

**Dr. M.B.B. PRASAD BABU**

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### **1. Personal bio-data:**

- a) Position/Designation : Principal Scientist**
- b) Joining date in ICAR : 05-07-1996, (DOB: 25/07/1966)**
- c) Discipline and Specialization : Soil Science/Soil Chemistry/ Fertility/ Microbiology**
- d) Training/advance exposure in the area of work :**

- Modelling growth and yield of crops at CASS, IARI, New Delhi from 20/03/2001 to 09/04/2001
- GIS applications for agricultural Research at NAARM, Hyderabad from 30/10/2001 to 09/11/2001.
- Introduction to LAN/WAN Technologies at ERNET India, New Delhi from 20/09/2004 to 24/09/2004.
- Remote sensing Applications in Agriculture with special emphasis on Drought Management at IARI, New Delhi from 23/03/2005 to 16/04/2005.
- Use of ICT in PME of NAIP Projects at MANAGES, Hyderabad from 07/02/2011 to 11/02/2011.

### **e) Contribution to the scientific advancement: (in about five bullets)**

- Worked on detection of weeds for precision crop management using remote sensing technique.
- Studies on the spectral signatures of weeds (P. minor, wild oat and Echinochloa colona) crops (wheat and rice) and their mixtures.
- Studies on the effects of P and S supply on interspecific competition between soybean and Euphorbia geniculata and Echinocloa colona.
- Studies on the effects of N supply on interspecific competition between wheat and Phalaris minor and Avena fatua; and between rice and Echinochloa colona.

- Studies on the sources of nitrogen on the nitrogen use efficiency in rice.

## **2. Future Planning of research :**

- Studying the impact of seasonal changes in temperature on nitrogen dynamics and use efficiency in rice.
- Quantification of nitrous oxide gas emissions from paddy fields and formulation of strategies for its mitigation

## **3. Publications :**

- Varshney, J.G. and Prasad Babu, M.B.B. 2008. Future scenario of weed management in India. Indian Journal of Weed Science, 40:(1&2)01-09.
- Yaduraju, N.T., Prasad Babu, M.B.B. and Poonam Chandla. 2006. Herbicide Use. In. Agriculture and Environment. Swaminathan, M.S. and Chadha, K.L. (Eds.). Malhotra Publishing House, New Delhi, India. pp. 192-210.
- Yaduraju, N.T. and Prasad Babu, M.B.B. 2005. Discovery and development of 2,4-D and its impact on world agriculture. Proc. of 20<sup>th</sup> Asian-Pacific Weed Science Society Conference, 7-11 Nov, 2005, Ho Chi Minh City, Vietnam. pp. 12-18.
- Prasad Babu, M.B.B. and Yaduraju, N.T. 2001. Simulation models: tools for rational and sustainable weed management decisions. Proc. First National Conf. Agro-Informatics (NCAI), Indian Society of Agricultural Information Technology (INSAIT), UAS, Dharwar, Karnataka 3-4 June, 2001, pp. 51-58.
- Prasad Babu, M.B.B. and Yaduraju, N.T. 2000. Decision support systems: A tool for sustainable weed management. Indian Journal of Weed Science. **32**:119-128.

## **4. Other relevant activities of Scientist:**

- Editor of DRR News Letter.
- Member of Prioritization, Monitoring and Evaluation (PME) Cell, DRR.
- Member of the RFD committee of DRR.
- Assisting PI - Soil science in the conduct of AICRIP trials, compilation of results and preparation of report.