



## Molybdenum Technology: A Success Story

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Diksha Vishwakarma, 29 year, from District Sehore of Madhya Pradesh, she along with her Head of the Department Dr. S.C.Gupta, has been successful in development of **Molybdenum Technology**. She did PG in Soil Science & qualified NET & soon after, she worked as a contractual teacher in RVSKVV, RAK College of Agriculture, Sehore where she got the opportunity to work in chickpea field.



### Farm Size and Crop /Enterprises Followed by Farmers

Where she saw Gram (Chickpea) is mostly cultivated in M.P in *rabi* in large hectares (30 lakh hectares approx.) but productivity of chickpea was a main issue. Average productivity of farmers fields was around 865 kg/ha at state level that time.

### Technology/Innovation to Increase Production and Productivity

She then decided to work to enhance productivity of chickpea through **Molybdenum supplementation@ 1g/kg seed with Rhizobium+PSB inoculation** under Soybean-Chickpea sequence in M.P.

### Up Scaling Efforts by Individual to Promote Innovation/Technology on General Improvement of Agriculture & Environment

Evolution of this technology took place after long time field experiment of Dr. S.C. Gupta and her lab work of 2 years respectively. This technology recommended by AICRP on Chickpea (IIPR-ICAR group) during 2010. Technology was tested at 4 research centers to verify the results in M.P. Several Demonstration in Sehore, Bhopal, Rajgarh, Dewas and Indore districts were conducted through individual efforts made by the developer of technology & her wherein also on an average 25% yield enhancement recorded by the use of this technology. One Project on studies on micronutrient crop response under different soils and agro climatic conditions under RKVY is also functioning in which the co-author is acting as PI wherein also this technology has been demonstrated successfully to several farmers fields in Sehore, Bhopal, Rajgarh, Indore and Dewas districts on gram crop.

### Improvement in Production/Productivity on Farm After Introduction of Innovation

Average productivity of Gram crop at farmers fields raised to 1135 kg/ha (2012-13) approx.30% increase after adoption of this technology along with improved varieties seed through recommendation by RVSKK university, Gwalior and subsequently its implementation under NFSM and A3P program in the state by the state Deptt. Of farmers Welfare and Agril Development in several districts of M.P.by making available Ammonium molybdate for gram crop. Reports from DDAs from some districts are also available

indicating good response of Mo use in gram crop. She and Dr. S.C. Gupta has been appreciated for this technology.

### **Impact**

She and Dr. S.C.Gupta has become the role model for farmers as now farmers are applying same doses of aforesaid to their chickpea fields in day to day life and are getting benefitted.