

Productivity enhancement of pigeon pea through improved production technologies

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ABSTRACT : Front line demonstrations of Pigeon pea conducted on the selected farmers' fields of Sidhi district under Kymore plateau and satpura hills agro climatic zone of Madhya Pradesh during four years from 2009-10 to 2013-14 were carried out in area of 20 ha by active participation of farmers with objective to demonstrate the improved technologies of Pigeon pea production potential. The improved technologies consisting use of modern variety, seed treatment with rhizobium and PSB culture, balance fertilizer application and integrated pest management. Results revealed that the seed yield, number of pods per plant and 100 grain weight of Pigeon pea (1088 kg/ha, 161.5/plant and 10.13 gram) were obtained under improved technology over to farmer's practices (894 kg/ha, 117.51/plant and 9.33 gram) thus, there were 42.6, 37.76 and 8.61% more seed yield/ha, number of pods/plant and 100 grain weight, respectively under improved production technology as compared to local check. In spite of increase in seed yield of Pigeon pea, technology gap, extension gap and technology index existed. The improved production technology gave higher gross return, net return with higher benefit-cost ratio as farmer's practices.

Key Words : Extension gap, pigeon pea, technology gap, technology index, yield.