

**a) Researcher's Identity**

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**b) Research Objectives**

The main objectives of the adaptive research were to develop appropriate distribution system and channel lining technique with specific importance on the following 4-fold conditions;

**Simplicity:** The farmers should be able to easily understand the technique.

**Durability:** The lining should be able to withstand foot-loan of the draft animals, require minimum maintenance and remain in good condition for at least 10 years.

**Low Cost:** The cost of lining should remain within the investment capacity of the farmers.

**Adaptability:** The irrigation system and the lining technique should be able to attract the farmers in order to create conditions for replication the farmers' field.

**c) Executive summary**

1. The results of the experiment on distribution system in Shilkour Village indicate that the procedure has been well understood, accepted and practised by the farmers. The result has been quite encouraging. It helps to minimise the social, economic and technical problems to a larger extent. The 7day rotational block irrigation and pumpengine maintenance procedure also help to reduce the water distribution and mechanical problems. Therefore, this system should be introduced at least under selected to DTWs for onfarm observations in order to draw an end result.

2. The results of the experiment on Soil-Sand-Cement Lining in Shilkour Village indicate that the lining technique incur least cost, reduce water loss and help to increase the command area but not durable and require extensive repair every year. It is expected that more thickness of the lining will make the lined channel more durable. Therefore, experiment has been continuing to draw an end result.
3. The result of the experiment on Precast Cement Concrete Slab Lined Channel in Academy Farm has been of excellent quality, cost effective, durable and attractive to the farmers.

Therefore, this technique should receive favourable consideration for on-farm implementation in the country.