International J. of Engg. Research & Indu. Appls. (IJERIA). ISSN 0974-1518, Vol. 5, No. II (May 2012), pp 89-98

DEVELOPMENT OF RULE CURVE FOR RAVISHANKAR SAGAR RESERVOIR BY SIMULATION

S. K. JAISWAL^a, M. K. VERMA^b, MOHAN GUPTA^c ^a Department of Civil Engineering, B.I.T. Durg (CG), 491001, India. ^b Department of Civil Engineering, N.I.T. Raipur (CG), 492010, India. ^c Department of Civil Engineering, B.I.T. Durg (CG), 491001, India.

Abstract

A rule curve for operation of Ravishankar Sagar Reservoir using simulation technique has been developed and presented in this paper. Ravishankar Sagar Reservoir is one of the reservoirs of the Mahanadi Reservoir Project (MRP) Complex. A rule curve indicates the desired reservoir release and storage volume at a given time. Simulation is a very powerful technique in analyzing complex water resource system in detail for performance evaluation. Simulation software MIKE BASIN (2009) has been used for analysis in this work. MIKE BASIN has extensive reservoir modelling capabilities. For reservoir operation an efficient model has been developed and this model has been used for development of rule curve for Ravishankar Sagar Reservoir.

Keywords: Rule curve, Ravishankar reservoir, Simulation.

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