OPERATING AND MAINTENANCE OF IRRIGATION DISTRICT BEDADUNG II (PRIMARY EAST) DISTRICT JEMBER

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Abstract

Irrigation areas Bedadung II (Primary East) is located in Jember East Java, and has an area of 6278 ha. Early planting in irrigated area Bedadung II (primary east) start from the beginning of November to the type of rice, and sugar cane crops. However, not all areas can be cultivated to its full potential. Damage to irrigation channel and building support, equitable distribution of water is less and less cropping pattern setting up a major factor. Thus, not all farms are located in Region II irrigation Bedadung (primary east) of arable land and cropping intensity only reaches 283%.

These problems, it is necessary operational and maintenance on the irrigation area Bedadung II (Primary East). To increase the cropping pattern to the existing intake discharge, changes in cropping pattern should be done by calculating the water requirements of each crop and the area planted with the calculation of Climatology and FPR method (Relative Crop Factor), as well as the need for proper maintenance and repairs. So that the crop water requirements can be fulfilled optimally. Maintenance can be done by normalizing the channel and supporting.
Improvement to the building. As a measure that the project is feasible or not, need to be taken into account the BCR (Benefit Cost Ratio), which must be greater than one (BCR > 1). From the calculation of the two values obtained BCR, namely that the existing BCR and BCR reaches 1.18 with a plan value of 1.44. Of planning the operational and maintenance of irrigation Bedadung Region II (Primary East) Jember district, is expected to increase cropping intensity and crop production in East Java, especially Jember.

Key words:

Operating, Maintenance area Irrigated Bedadung II District Jember