Case study

4.Integrated nutrient management of winter paddy

Agro-climatic zone for which the practice is relevant- Old alluvial zone

Micro-farming situation- Rainfed medium to lowland situation

Brief description- Injudicious and indiscriminate application of inorganic fertilizers in unscientific combinations is the major constrains for low productivity of the crop. Keeping this view in mind Howrah KVK conducted an on farm trial on Farmers' field on "Integrated nutrient management of winter paddy under rainfed medium to lowland situation of Howrah District". The production increased to a tune 27.5% over farmer's practice by applying **fertilizer based on soil test fertilizer recommendation along with seed inoculation with *Azotobacter* + 75% recommended N dose.** With the integration of organic and inorganic fertilizers based on soil testing increase the yield to 51 q ha^{-1} as compared to the conventional practice 40 q ha^{-1}. B: C ratio also increases from 1.32 to 1.59.

How the practice may effectively address the particular problem issue- This technology back up provided by KVK sensitize the "integrated nutrient management" of paddy cultivation amongst the farmers and now they are getting the benefit out of this practice. With the introduction of this technology in Jagatballavpur block of Howrah district, more than 50 numbers of farmers are adopting this technology through KVK's training and demonstration. The area under paddy cultivation through integrated nutrient management with our technology is increasing in a tune of 12% every year. The average income of the farmers of the aforesaid blocks has also increased marginally.