Spuranzo Phosphate Solubilising Bacteria (P.S.B.)

Spuranzo is a unique liquid based formulation containing various microbes useful for phosphorus solubilization. Phosphate solubilizers dissolve fixed phosphate into plant utilizable form. Phosphate solubilizers produce organic acids (viz, citric acid, succinic acid, lactic acid, etc.), hormones (viz, indole acetic acid, gibberellins etc.) and enzymes (viz, phytase, nuclease, lecithinase etc.) that help, in solubilisation of insoluble phosphates into plant utilizable form.

Composition:

Bacterial inoculum population density (Bacillus megaterium) Microbial Media Residue 2×10^9 min. C.F.U/ml

95-97%

Product Mode of Action

Up to 40 to 50 percent of P_2O_5 (Phosphorurus pentoxide) after separating from Phosphatic fertilizer, became unavailable due to formation of bond (salt) with cation like Zn, Ca, Mg, Fe etc. Microbes of Spuranzo release various enzymes which break bond between cation (viz, Ca, Mg, Fe) and P_2O_5 and make P_2O_5 free for consumption by plants. By this, cost of application of phosphatic fertilizer is reduced. Microbes also release P_2O_5 deposited previously applied fertilizer.

Mostly farmer uses DAP as a prophetic source. As we apply DAP it get dissolve and liberate P_2O_5 . These P_2O_5 have negative valiancy so remain negatively charge. In soil there is so many positive charged element is present like Zn, Cu, Fe, Ca etc. so positive and negative get attracted and make fix bond. These bonds become unavailable to plant and thus P_2O_5 become as available salt. Day by day these salts get deposited and soil becomes hard. When PSB microbes incorporated in soil they release various organic acids which break this bond of positive negative and make P_2O_5 available to plants.

Product benefits:

- Save up to 50 % application of phosphatic chemical fertilizer
- Add up to 10-15 kg phosphorus per hectare per year
- Reduce soil erosion
- During solubilization of phosphorus, liberate various micronutrient which can be use full for plant as a food
- Improve plant vigor, plant health etc.
- Increase beneficial soil biomass
- Improve soil texture and soil fertilely
- It help to increases the crop yield

Direction for use: Seed Treatment:

Mix 10 ml of Spuranzo per kg of seeds with a sufficient solution of 5 % jaggery. Dry the seed in shade for half an hour. Sow the seeds within 24 hours for maximum advantage.

Seedling Root Dipping:

Mix 1 lit of Spuranzo in 100 liter of 5 % jaggery water. Dip the root portion of the seedling required for an acre in the mixture for 30 minutes before transplanting.

Set Dipping:

Mix 1 lit of Spuranzo in 100 liter of 5 % jaggery water and dip the setts required for an acre in this mixture for half an hour (30 min) before transplanting.

Soil application:

Mix 1 lit of Spuranzo with 100 kg of well compost FYM or any other biocompost and simply broad cast in the main field just before sowing or transplanting or apply in standing crop by row or furrow or broad casting method in sufficient moisture.

Drip application:

Add 1 lit Spuranzo in drip tank contain clean water. Start the drip and liberate contain of drip tank in drip line .Microbes reach by these up to root zone of every plant.

Packing available

- Liquid form – 1 lit, 5 lit, 20 lit,

Self life – Liquid 1 years

