

Effect of Seed Priming with Micronutrients on Germination of Coriander (*Coriandrum sativum* L.) var Jawahar Dhaniya-1

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ABSTRACT: In order to evaluate the effects of seed priming with micronutrients on germination performance of the Coriander, an experiment was carried out under laboratory condition at the Department of Horticulture, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh during Rabi season of 2020-2021. The experiment was laid out in Completely Randomized Design (CRD) with three replications and seven treatments viz. Cu @ 150 ppm, Cu @ 300 ppm, Cu @ 450 ppm, Mn @ 150 ppm, Mn @ 300 ppm, Mn @ 450 ppm and control. On the basis of mean performance for germination parameters viz., germination percentage, mean germination time, shoot length, root length, vigour index-I and vigour index-II, seed priming with 450 ppm Manganese significantly influenced all the germination parameters. Seed priming had significantly improved the germination parameters and seedling vigour. As the major constraints in successful crop production are poor germination and inappropriate crop stand which can be mitigated by the use of seed priming.

Keywords: Micronutrients, germination parameters, Manganese, mitigated etc.

INTRODUCTION

Spices apart from adding rich flavour, taste and colour to the food also has medicinal values. Coriander (*Coriandrum sativum* L.) also known as *Cilantro*, Chinese parsley or *Dhaniya* is one the important spice crop utilized daily in one form or the other. It belongs to the family Apiaceae and is native of Mediterranean region. It is an annual herbaceous plant best grown between October and February. In early stage of growth, the plant requires a cool climate and warm weather at maturity. It's tender aerial parts stem, leaf, fruits are used due to aromatic flavour. The entire plant when young is used in preparing chutneys and sauces. Coriander seeds possess immense medicinal values. Oleoresin extracted from coriander seeds is used in flavouring beverages, pickles and sweets. The crop is grown almost all the states of the country but Madhya Pradesh, Rajasthan, Gujarat, Assam, West Bengal, Uttar Pradesh and Andhra Pradesh are the major coriander growing states. Madhya Pradesh produces quality coriander and enjoys major share in area and production in the country. Madhya Pradesh is the leading state in area and production of seed coriander

with 274475.47 ha and 373347.99 MT production respectively (Anonymous, 2020).

Rapid germination, emergence of seedlings establishment and uniform crop stand are essential for successful crop establishment. But the major constraints in successful crop production in Coriander are poor germination and inappropriate crop stand. This problem can be curtailed by adding seed priming in production practice (Chivasa *et al.*, 1998). Seed priming is a physiological method of controlled hydration followed by drying up to its original moisture content. The main aim behind seed priming is to enhance sufficient pre-germination metabolic process for rapid germination (Dawood, 2018). It is a simple, effective and low cost technique to ensure uniform emergence and high vigour of seeds which is leading to better crop establishment and yield. The quality of seed can also be enhanced by seed priming. Munawar *et al.* (2013) conducted a field experiment to study the effect of seed priming on germination and establishment of seedlings in carrot. Three micronutrients i.e. Zn, Mn and B in different concentration were used for priming. Significant differences were observed among treatments for emergence percentage and other seedling traits observed. Seed priming with boron solution inhibited

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