

Profile

Dr. Brij Lal Lakaria



Designation: Principal Scientist
Division of Soil Chemistry and Fertility

☎ [+91-755-2730970 (Extn),
Fax: +91-755-2733310]
✉ [lakaria2001@gmail.com;
Brij.Lakaria@icar.gov.in]

Research specialization:

- Soil Carbon sequestration
- Soil carbon pool dynamics
- Biochar for carbon sequestration and climate change mitigation
- Integrated nutrient management and conservation agriculture
- Natural Resource Management
- Watershed Management
- Potassium research

Professional Experience:

I have more than 22 years experience in research and training in the field of natural resource management. I have contributed on different aspects of soil health and soil carbon sequestration. I Initiated studies on biochar on soil and crops at IISS Bhopal. I assess the carbon pool dynamics under different INM modules and was associated in development of prediction model for total organic carbon content and available N in soil. I have been actively involved in development of model watershed at Madhya Pradesh and contributed immensely in assessment of soil erosion hazards in the states of Madhya Pradesh and Chhatisgarh and established soil loss tolerance limits and computed permissible soil erosion rates maps for central India. I also assessed different USLE parameters as well as agronomic and mechanical measures with respect to soil, runoff and nutrient losses in Madhya Pradesh and Chhatisgarh states. I have guided more than 10 M.Sc. and Ph.D. Students.

Awards and Honours:

- **"ISSS-Dr. JSP Yadav Award for Excellence in Soil Science"** in October, 2016 from the Indian Society of Soil Science, New Delhi.
- **Fellow of the Indian Association of Soil and water Conservationists, Dehradun** for the year 2017.
- ICAR Merit Scholarship for doctoral programme at IARI, New Delhi

- College merit scholarships during B.Sc. and M.Sc. (Soil Science) at HPKV, Palampur.
- **Editor**, Indian Journal of Soil and Water Conservation, Indian Association of Soil and Water conservationists, Dehradun wef. 2018
- **“Reviewer Excellence Award”** from Legume Research- An International Journal, Agricultural Research Communication Centre (ARCC) in November, 2016
- **Certificate of Honor** for support to Agri Clinic and agri Business Scheme of MANAGE, GOI by IECCI (Indo European Chamber of Commerce and Industry), Bhopal.
- **Treasurer** and Secretary of the Bhopal Chapter of Indian Society of Soil Science 2010-2011.
- **Councillor** of the Indian Society of Soil Science, New Delhi for the Biennium 2012 and 2013.

Top Ten publications:

1. **Brij Lal Lakaria**, H.Biswas and D. Mandal. 2008. Soil loss tolerance values for different physiographic regions of Central India. *Soil Use & Management*, 24: 192-198.
2. **Brij Lal Lakaria**, Muneshwar Singh, K. Sammi Reddy, A.K. Biswas, Pramod Jha, R.S. Chaudhary and A.B. Singh 2012 Carbon addition and storage under integrated nutrient management in soybean-wheat cropping sequence in a vertisol of central India. *National Academy Science Letters*, 35:131-137.
3. **Brij Lal Lakaria**, S.K. Behera and Dhyan Singh. 2012. Different forms of potassium and their contributions toward potassium uptake under long-term maize (*Zea mays* L.)–wheat (*Triticum aestivum* L.)–cowpea (*Vigna unguiculata* L.) rotation on an Inceptisol. *Communications in Soil Science and Plant Analysis*, 43:1–12, 2012.
4. **Brij Lal Lakaria**, Annunita Mukherjee, Pramod Jha and A.K. Biswas (2012) Soil Carbon mineralization as affected by land use systems and water regimes. *Journal of the Indian Society of Soil Science* 60(1): 71-73.
5. **Brij Lal Lakaria**, Dev Narayan, H. Biswas, Sant Raj, Pramod Jha and J. Somasundaram (2012) Water conservation efficiency of prominent kharif crops in Bundelkhand region. *Indian Journal of Soil Conservation* 40(3): 231-235.
6. **Brij Lal Lakaria**, Manish Patne, Pramod Jha and A.K. Biswas (2012) Soil organic carbon pools and indices under different land use systems in Vertisols of Central India. *Journal of the Indian Society of Soil Science* 60(2): 125-131.
7. **Brij Lal Lakaria**, H.Biswas and D. Mandal. 2010. Permissible soil erosion limits under different landscapes of Chhattisgarh state. *Indian Journal of Soil Conservation*. 38(3) : 148-154.
8. **Brij Lal**, D. Singh and A.R.Chinchmalatpure. 2005. Effect of long term fertilizer use and intensive cropping on various forms of potassium in a Typic Ustochrept. *Journal of Potassium Research* 20 (1-4): 5-11, 2005.
9. Jha, P., **Brij Lal Lakaria**, Biswas, A.K., Saha, R., Mahapatra, P., Agrawal, B.K., Sahi, D.K. Wanjari, R.H., Lal, R., Singh, M., Rao, A.S. 2014 . Effects of carbon input on soil carbon stability and nitrogen dynamics. *Agriculture, Ecosystems and Environment*, 189, 36-42. 10.1016/j.agee.2014.03.019.
10. Jha, P., Biswas A.K., **Lakaria, Brij Lal**, Saha, R., Singh, M. and Rao, A. S. 2014 Predicting total organic carbon content of soils from Walkley and Black analysis. *Communication in Soil Science and Plant Analysis*, 45 (6), 713-725. DOI:10.1080/00103624.2013.874023.
11. **Brij Lal**, Dhyan Singh and R. Hasan. 1998. Dynamics of soil K under intensive cropping as measured by step – K and constant rate – K. *Journal of Indian Society of soil Science* 46(2): 198 – 203.

12. **Brij Lal**, D. Singh and S.C. Datta. 1998. Effect of continuous fertilizer use on Q/I relationship of potassium in a Typic Ustochrept cropped with maize, wheat and cowpea for 25 years. Journal of potassium research 14(1-4): 1-6.