

Seed and soil treatment with bio-formulation enhances germination and yield

Maru Sena 1: Product having *Trichoderma* with inert carrier (Talc) and farm yard manure with suitable moisture. Shelf life of bio agent in the product is 120 days.

Application: Seed treatment (4 g kg⁻¹ seed) and soil application (1 kg product mix with 40-50 kg FYM ha⁻¹).

Maru Sena 3: Product having *Bacillus* with inert carrier (lignite) and manure with suitable moisture. Shelf life of bacterium in the bio-formulated product is 120 days.

Application: Used as seed coating (200 g packet of Maru Sena 3 mix with 125 g jaggery in 1 litre of water for 0.4 ha).



Maru Sena application

- ❖ Select good variety of seed
- ❖ Apply 4-6 g Maru Sena-1 and mix with 1 kg seeds (use water if required)
- ❖ Air dry the seed for 4-5 hours
- ❖ Sow treated seeds



Mishrit Maru Sena: Product having *T. harzianum* + *B. firmus* both to improve pathogen control by synergistic mechanisms of antagonism. Utilizing readily available, eco-friendly food substrates and inert materials. Shelf life of BCAs in product is 120 days.

Application: Used as seed coating (100 g mixture mixed with 75 g jaggery in 1/2 litre of water for one kg seed) and soil application (1 kg mix with 40 kg FYM ha⁻¹).

Crops: Legumes, oil seeds, seed spices, vegetables and horticulture crops.

Availability: In both kharif and rabi season, in ATIC of the institute.

