











- opportunities, Tata McGraw-Hill publishing company Ltd., New Delhi, India
- [3] Chow, VT, Maidment DR, and Mays LW. (1988). Applied Hydrology. McGraw-Hill, New York.
- [4] Diro SB, and Tilahun K (2009). Evaluation of the FAO CROPWAT model for deficit irrigation scheduling for onion crop in a semiarid region of Ethiopia. *Journal of Applied Horticulture*, 11(2): 103-106
- [5] Doria R, Madramootoo AC, and Mehdi BB (2006). Estimation of future crop water requirements for 2020 and 2050 using CROPWAT EIC Climate Change technology, IEEE: 1-6.
- [6] Dorge SK and Wankhede SD (1987). Salient features of Nala Bunding works in Maharashtra State. *Indian J. of Soil Conservation*. 15(3): 32.
- [7] FAO, (2015) AQUASTAT, FAO's global water information system, Rome
- [8] Gasimov RN, and Yenilmez K (2002). Solving fuzzy linear programming problems with linear membership functions. *Journal of Math Turk* 26: 375-396.
- [9] Klir GJ, and Yuan B. (2007). Fuzzy sets and fuzzy logic theory and applications. Prentice Hall of India Private Limited, New Delhi.
- [10] Malikarjunappa G, Maurya DS and Begaumi MJ (1992). Impact of water harvesting structure (Nala bund) on ground water recharge. *Indian J. of Soil Conservation*. 20(3): 65-71.
- [11] Mirajkar AB and Patel PL (2011). A fuzzy based optimal irrigation planning for Kakrapar right bank canal command area, Gujarat, India. Indian Society for Hydraulics. *Journal of Hydraulic Engineering* 17(3): 43-50
- [12] Raja W (1981). Validation of CROPWAT 8.0 for estimation of reference evapotranspiration using Limited climatic Data under temperate conditions of Kashmir. *Science*, (80):1(4).
- [13] Raja W (2010). Validation of CROPWAT 8.0 for estimation of reference evapotranspiration using limited climatic data under temperate conditions of Kashmir. *Research J. of Agricultural Sciences*, 1(4): 338-340.
- [14] Regulwar DG, Anand RP (2009). Multi-objective multi-reservoir optimization in fuzzy environment for river sub basin development and management. *Journal of Water Resource and Protection* 4: 271-280
- [15] Roy D, Begam S, Ghosh S and Jana S. (2013). Calibration and validation of HEC-HMS model for a river basin in Eastern India. *ARPN Journal of Engineering and Applied Sciences*. 8 (1): 40-56.
- [16] Sahoo B, Lohani AK, and Sahu RK. (2006). Fuzzy multi-objective and linear programming based management models for optimal land water crop system planning. *Journal of Water Resources Management* 20: 931-948
- [17] Sahu RK, Katre P, and Tripathi MP (2003). Alleviation of drought through water harvesting in Chhattisgarh. in book 'Watershed Management' Ed. V. P. Singh and R. N. Yadav, Allied Publishers Pvt. Ltd., Mumbai
- [18] Sanmani Singh (1999). Evaluation of cement Nala Plugs. Unpublished B. Tech. Thesis. Submitted to M.A.U., Parbhani
- [19] Saravanan K and Sarvanan R (2014). Determination of water requirements of main crops in the tank irrigation command area using CROPWAT 8.0. *International J. of Interdisciplinary and Multidisciplinary Studies*, 1(5): 266-272.
- [20] Smith M and Kivumbi D (2003). Use of the FAO CROPWAT model in deficit irrigation studies, FAO Water report, Series 22:109
- [21] Srinivasa RK, Duckstein L. (2003). Multi-objective fuzzy linear programming for sustainable irrigation planning: An Indian case study. *Journal of Soft Computing* : 412-418
- [22] Swaminathan MS (2006). Report of Sub-Committee on 'More crop and income per drop of water', Advisory Council on Artificial Recharge of Ground Water, *Ministry of Water Resources, Govt. of India*: 1-57
- [23] Werners B (1987). An interactive fuzzy linear programming system. *Journal of Fuzzy Sets and Systems* 23: 131-147
- [24] Zimmermann HJ. (1978). Fuzzy programming and linear programming with several objective functions. *Journal of Fuzzy Sets and Systems* 1: 45-55.