Profile of Dr. Asit Mandal

1. **Name** : Dr. Asit Mandal
2. **Designation** – Scientist (SS)
3. **Date of Birth**: 06. 01.1981
4. **Education**: Ph.D. (Soil Science & Agricultural Chemistry)
5. **Major Research Areas:** Bioremediation, Soil biodiversity, Soil health
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8. **Professional Experience:**

I have good experience in the research area of soil microbial biodiversity, rhizosphere biology-nutrients transformation and bioremediation of soil contaminants. I have developed expertise in the area of soil microbial assessment, bioremediation, and biodiversity and soil health. I have supervised post-graduate students towards their research training/ dissertation works in the area of soil health, biodiversity and bioremediation. Recently (2013) I have undergone an international research training (NAIP, ICAR sponsored) on bioremediation at the Centre for Environmental Risk Assessment and Remediation (CERAR), University of South Australia, Adelaide, Australia.

9. **Awards:**

- Received ISSS Best Doctoral Research Presentation Award during75th Annual Convention of Indian Society of Soil Science held at IISS, Bhopal on 14-17th November, 2010
- Received Dr. S. P. Raychaudhuri Gold Medal Award, 2010 (for Ph.D. thesis) by the Delhi Chapter, Indian Society of Soil Science

10. **Publications:**

i. **Asit Mandal**, T J Purakayastha and A K Patra (2014). Phytoextraction of arsenic contaminated soil by Chinese brake fern (*Pteris vittata*): Effect on soil microbiological activities. *Biology and Fertility of Soils*. DOI: 10.1007/s00374-014-0941-8

ii. M. C. Manna, **A. Mandal** and Y.V.Singh (2013).Soil carbon sequestration in different land use system. *Journal of Soil and Water Conservation* 12(4):277-283

iii. R S Sisodia, Munna Lal, D Ashok Vardhan, R B Singh, **Asit Mandal**, M C Manna, V K Singh, Brajendra (2013). Effect of manure and chemical amelioration on crop yields and soil biological activities in saline soils of semiarid Indo-Gangetic alluvium (Typic ustrochrepts) type in India. *Indian Journal of Agricultural Sciences* 83 (10): 1031–37.

iv. M.C.Manna, A. Subba Rao and **A. Mandal** (2013). Maintenance of soil biological health under different crop production systems. *Indian Journal of Soil Conservation* 41(2) : 127 -135, 2013

v. **Asit Mandal** and Neenu S. (2012). Impact of climate change on soil biodiversity- A review. *Agri. Reviews*, 33 (4): 283-292.

vi. Asha Sahu, **Asit Mandal**, Jyoti Thakur, M. C. Manna and A. Subba Rao (2012). Exploring bioaccumulation efficacy of *Trichoderma viride*: an alternative bioremediation of cadmium and lead. *National Academy Science Letters* 35(4):299-302

vii. **Asit Mandal**, T. J. Purakayastha, A. K. Patra and S. K. Sanyal (2012). Phytoremediation of arsenic contaminated soil by *Pteris vittata* l. II. Effect on arsenic uptake and rice yield. *International Journal of Phytoremediation* 14(6): 621-628.

viii. **Asit Mandal**, T. J. Purakayastha, A. K. Patra, and S. K. Sanyal (2012). Phytoremediation of arsenic contaminated soil by *Pteris vittata* L. I. Influence of phosphatic fertilizers and repeated harvests. *International Journal of Phytoremediation* 14(10):978–995.

ix. **A. Mandal**, A. K. Patra, D. Singh, A. Swarup, T. J. Purakayastha and R. E. Masto (2009). Effects of long-term organic and chemical fertilization on N and P in wheat plants and in soil during crop growth. *Agrochimica* **53**(2),79-91

x. **Mandal, A**., Patra, A. K., Singh, D., Swarup, A., Masto, R. E. (2007). Effect of long-term application of manure and fertilizer on biological and biochemical activities in soil during crop development stages. *Bioresource Technology* **98,** 3585-3592.