

# **SCIENCE ENCLAVE**

(RESEARCH CENTRE AND LABORATORIES)



THESIS SUBMITTED TO UNIVERSITY OF MANAGEMENT AND TECHNOLOGY IN  
PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF

**BACHELORS IN ARCHITECTURE**

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**DEDICATION:**

I dedicate my thesis to my late grandfather Jalal-ud-din and  
my family.



## **ACKNOWLEDGMENT**

First and the foremost, I wish to express my deepest appreciation to my project supervisors Ar. Najam-ul-haq, AR, Memoona Rasheed, Dr Saima Gulzar and AR, Yousaf awan for the continuous support in my final year project, for their patience, motivation, enthusiasm and immense knowledge. Their guidance helped me all the time in the final year project and the writing of this thesis. Without their help this project would not have been completed.

Most importantly, none of this could have happened without my family and friends, who encourages me at every step where I was ready to quit, they have been kind and supportive to me over the last several years. Today I am here just because of them and my teachers and I will be thankful to them for their support.

**ABSTRACT:**

Pakistan is a developing country and depends upon its agriculture for foreign revenue. Wheat, rice, cotton, sugarcane and maize are major crops of Pakistan. This complex will entertain Punjab province. Punjab is the largest producer of crops still lacks state of art complex for Agriculture. It will have hi-tech laboratories and research center. It will serve government, private companies, students and farmers efficiently in improving the quality of products.

This will help in improving the quality and increasing the production for future needs. Case studies done for better understanding of spaces and areas and functionality of spaces.

Site located on Munsoora Multan road, Thokar Niaz Baig flyover adjacent to National Bureau and Accountability (N.A.B).

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**CHAPTER 1**

**INTRODUCTION**

### **1.1 PROJECT TITLE:**

The title of project is **SCIENCE ENCLAVE**, a complex of Agricultural research center and testing labs.

### **1.2 PROJECT INTRODUCTION:**

Lahore known as heart of province Punjab since ages. In early times there was no lack of quality and quantity in every aspects of life. With the passage of time, Lahore is converting in to main and busy Hub of Punjab. Due to increase in population needs of inhabitants are also increasing day by day. Government and private officials are doing their best to fulfill the needs to people.

**Agriculture**; backbone of our economy. Major part of our economy is raised due to our agriculture sector since ages and a source of income or 45% of urban and 65% of rural population. It also provides food, shelter and livelihood to the people and raw material to the industry. Due to increase in pollution, pests and insects experts are working efficiently to explore new technologies to analyses pesticides, herbicides etc. and methods to fulfill the needs of increasing population.

**Food**; primary need of every living being. Few decades ago there was sufficient amount of foods for every one as well as things were pure, fresh and healthy. But now a days due to increase in demand of food lovers, eating is now not just habit but a strong business. People own restaurants, retail shops, departmental stores and ignore quality assurance. To avoid this inconvenience government initiated to keep check and balance on food industry.

### **1.3 PROJECT DESCRIPTION:**

The project will have hi tech research center having laboratories. Aim is to research facilities and sample testing facilities under one roof, it will be the first service center of its kind in Punjab. Keeping in view the situation of health issues there is a need for these testing labs.

Individual lab will be allotted to every discipline for its proper running, provided with latest equipment, techniques and skilled experts. Structure of complex, master planning, and service spaces