

1. **Name in full:** **Dr. Pabitra Kumar Mani**
2. **Date of Birth** : July 7, 1963
3. **Field of specialization:** Soil Science (Soil Fertility and Soil Chemistry)
4. **Designation:** Lecturer (Research) in Senior Scale
5. **Place of posting** : AICRP on Cropping Systems, Directorate of Research, Kalyani
6. **Date of joining:** : 06.01.1997
7. **Experience in present position** : Ten years



8. Address
- a) Official:
 AICRP on Cropping Systems (ICAR),
 Kalyani Main Centre ,
 Directorate of Research Building,
 BIDHAN CHANDRA KRISHI VISWAVIDAYALAYA
 (B.C.K.V.) Kalyani, Nadia-74135, W.B.; INDIA
 ☎(033) 2582-8407, F ax: (033) 2582 8407
- (a) Residential
 B-6/225, Amen Co-operative Housing Society Ltd.
 Flat No. 5, P.O. Kalyani ; Dist. Nadia ;
 West Bengal, Pin: 741235, **INDIA**.
 ☎(033) 2582-2132 ; Cell:94333-07593
 E-mail : pabitramani@rediffmail.com

9. Academic career and professional attainments:

(a) Educational Qualification

Degree	University/ Institution	Year	Class /Standings
B. Sc.(Ag.) Hons.	Bidhan Chandra Krishi Viswavidyalaya	1985*	1 st Class
M.Sc. (Ag.)	BCKV	1987**	1 st Class
			(OGPA 4.00/4.00)
Ph.D.	BCKV Guide : Dr. S. K. Sanyal , Professor	1993	Thesis : Some aspects of potassium dynamics in soils

* However, the marksheet was available in 1986

** However, the marksheet was available in 1989

(b) Training participated:

Organisatio/Institute	Title	Duration	Time period
(i) IARI, New Delhi	Assessment and Modeling of soil and plant growth parameters by Remote sensing and GIS ”	21 days	July 9-29, 1997
(ii) IARI, New Delhi	Use of isotopes and radiations in soil plant relationships	30 days	15th April to 14th May, 1998
(iii) BCKV, Mohanpur, W.B.	Advanced strategies for the mitigation of heavy metals and Arsenic pollution in agricultural production system	21 days	Dec. 6-26, 2005

(c) Symposium/ seminar attended for paper presentation:

- (i) National Seminar on Developments in Soil Science held during the 65th Annual Convention of the Indian Society of Soil Science at **NBSSLUP, Nagpur**, during Dec. 27-30, 2000.
- (ii) **International Symposium** on “Importance of potassium in nutrient management for sustainable crop production in India jointly organized by PRII and IPI, held at **New Delhi**, during Dec.3-5, 2001.
- (iii) National symposium on. “Recent Advances in Rice based Farming Systems” held at **CRRI**, Cuttack, during Nov. 17-19, 2004.
- (iv) **International Conference on** “Soil, water and environmental quality-issues and strategies” held at **IARI, New Delhi** during Jan. 28-Feb.1, 2005.
- (v) **18th World Congress of Soil Science**, held at **Philadelphia, Pennsylvania, USA**, during July 9-15, 2006

10. Sevice details:

Date of Joining	Institute and place of posting	Designation
06.01.1997	BCKV at North Bengal Campus (now UBKV) at AICRP on Jute & allied Fibres , Pundibari	Lecturer (Res.)
16.04.1997	BCKV at Kalyani Campus on AICRP on Cropping Systems	Lecturer (Res.)
01.01.2001	BCKV at Kalyani Campus on AICRP on Cropping Systems	Sr. Lecturer (Res.)

11.	Teaching duty:	Department assigned me few post graduate courses mainly on (I) Analytical Chemistry, (ii) Manures and Fertilizers and (iii) Remote sensing
12.	Extra ordinary Accomplishment (student's guidance, professional rewards and recognition)	
(i)	Student guidance	
	Ph.D. guidance	: One (one continuing)
	M. Sc guidance	: One (one continuing)
(ii)	Contribution to Institutional corporate life and other academic environment Project report / RAWE/ Headship / Incharge-ship of AICRP projects / Resource persons in Orientation / Refresher courses / Farmer training programme / Training organized and other comparable activities:	: Prepared both Annual and Biennial Reports of AICRP on Cropping Systems (2002-2007) and QRT reports (2002 and 2007)
iii)	Research duty:	
	No. of field trials conducted	5 x 5 (25)
	Laboratory Analysis	Analysed soil and plant samples of On-Station and On-Farm in each year
iv)	Research projects handled:	(i) Acted as Co-PI of ICAR Ad-hoc scheme on "Status, causes and impacts of Arsenic contamination in ground water in parts of West Bengal vis-à-vis management of Agricultural systems" during 01.01.1998-30.06.2001 (ii) Acted as Collaborating Scientist in NATP project on Assessment And Improvement of Soil Quality and Resilience for Rainfed Production System (NATP, RRPS-20) during (2000-2004)
v)	Professional rewards and recognition	<ul style="list-style-type: none"> • Recipient of ISCA Young Scientist in Agricultural Sciences Section conferred by Indian Science Congress Association, during 82nd Session at Goa in 1993. • Recipient of Zonal Award (East Zone) for best Ph. D thesis conferred by Indian Society of Soil Science, New Delhi, in 1994.

Publications:

- i) Studies on Quantity/Intensity relations of potassium availability in some soils of West Bengal, by P. K. Mani; S. De and S. K. Sanyal; *J.Indian Chem. Soc.* **70**: pp.219-222 (1993).
- ii) Release pattern of non-labile potassium in some Entisols, Inceptisol, Mollisol and Alfisols of West Bengal , by S. De; P. K. Mani and S. K. Sanyal; *J.Indian Soc. Soil Sci.* **41**: pp. 658 - 662 (1993).
- iii) Coupled transport of aqueous potassium chloride and potassium sulphate in some Alfisols, Entisol and Inceptisol , by P. K. Mani and S. K. Sanyal; *J.Surface.Sci.Technol.* **9**: pp. 57-66 (1993).
- iv) Tracer diffusion of potassium in four soils of West Bengal, by P. K. Mani and S. K. Sanyal; *J.Indian Soc. Soil Sci.* **43**: pp. 166-172 (1995).
- v) Kinetics of potassium adsorption and desorption in some soils of West Bengal, by P. K. Mani and S. K. Sanyal; *J.Indian Chem. Soc.* **73**:pp. 533-535 (1996).
- vi) Tracer diffusion of potassium in some Alfisols, Inceptisol and Entisol, by P. K. Mani and S. K. Sanyal; *J.Indian Soc. Soil Sci.* **44**: pp. 201-205 (1996).
- vii) Studies on solute transport in some soils of West Bengal, by **P. K. Mani** and S. K.Sanyal; *Indian Agric.* **40** : pp.25-38 (1996).
- viii) Effect of dolomite on boron transformation in acid soil in relation to nutrition of green gram, by **P. K. Mani** and M. Haldar; *J.Indian Soc. Soil Sci.* **44**: pp. 458-461 (1996).
- ix) Nonexchangeable potassium reserves in an Alfisol in relation to potassium uptake by potato, by **P. K. Mani** and S. K. Sanyal; *J.Indian Soc.Soil Sci.* **45**:pp. 469-474 (1997).
- x) Integrated nutrient management in rice-wheat system in West Bengal, by R.C. Samui, A.L. Kundu, D. Mazumdar and **P. K. Mani** , *Proc. in National Workshop on Long Term Soil and Fertility Management through Integrated Plant Nutrient Supply System* , held at Indian Institute of Soil Science, Bhopal, during April 2-4 , 1998, pp. 256-259 (1998).
- xi) Surface charge characteristics of Alfisols and Inceptisol and changes on phosphatisation, by **P. K. Mani** and S. K. Sanyal, *J. Indian Soc. Soil Sci.* **48**: pp.15-20 (2000).
- xii) Efficacy of phosphatic fertilizers in rice-sesame cropping system, by S. Saha, S.K.Patra and **P.K.Mani** , *J. Interacad.* **4(4)**: 534-537 (2000).
- xiii) Effect of phosphorus, arsenic and farmyard manure on arsenic availability in some soils of West Bengal, by D. Mukhopadhyay, **P.K. Mani** and S.K. Sanyal, *J. Indian Soc.Soil Sci.* **50**: pp. 56-61 (2002).
- xiv) Releasing behaviour of potassium in some soils of West Bengal, by S. Saha, S. K. Patra and **P.K. Mani**, *Indian Agriculturist*, **46**: pp.11-16 (2002).

- xv) A study on Gapon exchange selectivity coefficient for predicting potassium release from soils, by S. Saha, **P. K. Mani**, S. K. Patra and S. Ghosal, *J. Interacad.*, **6(3)**: pp 308-313, 2002.
- xvi) State-wise issues and technologies of oilseed based cropping systems: West Bengal, by R.C Samui, P. Bandopadhyay and **P. K. Mani** In Proc. of oilseed based cropping systems: issues and technologies (part iii) (eds.) B. Gangwar, S.K. Sharma, and R.L. Yadav, PDCSR, Modipuram, UP, pp.354-360 (2002).
- (xvii) Discriminant analysis and comparison of Banana based farming with other farmings-A case study, by A.L. Kundu, P.K. Sahu, M. Pramanick, and **P. K. Mani**, Proc. National Seminar on “Banana Industry-present scenario and future strategies” held at the BCKV, FTC, Kalyani, W.B., 11-13th June, (2004).
- (xviii) Diversification of rice (*Oryza sativa*)-based cropping system in new alluvial zone of West Bengal, by R. C. Samui, A. L. Kundu, D. Majumder, **P.K. Mani** and P. K. Sahu, *Ind. J. Agron.* **49(2)**:pp 71-73:(2004).
- (xix) Sustainability of Different Nutrient Combinations in a Long-Term Rice-Wheat Cropping System, by P. K. Sahu, A. L. Kundu, **P. K. Mani**, M. Pramanick, *Journal of New Seeds*, **7(3)**: 91-101 (2005).
- (xx) Effect of rockphosphates on the available P status in acid rice soils by S. Saha, S.K Patra,, **P.K. Mani**, and R. Ray, *Oryza*, 43(1): 67-69, (2006).
- (xxi) Sustainable maximization of yield in rice-wheat system of cropping through application of phosphocompost-a farmers’ field study, by P. K. Sahu, A. L. Kundu, R.C. Samui, **P. K. Mani** and M. Pramanick *Journal of New Seeds*, **8(2)**:73-84, (2006) .
- (xxii) Organic Amendments Influence Soil Organic Carbon Pools and Rice–Wheat productivity, by Majumdar, B., Mandal, B., Bandyopadhyay, P.K., Gangopadhyay,A., Mani, P.K., Kundu, A.L., Mazumdar, D., *Soil Sci. Soc. Am. J.* **72(3)**: **775-785**, (2008).

Popular Articles:

- (i) Peaceful application of isotope studies in agriculture, by **P. K. Mani**, *Green Tech.***1(2)** : pp.12-15 (1999).
- (ii) Fly-ash: A menace to environment, by **P. K. Mani**, *Green Tech.***2 (7 & 8)** : pp. 14-16 (1999).
- (iii) Remote sensing- A modern tool for agricultural resource management, by **P.K. Mani**, *Everyman’s Sci.* **XXXV (2)**: pp.57-62 (2000).

Papers presented for Seminar/Symposium/Conference :

- (i) Soil management practices influence zinc desorption in soils by G.C. Hazra, **P. K. Mani**, and L. N. Mandal, presented at 65th Annual Convention of Indian Society of Soil Science, held at NBSSLUP, Nagpur, during Dec.27-31, 2000.
- (ii) Redistribution of forms of potassium in soils upon submergence, by A. Mukherjee, S.C. Ghorai, **P. K. Mani** and B. Mandal, *In Proc. International Symposium* on “Importance of potassium in nutrient management for sustainable crop production in India (abstract No. 35) organized by PRII and IPI, held at New Delhi, during Dec.3-5, 2001.
- (iii) Interaction effects of Arsenic with Zn and organics on their release in soil in relation to rice (*Oryza sativa* L.), by T.K. Garai, D. Mukhopadhyay, D.K. Das, S. Sarkar, S.K. Sanyal, **P. K. Mani** and N.C. Das, Presented to training programme on arsenic contamination in groundwater-soil-crop systems, held at BCKV, FTC, Kalyani, W.B., 24-25th March, 2004.
- (iv) Arsenic contamination in groundwater of the Bengal delta basin: implications in agricultural systems, by D. Mukhopadhyay, S.K. Adak, T.K. Garai, S. Panda, S. Saha, K. Ghosh, I. Das, G.C. Banik, P.K. Mani, S. Sarkar, N.C. Das, B.K. Mandal, D.K. Das and S.K. Sanyal, *In Colloquium on water Management in Agriculture: Issues and Priorities*, BCKV, Kalyani, 8th April, 2004
- (v) Characterization of farming systems in different agroclimatic zones of southern part of West Bengal-a diagnostic study, by A.L. Kundu, M. Pramanick, P.K. Sahu, and P.K. Mani, Paper presented to Second National symposium on alternative farming system: Enhanced income and employment generation options for small and marginal farmers, held at PDCSR, Modipuram, 16-18 Sept., 2004.
- (vi) Effect of improved management technology on different components of farming systems for better income generation of farmers in gangetic plains of West Bengal, by M. Pramanick, A.L. Kundu, P. K. Sahu, and P.K. Mani, Paper presented to 2nd National symposium on alternative farming system: Enhanced income and employment generation options for small and marginal farmers, held at PDCSR, Modipuram, 16-18 Sept., 2004.
- (vii) Long-term effects of chemical fertilizers and organic manures on productivity of rice-wheat cropping system in West Bengal, by **P. K. Mani**, A. L. Kundu, M. Pramanick and P. K. Sahu, *In Proc. Recent Advances in Rice based Farming Systems* held at CRRI, Cuttack, Nov. 17-19, 2004.
- (viii) Dynamics of forms of potassium in soils under Long-term cropping with organic and inorganic inputs, by J.A. Bhat, **P. K. Mani**, G. C. Hazra and M. N. Saha, presented at poster session in **International Conference on soil, water and environmental quality-issues and strategies** held at IARI, New Delhi on Jan. 28-Feb.1, 2005.
- (ix) Long-term effects of organic and inorganic inputs on the yield, soil nutrient changes and use efficiency in rice-wheat cropping system in Indo-Gangetic plains of India, by **P. K. Mani**, P. K. Sahu, A. L. Kundu, M. Pramanick and R. C. Samui, presented at poster session of Nutrient use efficiency and global agriculture in **18th World Congress of Soil Science**, held at **Philadelphia**, Pennsylvania during July 9-15, 2006.