OPERATION PLANNING AND TREATMENT
IRIGATION NETWORK OF IRIGATION AREA
PORONG KANAL DISTRICT SIDOARJO EAST JAVA

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Abstrak
Irrigation Network of irrigated Porong Canal areas located in irrigated areas in Sidoarjo district with an area of 11 059 ha of paddy in Porong main crude irrigation canals. By exploiting the Brantas water Porong Weir took from New Lengkong. Porong Canal irrigation in irrigated areas have been prepared so that the water shortage problem in the network can be given in the dry season. By executing Operation and Treatment of Irrigation Canal in Porong capable of functioning of the channel and expect the existing waterworks effectively in accordance with the requirements, thus expected to increase farm productivity. With sufficient discharge conditions, per season cropping pattern is divided into three periods of planting time:

1. planting time I : rices, crops, sugar cane, fish pond (in the month October – January).
2. planting time II : rices, crops, sugar cane, fish pond (in the month February – May).
3. planting time III : rices, crops, sugar cane, fish pond (in the month June – September).
In order to increase agricultural production with the discharge data available, need to change the cropping pattern with the calculation of the FPR and the provision of water in turns.

It also needs to be normalized and channel improvements and the buildings that needed repairs and improvements to the facility Operations and Treatment.

From the implementation of Operation and Maintenance of Irrigation Canal in irrigated Porong areas producing BCR plan smaller than BCR existing.

With the optimal use of water and operational planning and maintenance in good and true, then the crop is expected to increase to maximum. So Irrigation Canal Porong in irrigated areas can meet the needs of food self-sufficiency in the region, especially the area of Sidoarjo, East Java.