

# AN ASSESSMENT OF IMPACT OF GROUND WATER IRRIGATION ON SEED VIABILITY OF PADDY CROP (*ORYZA SATIVA* L.)

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**Abstract:** The present paper deals with the effect of groundwater irrigation along with Ram Ganga river water and sewage water irrigation on seed viability of paddy crop. The water samples have been collected from four different locations of district Bareilly viz. Rampur road, Lucknow road, Pilibhit road and Budaun road. Three varieties of paddy crop viz. Resham Basmati, Pakistani Basmati and Indrasan were taken as test crops. Seeds of these varieties were obtained from National seed corporation Bareilly. Seeds of all three varieties were irrigated by ground water samples taken from different sites. After that all the seeds are subjected to the Tetrazolium (TZ) test to find out the seed viability of each variety of paddy crop. In all the three varieties of paddy crop irrigation with ground water of Rampur road has given the highest seed viability over control, whereas ground water of Budaun road has reduced the seed viability of Paddy crop.

**Key words:** Seed viability, Ground water, *Oryza sativa*

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