

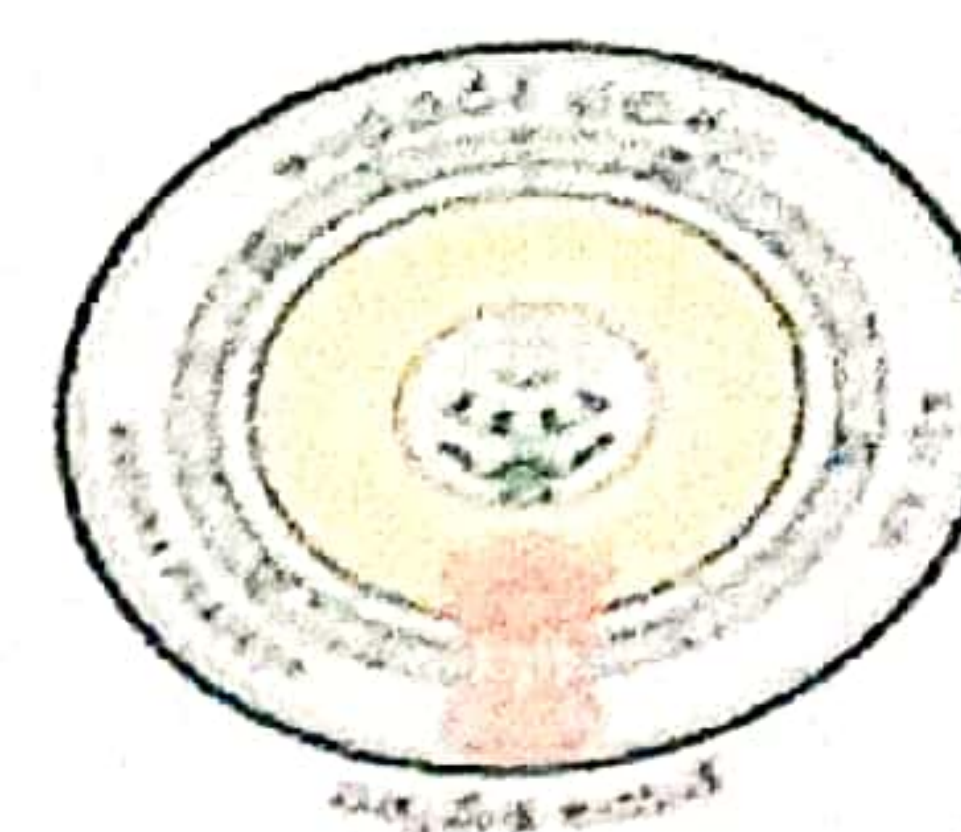


D. K. GOVERNMENT COLLEGE FOR WOMEN

Nellore, Andhra Pradesh- 524003

Autonomous College, College with Potential for Excellence

Re-accredited with "A" Grade by NAAC



INNOVATIVE PRACTICE

ACADEMIC YEAR 2021-2022

DEPARTMENT OF BOTANY

ORGANIC FARMING



ORGANIC FARMING IN VEGETABLE CROPS

OBJECTIVES

The primary goal of organic vegetable production is to optimize the health and productivity of interdependent communities of soil, plant and people.

- To produce food of high nutritional quality in sufficient quantity.
- To encourage biological cycles within farming systems by involving the use of microorganisms, soil flora & fauna, plants and animals.
- To maintain and increase the long-term fertility of soil and biodiversity.

- To use renewable resources in locally organized production systems.

ORGANIC FARMING IN VEGETABLE CROPS

Use of inorganic fertilizers has deteriorated soil health badly with deficiency of macro and micronutrient. Depleting soil organic carbon status, decreasing soil fertility and reduced factor productivity, increase in the cost of production and deteriorating environmental quality are other issues of concern.

The organic farming system takes local soil fertility as a key to successful production. Plant uses nutrients from organic sources through mineralization and billions of microorganisms are available in soil for this job. Under organic farming practices, regular addition of organic fertilizer improves the soil quality. The loss of nutrient in organic manure is also less due to its slow release. It is always better to use on farm inputs.

Nutrient management is the key factor for all farming systems. In organic farming systems there is no place for synthetic chemicals. Inorganic farming, nutrient management depends on biologically derived nutrients through recycling of on- farm inputs.

CONTEXT

The Vegetable productivity under Organic farming is conducting in the college campus by the department of Botany. It is going on successfully at regular under the management of staff and students. The time lines were given to the students to follow strictly.

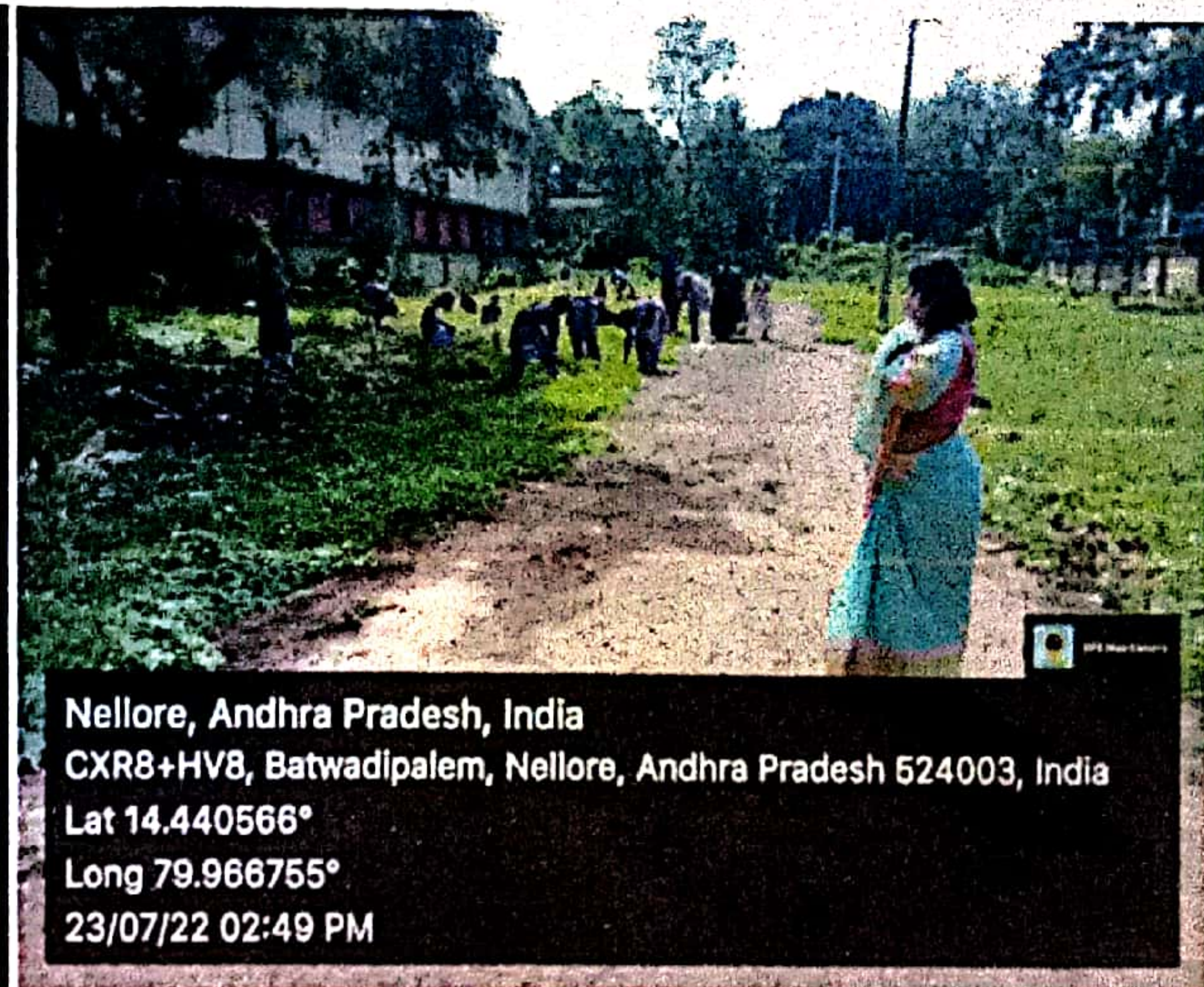
PRACTICE

The fertilizer like decomposed vermicompost collected by the students from composting pits that apply to soil. Green leafy vegetables such as Amaranth, Boerhaavia, Trigonella and Spinach, etc., are cheaper source of folic acid and best resource for overcoming micronutrient deficiencies and short duration crops, were cultivated. The plants are regularly watered and monitored. After that the matured leaves collected made into packets. Students sell vegetables to consumers.

OUT COMES

- The students were given awareness on organic forming
- The students were given good knowledge about fertilizing.

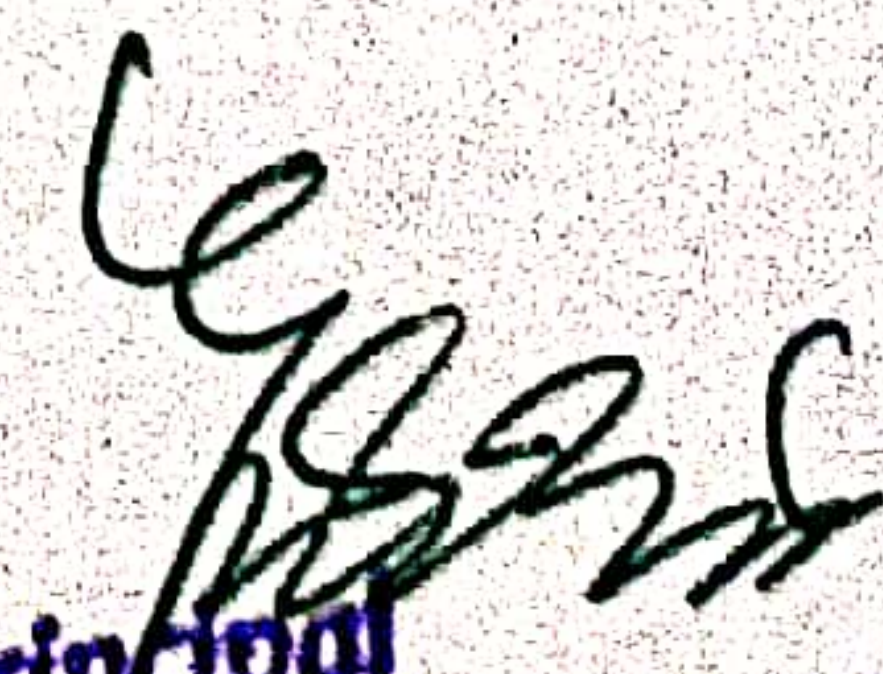
- They got awareness about the enhancement of crop productivity by organic fertilizers
- They came to know about hazardous nature of chemical fertilizers.
- Students know the cultivation methods and marketing
- They improve self confidence and self employability



Organic farming practice by Botany students

Green leafy vegetables sales by Botany students




Principal
D.K. Govt. College for Women (A)
NELLORE.