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# Effectiveness of fertilizer doses, liming and *Rhizobium* inoculation in vegetable pea under acidic soil of Jharkhand

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**ABSTRACT :** Present experiment was conducted in participatory mode in farmers' field of Garhwa district of Jharkhand during *Rabi* 2011-12. The treatments included farmers' practice *i.e.* application of NPK @ 13:35:0 kg/ha ($TO_1$), application of recommended dose of NPK @25:50:30 kg/ha ($TO_2$) and application of recommended dose of NPK along with lime @3.0 quintals per hectare and *Rhizobium* (*R. leguminosarum*) culture inoculation as seed treatment @ 5.0 g/kg seed ($TO_3$). The results exhibited that $TO_3$ resulted in appreciable profitability (3.48) as compared to recommended dose of fertilizers (3.27). Therefore, application of recommended dose of fertilizers + liming + *Rhizobium* inoculation is an advisable technology in agro-economic conditions of Jharkhand.

**KEY WORDS :** Vegetable pea, *Rhizobium leguminosarum*, Liming, *Pisum sativum*, Root nudulation

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