

Department of Soil Science, CCSHAU, Hisar

Success story under RKVY project implemented in the Department of Soil Science

1. **Title:** Strengthening of Soil Testing Services for secondary and micro nutrients.
2. **Category:** Agriculture, under the project RKVY Department Soil Science purchased the latest instruments required for the analysis of Soil and water samples.
3. **Challenge:** The degradation of soil and water along with nutritional imbalance are the most focused problems of the State. Nutritional deficiencies may enter in to food chain and consequently affects the human and animals health. To overcome these problems integrated nutrients management and balanced use of fertilizers is necessary. For the balanced use of fertilizer and proper selection of crops soil and water testing is must.
4. **Initiative:** To overcome the above said problems Department of Soil Science CCSHAU, Hisar purchased the latest instruments required for the analysis of Soil and water samples such as atomic absorption spectrophotometer, nitrogen auto-analyzer, spectrophotometer, flame photometer etc. of latest technology. Under this project soil testing laboratory starts analyzing the soil samples for micronutrients (zinc, copper manganese and iron) in addition to macronutrients. Implementation of the project was done within the given time.
5. **Key results:** After the implementation of this project soil testing laboratory, Department of soil Science, CCSHAU, Hisar analyzed a total of 31348 soil and 19721 water samples received from the farmers and other agencies were analyzed for the different parameters of soil and water. Out of total of 31348 soil samples 2035 samples were analyzed for micronutrients. After the analysis of soil and water samples all the reports sent to the farmers and other agencies (Govt. and privet institute) with a proper interpretation of results and recommendations based on the reports for the use of different fertilizers, plantation of orchard/garden and use of underground tube- well water for irrigation in different crops and soil types.
6. **Impact:** After the implementation of this project farmers come to know about the analysis of soil samples for secondary and micronutrients and this has helped in increasing the awareness of farmers regarding soil health. Now more and more farmers are coming to get their soil samples tested for secondary and micronutrients. Farmers are

directly benefited by the detail and quick analysis of soil and water samples received from their fields. As a consequence by concerted approach of the Soil Scientists, many farmers have adopted balanced use of fertilizers, use of organic manures, soil and water testing before planning the plantation of fruit trees , soil reclamation etc. in a big way”.

At last, these facilities of soil testing certainly helped in maintaining soil health and increasing agricultural production specially of Haryana state and in general of adjoin states.

7. **Lessons:** Since the instruments purchasing procedure of CCSHAU, Hisar is very time consuming therefore, it takes a lot of time for implement the purchasing of instruments etc.
8. **Supporting Quotes and Images:** Since soil and water testing facilities are not for any specific cast but it is open for all farmers and other agencies. So all the farmers got benefit of these soil and water testing services.
9. **Additional information:**

1. Principal Investigator : Dr. B. S. Duhan, (Professor and Head Rtd) , Department of
Soil Science, CCSHAU, Hisar
2. Collaborator : None
3. Contact person : None
4. Other information : Nil