

LIST OF FIGURES

Figure II.1 Infiltration Well.....	12
Figure II.2 Roof Catchment	12
Figure II.3 Rorak.....	13
Figure II.4 Alpha and Beta Rational Symmetries for Orienting	15
Figure II.5 Fastening Process in General	16
Figure III.1 Conceptual Model.....	21
Figure III.2 Systematic Problem Solving.....	24
Figure IV.1 Existing Design of Gama Rain Filter	29
Figure IV.2 The Front and Side View of Gama Rain Filter.....	30
Figure IV.3 The Objective Tree of the Design of Rainwater Harvesting Tools ...	31
Figure IV.4 The Systematics of Rainwater Harvesting Tools	32
Figure IV.5 The Systematics with Sub-Functions	33
Figure IV.6 Concept Design C of Rainwater Harvesting Tools	47
Figure IV.7 APC Diagram of Concept Design	52
Figure IV.8 APC Diagram of Concept Design (Continue).....	53
Figure IV.9 APC Diagram of Concept Design (Continue).....	54
Figure IV.10 APC Diagram of Concept Design (Continue).....	55
Figure IV.11 Sub Assemblies 1	56
Figure IV.12 Sub Assemblies 2	57
Figure IV.13 Sub Assemblies 3	58
Figure IV.14 Sub Assemblies 4	59
Figure IV.15 Proposal Design.....	67
Figure IV.16 APC Diagram of Proposal Design.....	71
Figure IV.17 APC Diagram of Proposal Design (Continue)	72
Figure IV.18 APC Diagram of Proposal Design (Continue)	73
Figure IV.19 APC Diagram of Proposal Design (Continue)	74
Figure IV.20 Sub Assemblies 1	75
Figure IV.21 Sub Assemblies 2	76
Figure IV.22 Sub Assemblies 3	77
Figure IV.23 Sub Assemblies 4	78
Figure V.1 Comparison of Number of Components of Rainwater Harvesting Tools.....	93
Figure V.2 Comparison of Total Assembly Time of Rainwater Harvesting Tools	94
Figure V.3 Comparison of Efficiency Value of Rainwater Harvesting Tools.....	95