

FOR OFFICIAL USE ONLY

GUIDELINES FOR THESIS PRESENTATION



2021

Dr.Y.S.R. HORTICULTURAL UNIVERSITY

Venkataramannagudem, West Godavari Dist. – 534 101
Andhra Pradesh

TABLE OF CONTENTS

S.No.	Contents	Page No.
1.	General	1-2
2.	Parts and Arrangement	2-3
3.	Cover	3
4.	Typographical Details	4-5
5.	Writing of Thesis	5-6
6.	Preliminary Pages	6-12
7.	Appendix A: Cover Title	13
8.	Appendix B: Title Page – Spine Portion	14-15
9.	Appendix C , D & E : Certificates	16-18
10.	Appendix F: Contents	19
11.	Appendix G & H: Declaration	20-21
12.	Appendix I: Titles	22
13.	Appendix J: Literature cited	23-24
14.	Appendix K: Digital form (CD / DVD)	25-27
15.	Appendix L: Format of Abstract	28
16.	Appendix M: Symbols and Abbreviations	29-31

GUIDELINES FOR THESIS PRESENTATION

Research work carried out during the course of study is one of the most important achievements of a post-graduate student, which is documented and submitted in the form of a thesis to the University. The thesis is a scientific document and an important asset not only for the students but also for the academicians. As a whole, the thesis is referred by large number of people involved in teaching, research, extension and developmental activities. The research carried out under PG programme is generally of high standard and many breakthrough technologies come through such efforts. Therefore, it is necessary that the students and the advisory committees make efficient efforts not only to bring-out quality research work but also to present the thesis in a form which is nationally and internationally acceptable.

In this regard, there should be uniformity in the preparation of thesis across different faculties of the University. Therefore, following guidelines have been developed by the university to help the students and the advisory committees to prepare and submit quality thesis.

1. GENERAL

These guidelines deal with the presentation of a thesis and other similar related documents which fall within the definition of the term '**Thesis**'.

1.1 Definition: For the purpose of these guidelines a thesis or a dissertation is a statement of investigation or research presenting the author's findings and any conclusions reached, submitted by the author in support of his /her candidature for award of a higher degree.

- a) **Ph.D. thesis** must demonstrate the student's originality and ability for independent investigation, and the results of research must constitute a contribution to knowledge. The thesis must exhibit the mastery of the literature on the subject and familiarity with its sources.
- b) **M.Sc. thesis** must demonstrate student's familiarity with the methodology and tools for conduct of research in their major field and ability to present the results of the investigation precisely.

1.2 Copyright: The University shall have the right to make available or to allow the thesis to be copied in whole or in part without any reference to the author for study and reference purposes subject to normal conditions of acknowledgement. In all the other cases, the copy right rests with the author.

- 1.3 Publication of Thesis:** Whenever any material from the thesis is published, a foot note shall always be given reflecting that the thesis has been submitted for the Post-Graduate Degree of Dr.YSR Horticultural University.
- 1.4 Submission of Thesis:** First the thesis shall be submitted in a paper-bound form (with Golden Yellow Colour cover page). After successful completion of *viva voce*, the thesis shall be submitted in hard bound form (Chocolate brown Colour cover page) with embossing letters in Golden Yellow Colour along with the University emblem as per the Guidelines. No other colour is acceptable.
- 1.5 Number of Copies:** Hard bound thesis shall be submitted in quadruplicate (four copies) along with C.D's prepared in line with the instructions as mentioned in appendix K, of which one each shall be for University Library, Campus Library, Department Library and Major Advisor.

2. PARTS AND ARRANGEMENT

The thesis should normally consist of various sections viz., (1) Preliminaries (2) Text and (3) End Matter. The names of these parts are only to facilitate the arrangement of various sections and they are not to be indicated as headings. The sections falling under each of these parts are arranged in the thesis as per the following sequence.

2.1 Preliminaries

Cover Page
Title page
Declaration
Certificates
Acknowledgements
Table of contents
List of tables
List of plates
List of illustrations
List of symbols and abbreviations
Abstract

2.2 Text

Introduction
Review of literature
Material and Methods
Results and Discussion
Summary and Conclusions

2.3 End Matter

Literature cited
Appendices

3. COVER

3.1 Binding: The thesis shall be fully rexin bound with sufficient rigidity to support the weight when placed on the shelf, in the colour as specified at 1.4. The leaves of the thesis should be permanently secured to the cover, by sewing, in such a way that the leaves can be turned easily and the text clearly read up to the extreme left margin. All material like maps, photos etc., should be the size of the typed matter.

3.2 Cover Title: The out side front board should bear the title of the thesis in 18 point type in Times New Roman Font.

- The title shall be in upper case with bold letters except scientific names.
- The scientific names shall be in italics with first alphabet of genus in upper case (Capitals).
- The title shall spell out acronyms, abbreviations and symbols.
- The initial and name (16 point type bold) of the candidate (as registered at the time of admission to the PG Degree) with highest qualification (14 point type bold), the Degree (18 point type in bold) and discipline (14 type bold) for which the thesis is submitted.
- The University emblem (4 cm diameter).
- Name of the Department (14 Point), College and University in 12 point.
- The month and year (20 point type in bold) of submission shall be given as depicted in **appendix A**. The Outer jacket should be covered tightly with a transparent plastic sheet.

3.3 Spine Title: The spine of thesis shall bear in (11 point type), title of the thesis (11 point) initial and name (11 point), degree(13 point) at the top and the year of submission (13 point) at the bottom of the spine. The printing on the spine is towards the length side when the volume is lying flat.

4. PAPER, TYPOGRAPHICAL DETAILS AND MECHANICAL CONVENTIONS

- 4.1 Paper:** White **bond** paper of **A4 size** (215 x 273 mm) should be used.
- 4.2 Typing:** Typed characters shall not be less than 13 point with Times New Roman Font. However subscript, superscript and the figures in tables can be reduced in size but not less than 8 point in Times New Roman Font. Copies produced by Xerox or Comparably permanent process are acceptable. One side of the paper shall be used for printing and typing.
- 4.3 Margins:** The left side margins shall be of 4 cm wide and the top, bottom and right side shall be 2 cm wide.
- 4.4 Spacing:** A spacing of 1.5 lines shall be used in type script except for quotations of footnotes where single line spacing can be used. Spacing in Abstract should be in single line space.
- 4.5 Pagination**
- 4.5.1 Preliminary pages:** These are numbered with lower case Roman numerals i.e., i, ii, iii, iv, v, vi, etc, and positioned at the centre in the bottom of the page.
- 4.5.2 Text:** The text pages shall be numbered with Indo Arabic numerals consecutively through out the thesis including the Appendices, Photographs, Diagrams, etc, and positioned at the upper right corner of the page.
- 4.5.3 Position of Page Numbers:** Page numbers shall be located at the right upper corner of the page approximately 2 cm from the right edge.
- 4.6 Chapter Heading (First level heading):** Every chapter in the body of the manuscript shall begin with new page and should be numbered with Roman numerals. The chapter heading shall be placed in capitals. It should be 14 point in the Times New Roman Font.
- 4.7 Chapter Title:** The chapter shall have title in the centre of the page (in Times New Roman Font) and must be at 1.5 space below the chapter head, capitalized throughout with 18 point size.
- 4.8 Paragraphs:** The text should begin with two 1.5 spaces below the chapter title. A paragraph default indentation of 1.27 cm shall be used at the beginning of paragraph. In paragraph menu, indent and spacing settings should be fixed as 6 pt. each for 'before' and 'after', without choosing 'don't add space between paragraphs' option. Alignment should be justified. No page should end with the beginning of a paragraph.

- 4.9 Sub-heading within chapters:** Theoretically any number of sub-heading levels are possible but in practice more than three levels are confusing. All sub headings and numbers will be left alignment.
- 4.9.1. Centre Heading (Second level heading):** This being the first sub-heading shall be in capitals bold and placed at 1.5 space below the last line of the previous section, with 16 point Times New Roman Font. The text following this heading should appear in regular paragraph form. The heading preceded by the number shall be typed with left alignment.
- 4.10 Numbering of Divisions:** The structural elements (Headings) shall be numbered as 1,2,3 and subdivided as 1.1, 1.2, 2.1, 2.2, etc. Further subdivisions shall be made as 1.1.1, 1.2.1, etc., Only Arabic numerals are used. A full stop is placed between numbers designating subdivisions of different levels. At the end no full stop is required.
- 4.11 Mechanical Conventions:** The conventions listed in the CBE Style Manual (1972) should be followed for punctuations, full stop, ellipsis, comma, semicolon, colon, question mark, numbering, illustrations, diagrams etc.
- 4.12 Decoration:** No ornamentation or bordering of the sides shall be permitted.

5. WRITING OF THESIS

- 5.1 Style of Writing:** The thesis should be written in the past tense, passive voice and in the third person. The guidelines given by the C B E Style Manual should be followed. For general English purpose Webster's Third New International Dictionary should be used.
- 5.2 Transliteration:** When quotations, author's names, and titles of works have originally appeared in a Non-Roman alphabet, the information should be transliterated into Roman alphabet for use within the text.
- 5.3 Illustrations:** Illustrations should immediately follow the textual reference on the following page. They shall be numbered chapter wise in Arabic Numerals for example the second figure in chapter 2 shall bear the number as figure 2.2. The caption shall be placed at the bottom of the figures with the initial letter in capital and shall maintain 1.5 space closed by a full stop.
- 5.4 Photographs:** Art paper should be used for printing of photographs (Photographs shall not be pasted directly). No extra designs or non-scientific backgrounds shall be used.
- 5.5 Tables:** Tables shall be placed on a separate page. A table running longer than one page may be continued on two or more pages by indicating the continuations e.g. Table 2 cont. The table shall be numbered chapter wise with Arabic

numerals. The table number should end with a full stop without any other punctuations both in the text and table title. The title shall be placed above the table following 1.5 space separately for the table and title. In the table, the decimal should be uniform up to 2 digits for all the values. The first letter of the title is capitalized and single spaced, in sentence form. A table is closed with a horizontal line and footnote if any pertaining to the table be placed below the line in single space.

5.6 Citations: In citing works in the text, the following system (author, year) shall be followed.

Basappa (1990)
Bose and Yadav (2002)
Chattopadhyay *et al.* (2006)

For the citation of institutional publication such as Annual Report, Committee Report etc. The organization is treated as the author.

6. PRELIMINARY PAGES

6.1 Title page: The title page is the first page of the thesis and it should consist of the following statements, as depicted in appendix B.

Title : Times New Roman Font Bold **with 18 point**

Author name : Times New Roman Font Bold **with 16 point**

Author's qualification : Times New Roman Font Bold **with 14 point**

Submission Statement : Times New Roman Font Bold **with 14 point**

Degree : Times New Roman Font Bold **with 16 point**

Discipline (in bracket) : Times New Roman Font Bold **with 14 point**

Emblem : 4.0 **cm** diameter

Imprint (Department name): Times New Roman Font Bold with **14 point**

College name and place with pin code: Times New Roman Font Bold with **12 point**

University name: Times New Roman Font Bold with **12 point**

Month and Year of Submission: **18 point**

6.1.1 Title: The title of the thesis should be self explanatory and should give an idea as to the content of the thesis. It shall be placed near the top of the page in bold capital letters. If the title exceeds one line, an inverted pyramid format shall be followed with out splitting the words in each line (Appendix A and B) with a spacing of 1.5 cm.

- 6.1.2 Name of the Author:** The name of the Author with bold in capital should follow the title in the upper half of the page preceded by the word 'BY' centred in a separate line. The name of the author (as registered at the time of P.G Admission) shall be given followed by highest academic qualification.
- 6.1.3 Submission Statement:** The submission statement indicates that it is the thesis submitted to the University in partial fulfilment of the requirement for the award of the degree of Master of Science in Horticulture/Doctor of Philosophy in Horticulture followed by department in brackets
- 6.1.4 Imprint:** It should follow the emblem and consists of name of the department and the college where the candidate is studying followed by the month and year of submission. No full stop should be used at the end of the any statement.
- 6.2 Certificates of Approval:** The certificates of approval, one by the chairman of the Advisory Committee (Appendix C) and the other by the Advisory Committee. (Appendix D for M.Sc. and Appendix E for Ph.D.).
- 6.3 List of contents:** The title of the chapters (viz., Introduction, Review of Literature etc.,) followed by literature cited and appendices along with page numbers shall be listed in sequence as depicted in appendix F.
- 6.4 List of tables:** The list of tables with page numbers shall be given in the order in which they occur in the text. The titles of the tables shall be given exactly as they appear in the text.
- 6.5 List of illustrations:** The list of Illustrations such as maps, diagrams, graphs and statements or depictions with page numbers shall be given in the order in which they occur in the text.
- 6.6 List of plates:** The list of plates (Photographs) shall be given in the order in which they occur in the text. The title of plates shall be given exactly as they appear in the text.
- 6.7 Acknowledgements:** Acknowledgements if any shall be a brief note of appreciation for Technical and Financial (Institutions) assistance received by the candidate in his or her research work and preparation of thesis from organisations and individuals. It shall not exceed two pages without any nick names and dedications.
- 6.8 Declaration:** The author shall indicate in a declaration any material contained in the thesis which he / she has used or published before as depicted in appendix G for M.Sc. and appendix H for Ph.D.

6.9 Abbreviations: Only standard abbreviations followed nationally and internationally should be used in the thesis. If abbreviations are many and repetitive nature, a list of abbreviations in the beginning of the thesis should be included in the preliminary pages. For abbreviating scientific journals, the abbreviations as provided in the “World List of Scientific Periodicals” only should be used. If the standard abbreviations are not available in the World List of Scientific periodicals, the pattern followed in any scientific journal may be used (as given in appendix M).

6.10 Abstract: The title should be in capital letters in Times New Roman Font with 18 point, it should be crisp and should summarise the content of the thesis / essence of investigation with single space not exceeding two pages. It shall be preceded by name of the author, title, degree for which it is submitted to the University (as given in appendix L).

7. TEXT

The text of the thesis shall be divided normally into Five Chapters viz., (1) Introduction (2) Review of Literature (3) Material and Methods (4) Results and Discussion and (5) Summary and conclusions.

7.1 Introduction: The title shall be in capital letters in Times New Roman Font with 18 point and bold as depicted in appendix I with chapter I (14 point and bold). The introduction should give briefly the lacunae in the subject and the gaps the thesis attempts to fill up. The background and purpose of the investigation should be indicated. The objectives of the investigation should be clearly mentioned with specific objectives.

7.2 Review of Literature: It shall be written as chapter II (in Times New Roman Font with 14 point and bold) followed by review of literature (18 point and bold). The review of literature should provide background information to aid the investigator in analysing and formulating the thesis work. The reviews shall be up to date, critically examined with reference to their objective of investigation. It shall be a published work. The sources of information are cited by following the author and year system as given in 5.6. The arrangement of reviews shall be from the oldest to latest under any sub-head.

7.3 Material and Methods: The title shall be in capital letters in Times New Roman Font with 18 point and it shall start as chapter III (14 point bold) as depicted in appendix I. This chapter should present the techniques, Material and methods adopted for conducting the investigations and experiments. The standard statistical tools shall be adopted and the details incorporated for analysing the data. The names of the Insecticides, Fungicides, Plant Growth Substances,

Chemicals and Biofertilizers shall begin with capital letters in the beginning of the sentence and thereafter lower cap only. Trade names however are to be indicated with Capital letter (First Letter) either at the beginning of sentence or anywhere in the text.

- 7.4 Results and Discussion:** It shall be written as chapter IV (in Times New Roman Font with 14 point and bold) followed by results and discussion in capital letters (in Times New Roman Font with 18 point and bold) as depicted in appendix I. The presentation of results shall be based on the experimental data recorded and subjected to standard and appropriate statistical analysis. The analysed data shall be interpreted convincingly. The data tables and other illustrations shall be different from each other to be interpreted and discussed in relation to the reported findings establishing cause – effect relationships. The discussion shall magnify the un-expected results (Positive and Negative) shall foresee the possible effect critically. The findings are also variously referred to as generalization, implications, inference, interpretations and recommendations for further suggested research if any. For typing titles of tables, plates and figures the examples given below shall be followed.

Table 4.1 Plant height as influenced by growth regulators.

The same method shall be followed for plates and figures also.

- 7.5 Summary and Conclusions:** It shall be written as chapter V (in Times New Roman Font 14 point and bold) followed by summary and conclusion in capital letters (in Times New Roman Font 18 point and bold) as depicted in appendix I. A brief report of the work carried out shall form the first part of this chapter. Conclusions derived from logical analysis presented in the results and discussion chapter shall be clearly spelt out. Scope for continuing the work further with suggested modifications if any shall be stated lucidly in the last part of the chapter.

8. LITERATURE CITED

The title shall be in Times New Roman Font with capital letters in 18 point bold as depicted in appendix I. Literature cited shall contain complete reference list, citing all the Literature and other sources referred in the thesis and appendices including websites arrayed by the name of the author in alphabetical order as given in the appendix J.

Individual reference entries shall not be split over two pages. Format and placement of reference citations shall be, consistent throughout the thesis. The commonality of presenting citations of different formats as indicated below shall

be followed. In case of institutional publication the name of the institution or organization shall be treated as author. No entry shall appear as anonymous publication.

The main parts of a complete entry for a book are: (i) Name (s) of author (s), (ii) year of publication, (iii) Title of book in Italics (iv) Name and city of publishers (v) Pages referred to in the book. An example is:

Kumar, N. 2010. *Introduction to Horticulture*. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi. 139-90.

Kaloo, G. and Kirti Singh. 2001. *Emerging Scenario in Vegetable Research and Development*. Research periodicals and book publishing House, Texas USA. 148-66.

Farooqui, A.A. and Sreeramulu, B.S. 2010. *Medicinal and aromatic crops*. Universities Press (India) Pvt. Ltd., Hyderabad. 152-56.

Sometimes books have contributions by a group of people each author contributing one chapter or essay. (i) Name (s) of author(s), (ii) Year of Publication, (iii) Title of the chapter, (iv) Author(s) of the book, (v) Title of book in italics, (vi) Name and city of Publishers, (vii) Pages referred to in the book. In such case it should be cited as:

Biswas, B 1999. Anthurium. In: T.K. Bose, R.G. Maithi, R.S. Dhua and P. Das (eds.) *Floriculture and Landscaping*, Naya Prakash, Calcutta, 538-46.

In case of a chapter in a proceeding:

Karthiresan, C. and Venkatesha, J. 2002. Effect of biofertilizers with levels of N and P on gladiolus. Floriculture research trends in India. *Proceedings of National Symposium on Indian Floriculture in the New millennium*. Lalbagh, Bangalore 118-21.

Bhargava, B.S. and Singh, H.P. 1990. Potassium and the quality of tropical and subtropical fruit crops. *Proceedings of group discussion held at IARI, New Delhi, December 2, 1989*. Potash and Phosphate Institute of Canada. 22-31.

The main parts of entry for an article in a periodical are: (i) Name (s) of author (s), (ii) Year of Publication, (iii) Title of article, (iv) Name of Journal in italics with volume number and pages in the article. This should be cited as:

Gracia, M. and Charbaji, T. 1989. Effect of sodium chloride in the medium on the mineral composition of the grapevines. *Agrochemica*. 33: 412-23.

Chacko, E.K, Kohili, R.R, and Randhawa, G.S. 1974. Investigation on the use of 2, Chloro ethyl Phosphonic acid (Ethephan, CEPA) for the control of biennial bearing in Mango. *Scientia Horticulture*. 2: 389-98.

Some journals / periodicals will have issue number in addition to volume number. In such cases the issue number shall be indicated in parenthesis after the volume number as show below.

Archana, B, Patil, A.A, Ravi, H and Patil, V.S. 2008. Studies on genetic variability analysis in gladiolus hybrids. *Journal of Ornamental Horticulture*. 11 (2): 121-26.

Agrawal, S. and Dikshit, S.N. 2010. Studies on effect of plant growth regulators on qualitative characters of Sapota CV Cricketball. *Indian Journal of Horticulture*. 67(2): 152-55.

* Mark should be given as an indication that **Original articles were not seen** at the end of Literature cited.

The main parts of entry of a website are (i) Name of the Institute, (ii) Title of the article/Information/webpage as given below.

Reddy, O. 2017. Apple ber is common man apple with multiple health benefits. *Green Universe Environment*. <<https://www.linkedin.com/pulse/all-apple-ber-osk-reddy>>.

NHB, 2013. State wise area and production of flowers during the year 2012-13. In: R.K. Tiwari, N.C. Mistry, B. Singh and C.P. Gandhi (Eds.) *Indian Horticulture Data base-2013*. National Horticulture Board, Ministry of Agriculture, Govt. of India, Gurgaon – 122015. P.289. <www.nhb.gov.in>.

NHB, 2017. Crop wise area and production of Horticultural Crops for three years. *Horticultural statistics at a glance, 2017*. National Horticulture Board, Ministry of Agriculture and Farmers welfare, Govt. of India, New Delhi. P.66. <www.nhb.gov.in>.

The first line of the reference starts from the margin and the subsequent lines continued from 1cm hanging indent of the above line. Each reference is single spaced: a double space should be provided between individual references.

If there are several references with different titles by the same author, the name (s) of the author (s) are to be typed again.

More than one publication of the same author in the same year, a small alphabet shall be mentioned at the year as mentioned below:

Sheldrake, A.R, Narayanan, A.R. and Krishna, A. 1979a. Growth, development and nutrient uptake in pigeonpea (*Cajanus cajan* Milsp.). *Journal of Agricultural Sciences*. 92: 513-26.

Sheldrake, A.R, Narayanan, A.R. and Krishna, A. 1979b. Pigeonpa (*Cajanus cajan* Milsp.) as winter crop in peninsular India. *Experimental Agriculture*. 15:91-95.

Likewise the literature cited should follow the format and all the references shall be arranged alphabetically (**as shown in Appendix J**) at the end after Summary and Conclusions chapter.

9. SYMBOLS AND ABBREVIATIONS

The International Standards of Symbols and abbreviations shall be followed as shown in **Appendix M**. For more symbols and abbreviations, the standard journals of international repute can be referred.

10. APPENDICES

Any supporting material not included but referred to in the main text should be given as an appendix. Appendices shall follow the section “**Literature Cited.**” The style of appendices shall be consistent with the style of the main text. If there is more than one, each appendix shall be given alphabetic designation such as **appendix A, B, etc.** And be titled. The format should follow the rules for chapter titles as shown in **Appendix I**.

11. INDEX

The thesis shall not be **indexed**.

Appendix A: Cover Title

(18 point)

**VASE LIFE AND QUALITY OF CHINA ASTER
(*Callistephus chinensis* (L.) Nees) CUT FLOWERS
AS INFLUENCED BY HOLDING SOLUTIONS**

(16 point)

P. PRAVEEN KUMAR

(14 point)

M.Sc. (Hort.)

(16 point)

DOCTOR OF PHILOSOPHY IN HORTICULTURE

(14 point)

(FLORICULTURE AND LANDSCAPE ARCHITECTURE)

(4 cm diameter)



DEPARTMENT OF FLORICULTURE AND LANDSCAPE ARCHITECTURE,

(14 point)

COLLEGE OF HORTICULTURE, VENKATARAMANNAGUEM, W.G.Dist.-534 101

(12 Point)

ANDHRA PRADESH

(12 Point)

Dr.Y.S.R. HORTICULTURAL UNIVERSITY

(12 Point)

(20 point)

June, 2018

Appendix B: Title page

(18 point)

**VASE LIFE AND QUALITY OF CHINA ASTER
(*Callistephus chinensis* (L.) Nees) CUT FLOWERS
AS INFLUENCED BY HOLDING SOLUTIONS**

(16 point)

BY

(16 point)

P. PRAVEEN KUMAR

(14 point)

M.Sc. (Hort.)

(14 point)

**THESIS SUBMITTED TO Dr.Y.S.R. HORTICULTURAL UNIVERSITY
IN PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE AWARD OF THE DEGREE OF**

(16 point)

DOCTOR OF PHILOSOPHY IN HORTICULTURE

(14 point)

(FLORICULTURE AND LANDSCAPE ARCHITECTURE)

(4 cm diameter)



(14 point)

**DEPARTMENT OF FLORICULTURE AND LANDSCAPE ARCHITECTURE,
COLLEGE OF HORTICULTURE, VENKATARAMANNAGUDEM, W.G.Dist.-534 101**

(12 Point)

ANDHRA PRADESH

(12 Point)

(12 Point)

Dr.Y.S.R. HORTICULTURAL UNIVERSITY

(20 point)

June, 2018

It should be in the spine portion

M.Sc./Ph.D (13 point)	<p>VASE LIFE AND QUALITY OF CHINA ASTER (<i>Callistephus chinensis</i> (L.) Nees) CUT FLOWERS AS INFLUENCED BY HOLDING SOLUTIONS</p> <p>P. PRAVEEN KUMAR</p> <p>(11 point)</p> <p>(11 point)</p>	2018 (13 point)
---------------------------------	--	---------------------------

Appendix C : Certificate by Chairman of the Advisory Committee

CERTIFICATE (18 point)

(13 point)

This is to certify that Mr/Ms.....
ID. No..... has satisfactorily prosecuted the course of research and
that the thesis entitled “.....” submitted is the result of
original research work and is of sufficiently high standard to warrant its
presentation for examination.

Neither the thesis nor its part thereof has been previously submitted by
him/her for a degree of any University.

Place:

Date:

Chairman

Appendix D : Certificate of the Advisory Committee for M.Sc.

CERTIFICATE (18 point)

(13 point)

This is to certify that the thesis entitled “.....”

Submitted in partial fulfilment of the requirements for the degree of **Master of Science in Horticulture (Fruit Science / Vegetable Science / Floriculture and Landscape Architecture / Plantation, Spices, Medicinal and Aromatic Crops / Post Harvest Technology, Entomology / Plant Pathology)** of Dr.Y.S.R. Horticultural University, Venkataramannagudem, is a record of the bonafide research work carried out by Mr./Ms., ID.No under our guidance and supervision.

No part of the thesis has been submitted by the student for any other degree or diploma. The published part and all assistance received during the course of the investigations have been duly acknowledged by the author of the thesis.

Thesis approved by the Student Advisory Committee

Chairman	Name Designation Address	(Signature)
----------	--------------------------------	-------------

Member	Name Designation Address	(Signature)
--------	--------------------------------	-------------

Member	Name Designation Address	(Signature)
--------	--------------------------------	-------------

Date of final *viva-voce*:

Appendix E : Certificate of the Advisory Committee for Ph.D.

CERTIFICATE (18 point)

(13 point)

This is to certify that the thesis entitled “.....”
submitted in partial fulfilment of the requirements for the degree of **Doctor of Philosophy in Horticulture (Fruit Science / Vegetable Science / Floriculture and Landscape Architecture / Plantation, Spices, Medicinal and Aromatic Crops)** of Dr.Y.S.R. Horticultural University, Venkataramannagudem, is a record of the bonafide research work carried out by Mr./Ms., ID.No..... under our guidance and supervision.

No part of the thesis has been submitted by the student for any other degree or diploma. The published part and all assistance and help received during the course of the investigations have been duly acknowledged by the author of the thesis.

Thesis approved by the Student Advisory Committee

Chairman	Name Designation Address	(Signature)
Member	Name Designation Address	(Signature)
Member	Name Designation Address	(Signature)
Member	Name Designation Address	(Signature)
External Examiner	Name Designation Address	(Signature)

Date of final *viva-voce*:

Appendix F: List of Contents

CONTENTS (18 point)

(13 point)

Chapter No.	Title	Page No.
I	INTRODUCTION	
II	REVIEW OF LITERATURE	
III	MATERIAL AND METHODS	
IV	RESULTS AND DISCUSSION	
V	SUMMARY AND CONCLUSIONS	
	LITERATURE CITED	
	APPENDICES	

Appendix G

DECLARATION (18 point)

(13 point)

I, _____, hereby declare that the thesis entitled “_____” submitted to Dr.Y.S.R. Horticultural University, Venkataramannagudem, for the degree of **Master of Science in Horticulture (Fruit Science / Vegetable Science / Floriculture and Landscape Architecture / Plantation, Spices, Medicinal and Aromatic Crops / Post Harvest Technology/ Entomology / Plant Pathology)** is the result of original research work done by me. I declare that no material contained in the thesis has been published earlier in any manner.

Place:

Date:

Signature of the Student:

Name :

ID.No.:

Appendix H

DECLARATION (18 point)

(13 point)

I, _____ hereby declare that the thesis entitled “_____” submitted to Dr.Y.S.R. Horticultural University, Venkataramannagudem, for the degree of **Doctor of Philosophy in Horticulture (Fruit Science / Vegetable Science / Floriculture and Landscape Architecture / Plantation, Spices, Medicinal and Aromatic Crops)** is the result of original research work done by me. I declare that no material contained in the thesis has been published earlier in any manner.

Place:

Date:

Signature of the Student:

Name :

ID.No.:

Appendix I: Titles

18 point

ABSTRACT

14 point

Chapter I

18 point

INTRODUCTION

14 point

Chapter II

18 point

REVIEW OF LITERATURE

14 point

Chapter III

18 point

MATERIAL AND METHODS

14 point

Chapter IV

18 point

RESULTS AND DISCUSSION

14 point

Chapter V

18 point

SUMMARY AND CONCLUSIONS

18 point

LITERATURE CITED

18 point

APPENDICES

Appendix J : Literature cited

LITERATURE CITED

- Allard, R.W. 1960. *Principles of Plant Breeding*. John Wiley and Sons Inc. New York USA. 162-82.
- Amba Dan, Adsule, P.G. and Negi, S.S. 1987. Evaluation of new grape cultivars for processing. *Journal of Food Science Technology*. 24:194-96.
- Bawa, A.S. and Gujral, H.S. 2000. Effect of osmotic agents on the drying behaviour and product quality in raisin processing. *Journal of Scientific and Industrial Research*. 59(1): 63-66.
- Biswas, B 1999. Anthurium. In: T.K. Bose, R.G. Maithi, R.S. Dhua and P. Das (eds.) *Floriculture and Landscaping*, Naya Prakash, Calcutta, 538-46.
- Bolin, H.R. and Stafford A.E. 1980. Fatty acid esters and Carbonates in Grape drying. *Journal of Food Science*. 45: 754-55.
- Choudhury. B and Babel, Y.S. 1970 Studies on sex expression, sex ratio and fruit set as affected by different plant growth regulator sprays in bottle gourd. *Horticultural Science*. 34: 54-59.
- Durkin, D.J. 1979. Effect of Millipore filtration citric acid and sucrose on peduncle water potential of cut rose flowers. *Journal of American Society of Horticultural Sciences*. 104: 860-63.
- Halevy, A.H. 1976. Treatments to improve water balance of cut flowers. *Acta Horticulture*. 64:223-30.
- Panse, V.G. and Sukhatme, P.V. (Revised by Sukhatme, P.V. and Amble, V.N.) 1985. *Statistical Methods for Agricultural Workers*. ICAR, New Delhi. 187-202.
- Planning Commission, GOI, New Delhi. 2007. Report of the Working Group on Horticulture, *Plantation Crops and Organic Farming for the XI Five-year Plan*. 2010-23.

- Pratap, M. 2002. Studies on effect of pre-harvest micronutrient sprays on growth, production and post-harvest vase life of gladiolus Flowers (*Gladiolus grandiflorens*) CV. Traderhorn. *Ph.D. Thesis*. Acharya N.G. Ranga Agricultural University, Hyderabad, India.
- Rao, A.M, Rao, P.V. and Narayana Reddy, Y. 2004. Evaluation of turmeric cultivars for growth, yield and quality characters. *Journal of Plantation Crops*. 32(3): 20-25.
- Rao, P.V. and Chhonkar, V.S. 1983. Genetic analysis of fruit number in Chillies. *Indian Journal of Horticulture*. 40:72-6.
- Salunkhe, D.K, Bhatt, N.R. and Desai, B.B. 1990. Post harvest biotechnology of Flowers and Ornamental Plants. Naya Prokash Calcutta. 49 – 50.
- Sheldrake, A.R. and Narayanan, A. 1979a. Growth, development and nutrient uptake in pigeopnpea (*Cajanus cajan* Milsp.) *Journal of Agricultural Sciences*. 92:513-26.
- Sheldrake, A.R. and Narayanan, A. 1979b. Pigeonpea (*Cajanus cajan* Milsp.) as winter crop in peninsular India. *Experimental Agriculture*. 15:91-95.
- Singh, R.K, Singh, N.D. and Arunachalam, A.1999. Effect of Agromin and Planofix on the growth and yield of garlic (*Allium sattivum* L.). *Horticultural Journal*. 12(2): 101-05.
- Swaroop, K. 2010. Morphological variation and evaluation of gladiolus germplasm. *Indian Journal of Agricultural Sciences*. 80 (8): 742-45.

Appendix K : Guidelines for submission of thesis in digital form (CD/DVD)

Guidelines for submission of thesis and abstract in the Digital Form (CD/DVD) to the University Library, Dr. YSRHU, Venkataramannagudem.

A.	Text / Running script / Body Text :	
1	File Format	: MS Word 97-2003 DOC file format
2	Page size	: A ₄
3	Margin	: Left : 4 cm Right : 2 cm Top : 2 cm Bottom : 2 cm
4	Line Spacing	: 1.5
5	Font type	: Times New Roman at all levels
6	Font Colour	: Pure Black at all levels.
7	Page Number	: Upper Right corner for the chapters where continuous numbering is possible.
8	Titles Alignment	: From Left Side
9	Body Text Alignment	: Justified (From both left and right).
10	Page Layout	: Portrait; landscape for tabulated text pages as in review of literature, if necessary.
11	Folder	: A separate folder with the name TEXTS for holding all script files in it.
12	File Naming	: Title of the chapter
13	Files	: Each Separate MS word file for each chapter
14	Table and Graphs	: Just mention the title of the table or graph file (left aligned) in appropriate location in the script, but the actual table or graph file will be remaining in the separate folder as mentioned in (B).
15	Photographs and Images	: Just mention the title of the photograph or Image file (left aligned) in appropriate location in the script but the actual photograph or Image file will be remaining in the separate folder as mentioned in (C).

B	Tables and Graphs	
1	All parameters will remain same as text mentioned under (A) except for Font size, Page Layout, Folder, File naming, Files, Data for Figures.	
2	Font size	: Between 8 points to 13 points of TIMES NEW ROMAN suitable to fitting the table or graph into A ₄ size.
3	Page Layout	: Portrait or Landscape
4	Folder	: A separate folder with the name TABLES for holding all table files in it. A separate folder with the name FIGURES for holding all graph files in it.
5	File naming	: Title of the table or graph as the case may be.
6	Files	: Each separate MS Office file for each of the table or figure/ graph
7	Data for Figures/ Graphs	: All the basic data used to generate a graph must be made available in a separate MS excel file with the same file name as that of figure / graph.
C	Photographs, Images, Maps, Art works, etc.	
1	All parameters will remain same as TEXT mentioned under (A) except for Font size, Page Layout, Folder, File Naming, Files, Resolution, Image File Format	
2	Font Size	: Between 8 points to 13 points of TIMES NEW ROMAN suitable to fitting the table or graph into A ₄ size.
3	Page Layout	: Portrait or Landscape.
4	Folder	: A separate folder with the name IMAGES for holding all photograph, image, map, artwork etc. files in it.
5	File Naming	: Title of the Photograph, Image, Map, Artwork as the case may be.
6	Files	: Each separate file for each of the photograph, image, map, artwork, etc.
7	Resolution	: 300 DPI
8	Image File Format	: TIF (Without compression) or PSD (without compression)

PROFORMA TO BE SUBMITTED ALONG WITH CD

PROFORMA

1	Title of the Thesis	:	
2	Full name of the Student	:	
3	Name and Address of the Major Adviser	:	
4	Degree Awarded and Year	:	
5	Major Subject	:	
6	Total number of pages in thesis	:	
7	Number of words in thesis abstract	:	
8	Number of Tables	:	
9	Number of Figures	:	
10	Number of Plates	:	
11	Signature Name and Address of the Forwarding Authority	:	

CERTIFICATE

This is to certify that I have no objection for supplying to any scientist only one copy of any part of this thesis at a time through reprographic process, if necessary, for rendering reference services in a library or documentation Centre

Date :

Signature of the Student

Place :

Name :

Note : Acknowledgement will be given a day after submission of thesis and CD/DVD.

Appendix L : Format of Abstract

Format of abstract to be submitted along with thesis

Author	: Name in bold face, capitalised throughout without affiliations
Title of thesis	: Title shall be given in bold face with single line space
Degree for which it is submitted	: in capital letters (bold)
Faculty	: in capital letters (bold)
Major field	: in capital letters (bold)
Chairman of Advisory Committee	: in capital letters (bold)
University	: in capital letters (bold)
Year of submission	: bold

ABSTRACT

(18 point) central alignment

Text in single line spacing limiting up to second page

Appendix M : Symbols and Abbreviations

The following abbreviations shall be used both for singular and plural units

T	:	Absolute temperature	cl	:	Centilitre
ac	:	Acre	cm	:	Centimetre
a.i.	:	Active ingredient	X^2	:	Chi square
pm	:	After noon/Post Meridian	R^2	:	Co-efficient of Multiple Determination
v/s. or vs.	:	Against	CRD	:	Completely Randomized Design
AICRP	:	All India Co-ordinated Research Project.	r	:	Consumptive Use
H_1	:	Alternate Hypothesis	CFB	:	Corrugated Fibre Board Box
ANOVA	:	Analysis of Variance	BCR	:	Benefit Cost Ratio (BCR)
<i>et al.</i>	:	and others/associates/ co-workers	CD (P=0.05%)	:	Critical Difference at 5 per cent level
<i>etc.</i>	:	And so on; and other people / things	CPM	:	Critical Path Model
<i>Per se</i>	:	As such with mean	Kc	:	Crop co-efficient
@	:	at the rate of	ET _c	:	Crop Evapo-Transpiration
AWHC	:	Available Water Holding Capacity	CGR	:	Crop Growth Rate
Bt	:	<i>Bacillus thuringiensis</i>	cft	:	Cubic feet
am	:	Before noon / Anti Meridian	Cusec	:	Cubic feet per second
B	:	Billion	m ³	:	Cubic metre
BD	:	Bulk Density	m ³ h ⁻¹	:	Cubic metre per hour
C.S	:	Capsulated suspension	DAE	:	Days After Emergence
C:N ratio	:	Carbon to Nitrogen ratio	DAP	:	Days After Planting
cg	:	Centigram	DAS	:	Days After Sowing
DAT	:	Days After Transplanting	S^2	:	Genotypic Variance
dcg	:	Decagram	GIS	:	Geographic Information System
dg	:	Decigram	gcc ⁻¹	:	gram per cubic centimetre
dl	:	Decilitre	g	:	Gram
dm	:	Decimetre	\bar{X}	:	Grand Mean
dSm ⁻¹	:	Decisiemens per metre	GIR	:	Gross Irrigation Requirement
dsm ⁻²	:	Decisiemens per square metre	GI	:	Growth Index
°C	:	Degree Celsius	HI	:	Harvest Index

dkl	:	Dekalitre	ha	:	Hectare
DMRT	:	Duncan's Multiple Range Test	ha-cm	:	Hectare-centimetre
ETL	:	Economic Threshold level	ha-m	:	Hectare-metre
ER	:	Effective Rainfall	hl	:	Hectolitre
ECD	:	Efficiency of Conversion of Digested food	ht.	:	Height
ECI	:	Efficiency of Conversion of Ingested food	H ²	:	Heritability in Broad sense
ET	:	Evapo-Transpiration	HDPE	:	High Density Poly Ethylene
FUE	:	Fertilizer Use Efficiency	HP	:	High Density Poly Ethylene
FC	:	Field Capacity	h	:	Hour
Fig.	:	Figure	IBA	:	Indole -3-butyric acid
F. test	:	Fisher's Test	IAA	:	Indole- 3-acetic acid
e.g.	:	for example, for instance	IPM	:	Integrated Pest Management
GA	:	Genetic Advance	IU	:	International Unit
GAM	:	Genetic Advance as per cent of Mean	IPE	:	Irrigation Production efficiency
GCV	:	Genotypic co-efficient of variation	IR	:	Irrigation Requirement
r _g	:	Genotypic correlation co-efficient	JA	:	Jasmonic Acid
kcal	:	Kilo Calories	J	:	Joule
kg	:	Kilogram	M	:	Million
kg ha ⁻¹	:	Kilogram per hectare	Min.	:	Minimum
kg a.i. ha ⁻¹	:	Kilogram active ingredient per hectare	MI	:	Moisture index
kl	:	Kilolitre	m	:	molality
km	:	Kilometre	M	:	Molarity
LSD	:	Latin Square Design	R	:	Multiple Correlation Co-efficient
LAD	:	Leaf Area Duration	MLR	:	Multiple Linear Regression
LAI	:	Leaf Area Index	Viz.,	:	Namely
λ _{max.}	:	Light absorption maxima	ng	:	Nanogram
λ _{min.}	:	Light absorption minima	nm	:	Nanometre
l	:	Litre	NBT	:	Need Based Treatment
l ha ⁻¹	:	Litre per hectare	NAR	:	Net Assimilation Rate
LLDPE	:	Low Linear Density Polyethylene	NIR	:	Net Irrigation Requirement
Max.	:	Maximum	N	:	Newton
mPa	:	Mega Pascal	NRA	:	Nitrate Reductase Activity
m	:	Metre	NUE	:	Nitrogen Use Efficiency
ms ⁻¹	:	Metre per second	NRS	:	Non-Reducing Sugars

m ²	:	Metre square	NS	:	Non-Significant
μg	:	Microgram	H ₀	:	Null Hypothesis
μl	:	Micro litre	No.	:	Number
μm	:	Micrometre	Moles g ⁻¹ Fr.wt. h ⁻¹	:	Number of moles per gram Fresh weight per hour
μ	:	Micron	OD	:	Optical Density
mg	:	Milligram	ψ	:	Osmotic Potential
ml	:	Millilitre	K _p	:	Pan Co-efficient
mm	:	Millimetre	ppb	:	Parts per billion
Pa	:	Pascal	ppm	:	Parts per million
g ⁻¹ D.wt	:	per gram Dry weight	RPM	:	Revolutions Per Minute
g ⁻¹ Fr.wt	:	per Gram Fresh weight	s	:	Second
l ⁻¹	:	per litre	S m ⁻¹	:	Siemens per metre
m ⁻¹	:	per metre	SG	:	Soluble granules
m ⁻²	:	Per metre square	SL	:	Soluble liquids
%	:	Per cent	ψ _s	:	Solute potential
PWP	:	Permanent Wilting Point	cm ²	:	Square centimetre
PCV	:	Phenotypic Co-efficient of Variation	km ²	:	Square kilometre
r _p	:	Phenotypic correlation co-efficient	mm ²	:	Square millimetre
s ² _p	:	Phenotypic Variance	SD	:	Standard Deviation
PPFD	:	Photosynthetic Photon Flux Density	SEm	:	Standard Error of mean
PLW	:	Physiological Loss in Weight	SE m±	:	Standard Error of mean
PM	:	Physiological Maturity	Sub sp.	:	Sub species
P _{fr}	:	Phytochrome far red	t	:	Tonnes
P _r	:	Phytochrome red	T ha ⁻¹	:	Tonnes per hectare
PUFA	:	Poly Unsaturated Fatty Acids	TSS	:	Total soluble solids
PET	:	Potential Evapo-Transpiration	T	:	Trillion
Ψ _p	:	Pressure potential	UV	:	Ultra Violet
PCA	:	Principal Component Analysis	USWB	:	United States Weather Bureau
q	:	quintal	WHC	:	Water Holding Capacity
RBD	:	Randomized Block Design	Ψ _w	:	Water potential
RSS	:	Reducing Growth Rate	WR	:	Water Requirement
RGR	:	Relative Growth Rate	W m ⁻²	:	Watts per square meter
RQ	:	Respiratory Quotient	WI	:	Weed Index
K _y	:	Yield Response Co-efficient	Wt.	:	Weight
₹	:	Rupee	i.e.	:	That is

Horti-Education : Future of Young India

