

## Success story of large scale demonstrations

**Title: Nutrient management in Rice based on STCR equation in Govindapalle village of Sirivella mandal of Kurnool district, Andhra Pradesh.**

**Introduction:** Rice is the primary staple food of about 50% of the world's population. Rice yields in many parts of the country are declining due to conventional blanket and imbalanced use of fertilizers. Balanced nutrient management based on soil testing can assist in improving yields and nutrient use efficiency in rice.

**Problem identified:** The agricultural production technologies of late are dovetailed with fertilizer application. Farmers have been using chemical fertilizers from mid fifties as part of soil fertility management and crop production. Indiscriminate and excess application of chemical fertilizers was observed in Rice growing areas of Kurnool district . This alarming situation may create lot of problems in soil health, cost of production, subsidies on chemical fertilizers and environmental degradation.

**Intervention:** Crop demonstrations were conducted in 200 locations on soil test crop response based nutrient management in Rice @1.0 ha unit area covering 200 ha at Govindapalle village of Sirivella manda, Kurnool district under KC canal command area during Kharif-2018. Two levels of fertilizer treatments were imposed viz. farmers practice (NPK:292-188-28 Kg./ha) and Soil Test Crop Response (STCR) based nutrient application (NPK:207-42-66 Kg./ha.)

### **Output:**

Sl.No.	Particulars	Farmers practice	Demo: (STCR)
1	Yield(Kg./ha)	7005	7164
2	Cost of production(Rs./ha)	54647	49341
3	Gross income (Rs./ha)	147112	150434
4	Net income (Rs./ha)	92465	101093
5	C:B ratio	1:2.69	1:3.05

Net saving on cost of production was Rs.5306/ha due to controlled application of chemical fertilizers based on Soil testing and an amount of Rs.8628/ha was realized as additional income due to low cost of production and yield increments in demonstrations.

**Outcome:** It was observed that cost reduction on chemical fertilizers is around Rs.10.0 lakhs with an additional income of Rs.17.0 lakhs due to adoption of soil test crop response based nutrient management in rice demonstrations (200 ha) . Further there is a lot of scope to adopt this technology in remaining rice area of same village and surrounding villages.



