Abstract

Irrigation Bollu administratively located in the district of Ponorogo which includes 3 (three) District, namely Jenangan District, District and Sub Babadan Ponorogo. Irrigation Bollu use of water resources through the weir Bollu Salt Kali as the water catcher. Bollu weir drain water by gravity system to irrigate the agricultural land area of ± 3938 ha. The species that exist on Irrigation Bollu consists of rice, pulses and sugarcane with the existing cropping pattern today is rice / crops - rice / crop - rice / crops and sugarcane. Conditions Irrigation cropping pattern in the current Bollu namely paddy / crops-paddy / crops-paddy / crops and sugar cane cropping intensity by 291%. To be able to increase agricultural production with the available discharge, necessary changes in cropping patterns and also the addition of the well pump discharge to the procurement, the addition of fertilizer and irrigation repairs or improvements of existing buildings.

By implementing a plan of exploitation and maintenance of the well and properly is expected to increase agricultural production, enhance economic growth, increase farmers' income and optimization of the utilization of water resources.
From the calculation results and analysis will be able to increase cropping intensity to 300% in one year with the planting of rice - rice / crops – rice / crops and sugarcane. With the increase in cropping intensity is automatically productions will increase.

Then if the terms of the technical economics as well as improvements. From the existing data while the BCR of 1.25 achieved in the plan would reach 1.43. The above matters will be realized if supported by adequate human resources and sufficient funding, so that the management of exploitation and maintenance can be carried out properly.

Keyword ; Debit; Need water; Design to plant.