TAMARIND SEED GUM AS ADHESIVE FOR PELLETING IN TOMATO CV. PKM1

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ABSTRACT

The effect and quality characters of tamarind seed gum as adhesive for seed pelleting in Tomato (Solanum lycopersicum 2n=24) cv. PKM1 was compared with other adhesive in Department of Seed Science and Technology, TNAU, Coimbatore. The tomato seeds were pelleted with sand, Trichoderma viride, fine vermi compost, Pseudomonas fluorescens and TNAU pelleting powder @ ratio of 1:1:2:1:5 using five adhesives viz., Rice gruel, Maida, Gum acacia, CMC, Tamarind gum at different concentration. Both physical and physiological parameters were observed. The seeds pelleted with 8% Tamarind gum produced significantly higher speed of germination, germination percentage (98%), seedling length (11.5), vigour index I (1127), vigour index II (8281). Speed of germination of pelleted seeds (Tamarind gum adhesive used) is better than control.

KEYWORDS: Tamarind, Pseudomonas Fluorescens & Vigour

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