

## Assessment of wadi distributory of WRP with MIKE11

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■ **ABSTRACT** : A research project entitled as hydraulic assessment of Wadi distributory of Wan River Project using MIKE 11' was undertaken with the objective to assess the hydraulic performance of Wadi distributory using validated MIKE 11 model. The MIKE 11 model was calibrated and validated for the period December 2007 to April 2008 and December 2008 to March 2009. The average discharge variation was found to be 4.34 per cent, while Nash Sutcliffe co-efficient, RMSE and co-efficient of determination was found to be 0.92, 0.0263 m<sup>3</sup>/s and 0.94, respectively. Water delivery performance ratio was calculated for the validation period. Average decline in the average WDPR was from 1.0 to 0.72, 0.72 to 0.68 and 0.68 to 0.64 for head, middle and tail reaches, respectively along the canal path.

■ **KEY WORDS** : Unsteady flow, 1-dimensional flow, Rivers modeling, MIKE 11 HD

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