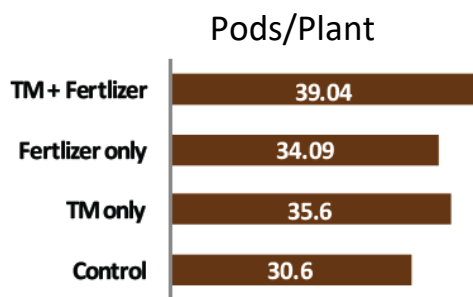


## Research: Groundnut

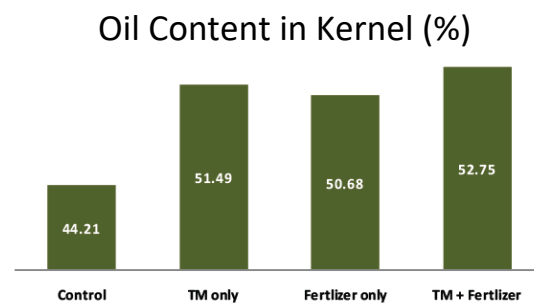


Best Environmental Technologies, Canada conducted field trials on Groundnut at Rajasthan Agriculture Research Institute, Jaipur, India. TM Agricultural product was tested for three years to study the efficacy on yield, protein content, oil content and soil quality parameters. The studies were conducted by a team of scientists.

### Groundnut Quality & Oil Content



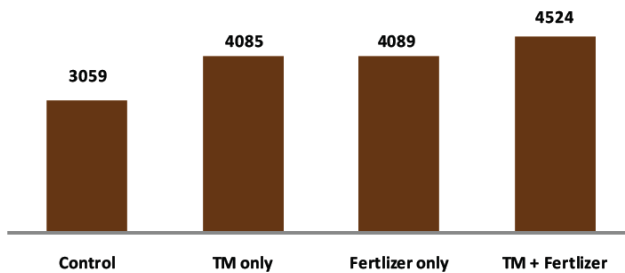
Number of pods were increased by 31% and pod weight was also increased by 27% in TM+Fertilizer treated crop.



Oil content in kernel was increased by 19% with only TM + Fertilizer treated crop

## TM Agricultural Test Data & Yield

### Pod Yield (kg/ha)



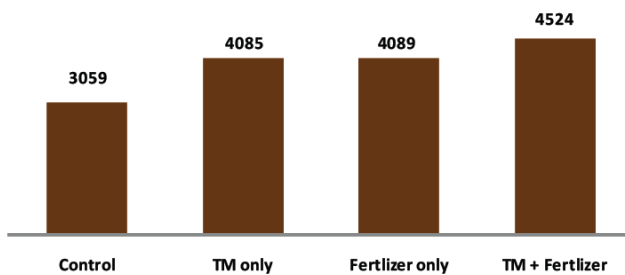
Pod yield showed almost 47% increase in TM + Fertilizer treated crop from 3059 kg/ha to 4524 kg/ha.



Research Trial Field, JAIPUR

## Protein Content

### Protein in Kernel (%)

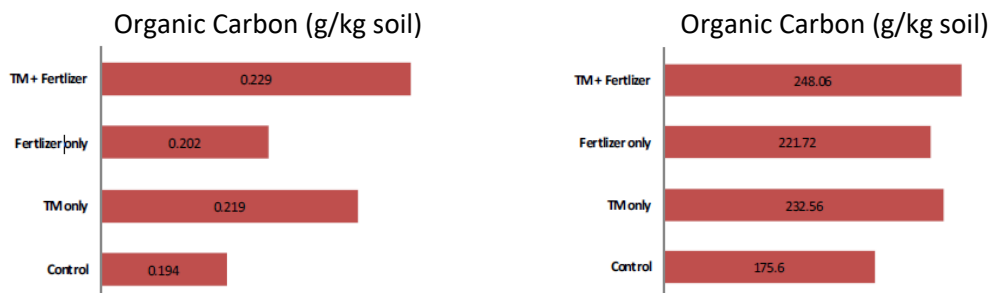


Protein content in kernel was increased by 13% in TM + Fertilizer treated crop over control.



## Soil Quality

Soil Quality was measured as Soil Microbial Biomass Carbon (SMBC), which was increased by 41% in TM + Fertilizer treated crop over control. Soil bacteria and fungi were also increased significantly resulting increase of soil organic matter content.



## Product Application Guidelines

TM AGRICULTURAL is to be applied minimum 2 times during the growing season (3-4 leaf stage and 3 weeks after that) or 3 times including soil application (1st) after sowing of seeds on soil as given below.

Rate of application: 500 ml per acre is required for all three applications for normal soils.

**First application:** Product can be applied on soil immediately after sowing seeds. TM AGRICULTURAL liquid Product is mixed @100ml/acre with enough quantity of water and sprayed on soil.

**Second application:** After germination of seeds, when plants are 3 to 4 leaf stage, product is mixed @ 200 ml/acre with enough quantity of water and sprayed on crop rows.

**Third application:** Three weeks after 2<sup>nd</sup> application on crop spray @ 200 ml/acre.

**Method of application:** Liquid Product can be mixed with enough quantity of water required to cover 1 acre (generally 80 to100 Liters) cropped area and sprayed uniformly.

**Product Compatibility with Fertilizers and Herbicides:** TM can be mixed with any liquid or normal solid fertilizers like Urea, SSP, MOP, Ammonium sulphate or Herbicides for application. Do not mix with insecticides, fungicides and pesticides.

**Application apparatus:** Normal back pack sprayers, power sprayers or tank sprayers can be used for spraying product at all 3 stages. Sprayer nozzle should be adjusted as required to deliver required amount of water while spraying.

**Drip irrigation systems:** TM can be mixed at the source point for the drip system. Mix TM each time as recommended above into irrigation system after sowing.

## Benefits of TM AGRICULTURAL

- Higher yields & Oil content
- More Protein content in kernel
- Moisture stress tolerance of crop
- Increase in soil organic matter
- More nutrients in soil
- Better quality of pods
- Less chances of diseases
- Less Fertilizer requirement
- Higher soil water holding capacity
- Reduction in soil salts