



## Mitigation of arsenic problem through bio-remediation and agricultural practices for sustainable agriculture

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### Abstract:

Adoption of agricultural practices is cost effective bioremediation techniques to mitigate arsenic problems and can contribute substantially to the cause of removal of arsenic and other heavy metal contamination of soils and water thereby quality enrichment in marketable agricultural produce leading to increased crop productivity in the area of intensive cropping under irrigated eco system. Though the farmers are already practicing some traditional techniques to mitigate the arsenic problems in soils and water, like cultivation of crops which are less affected to arsenic and heavy metals pollution, growing hyper accumulating crops and so many practices wherein the modern methods are not prevalently used by the farmers due to the lack of scientific validity of these techniques, particularly in the context of prevailing socio-economic conditions. Moreover, acceptance of these improved practices by the small farmers of this region is an



**Biography- PROF (DR) A ZAMAN** is an internationally renowned scientist specialization with agricultural water management having spectacular career of 39 years. His lifetime and original research contribution in the field of irrigation water management, rainfed agriculture, cropping system, watershed management, dry land agriculture and bio-diversity conservation, to name a few, globally appreciated leading to outstanding teachers in farm universities in India and abroad. A large number original concepts, strategies, techniques a tools those developed which have contributed enormously to agricultural science and benefitted the global society

### 6. Publication of speakers:

1. Zaman, A and Devi, W. P. 2012. Processing quality of potato (Effect of nutrient on potato quality): Lambert Academic Publishing, Germany. pp 1-140; ISBN 978-3-659-14585-8;
2. Zaman, A. and Patra, S. K. 2010, Sustainable Food Security. Chapter: Farmers participatory water management technologies for food security; pp 25-31; Mittal Publications, New Delhi; ISBN No. 81-8324-356-8
3. Zaman, A. and Patra, S. K. 2010. Water Productivity in Agriculture. BCKV pp 1-74;
4. Zaman, A. 2009. Krishitejalerutpadashilotabridhhi; JalSampaderjathajothobyabohar; Training Manual; BCKV
5. Zaman A and IndudharReddyKareddy, : 2016 Aerobic Rice.

7. [14th International Conference on Agriculture and Plant Science, June 22-23, 2020, Sydney, Australia](#)

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