

# Zytonic<sup>®</sup> NPK

NPK Bacterial Consortia

As per  
FCO



**Zytonic**<sup>®</sup>

**Sustainable farming for nutritious,  
safe and affordable food for all**

## For All Crops



## How does Zytonic NPK work?

- **Zytonic Technology Platform:** Makes soils soft and porous resulting in a perfect balance of aeration & water-holding capacity. This produces the optimal microenvironment in the soil for beneficial soil biology to activate and proliferate.
- **NPK Consortia Inoculation:** Nitrogen-fixing along with Phosphorous solubilizing & Potash mobilizing bacterial consortia deliver substantially higher amount of nutrients (N, P, K) and also makes them continuously available to the plants throughout the crop cycle.
- Enhanced N-fixing capacity through biological fixation is achieved due to improved soil porosity and higher population and activity of N-fixing bacteria. The mineralization of nitrogen directly creates amino acids rather than nitrates and ammonia. This reduces the energy requirement for converting nitrates and ammonium to amino acids, thereby improving the plants energy efficiency for better growth.
- Higher microbial population & rhizosphere activity, leads to improved supply of nutrients in plants available form.

## Benefits: Will help in eliminating chemical fertigation

- ✓ Higher Yields
- ✓ Improved Quality & Shelf-life
- ✓ Enhanced Flowering (low dropping) & Fruiting
- ✓ Enhanced Soil health & Biological activity

Available in 2 & 15 kg packs

## Zytonic M & Zytonic NPK Combination for super-high performance:

- With Zytonic technology platform soil becomes soft & porous leading to larger and profuse root zone (especially white roots).
- Zytonic M with mycorrhizal inoculation allows a profuse hyphae network extending the root zone through a symbiotic relationship.
- The active NPK consortia enables large quantities of N fixation and release of P & K through the solubilizing action, which in turn is absorbed through the dense hyphae and root network allowing the elimination of chemical fertilizer inputs.
- This is particularly important as the yields continue to be similar or higher than the chemical farming methodology in the first cropping cycle itself.
- For best results, use of a combination of Zytonic NPK, with Zytonic M is recommended. Zytonic Zinc and Zytonic K are also available to the farmers to address any additional Zinc and K deficiencies.

## Dosage and Application

- **BASAL APPLICATION:** Dose: 6 kg/acre

**Application Method:** Mix Zytonic NPK with Zytonic M and Godhan enriched FYM | BioCompost | Vermi Compost broadcast on soil followed by rotovation.

- **TOP DRESSING APPLICATION:** Dose: 2 kg/acre

**Application Method:** Dissolve Zytonic NPK in water (1:100). Wait for 12-24 hours and apply via drenching, drip or flood irrigation or Mix with Godhan enriched FYM and broadcast in field.

## For best results, use with Zytonic M Bio-fertilizer.

- **FOLIAR APPLICATION:** Dose: 2 kg/acre

**Application Method:** Dissolve Zytonic NPK in water (1:100). Wait for 12-24 hours and apply as a foliar spray

### Note:

- Can be used with all types of chemical fertilizers
- For best results always use Zytonic NPK along with Mycorrhiza enriched Zytonic M

## Ingredients: Carrier Base Consortia (Water Soluble Bio-Fertilizer)

- Nitrogen-fixing Bacteria:  $>10^7$  cfu / gm
- Phosphate Solubilizing Bacteria:  $>10^7$  cfu / gm
- K Mobilizing Bacteria:  $>10^7$  cfu / gm
- Total Viable Counts :  $\geq 5 \times 10^7$  cfu / gm

Store in a cool & dry place, away from direct sunlight & heat