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RESEARCH PAPER

Effect of *Rhizobium*, different levels of phosphorus and sulphur on growth and yield of *Vigna radiata* L. cv. PUSA BESAKHI

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Abstract : The experiment was laid out in a Factorial Randomized Block Design with twelve treatments and replicated thrice. Results indicate that the seed inoculation with *Rhizobium* showed some good results increasing numbers of nodules and uptake of nutrients due to inoculation. Significant effects were observed in plants growth attributes due to presence of phosphorus and uptake of phosphorus increased due to presence of sulphur @ 20kg ha^{-1} ultimately resulting in good yield. However, plant heights (66.00cm), Number of branches $plant^{-1}$ (4.82), Number of nodules $plant^{-1}$ (5.83), Number of grains pod^{-1} (12.56), test weight (51.03g) and grain yield (12.39 q/ha) were found significantly affected by the application of *Rhizobium* inoculation, application of 45kg phosphorus through DAP and 20kg sulphur through Gypsum ha^{-1}. Cost benefit ratio was also found (2.22) on higher side.

Key Words : Mungbean, RBD, *Rhizobium*, Sulphur, Plant parameter

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