

## **Diversified enterprises brought prosperity in life.**

Sri. D. Chandra Sekhar Reddy, aged 48 years is a resident of Yerragudi village (Banaganapalle mandal, Nandyal district.). He is holding 4.0 ha of land under agriculture with 2 bore wells for irrigation. He used to produce Paddy and Maize crops in his total land of 4.0 ha for the past several years. He is a good farmer with education upto SSC and practicing agriculture handed over to him from his ancestors in the same method his predecessors were doing. His soils were alfisols with good drainage facility but low in organic carbon content. He attended few of trainings and interaction meetings conducted by KVK in their village as part of DFI Programme. He got motivated with new crops, varieties, technologies and opportunities for better income being offered by KVK. He has chosen to diversify his resources for taking up different systems viz., Sericulture and Horticulture in addition to already existing Agriculture and Livestock with him. He was keen to practice almost all the new methodologies and technologies in the selected farming systems with continuous advisory and monitoring from the concerned scientists of KVK.

### **Technological interventions recommended by KVK :**

Rice : New improved resistant varieties of ANGRAU & PJTSAU (Nandyal Sona, Telangana Sona) were adopted with INM and Integrated management of Stem borer and Blast. Green manuring is also being followed. Crop rotation with zero tillage maize in rabi followed.

Maize : High yielding private hybrids, Paired row sowing, IPM for Fall Army Worm, Chemical weed management, mechanical harvesting, ploughing down of stubbles and debris with rotavator for enriching the soil and conserving resources.

Redgram : High yielding variety LRG 52 recommended with IPM for Maruca and Pod fly. Recommended to take up seed treatment and soil application of Trichoderma towards management of wilt disease. Intercropping with millets at 5:1 ratio followed.

Pomegranate : As he is having red sandy soils, with medium depth and good drainage and as arid climate prevails in most of the time in the year, KVK suggested him to go for Pomegranate plantation, as a dry land horticulture crop. The variety Bhagwa was recommended at 4 m x 3 m spacing with IPDM for sucking pests, borers and bacterial blight, under drip irrigation. He was also suggested to use Bio enriched Compost as basal soil application for improving soil carbon and nutrient base. The farmer adopted all the recommended practices and followed even fruit bagging to protect the fruits from pests and diseases and to improve the colour.

Sericulture : As he is having sufficient own family work force, he was suggested to go for Sericulture to some extent in his field, utilizing the Govt. scheme for mulberry plantation and construction of Sericulture shed. KVK facilitated the farmer in getting the practical know how of the technology, mulberry cuttings and silk worm DFLs and linked with department of sericulture for suggestions and problem redressal.

Milch Cattle : Improved fodder variety Super napier cuttings were supplied, Balanced feeding techniques taught, Area Specific Mineral Mixture and Bypass Fat supplementation were given for improving milk production.

## Details of yield and economics

Crop	Before Intervention (2016-17)				After Intervention (2021-22)				% Increase over base	
	Area (ac)	Production (Q)	Gross Income (Rs.)	Net income (Rs.)	Area (ac)	Production (Q)	Gross Income (Rs.)	Net income (Rs.)	Production	Income
Rice	7	157.5	236250	89250	3	105	204750	120750	-33	35.29
Maize	3	75	102375	57875	3	93	186000	111000	24	91.8
Redgram	-	-	-	-	2	14	82600	44600	-	-
Pomegranate	-	-	-	-	3	230	575000	323000	-	-
Sericulture	-	-	-	-	2	8	304000	164000	-	-
Buffaloes	5	5500 lit	137500	85000	5	8600	473000	363000	56.4	327.1
	<b>10</b>			<b>232125</b>	<b>13</b>			<b>1126350</b>		<b>485.7</b>



**Conclusion :** The farmer after adopting diversified farming systems and improved technologies as recommended and supported by KVK, with efficient utilization of all the resources and technologies could able to achieve a net income of Rs.11,26,350/- during 2021-22 which is 485.7% more than his earlier (2016-17) income of Rs. 2,32,125/- when he was growing only 2 crops in his field and had milch cattle.