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Impact of front line demonstration on production technology of onion in Raisen district of Madhya Pradesh

Swapnil Dubey and P.K. Dwivedi

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ABSTRACT : The front line demonstration on production technology of onion was conducted for four years (2009-2010 to 2012-2013) on farmer's field of 3 adopted villages of Raisen district in *Kharif* season. The materials used for the study comprised of N-53, Agrifound dark red as well as local variety as check. The improved package of practices *viz* improved variety N-53 and ADR, seed treatment, planting, recommended dose of fertilizers, plant protection management were demonstrated on the farmers field. The results of these demonstration revealed that the variety ADR and N-53 yielded 63.55 percent and 40.58 percent higher yield than local variety sown under farmer practices. Agrifound dark red variety recorded higher yield (23.45 t/ha) as compare to N-53 (14.95 t/ha). The technology gap was highest in ADR (6.55 t/ha) compared to N-53 (5.05 t/ha) and the higher extension gap of (9.10 t/ha) was recorded in the variety ADR compared to N-53 (4.25 t/ha). The economic analysis of the data over the year revealed that Agrifound dark red variety recorded higher gross return (Rs. 46900/ha), net return (Rs. 29325/ha) and B: C Ratio (1:3.02) compared to N-53 and local variety. The technology index value was minimum in ADR (21.83%) compared to N-53 (25.25%), suggesting the superiority and feasibility of ADR variety over others.

Key Words: Onion, *Allium cepa*, ADR, N-53, technology gap, extension gap, frontline demonstration, economics.