinal, fuel wood.	****		
52	Mvyongozi	<i>Dalbergia vacciniifolia</i>	Papilionaceae	Medicinal.	****		
53	Mkonge	<i>Psychotria bibracteatum</i>	Rubiaceae	Poles, fuel wood.			
54	Muwanga	<i>Carpodiptera africana</i>	Tiliaceae	Tools handles .poles.	****		
55	Msiliza	<i>Euclea schepetii</i>	Ebenaceae	Medicinal, fuel wood.			
56	Mbebeta jike	<i>Dodonea viscosa</i>	Sapindaceae	Medicinal, fuel wood.			
57	Mkuyu mkuu	<i>Ficus sur</i>	Moraceae	Fruits, medicinal.	****		
58	Mkaakaa	<i>Bridelia Cathartica.</i>	Euphorbiaceae	Medicinal, poles.			
59	Mtumbua	<i>Dovyalis macrocalyx</i>	Rubiaceae	Medicinal, fruits.			
60	Muongoti	<i>Drypates natalensis</i>	Icacinaceae	Poles, fuelwood.	****		
61	Mbuu mwaka	<i>Deinbollia borbonica</i>	Sapindaceae	Medicinal.			
62	Muasumini/ Mwafu	<i>Jusminum fluminosa</i>	Oleaceae	Rope for fuelwood bundles.			
63	Mkutikuti	<i>Polypodium scolopendria</i>	Cyatheaceae	Medicinal.			
64	Mchanjavua	<i>Lecaniodiscus fraxinifolias</i>	Sapindaceae	Poles, fuelwood.	****	****	
65	Mnusi mwekundu	<i>Mytenus sp</i>	Un identified	Tree with hooked spines			
56	Mpapai mwitu	<i>Cuissonia aborea</i>	Ariliaceae	Medicinal, fuelwood .	****		
57	Mnunu	<i>Hushudia opposita</i>	Labiatae	Medicinal.	****		
58	Mchopaka	<i>Mystroxydon aethiopicum</i>	Celastraceae	Latex, poles, firewood.	****		
59	Mdakakomba	<i>Toddalia asiatica</i>	Rubiaceae	Medicinal.			
60	Unknown no 4	Unknown	Unknown	Unknown			
61	Mkokwa	Un identified	Un identified	Local rope.			

NO.	Location – Caves Sites		DATE 6/3/2006-10/3/2006				
	Local Name	Scientific name	Family	Uses	Marked at Nature Trail	Marked in btn cave	Marked at reception
62	Mwanga kwao	Bersama abyssinica	Meliaceae	Fuelwood,poles.	****		
63	Mdalasini mwitu	Un identified	Un identified	Unknown			
64	Kuchelasimba	Un identified	Un identified	Semi climber hooked spine			
65	Mtukutu	Vernonia zazibarica	Compositaceae	Medicinal,fuelwood .			
66	Mbibikiu	Syneptolepis kirkii	Euphorbiaceae	Local rope,medicinal.			
67	Mrija	Clerodendrum myricoidis	Verbenaceae	Medicinal.			
68	Mbunduki	Ehretia amoena	Boraginaceae	Fuelwood.			
69	Mlakunguru	Lantana camara	Verbenaceae	Fruits.	****		
70	Mlalangao	Ficus lutea	Moraceae	Shade ,fuelwood,			****
71	Mwaka	Un identified	Un identified	Unknown			
72	Mkatani pori	Un identified	Un identified	Ornamental herb			
73	Unknown no 5	Un identified	Un identified	Unknown			
74	Uknown no. 6	Un identified	Un identified	Unknown			
75	Uknown no 7	Un identified	Un identified	Unknown			
76	Muumbuzi mke	Cassia abbreviata	Caesapinaceae	Fuel wood.	****		
77	Mtongo	Rhucicuiss revoilii		Fuel wood.	****		
78	Mkekundu dume	Un identified	Un identified	Unknown			
79	Mchenza mwitu	Uapaca guineensis	Rutaceae	Medicinal,fuelwood .	****	****	
80	Mlandege	Ficus natalensis	Moraceae	Fuel wood.			
81	Mkuu kilema	Blighia unijugata	Sapindaceae	Poles,fuelwood.	****	****	
82	Muumbu/Mpinga	Lanea schweinfurthii	Anacardiaceae	Fuel wood,fruits for animal.	****	****	
83	Mnamia panga	Un identified	Un identified	Unknown			
84	Mkole	Grewia biorcola	Tiliaceae	Timber,fuelwood.	****	****	
85	Mchembelele	Allophilus rubifolius	Sapindaceae	Fuel wood.	****		
86	Mkungu pori	Un identified	Un identified	Unknown			
87	Mchakati dume	Un identified	Un identified	Unknown			
88	Mrija dume	Un identified	Un identified	Unknown			
89	Mlashore	Tarena pavettoides	Rubiaceae	Fruits used by birds.			
90	Mtambuu	Piper betel	Araceae	Leaves used for tooth brushing.		****	
91	Mchochoni	Discorea sansibariensis	Discoreaceae	Poison climber			
92	Mkekundu jike	Un identified	Un identified	Fuelwood			
93	Mtikiza	Un identified	Un identified	Poles,fuelwood.			
94	Mkaati	Bridelia micrantha	Euphorbiaceae	Poles/timber	****		****
95	Mdafa	Un identified	Un identified	Hadges			