

ECOFRIENDLY METHOD FOR SEED INVIGOURATION OF A MUNG BEAN (VIGNA RADIATA L. CV-PDM 84-139) CULTIVAR

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Keeping in mind the problem of seed storage an attempt was made to invigourate seeds of a low vigour mung bean (Vigna radiata L. cv. PDM 84-139) species in ambient untoward storage condition prevailing in West Bengal mainly due to high temperature and high relative humidity. An ecofriendly and low cost herbal manipulative method was devised for such invigouration, using Ocimum sanctum and Aegle marmelos leaf extracts. And accelerated ageing technique was employed for accurate and expeditious evaluation of enhanced vigour status of the experimental seeds. Several physiobiochemical parameters like seed germination behavior, leaching of electrolytes, soluble carbohydrate and nitrogen as well as activities of catalase and dehydrogenase were considered as reliable indices for evaluation of seed invigouration. An inference was made from this work that the selected herbal agents are potential enough for invigouration of seeds of the test crop species.
