

Profile of Scientist



1. **Name of the Scientist:** Rajendra Gupta
2. **Personal biodata:**
 - a) **Position/Designation:** Senior Scientist (S&WC Engg.)
 - b) **Joining date in ICAR:** 18.02.1986
 - c) **Discipline and Specilization:** Soil and Water Conservation Engineering
 - d) **Training/advance exposure in the area of work:**
 - Three days training on IPR&WTO to NARS Scientists
 - Winter school on Advanced Techniques and Their Application in Water Management Research
 - e) **Contribution to the Scientific advancement (in about five bullets):**
 - Trash mulching application moderated the fluctuations in rhizospheric soil temperatures.
 - Developed one sub-soiler suitable for sub-soiling in sugarcane fields.
 - Evaluated irrigation efficiencies of different irrigation methods for sugarcane.
 - Developed non-weighing type lysimeters for studying water requirement of sugarcane.
 - Developed potato-cum-sugarcane planter for simultaneous planting of sugarcane and potato in FIRB system of planting.
3. **Future Planning of research(in bullets):**
 - Technology development for use of industrial and domestic effluent for sugarcane irrigation.
 - Development of innovative water saving technologies.
 - Devising methods for increasing efficiencies of surface methods of irrigation.
4. **Publications (best five):**
 1. Srivastava A.C. and **Gupta Rajendra** (1990). Feasibility of using trash and straw as a thermal insulator . Biological wastes. 33(1):63-65.
 2. **Gupta Rajendra** and Tripathi SK 1998 Scheduling of irrigation for sugarcane (*Saccharum officinarum*) Indian J. Agric. Sciences. 68 (10) : 647 – 51.

3. **Gupta, Rajendra** and Khan, M.Z. 2007. Water retention characteristics and available water holding capacity of sodic sandy loam, silt loam and clay loam soils as affected by distillery effluent and gypsum. J. Indian Soc. Water Manage. 15(1): 1-12.
 4. Kumar R., Yadav, R.L., **Gupta Rajendra** and Yadav, D.V. 2008. Planning of sugarcane crop vis-à-vis soils and climate for sustainable sugar productivity in India. Sugarcane International. 26(6): 15-23.
 5. **Gupta, Rajendra** and Khan, M.Z. 2009. Evaluation of distillery effluent application effect on physico-chemical properties and exchangeable sodium content of sodic soil. Sugar Tech. 11(4): 330-337.
5. **Other relevant activities of Scientist:**
- Looking after maintenance and operation of tube wells and irrigation water distribution system of the Institute.
 - Working as member of the Farm Advisory Committee of the Institute.