

## **APPLICATION OF ZERO ONE MODEL FOR WATER DISTRIBUTION SCHEDULE IN AN IRRIGATION PROJECT**

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### **ABSTRACT**

This paper gives the application of Zero One Programming Model suggested by Ramesh et al. (2009) for the efficient use of irrigation water taking into the consideration of water management in terms of timely delivery of irrigation water into the fields with minimization of irrigation water losses. Scheduling of canals is an important activity whose outcome comes into the form of increase in crop production and effective and efficient utilization of water. Irrigation scheduling comprises in fulfilling the need of irrigation water in a systematic way as per the demand of the user. The present study is based on Mixed Integer Linear Programming technique for doing day wise scheduling of irrigation water. The distributaries of the Left Bank Main Canal Network of Man Irrigation Project are used to run at constant supply as per the irrigation water demand at each rotation for the entire base period of each crops.

**KEYWORDS:** Canals Irrigation Optimization Scheduling, Water