

HORTICULTURE  
PORTFOLIO 2022  
MAURYA SUMANTH MANI

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## 1. GREEN WALL

Approximately 25% of carbon emissions made by human activity are absorbed by plants, and living walls contribute to that absorption. We are trained in plant selection for the green walls in different climatic conditions.



Green wall



Installation of green wall

## 2. PLANT CARE

To nurture a garden is to feed not just the body, but the soul. Hands in the dirt, head in the sun, heart with nature. We have trained for the plant care & protection of different horticultural crops like fruits, flowers, ornamental plants, etc. at the field and plant nursery levels.



Fertilizers spraying



Pruning of ornamental plant

### 3. SOFTSCAPE

Softscape is the living (animate) part of landscaping comprising plants & horticulture elements.  
I can work at the landscape site for the implementation of landscape work according to the given plans.



Turfing of lawn



Plantation according to plan

### 4. ORGANIC FARMING

It reduces non-renewable energy use by decreasing agrochemical needs, also contributes to mitigating the greenhouse effect and global warming through its ability to sequester carbon in the soil.



Organically produced vegetables



Fertigation without chemical

## 5. KITCHEN GARDEN

To make our cities greener, it's a garden where, it gives city dwellers a chance to produce their own food—fresher, healthier—and learn in the process about local varieties.



Kitchen garden at backyard



Vertical kitchen garden

## 6. APICULTURE & SERICULTURE

Bees are vital pollinators of many crops that we depend on for food, and without bees we would face an unprecedented food production crisis. They are essential for pollination, which is vital to all life on Earth. We have done our practical on apiculture & sericulture.



Honey comb



Silk production

## 7. NATURE BASED SOLUTION

It is a term that can be used to describe alternative and non-traditional approaches to environmental issues, like flooding, water scarcity, or soil erosion, by harnessing natural capital.



NBS in urban oasis



Utilization of underspace of Bridge

## 8 . ORGANIC FERTILIZERS

Organic fertilizers are produced by using animal manures and agricultural residues and by-products. These readily biodegradable materials make organic fertilizers a better nutrient source than chemical fertilizers



Composting at large scale



Vermicompost

## 9. PLANT PROPAGATION & NURSERY MANAGEMENT

Nursery saves considerable time for the raising of the next crop, it is possible when you have professional horticulturist to manage it.



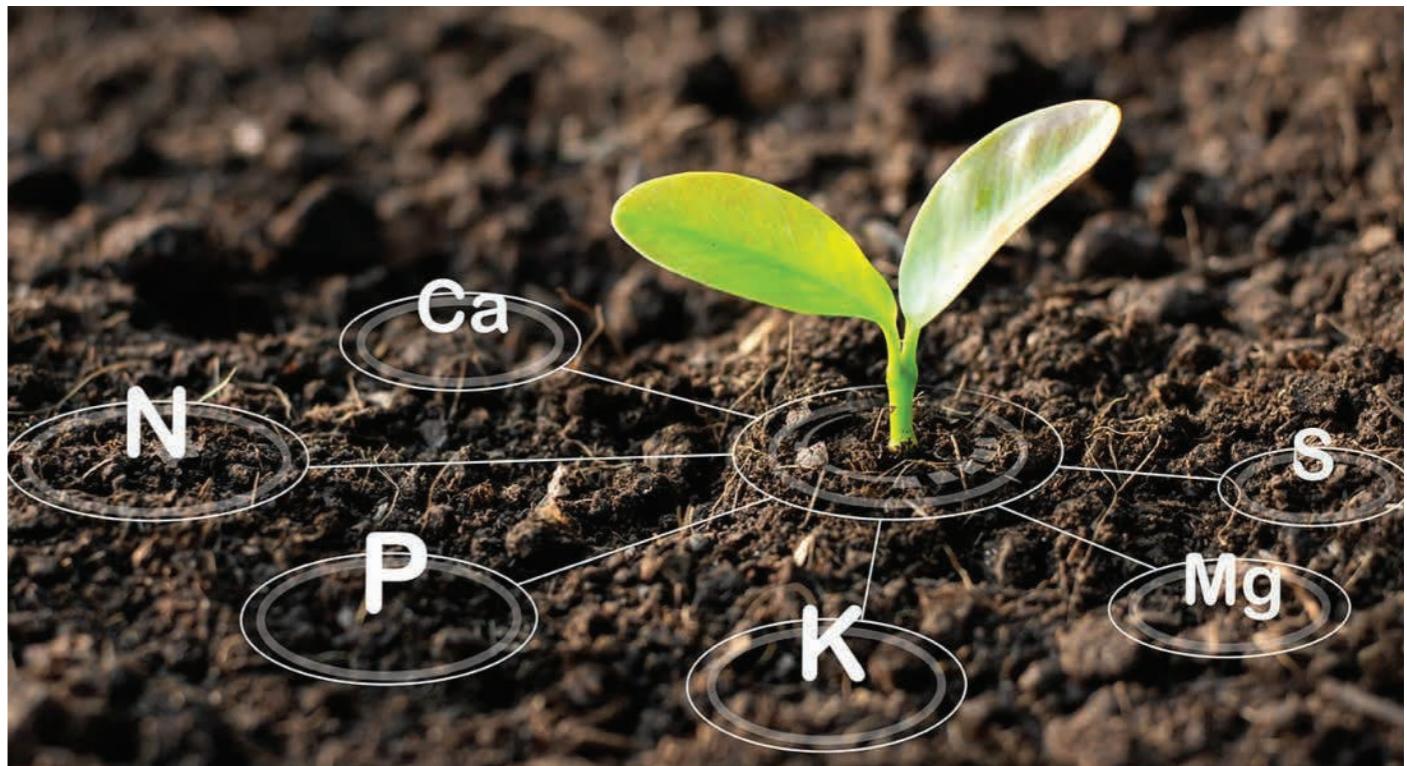
Plant nursery



Vegetative propagation

## 10. SOIL SCIENCE

Soil provides ecosystem services critical for life: It acts as a water filter and a growing medium; provides habitat for billions of organisms, contributing to biodiversity; and supplies most of the antibiotics used to fight diseases.



Balance of nutrient in the soil



Healthy soil

## 11. ORCHARD MANAGEMENT

An orchard is a planted and managed area of fruit trees. It refers to the careful management of the orchard soil in such a way that the soil is maintained in a good condition suitable to the needs of the tree with least expenses.



Well established orchard



Pruning of an apple

## 12. TREE SURVEY

A tree survey refers to an overall assessment or survey of the trees on a site considered for development. It helps identify trees faster and store the data gathered in a comprehensive and accurate inventory.



Measuring the trunk diameter



Location of trees on map

## 9. AGRO-FORESTRY

Agroforestry can increase farm profitability in several ways: the total output per unit area of tree/crop/livestock combinations is greater than any single component alone. crops and livestock protected from the damaging effects of sun or wind are more productive.



An example of Agroforestry



Agroforestry at slopes

## 10. BIO-FERTILIZERS & BIO-PESTICIDES

Agroforestry can increase farm profitability in several ways: the total output per unit area of tree/crop/livestock combinations is greater than any single component alone. crops and livestock protected from the damaging effects of sun or wind are more productive.



Azolla cultivation



Rearing of *Corcyra cephalonica* for *Trichogamma* as a Biological control

THANK YOU