

TECHNO-ECONOMIC FEASIBILITY OF SOLAR POWERED DRIP IRRIGATION FOR TOMATO (*SOLANUM LYCOPERSICUM*)

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ABSTRACT

The field investigation was conducted during rabi 2016-2017 with Arka vikas variety of tomato to assess the economic feasibility of solar powered drip irrigation system. The experiment was conducted with eight treatments replicated thrice and was laid out in split plot design. The result showed that highest yield of tomato was obtained in 80 percent ETc using 1.6 lph dripper discharge rate than any other treatment. The lowest yield was obtained at 100 ETc with 4.0 lph dripper discharge rate. The highest net returns and B: C ratio was obtained in 80 percent ETc with a 1.6 lph discharge rate.

KEYWORDS: *Economic Feasibility, Solar Power, Discharge Rate*

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