

COTTON *Innovate*



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NAIP-Cotton Value Chain, Success story in ELS cotton cultivation -A case study

Shri Rangaraj. M, S/o. Muthegowder, a farmer of Thoppampalayam village, Arasipalayam (Post) Kinathukadavu (block), Pollachi (TK) Coimbatore is one of the project farmer of NAIP- cotton value chain project. He has 4.25 acres of rainfed land. Soil tests conducted showed that soil is sandy clay loam in texture. Its fertility status showed that it was low in available N (138.3 kg/ha), medium in available P (13.6 kg /ha) and high in available K (358.2 kg /ha) with pH (6.3) and EC (0.14 dsm-1). The predominant crops cultivated were tomato, chilli, cotton and fodder sorghum. Cotton was cultivated in an area of 1.6 acres with cow pea and maize as component crop of IPM in 2011-12. Integrated management practices prescribed by CICR under NAIP-CVC project were followed by the farmer.

The Extra Long Staple (ELS) genotype RCHB 708 Bt Hybrid was planted at 150 x 60 cm in the month of July, 2011 under rainfed conditions. Moisture conservation practice of furrow opening after last intercultural operation was followed. Integrated nutrient management was carried out with 3 tons of

poultry manure, 7 tons of farm yard manure, bio fertilizer and 81.5:89.0: 174.0 kg of N, P₂O₅ and K₂O fertilizer nutrient for 1.6 acre of land. Split nutrient applications at three stages viz. 45, 75 and 105 DAS were carried out. The crop had 37-42 sympodia with 150 to 420 green bolls per plant. Techniques involved in clean cotton picking were followed. Sucking pests were effectively managed by five insecticidal sprays. The yield recorded was 26.5q of seed cotton from 1.6 acre of land which amounts to 40.9 q seed cotton/ha. In addition 70 kg of cowpea and one quintal of maize was also harvested from the border crop. Cost of cultivation was Rs. 61,750/ha while net return was recorded as Rs. 1,22,342/ha. Benefit cost ratio was 2.98. The National average productivity of ELS is 370 kg /ha of lint. The farmer has achieved high yield (40.9 q/ha) in ELS cotton under rainfed condition by adopting integrated cotton management practices prescribed by NAIP-CVC project from CICR.



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