

THESIS

CALIBRATION OF AN AUTOMATIC DROP GATE FOR SURGE IRRIGATION

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(95-PG-WRE-16)

For the Degree of

Master of Philosophy

In

WATER RESOURCES ENGINEERING

CENTRE OF EXCELLENCE IN WATER RESOURCES ENGINEERING

UNIVERSITY OF ENGINEERING AND TECHNOLOGY,

LAHORE, PAKISTAN

1999

ABSTRACT

CALIBRATION OF AN AUTOMATIC DROP GATE FOR SURGE IRRIGATION

Surge irrigation is an improved surface irrigation technique which needs automation for the application of measured quantity of water in successive time intervals. For this, an automatic drop gate was fabricated and tested in the laboratory for its performance evaluation under different operating conditions. The head-discharge relations were developed by applying regression analysis. Weir type equations were found to be a good representative of head-discharge relationships.

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