

Profile

Dr. R.S. Chaudhary



Designation: Principal Scientist & Head
Division of Soil Physics

☎ [+91-755-2730970 (111),
Fax: +91-755-2733310]

✉ [rschaudhary6691@gmail.com;
Ranjeet.Chaudhary@icar.gov.in]

Research specialization:

- Conservation agriculture, Soil Quality assessment and Management.
- Watershed development and Management, climate change, carbon sequestration.
- Assessment of soil health using MIR spectroscopy.
- Natural resource conservation, with the main focus on *conservation and efficient use of soil, water and nutrient resources on sustainable basis*
- conserving rainwater through lining of farm ponds with anti-seepage polyethylene films.
- Above research and development works carried out in different agro ecological regions of India, right from north western Himalayan region through red lateritic soils of Eastern Ghat High land Zone, Odisha and Vertisols of Central, West and South India.

Professional Experience:

An experience of 33 years while working in above said research areas. Published more than 60 research papers of national and international repute, 12 books, bulletins and text books, 50 book chapters and papers in conference/seminar symposia proceedings. Having experience of working in international soil laboratory of ICRAF, Nairobi, Kenya, on soil spectroscopy. Attended many national and international seminar/symposium. Handled more than 30 projects as PI and Co Pi. About 10 years' experience as Head of Division.

Awards and Honours:

1. International “Doreen Mashler Award- 2006” given by ICRISAT (CGIAR instt.), Patancheru, Hyderabad - A team award for Participatory Watershed Development in Semi Arid Tropics.
2. “Bhaarat Jyoti Award -2012” by India International Friendship Society, New Delhi, for the professional achievements in Agriculture. 2012
3. “Reviewer Excellence Award -2016 ” ARCC, Karnal (Haryana).
4. Nominated as Advisor to ASRB, New Delhi, 3 times.
5. Nominated as Advisor to RPSC, Ajmer, Rajasthan, 2 times.
6. Nominated as External Evaluator of CAPART, New Delhi funded Soil and Water development projects in India.

Top Ten publications:

- 1 **Chaudhary, R.S.** and Acharya C.L.(1993). A comparison of evaporative losses from soil of different tilths and under mulch after harvest of rice. *Soil & Tillage Research*, 28: 191-199.
- 2 **Chaudhary, R.S.** and Acharya, C.L.(1996). Structural variations between freshly drawn and air-dried soil samples during puddled rice growth. *Journal of Indian Society of Soil Science*, 44 (2): 206 - 208.
- 3 **Chaudhary, R.S.** and Sharma, P.D. (1998). Erosion hazard assessment and treatment prioritization of Giri river catchment in Northwestern Himalayas. *Indian J. Soil Conservation* 26(1): 6 - 11.
- 4 **Chaudhary, R.S.** and Sharma, P.D. (1999). Runoff and sediment yield from Giri river catchment in Himachal Pradesh. *Indian J. Soil Conservation*, 27 (1): 1-9.
- 5 **Chaudhary, R. S.**, Gadekar, H. and Patnaik, U.S. (1999). Erodibility under different land uses in selected soils of Eastern Ghat High Land Zone. *Indian J. Soil Conservation*, 22 (2): 118- 121.
- 6 **Chaudhary, R.S.**, Das, A. and Patnaik, U.S. (2003). Efficacy of mulches to conserve monsoonal moisture for Rabi crops. *J. Indian Soc. Soil Science*, 51 (4): 495-498.
- 7 **Chaudhary, R.S.**, Anchal das and Patnaik, U.S. (2003). Organic farming for vegetable production using vermicompost and FYM in Kokriguda watershed. *Indian J. Soil Cons.*, 31 (2): 203-206.
- 8 **Chaudhary, R.S.**, Somasundaram, J., Mandal, K.G. and Hati, K.M. (2018). Enhancing Water and Phosphorus Use Efficiency through Moisture Conservation Practices and Optimum Phosphorus Application in Rainfed Maize-Chickpea System in Vertisols of Central India. *Agricultural Research*, 7 (2): 176-186. DOI 10.1007/s40003-018-0316-8. ISSN 2249-720X.
- 9 **Chaudhary, R.S.**, Acharya, C.L., Hati, K.M., Somasundaram, J., Mohanty, M., Sinha, N. K., Patra, A.K. and Chaudhari, S.K. (2018). Advancements in Soil Physics and its impact on Sustainable Agriculture. *Journal of Agricultural Physics*. Vol. 18, No. 8, pp. 0-0 (2018).
- 10 Singh, R.K, **Chaudhary, R.S.**, Somasundaram, J., Sinha, N.K., Mohanty, M., Hati, K.M., Rashmi, I., Patra, A.K., Chaudhari, S.K. and Lal, R. (2020). Soil and nutrients losses under different crop covers in Vertisols of Central India. *Journal of Soil and Sediments*. 20:609-620.