

Application of Fertilizers based on Soil Testing on a mission mode is creating a quiet revolution. Analyse in the Context of Soil Health Card Programme (2000s)

Due to rising of Population after independence, the farmers needed to feed more population, so they use Fertilizers in large scale to enhance agricultural production. The over usage of fertilizers leads to reduce/low fertility of soil and impacts negatively on agricultural production after wards.

Soil fertility depends on

- 1) Micro nutrients (Iron, Zinc, Boron)
- 2) Macro nutrients (Oxygen, Nitrogen, Potassium)
- 3) Nitrogen-Phosphorus-Potash ratio (NPK ratio)

How Soil Health Card check the Over usage of Fertilizers?

By Soil Health Card Scheme 2015, the farmers check the soil and use the fertilizers according to need. It improve the soil quality and profitability of farmers and provide employment generation among farmers.

## Other state government Initiatives

### 1) Raithu - Bhavosa - Kencras

↳ An Initiative of Andhra government for integrated soil testing in rural areas

### 2) Mitti-ke-Doctor

↳ Rural women involvement in soil testing at door step level.

## Soil health card and Sustainable Agricultural development

⇒ By SHC, the farmers easily understand deficiency of nutrients and apply alternative bio fertilizers instead of chemical one.

Ex: Biochar (high quality charcoal produced by Pyrolysis)

⇒ By SHC, if the soil have sufficient nutrients, then a scope of zero budget natural farming, it enhance the production with less pollution and economic burden to farmers.

⇒ By efficient usage of SHC, then the scope of fertilizers and producers of fertilizers will lose its glory, it protect the environment from different kinds of pollution.

## Stc and Economic Stability of Farmers

- 1) Reduce the financial burden of farmers from buying the fertilizers at higher cost.
- 2) Effective usage of fertilizers according to need enhance production and savings of farmers along with profits.

## Stc and health issues

- 1) less usage of fertilizers help to protect farmers from health issues on application and consumers from poisonous food items during consumption.
- Way forward

Stc not only helps to obtain agricultural development but also for the women/vulnerable section empowerment by the effective application. Soil itself have lot of nutrients, then ones have only duty of conserve them well rather than over application of unwanted nutrients blindly.