



1. Name : **Dr. Bihari Ram Maurya**

2. Designation: **Professor**

3. Academic Qualifications:

Sr.	Degree	Institution	Year
1	B.Sc. (Ag.) (Hons.)	BHU	1976
2	M.Sc. (Ag.)	BHU	1978
3	Ph.D. degree	BHU	1982

4. Area of Specialization: (brief writeup) if any: Soil Microbiology /Biofertilizers
M.Sc. (Ag) and Ph.D. theses on topics related to soil microbiology particularly to agriculturally important microorganisms which are used as biofertilizers. Supervised two Ph.D. and eighteen M.Sc.(Ag.) students on various aspects of soil microbiology/biofertilizers. Since thirty two years doing teaching and research work in this specific area. Nodal Officer biofertilizers production unit under Experiential Learning Programme, Institute of Agricultural Sciences BHU.

5. Contact Information: 0542-6701640 (O) 0542-2570190(R)
9451578027 (Mo.)

Email: bramauryaias@gmail.com

6. Projects Undertaken as PI/ Co PI(if any):

Projects Under taken		Projects in Hand
PI	01	02
CO- PI	03	03

7. Awards/ Recognitions (if any):

8. List of major Publications: (in order of importance)(if any)

- Maurya, B.R.** and Sanoria, C.L. (1982). Effectiveness of rhizobial isolates with and without co-inoculants and phosphate on bengal gram (*Cicer arietinum*), *J. Agric. Sci. Camb.*, **99**: 239-240.
- Maurya, B.R.** and Sanoria, C.L. (1982-83). Effect of seed bacterization with *Cicer rhizobia* on soil properties and nodulation, yield and seed quality of bengal gram, *J. Scientific Res.*, BHU, **33(1)**: 21-26.
- Sanoria, C.L. and **Maurya, B.R.** (1985). Studies on nitrogen gains in soil due to seed bacterization of chickpea (*Cicer arietinum* L.) Cv. Type- I, *Legume Res.*, Karnal, **8 (2)**: 114-116.
- Maurya, B.R.** and Sanoria, C.L. (1986). Beneficial effects of co-inoculating chickpea seed with *Rhizobium*, *Azotobacter* and *Pseudomonas*, *Ind. J. Agric. Sci.*, Delhi, **56(6)** : 463-466.
- Verma, L.P., Ram, P.C. and **Maurya, B.R.** (1988). Response of chickpea to phosphorus and molybdenum in alluvium of eastern Uttar Pradesh, *Int. Chickpea. Newsletter*, ICRISAT, A.P., **18** : 31-33.
- Maurya, B.R.** and Verma, L.P. (1990). Effect of green manuring with *Azolla* and nitrogen on yield and nitrogen uptake by wheat (*Triticum aestivum*). *Ind. J. Agric. Sci.*, Delhi, **60 (6)**: 422-424.
- Sanoria, C.L., Singh, K.L., Ramanurthi, K. and **Maurya, B.R.** (1992). Field trials with *Azospirillum brasilense* in an Indo-Gangetic alluvium, *J. Ind. Soc. Soil. Sci.* **30(2)**: 208-209.
- Maurya, B.R.**, Kishore, K. and Ram, P.C. (1993). Effect of iron and molybdenum on urd bean. *J. Maharashtra Agric. Univ.* **18(1)**: 128.

9. Mangaraj, B.N. and **Maurya, B.R. (1997)**. Effect of phosphorus and zinc on growth and nitrogen fixation of *Azolla caroliniana* (Wild), *J. Ind. Soc. Soil. Sci.* **45(3)**: 498-502.
10. Singh, A.K., **Maurya, B.R.** and Ram, H. (1998). Neem leaf extract controls ants on lemon plants *Neem Newsletter* **15(3)**: 37.
11. Singh, A.K., Ram, H. and **Maurya, B.R. (1999)**. Effect of nitrogen and phosphorus on microbial population, growth and nodulation of green gram (*Vigna radiata* L.), *Ind. Soc. Soil Sci.* **47(1)**: 159-161.
12. Kumar, A. and **Maurya, B.R.** (2006). Efficacy of phosphate solubilizing fungi on acidity and solubilization of tricalcium phosphate in broth. *Plant Archives.* **6(1)**: 309-311.
13. Singh, A.K., Ram, H., **Maurya, B.R.** and Prasad, J. (2006) Influence of neem products on urease activity, urea transformation in soils and wheat yield. *Ind. J. fert.* **2(2)**:45-48.
14. **Maurya, B.R.** and Singh, S.K. (2006). Influence of manure, sludge and PSM on effectiveness of *Bradirhizobium* strains towards growth, yield and nutrient acquisition of mungbean. *J. crop and weed*, **2(1)**:67-70.
15. **Maurya, B.R.** and Kumar, A (2006). Comparative performance of *Aspergillus niger* isolates of different habitats on solubilization of tricalcium phosphate in broth and their impact on yield attributes of wheat (*Triticum aestivum* L.). *International Journal of Agricultural Sciences*. **2 (2)**:581-583.
16. **Maurya, B. R.,** Shahab Azami, Singh, A.P. and Singh, S. (2007). Effect of Potassium on Growth of *Aspergillus niger*. *Journal of Research. (B AU)*. **19 (2)**:159-162.
17. Singh, D., Singh, A. K., Ram, H., **Maurya, B. R.** and Prasad J. (2008). Influence of different nutrient sources on nodulation, growth and yield of chickpea (*Cicer arietinum* L.). *Indian Journal of fertilizers*. **4 (2)**:59-60 & 69.
18. **Maurya, B.R.,** Kumar, P. Raha, P. and Prakash, P. (2008). Impact Assessment of Nickel on *Cicer arietinum* L. and Microbial Activities in Alluvial Soil of Varanasi, *Indian Journal of Plant Physiology*. **13 (1)**:50-53.
19. **Maurya, B.R.,** Ram, H., Prasad, S.S and Singh, A.K (2009). Impact of soil amendments on properties of the salt-affected rice soil. *J. Ind. Soc. Soil Sci.* **57 (3)**:385-388.

9. Additional Information/ Achievements (if any):

Screened *Azolla* species and found that *Azolla caroliniana* is suitable for Varanasi region. It was also found that Zn had positive role in N₂- fixation in *Azolla*. Co-inoculation of *Azotobacter* and phosphobacterin with *Rhizobium* is beneficial in legumes. A starter dose of nitrogen application is safe for better establishment of legumes. It was found that there is saving of 25% urea N through the use of *Azospirillum* in rice. Greater yield of wheat can be achieved by judicious use of carpet waste, press mud and digested sludge each @ 2 t ha⁻¹ than obtained from recommended dose of NPK (120:60:60). Mixing of banyan tree soil with normal cultivated soil is beneficial in enhancing the fertility status of soil. *Parthenium* seeds may have embryo dormancy that could be broken down by thermotherapy. Composting heat doesn't completely destroy viability of *Parthenium* seeds. Composting of uprooted *Parthenium* prior to flowering would be helpful in reducing the world's menace of *Parthenium* on human health.