Lean Farming in East Godavari District

National Agro Foundation implemented Lean Farming Project in East Godavari District of Andhra pradesh during Rabi 2019. Paddy is the major crop in East Godavari.

Mr. Adappa Lakshmana Rao in Vemulavada village, Karappa Mandal is a traditional farmer, cultivating paddy in his 1.5 acres of land. Normally he cultivate paddy by using more chemical fertilizers without knowing the actual requirement for paddy and use more chemical pesticides to control pest and disease.

Mr. Lakshmana Rao participated in the intensive technical training conducted by NAF in Tamilnadu. He came to know all the agricultural technologies to be followed in paddy cultivation including soil health management, comprehensive soil analysis, integrated nutrient management, integrated pest management, etc.

He wanted to test the technologies he learnt and requested NAF to establish Front Line Demonstration in his 50 cents of land and planned the rest of one acre with conventional method. Soil sample was taken in his 50 cents land and sent to NAF lab for analysis. Based on soil test report, he incorporated 250 kg lime to reclaim his demo plot.

Mr. Adapa Lakshmana rao installing Light trap in his Demo plot

As per NAF experts recommendation and guidance, he did quality seed separation followed by seed treatment. As per soil analysis recommendation, he applied 4 kg Zinc and 3 kg Borax on seven days after

sowing. He also applied 25 kg DAP, 38 kg Urea, 12.5 kg Potash and 25 kg 17:17:17 complex as split doses as per the recommendation.

He followed prophylactic pest control measures in demo like installation of bird perches, pheromone traps, yellow sticky trap, spraying of Azadirachtin (organic pest repellent) and Pseudomonas. fluorescence (biofungicide). As per the need, he sprayed two spays of chemical pesticide. He also sprayed Panchakavyam (organic growth promoter) in demo.

In his control plot, the farmer followed conventional practices where he applied more chemical fertilizers and six rounds of chemical pesticide sprays.

The total expenditure was Rs.27,412 and Rs. 31,420 in his 0.5 acre demo and 1 acre control plots respectively. The yield was 3750 kgs in demo(0.5 ac) and 3000 kgs in control (1 acre)

The yield and expenditure were converted into per acre basis for comparison and the following are the results.

Sl no.	Particulars	Demo	Control
1	Yield / ac in kg.	3750	3000
2	Expenses /ac in Rs.	27412.2	31420
3	Total Revenue in Rs	62475	49980
4	Profit/ac in Rs.	35063	18560
5	Cost of chemical pesticides in Rs.	810	9200
6	Cost of production per Kg in Rs.	7	10

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While comparing the demo and control, the farmer availed yield increase by 25 % and profit increase by 89% in demo plot. In addition, he has reduced chemical pesticides drastically in demo which reduces chemical contamination in soil, water and the produces.


Shot on OnePlus
By Naidu kakarla


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