Drip irrigation system–Design scheduling and cost estimation for guava orchard

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ABSTRACT: Irrigation system was designed for guava orchard for 100 x 100 m of land in Mahgaon in Kaushambi district. In the guava crop the total water requirement of the system for one irrigation was less for drip, since evaporation losses were negligible. It finally reduced the total dynamic head and pump capacity to run the system, which led to reduce the estimated cost of drip irrigation system compared to sprinkler irrigation system. It was also found for the crops in view of water requirement irrigation efficiency, pump power, estimated cost maintenance and labour requirement.

Key Words: Drip irrigation, irrigation efficiency, water requirement, dynamic head, evaporation, orchard pump.