UNIVERSITI TEKNOLOGI MARA

A SIMPLE ECONOMICAL ATMOMETER FOR MEASURING EVAPOTRANSPIRATION (ET) IN GREENHOUSE

SYARIFAH NURUL AQILAH BT SYED MOHD DAMIRI

Final year project report submitted in partial fulfilment of the requirement for the degree of **Bachelor of Science (Hons.)** Plantation Technology and Management

Faculty of Plantation and Agrotechnology

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CANDIDATES DECLARATION

I declare that the work in this Final Year project was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledged as referenced work. The Final Year project report has not been submitted to any other academic institution or non-academic institution for any other degree or qualification

In the event that my Final Year Project is found to violate the conditions mention above, I voluntarily waive the right of conferment of my bachelor degree and agree to be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

Name of Candidate		SYARIFAH NURUL AQILAH BT SYED
		MOHD DAMIRI
Candidate's ID	:	2012642474
Programme	:	Bachelor of Science (Hons.) Plantation Technology and Management
Faculty	:	Plantation and Agrotechnology
Title		A Simple Economical Atmometer For Measuring Evapotranspiration (Et) In Greenhouse
Signature of Candidate	:	
Date	;	January 2015

ABSTRACT

This study aims to test the performance of simple economical atmometer, by watering the plant based on it, either it will give different result in term of yield, height of plant, number of leaves and fruiting time or there are no changes at all. This experiment was carried out for 50 days in medium technology greenhouse in UiTM Jasin, Melaka with the average temperature was 28° C to 32° C, average wind speed was 2km/h to 6km/h and the relative humidity was about 45% to 95% of saturation humidity. In this experiment, ET was measured using the simple economical atmometer and the chilli plant was irrigate based on it. This study also want to showed if there any significant different between the parameters. The result showed good performance of atmometer, also stated that there are no significant different in term of yield, height and number of leaves but there are significant different in term of fruiting time. On the other hand, in term of correlation, the result showed there was positive relationship and the yield can be estimated using the formula y = mx + c that obtain from the regression.

TABLE OF CONTENT

ABSTRAKivACKNOWLEDGEMENTvTABLE OF CONTENTviLIST OF TABLEviiiLIST OF TABLEviiiLIST OF FABLEviiiLIST OF FABLEviiiLIST OF FABLEviiiLIST OF ABBREVIATIONixCHAPTER ONE INTRODUCTION11.1Background of the Study11.2Problem Statement41.3Objective of the Study41.4Significance of the Study41.4Significance of the Study72.2Atmometer52.2.1Previous Study72.2.2Previous Study72.3.1Evaporation92.3.2Transpiration92.3.3I Evaporation92.4.1Low technology greenhouse102.4.2Medium technology greenhouse112.4.3High technology greenhouse112.4.3High technology greenhouse113.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT194.1Atmometer performance evaluation194.2Atmometer offormance evaluation194.2Atmometer offormance r – Bottle <td< th=""><th>ABS</th><th>STRACT</th><th>iii</th></td<>	ABS	STRACT	iii
ACKNOWLEDGEMENT v TABLE OF CONTENT vi LIST OF FABLE viii LIST OF FIGURES ix LIST OF FIGURES ix CHAPTER ONE INTRODUCTION 1 1.1 Background of the Study 1 1.2 Problem Statement 4 1.3 Objective of the Study 4 1.4 Significance of the Study 4 1.4 Significance of the Study 4 2.1 Simple and Economical 5 2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evapotranspiration 9 2.3.2 Transpiration 9 2.4.3 High technology greenhouse 10 2.4.1 Low technology greenhouse 10 2.4.2 Medium technology greenhouse 11 2.4.3 High technology greenhouse 11 2.4.1 Low technology greenhouse 11 2.4.2 Medium technology greenhouse 11	ABS	STRAK	iv
TABLE OF CONTENT vi LIST OF TABLE viii LIST OF FIGURES ix LIST OF ABBREVIATION ix CHAPTER ONE INTRODUCTION 1 1.1 Background of the Study 1 1.2 Problem Statement 4 1.3 Objective of the Study 4 1.4 Significance of the Study 4 CHAPTER TWO LITERATURE REVIEW 5 2.1 Simple and Economical 5 2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evaportanspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.4.1 Low technology greenhouse 10 2.4.1 Low technology greenhouse 11 CHAPTER THREE METHODOLOGY 12 3.3 3.1 Location of the study 12 3.2 Preparation of Simple Economical Atmometer. 13 3.3.1 Chilli plant 15 3.3.2 Polybag. 15 3.3.3	ACK	KNOWLEDGEMENT	v
LIST OF TABLEviiiLIST OF FIGURESixLIST OF ABBREVIATIONixCHAPTER ONE INTRODUCTION11.1Background of the Study11.2Problem Statement41.3Objective of the Study41.4Significance of the Study41.4Significance of the Study42.1Simple and Economical52.2.1Previous Study72.2.2Previous Study72.2.1Previous Study72.2.2Previous Study92.3.1Evaportanspiration992.3.2Transpiration992.3.4Creenhouse102.4.4Greenhouse102.4.2Medium technology greenhouse112.4.3High technology greenhouse112.4.3High technology greenhouse113.3.1Chilli plant153.3.2Preparation of Simple Economical Atmometer.133.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atnometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation194.2.1Component detail204.2.1Component detail204.2.1C	TAB	BLE OF CONTENT	vi
LIST OF FIGURESixLIST OF ABBREVIATIONixCHAPTER ONE INTRODUCTION11.1Background of the Study11.2Problem Statement41.3Objective of the Study41.4Significance of the Study41.4Significance of the Study4CHAPTER TWO LITERATURE REVIEW52.1Simple and Economical52.2Atmometer52.2.1Previous Study72.2.2Previous Study Summary82.3Evapotranspiration92.3.1Evapotranspiration92.3.2Transpiration92.4.1Low technology greenhouse102.4.2Medium technology greenhouse112.4.3High technology greenhouse112.4.3High technology greenhouse113.2.1Picture step of atmometer preparation143.3Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT194.1Atmometer performance evaluation194.2.1Component detail204.2.1Component of atmometer –	LIST	T OF TABLE	viii
LIST OF ABBREVIATION ix CHAPTER ONE INTRODUCTION 1 1.1 Background of the Study 1 1.2 Problem Statement 4 1.3 Objective of the Study 4 1.4 Significance of the Study 4 1.4 Significance of the Study 4 CHAPTER TWO LITERATURE REVIEW 5 2.1 Simple and Economical 5 2.2.1 Previous Study 7 2.2.2 Previous Study 7 2.3.1 Evapotranspiration 9 2.3.2 Transpiration 9 2.4.3 Terenhouse 10 2.4.1 Low technology greenhouse 10 2.4.2 Medium technology greenhouse 11 2.4.3 High technology greenhouse 11 2.4.3 High technology greenhouse 11 3.1 Location of the study 12 3.2 Preparation of Simple Economical Atmometer. 13 3.2.1 Picture step of atmometer preparation 14 3.3 Preparation of Chilli 15 <th>LIST</th> <th>T OF FIGURES</th> <th>ix</th>	LIST	T OF FIGURES	ix
CHAPTER ONE INTRODUCTION11.1Background of the Study11.2Problem Statement41.3Objective of the Study41.4Significance of the Study41.4Significance of the Study4CHAPTER TWO LITERATURE REVIEW52.1Simple and Economical2.2Atmometer52.1.1Previous Study72.2.2Previous Study Summary82.3Evapotranspiration92.3.1Evaporation92.3.2Transpiration92.4.3Transpiration92.4.4Greenhouse102.4.2Medium technology greenhouse112.4.3High technology greenhouse112.4.3High technology greenhouse113.1Location of the study123.2Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT194.1Atmometer performance evaluation194.2Atmometer omponent detail20 <t< th=""><th>LIST</th><th>T OF ABBREVIATION</th><th>ix</th></t<>	LIST	T OF ABBREVIATION	ix
1.1 Background of the Study 1 1.2 Problem Statement 4 1.3 Objective of the Study 4 1.4 Significance of the Study 4 CHAPTER TWO LITERATURE REVIEW 5 2.1 Simple and Economical 5 2.2 Atmometer 5 2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.4.1 Low technology greenhouse 10 2.4.3 High technology greenhouse 11 2.4.3 High technology greenhouse 11 2.4.3 High technology greenhouse 11 3.1 Location of the study 12 3.2 Preparation of Simple Economical Atmometer. 13 3.2.1 Picture step of atmometer preparation 14 3.3 Preparation of Plant 15 3.3.1 Chilli plant 15 3.3.2 Polybag. 15	CHA	APTER ONE INTRODUCTION	1
1.2 Problem Statement 4 1.3 Objective of the Study 4 1.4 Significance of the Study 4 1.4 Significance of the Study 4 CHAPTER TWO LITERATURE REVIEW 5 2.1 Simple and Economical 5 2.1 Simple and Economical 5 2.2 Atmometer 5 2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.3.2 Transpiration 9 2.4.1 Low technology greenhouse 10 2.4.2 Medium technology greenhouse 11 2.4.3 High technology greenhouse 11 2.4.3 High technology greenhouse 11 2.4 Medium technology greenhouse 12 3.1 Location of Simple Economical Atmometer. 13 3.2.1 Picture step of atmometer preparation 14 3.3 Preparation of	1.1	Background of the Study	1
1.3 Objective of the Study 4 1.4 Significance of the Study 4 CHAPTER TWO LITERATURE REVIEW 5 2.1 Simple and Economical 5 2.1 Simple and Economical 5 2.2 Atmometer 5 2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.3.2 Transpiration 9 2.4.1 Low technology greenhouse 10 2.4.2 Medium technology greenhouse 11 2.4.3 High technology greenhouse 12 3.1 Location of the study 12 3.2 Preparation of Simple Economi	1.2	Problem Statement	4
1.4 Significance of the Study 4 CHAPTER TWO LITERATURE REVIEW 5 2.1 Simple and Economical 5 2.2 Atmometer 5 2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.4.3 Greenhouse 10 2.4.4 Low technology greenhouse 10 2.4.2 Medium technology greenhouse 11 2.4.3 High technology greenhouse 11 3.2 Preparation of Simple Economical Atmometer. 13 3.2.1 Picture step of atmometer preparation 14 3.3 Preparation of Plant 15 3.3.1 Chilli plant 15 3.3.3 Medium of chill	1.3	Objective of the Study	4
CHAPTER TWO LITERATURE REVIEW52.1Simple and Economical52.2Atmometer52.2.1Previous Study72.2.2Previous Study Summary82.3Evapotranspiration92.3.1Evaporation92.3.2Transpiration92.4.3Greenhouse102.4.4Medium technology greenhouse112.4.3High technology greenhouse112.4.3Ji Location of the study123.1Location of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT19 <t< td=""><td>1.4</td><td>Significance of the Study</td><td>4</td></t<>	1.4	Significance of the Study	4
2.1 Simple and Economical 5 2.2 Atmometer 5 2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.3.4 Greenhouse 10 2.4.1 Low technology greenhouse 10 2.4.2 Medium technology greenhouse 11 2.4.3 High technology greenhouse 11 2.4.4 High technology greenhouse 11 2.4.3 High technology greenhouse 12 3.1 Location of the study 12 3.2 Preparation of Simple Economical Atmometer. 13 3.2.1 Picture step of atmometer preparation 14 3.3 Medium of chilli 15 3.3.1	CHA	APTER TWO LITERATURE REVIEW	5
2.2 Atmometer 5 2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.3.4 Greenhouse 10 2.4.7 Greenhouse 10 2.4.8 Medium technology greenhouse 11 2.4.3 High technology greenhouse 11 2.4.3 Preparation of Simple Economical Atmometer. 13 3.1 Location of Plant 15 3.3.1 Chilli plant 15 3.3.3 Medium of c	2.1	Simple and Economical	5
2.2.1 Previous Study 7 2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.3.4 Greenhouse 10 2.4.7 Greenhouse 10 2.4.8 Medium technology greenhouse 11 2.4.3 High technology greenhouse 12 3.1 Location of the study 12 3.2 Preparation of Simple Economical Atmometer. 13 3.2.1 Picture step of atmometer preparation 14 3.3.1 Chilli plant 15 3.3.2 Polybag. 15 3.3.3	2.2	Atmometer	5
2.2.2 Previous Study Summary 8 2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.3.4 Greenhouse 10 2.4.7 Greenhouse 10 2.4.8 Medium technology greenhouse 11 2.4.3 High technology greenhouse 12 3.1 Location of the study 12 3.2 Preparation of Simple Economical Atmometer. 13 3.2 Preparation of Plant 15 3.3.1 Chilli plant 15 3.3.3 Medium of chilli 16 3.4		2.2.1 Previous Study	7
2.3 Evapotranspiration 9 2.3.1 Evaporation 9 2.3.2 Transpiration 9 2.4 Greenhouse 10 2.4.1 Low technology greenhouse 10 2.4.2 Medium technology greenhouse 11 2.4.3 High technology greenhouse 12 3.1 Location of the study 12 3.2 Preparation of Simple Economical Atmometer. 13 3.2.1 Picture step of atmometer preparation 14 3.3 Preparation of chilli 15 3.3.1 Chilli plant 15 3.3.3 Medium of chilli 16		2.2.2 Previous Study Summary	8
2.3.1Evaporation92.3.2Transpiration92.4Greenhouse102.4.1Low technology greenhouse102.4.2Medium technology greenhouse112.4.3High technology greenhouse11CHAPTER THREE METHODOLOGY123.1Location of the study123.2Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT194.1Atmometer performance evaluation194.2.1Component detail204.2.1Component of atmometer – Bottle20	2.3	Evapotranspiration	9
2.3.2Transpiration92.4Greenhouse102.4.1Low technology greenhouse102.4.2Medium technology greenhouse112.4.3High technology greenhouse11CHAPTER THREE METHODOLOGY3.1Location of the study123.2Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation194.2.1Component detail204.2.1Component of atmometer – Bottle20		2.3.1 Evaporation	9
2.4Greenhouse102.4.1Low technology greenhouse112.4.2Medium technology greenhouse112.4.3High technology greenhouse11CHAPTER THREE METHODOLOGY3.1Location of the study123.2Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer component detail204.2.1Component of atmometer – Bottle20		2.3.2 Transpiration	9
2.4.1Low technology greenhouse102.4.2Medium technology greenhouse112.4.3High technology greenhouse11CHAPTER THREE METHODOLOGY3.1Location of the study123.2Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer component detail204.2.1Component of atmometer – Bottle20	2.4	Greenhouse	10
2.4.2 Medium technology greenhouse 11 2.4.3 High technology greenhouse 11 CHAPTER THREE METHODOLOGY 12 3.1 Location of the study 12 3.2 Preparation of Simple Economical Atmometer. 13 3.2.1 Picture step of atmometer preparation 14 3.3 Preparation of Plant 15 3.3.1 Chilli plant 15 3.3.2 Polybag. 15 3.3.3 Medium of chilli 16 3.4 Experimental Setup 16 3.5 Measuring the Atmometer Water Level 16 3.6 Research Framework 17 3.7 Analysis of data 18 CHAPTER FOUR RESULT 19 4.1 Atmometer performance evaluation 19 4.2 Atmometer component detail 20 4.2.1 Component of atmometer – Bottle 20		2.4.1 Low technology greenhouse	10
2.4.3 High technology greenhouse11CHAPTER THREE METHODOLOGY123.1 Location of the study123.2 Preparation of Simple Economical Atmometer.133.2.1 Picture step of atmometer preparation143.3 Preparation of Plant153.3.1 Chilli plant153.3.2 Polybag.153.3.3 Medium of chilli163.4 Experimental Setup163.5 Measuring the Atmometer Water Level163.6 Research Framework173.7 Analysis of data18CHAPTER FOUR RESULT194.1 Atmometer performance evaluation194.2 Atmometer component detail204.2.1 Component of atmometer – Bottle20		2.4.2 Medium technology greenhouse	11
CHAPTER THREE METHODOLOGY123.1Location of the study123.2Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation194.2Atmometer component detail204.2.1Component of atmometer – Bottle20		2.4.3 High technology greenhouse	11
3.1Location of the study123.2Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation194.2Atmometer component detail204.2.1Component of atmometer – Bottle20	CHA	APTER THREE METHODOLOGY	12
3.2Preparation of Simple Economical Atmometer.133.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation194.2Atmometer component detail204.2.1Component of atmometer – Bottle20	3.1	Location of the study	12
3.2.1Picture step of atmometer preparation143.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation4.2Atmometer component detail204.2.1Component of atmometer – Bottle20	3.2	Preparation of Simple Economical Atmometer.	13
3.3Preparation of Plant153.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation4.2Atmometer component detail204.2.1Component of atmometer – Bottle20		3.2.1 Picture step of atmometer preparation	14
3.3.1Chilli plant153.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation4.2Atmometer component detail204.2.1Component of atmometer – Bottle20	3.3	Preparation of Plant	15
3.3.2Polybag.153.3.3Medium of chilli163.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation4.2Atmometer component detail204.2.1Component of atmometer – Bottle20		3.3.1 Chilli plant	15
3.3.3 Medium of chilli163.4 Experimental Setup163.5 Measuring the Atmometer Water Level163.6 Research Framework173.7 Analysis of data18CHAPTER FOUR RESULT4.1 Atmometer performance evaluation4.2 Atmometer component detail204.2.1 Component of atmometer – Bottle20		3.3.2 Polybag.	15
3.4Experimental Setup163.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation4.2Atmometer component detail204.2.1Component of atmometer – Bottle20		3.3.3 Medium of chilli	16
3.5Measuring the Atmometer Water Level163.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation4.2Atmometer component detail204.2.1Component of atmometer – Bottle20	3.4	Experimental Setup	16
3.6Research Framework173.7Analysis of data18CHAPTER FOUR RESULT4.1Atmometer performance evaluation4.2Atmometer component detail204.2.1Component of atmometer – Bottle20	3.5	Measuring the Atmometer Water Level	16
3.7Analysis of data18CHAPTER FOUR RESULT194.1Atmometer performance evaluation194.2Atmometer component detail204.2.1Component of atmometer – Bottle20	3.6	Research Framework	17
CHAPTER FOUR RESULT194.1Atmometer performance evaluation194.2Atmometer component detail204.2.1Component of atmometer – Bottle20	3.7	Analysis of data	18
4.1Atmometer performance evaluation194.2Atmometer component detail204.2.1Component of atmometer – Bottle20	CHA	APTER FOUR RESULT	19
4.2Atmometer component detail204.2.1Component of atmometer – Bottle20	4.1	Atmometer performance evaluation	19
4.2.1 Component of atmometer – Bottle 20	4.2	Atmometer component detail	20
-		4.2.1 Component of atmometer – Bottle	20

LIST OF TABLE

Table 4.1	Table of atmometer performance	22
Table 4.2	Mean of yield of chilli	23
Table 4.3	Mean of height of plant	25
Table 4.4	Mean of number of leaves	26
Table 4.5	Mean of fruiting time	28
Table 4.6	Table on pearson correlation analysis data	30
Table 4.7	Table on pearson correlation analysis data	31