
Trial EcoVigor: trial in turmeric

Product: EcoVigor
Crop: Turmeric

Trial setting: Field
Location: India

Objective

Increase production

Methods

Two 1-hectare plots were used for the trial. Traditional culture methods based on chemical pesticides were used in the control plot. Completely organic methods including the use of EcoVigor and EcoNutrient were used in the treated plot.

Control plot: Rhizomes were treated with 0.3% Dithane M-45 for 30 minutes for control of rhizome rot (*Pythium graminicolum*), air-dried and planted. Small pits were made with a hand hoe in the beds in rows with spacing of 25x 30 cm and covered with soil and dry powdered cattle manure. A thick mulching with green leaves was applied immediately after planting. The seeds began to sprout in about 15 days with irrigation. In order to control leaf blotch (*Taphirna maculans*), the leaves were sprayed with 0.2% Dithane M.45.

Treated plot: Rhizome seeds were dipped in a solution of EcoVigor (1%) for 30 minutes. Eight liters of EcoVigor and two kilograms of EcoNutrient were applied per hectare in four applications of 2 liters of EcoVigor and 500 grams of EcoNutrient at planting, emergence, three months after planting, and six months after planting. The application after planting was carried out as a drench while the other following applications were carried out as foliar spray.

Manure was applied as basal dressing at 10-tons/ hectare. Beds were earthed up each time after top dressing. The NPK recommendation was 125:37:37kg per ha. Whole Phosphorus (P) and Potash (K₂O) was given as basal dose at planting while Nitrogen (N) was applied as 25kg each at basal, 30, 60, 90 and 120 days after planting for a total of 125kg N/ hectare.

Germination rate was determined as the number of plants emerging per hectare multiplied by 100 and divided by the number of rhizomes planted per hectare. The crops were ready for harvest in about 7 months after planting. Turmeric was harvested when leaves turned yellow and started drying up. In harvesting, the whole clump was lifted out with the dry plant, then the leafy tops were cut off, the roots were removed, all the adhering mud particles were shaken or rubbed off, and the rhizomes were then washed well with water. The daughter rhizomes were separated from the mother rhizomes and kept in shade for 2-3 days. Total weight of fresh turmeric was determined under both treatments.

Results

Parameters	Control	EcoVigor
% Germination rate	93	81
Turmeric (tons/ha)	16.8	21.1
% Improvement in yield		25.6

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