

Storage height optimization of Chamravattom regulator-cum-bridge, Kerala

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■ **ABSTRACT** : Water scarcity is an alarming problem that we face now-a-days. Even though we have abundant sources of water, good quality water is not available when most needed. There comes the relevance of water conservation structures. Allocation of water in case of multipurpose projects among various competing needs such as drinking water, irrigation, industrial demands, downstream release, pisciculture etc. is a matter of great concern. Hence reservoirs must be subjected to thorough analysis to see that each drop of water impounded is utilized in the best possible manner. So a study was undertaken for the proposed Regulator-Cum-Bridge (RCB) on Bharathapuzha River at Chamravattom in Malappuram district of Kerala, with the specific objective of determining the optimum storage height of the regulator. The storage height was optimized by considering the inflow and demands on the reservoir for 18 years data. The height was decided as six meters as it gave least deficit when compared to four and five meters.

■ **KEY WORDS** : Optimization, Storage height, Regulator-Cum-Bridge

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