

## ABSTRACT

### **EVALUATION OF IRRIGATION PERFORMANCE AT TERTIARY LEVELS OF SEKAMPUNG BATANGHARI IRRIGATION AREAS IN THE IRRIGATION IMPLEMENTATION UNIT OF METRO CITY**

By

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This study aimed to determine the effectiveness of irrigation network performance (effectiveness and efficiency) at tertiary level of Sekampung Batanghari Irrigation Areas in the irrigation implementation unit of Metro City. The study was conducted at tertiary level irrigation in Sekampung Batanghari irrigation areas on KBH 5 Ki 2 (upstream), KBH 6 Ki (middle), and KBH 7A Ki (downstream). The instrument that used in this research were current meter, stopwatch, Sekampung Batanghari Irrigation Areas map, and secondary of data. The study was conducted using secondary data collection methods and measurement directly on the field. The result showed that (1) the performance of irrigation in UPT Metro City irrigation were less effective, because the value of  $KS = 58,27-95,36$  m/ha and  $KB = 0,16-0,26$  unit/ha although the average of value were match in standard of  $KS = 50-100$  m/ha dan  $KB = 0,11-0,40$  unit/ha, but posses too excessive of difficulties irrigation fabric value from standard of  $\beta = 2,21-2,50$  ruas/bak bagi and  $\theta = 500-1000$  m/bak bagi, with the average value were 2,53 ruas/bak bagi dan 1146,08 m/bak bagi, (2) the efficiency of water delivery at tertiary level irrigation in Metro City that classified as optimal, there is 81,23 % (still under the preliminary draft, there is 85 %).

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Keywords : *Effectiveness of performance, Irrigation network, Metro City, Sekampung Batanghari*

