Profile of Dr. kuntal Mouli Hati

1. Name : Dr. Kuntal Mouli Hati
2. Designation: Principal Scientist
3. Date of birth: 28th May, 1969
4. Education: Ph. D. (Agricultural Physics)
5. Major research areas: Soil Physics, Conservation Agriculture, Remote sensing and precision agriculture
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8. Professional experience (Applicable to all): 18 years
9. Awards (Applicable to Scientists):
   i. Golden Jubilee Commemoration Young Scientist Award of Indian Society of Soil Science.
   ii. Associate Fellowship of National Academy of Agricultural Sciences
   iii. ISSS- Dr. J.S.P. Yadav Memorial Award for Excellence in Soil Science of Indian Society of Soil Science as a team member
   iv. Doreen Mashler Award 2006 of ICRISAT (CGIAR) as a Team member of the IISS-ICRISAT Collaborative Project on Watershed Management
   v. Best Poster Paper Presentation Prize in the symposium on "Geo-informatics Application for Sustainable Development" at WTC, IARI, New Delhi from February 17-19, 2004.

10. Publications (Applicable to Scientists- Ten best publications):

1. Hati, K.M., Biswas, A.K., Bandyopadhyay, K.K. and Misra, A.K. 2004. Effect of post-methanation effluent on soil physical properties under soybean-wheat system in a Vertisol. *Journal of Plant Nutrition and Soil Science* 167: 584-590.
2. Hati, K.M., Mandal, K.G., Misra, A.K. Ghosh, P.K., and Bandyopadhyay, K.K. 2006. Effect of inorganic fertilizer and farmyard manure on soil physical properties, root distribution, water-use efficiency and seed yield of soybean in Vertisols of central India. *Bioresource Technology* 97(16): 2182-2188.
3. Hati, K.M., Biswas, A.K., Bandyopadhyay, K.K. and Misra, A.K. 2007. Soil properties and crop yields on a vertisol in India with application of distillery effluent. *Soil and Tillage Research* 92(1-2): 60-68.
4. Hati, K.M., Swarup, A., Singh, D., Misra A.K. and Ghosh, P.K. 2006. Long-term continuous cropping, fertilization and manuring effects on soil physical properties and organic carbon content of a sandy loam soil. *Australian Journal of Soil Research* 44(5): 487-495.

5. Hati, K.M., Swarup, A., Dwivedi A.K., Misra A.K. and Bandyopadhyay, K.K. (2007). Changes in soil physical properties and organic carbon status at the topsoil horizon of a vertisol of central India after 28 years of continuous cropping, fertilization and manuring. *Agriculture, Ecosystems and Environment* 119(2): 127-134.
6. Hati, K.M., Swarup, A., Mishra, B., M.C. Manna, Wanjari, R.H., Mandal, K.G. and Misra A.K. (2008). Impact of long-term application of fertilizer, manure and lime under intensive cropping on physical properties and organic carbon content of an Alfisol. *Geoderma* 148 (2): 173-179.
7. Hati, K.M., Mandal, K.G. and Misra, A.K., Ghosh, P.K. and Acharya, C.L. 2001. Effect of irrigation regimes and nutrient management on soil water dynamics, moisture extraction pattern, evapotranspiration and yield of wheat (*Triticum aestivum*) in Vertisol. *Indian Journal of Agricultural Sciences.* 71(9): 505-509.
8. Hati, K.M., Mandal, K.G. and Misra, A.K., Ghosh, P.K. and Acharya, C.L. 2001. Evapotranspiration, water use efficiency, moisture use and yield of Indian mustard (*Brassica juncea*) under varying levels of irrigation and nutrient management in Vertisol. *Indian Journal of Agricultural Sciences* 71(10): 639-643.
9. Hati, K.M., Chaudhary, R.S., Mandal, K.G., Misra, A.K., Singh, R.K., Wani, S.P., Singh, P., and Pathak, P. (2013) Effect of land management and cropping systems on runoff, soil loss, soil water dynamics and crop yield in a Vertisol of central India. *Journal of the Indian Society of Soil Science* 61(2): 79-88.
10. Hati, K.M. and Bandyopadhyay, K.K. 2011. Fertilizers (mineral, organic), effect on soil physical properties. (In: Glinski, J., Józef, H., Jerzy, L. (Eds.) *Encyclopaedia of Agrophysics;* Springer Publication, pp. 296-299.