



Dr. M. D. Meena
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(Soil Science)
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1. Date of birth : 14-09-1984
2. Education Qualification : Ph.D. (Soil Science & Agricultural Chemistry), IARI, New Delhi (2012); M.Sc. CSAUA & Tech, Kanpur (2008)
3. Joining Date in ICAR : 27-04-2011
4. Joining Date in DRMR : 24-06-2017
5. Discipline/Specialization : Soil Science
6. Research Experience : 7 years
7. Training/advance exposure in the area of work : Summer school on "Technological innovation for shaping future agriculture in salt-affected soils conducted by ICAR-CSSRI, Karnal from 4-24th June 2013.

8. Contribution to the Scientific advancement

- Composting of Agricultural waste and municipal solid waste
- Developed nutrient enriched composts by using low grade sources of minerals
- Nutrient dynamics in soil
- Integrated nutrient management for sustainable mustard production

9. Current Research Projects & Future planning of research

- Nutrient transformation in soil as influenced by enriched composts and their effect on yield and quality of mustard
- Development of low cost organic fertilizers as an alternative of costly chemical fertilizers for sustainable production of mustard

10. Awards/ Recognitions

- Young Scientist award from DST (Research Grant)
- Young Scientist Award (2018) for outstanding contribution in Soil Science by GUARD Society, Hyderabad.
- Appreciation award by Indian Society of Agricultural statistics, New Delhi for outstanding contribution in successful organization of 71st Annual conference of statistics and informatics for farmers Welfare

11. Publication (Research Paper best 10)

- ❖ **Meena, M.D.**, Narjary, B., Sheoran, P., Jat, H.S., Joshi, P.K., Anil. R. Chinchmalatpure, Yadav, Gajender, Yadav, R.K., Meena, M.K. (2018). Changes of phosphorus fractions in saline soil amended with municipal solid waste compost and mineral fertilizers in a mustard-pearl millet cropping system. *Catena*. 160: 32-40. (ID: C029 & NAAS Score 9.12).

- ❖ **Meena, M.D.**, Narjary, B., Sheoran, P., Jat, H.S., Joshi, P.K., Anil. R. Chinchmalatpure, Yadav, Gajender, Yadav, R.K., Meena, M.K. (2018). Effect of Rice straw compost and mineral fertilizers on yield and nutrient uptake by Indian mustard in saline soil. *Journal of Oilseed Brassica*. 9 (1): 195-200. (ID: **J358 & NAAS Score 4.7**).
- ❖ **Meena, M.D.**, Joshi, P.K., Jat, H.S, Anil, R., Chinchmalatpure, Narjary, B., Sheoran, P Sharma, D. K. (2016). Changes in biological and chemical properties of saline soil amended with municipal solid waste compost and chemical fertilizers in a mustard–pearl millet cropping system. *Catena*.140: 1-8. (ID: **C029 & NAAS Score 9.12**).
- ❖ **Meena, M.D.**, Joshi, P.K., Narjary, B., Sheoran, P., Jat, H.S., Anil. R. Chinchmalatpure, Yadav, R.K. and Sharma, D.K. (2016). Effects of municipal solid waste, rice straw composts and mineral fertilizers on biological and chemical properties of a saline soil and yields of mustard – pearl millet cropping system. *Soil Research*. 54 (8), 958-966. (ID: **S046 & NAAS Score 7.61**).
- ❖ **Meena, M.D.** and Biswas, D.R. (2014). Phosphorus and potassium transformations in soil amended with enriched compost and chemical fertilizers in a wheat–soybean cropping system. *Communication in Soil Science and Plant Analysis*. 45: 624–652. (ID: **C106 & NAAS Score 6.59**).
- ❖ **Meena, M.D.** and Biswas, D.R. (2014). Changes in biological properties in soil amended with rock phosphate and waste mica enriched compost using biological amendments and chemical fertilizers under wheat-soybean rotation. *Journal of Plant Nutrition*. 37:2050–2073. (ID: **J394 & NAAS Score 7.63**).
- ❖ **Meena, M.D.** and Biswas, D.R. (2013). Residual effect of rock phosphate and waste mica enriched compost on yield and nutrient uptake by soybean. *Legume Research* 36 (5): 406 – 413. (ID: **L010 & NAAS Score 6.12**).
- ❖ **Meena, M.D.** and Biswas, D.R. (2015) Effect of rock phosphate enriched compost and chemical fertilizers on microbial biomass phosphorus and phosphorus fractions. *African Journal of Microbiology Research*. 9 (23) 1519-1526. (ID: **A070**).
- ❖ Bhaskar Narjary, **M.D. Meena**, A.L. Pathan, Neeraj Kumar, Satyendra Kumar, S.K. Kamra and D.K. Sharma (2017). Assessing spatio-temporal variations in groundwater table depth and salinity using geostatistics and its relation with groundwater balance in a salt affected soil. *Indian Journal of Soil Conservation*. 45: 235-243. (ID: **I088 & NAAS Score 5.20**).
- ❖ **Meena, M.D.** Tiwari, D.D., Chaudhari, S.K., Biswas,D.R., Narjary, B., Meena, A.L., Meena, B.L. and Meena, R.B. (2013). Effect of biofertilizer and nutrient levels on yield and nutrient uptake by maize (*zea mays* l.). *Annals of Agri Bio Research*. 18 (2): 176-181. (ID: **A173 & NAAS Score 3.95**).