

## Strengthening of infrastructure for potassium fertilization in field crops of South-West Haryana

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### **Aims & Objectives:**

- i) To demonstrate the effect of recommended dose of potassium in pearl millet, cluster bean and mustard crops.
- ii) To demonstrate the effect of recommended dose on K buildup and depletion at selected sites.
- iii) To educate the farmers about the importance of K fertilizer in field crops.

### **Introduction**

- ❑ In Haryana during 1980, about 82 % soils were high and remaining 18 % soils were medium in available K. But due to intensive cropping, continuous mining and limited use of K fertilizer, about 20.49, 52.18 and 27.30 % soils have become low, medium and high in available K status during 2011.
- ❑ The soils which were rated sufficient in available K have become deficient/medium and have begin to show response to K application particularly under intensive use of N and P. The results of a long term study conducted under CCS HAU-IPI Coordination Adhoc Research Project from 2002 to 2012 revealed that in coarse textured low to medium potash status soils, K fertilization @ 30 kg K<sub>2</sub>O/ha for pearl millet and K fertilization @ 20 kg K<sub>2</sub>O/ha for cluster bean and Indian mustard is optimum to maintain soil K fertility and harvest optimum crop yield.
- ❑ Despite of above recommendations, the majority of farmers of the zone are not applying potassium fertilizer in field crops. Now, there is need to educate the farmers of the zone about use of potassium fertilizer in field crops for enhancing crop productivity on sustainable basis.

### **Programme of work**

- ❑ Selection of the five farmers for conducting five demonstrations each for pearl millet, cluster bean and Indian mustard in three districts (Bhiwani, Mohindergarh and Rewari) of South West Haryana during first year of project. The same demonstrations will conducted with different set of five farmers during second year.
- ❑ Taking soil samples from the selected fields for initial potassium status.
- ❑ Conducting demonstrations at selected farmers' field with following treatment.  
Pearl millet: Treatments : (i) Control (ii) 30 kg K<sub>2</sub>O/ha  
Cluster bean : Treatments: (i) Control (ii) 20 kg K<sub>2</sub>O/ha

Indian mustard: Treatment: (i) Control (ii) 20 kg K<sub>2</sub>O/ha

- ❑ Training to the farmers for motivation on use of potassic fertilizers and benefit thereof in each district of SW Haryana.
- ❑ Recording yield data of the crops and taking soil samples after harvest and feedback from the selected farmers.
- ❑ Data analysis, compilation and submission project report at the end .

Budget expenditure

<b>Amount of grant proposed during 2017-18 (in Lakhs)</b>	<b>: 20.00</b>
<b>1<sup>st</sup> year expenditure (Rs.)</b>	<b>: 5,46,870</b>
<b>2<sup>nd</sup> year expenditure (Rs.)</b>	<b>: 10,03,130</b>

Significant achievement

- ❑ Farmers of SW Haryana have been the direct beneficiaries through demonstrations and about four hundred farmers through training and visits in three district Bhiwani, Mohindergarh and Rewari.
- ❑ The impact of the project on weaker section (SC/ST & women) have been assessed in terms to enhanced yield and increased farmers income.
- ❑ Fifty one ST/SC, sixty women, one hundred fifteen BC and one hundred seventy nine Gen farmers have been direct beneficiaries through demonstrations and training and visits in three districts Bhiwani, Mohindergarh and Rewari.
- ❑ Soil research laboratory of CCS HAU Regional Research station, Bawal has been strengthening through purchasing of instruments like pH meter, EC meter, Hot plate, oven, flame photometer, camera, shaker, chemical balance and double water distillation set etc.





2/16/2019

## नारनौल/महेन्द्रगढ़

रेवाड़ी, भगलवार, 30 जनवरी 2018

### कृषि विज्ञान केंद्र में एक दिवसीय प्रशिक्षण शिविर

महेन्द्रगढ़ : कृषि विज्ञान केंद्र महेन्द्रगढ़ में सोमवार को क्षेत्रीय अनुसंधान संस्थान बावल द्वारा राष्ट्रीय कृषि विकास योजना के तहत एक दिवसीय प्रशिक्षण शिविर का आयोजन किया गया। केंद्र निदेशक डा. सुधा छिस्कारा ने किसानों को पोटाश तत्व के प्रयोग तथा महत्व के बारे में बताया। क्षेत्रीय अनुसंधान के वैज्ञानिक डा. विक्रम यादव ने रबी फसलों में उत्पादन बढ़ाने में सहायक उन्नत कृषि क्रियाओं, मिट्टी के प्रकार, सिंचाई जल, किस्मों के चुनाव, बीज मात्रा, खरपतवार नियंत्रण के बारे में जानकारी दी। डा. मुकेश जांट ने पोटाश तत्व के महत्व, कमी के लक्षण, प्रयोग के बारे में विस्तार से जानकारी दी। डा. जयपाल यादव ने उर्वरक प्रयोग क्षमता बढ़ाने में कीट एवं बीमारियों की रोकथाम के महत्व पर प्रकाश डाला। डा. रमेश कुमार ने रबी फसलों में खादों के संतुलित प्रयोग के बारे में बताया।