

## Success Stories

### Highest yield obtained in oil palm by adopting micro irrigation and split application of macro and micro nutrients

**Farmer: Inapakolla Madhava Rao, East Godavari Dt., Andhra Pradesh**



Adopted triangular method of planting; entire land was filled with tank silt for better moisture conservation; adopted micro irrigation for effective utilization of water, to save power and ground water and reduce weed growth; regularly applying Farm Yard Manure (FYM) @ 100 kg per palm in two splits; adopted fertilizer application in four splits per year; after harvesting of bunches (34 harvests per year) cut fronds are made into 4-6 small pieces and used as mulch in the palm basin; applying organic manure twice in a year to each palm; cow dung is used one time in a year and FYM is used for second time. This practice is being adopted to obtain sustained high yield of 40 tonnes FFB/ha.

#### Crop wise income, cost-benefit ratio, gross and net income

Crop	Yield	Price (Rs.)	Gross income/ ha (Rs.)	Cost of cultivation/ ha (Rs.)	Net income / ha (Rs.)	Cost Benefit Ratio
Oil palm	40 tonnes FFB/ha	8500 / tonne FFB	340000	145750	194250	0.75

### Adopting intercrops in oil palm paved way for “Doubling the Farm Income”

**Farmer: Vandanapu Suryachandra Rao, West Godavari Dt., Andhra Pradesh**

Adopted micro irrigation for effective utilization of water, to save power and ground water and reduce weed growth, once in every three months; regularly applying Farm Yard Manure (FYM) and vermicompost to obtain sustainable yields; adopted fertilizer application in six splits per year. He got inspired by seeing intercropping systems developed by ICAR - Indian Institute of Oil Palm Research, Pedavegi. He collected planting material of long pepper from ICAR-IOPR and developed a demonstration plot in his field. While raising nursery and intercrops in oil palm and coconut, he invited fellow farmers and inspired them to adopt intercrops for effectively utilizing the horizontal and vertical space. Adopted intercrops *i.e.*, long pepper, cocoa and banana in oil palm. Since inception, adopted harvesting of Fresh Fruit Bunches (FFB) of oil palm with aluminium pole attached with sickle and avoided manual harvesting. Square method of oil palm planting with 9 m space was adopted to utilize horizontal and vertical space for inter crops. To utilize vertical space he introduced long pepper in the district for the first time and the marketing is facilitated through M/s. Dauber India Ltd., through buy back system. He multiplied the planting material, made available to the farmers free of cost. Arranged awareness campaign on cultivation of long pepper as intercrop in oil palm and coconut.



### Crop wise income, cost-benefit ratio, gross and net income

Crop	Yield	Price (Rs.)	Gross income/ ha (Rs.)	Cost of cultivation/ ha (Rs.)	Net income / ha (Rs.)	Cost Benefit Ratio
Oil palm	23 tonnes FFB	8500 / tonne FFB	195000	82500	112500	0.73
Banana	750 (Bunches)	120/bunch	90000	25000	65000	0.38
Cocoa	235 kg	160/kg	37600	15000	22600	0.66
Long Pepper	125 kg	400/kg	50000	6250	43750	0.14

### Obtained sustainable yield in oil palm by adopting fertigation, in-situ decomposition - could double the farm income by intercropping

**Farmer: Simhadri Appaji Srinu, West Godavari Dt., Andhra Pradesh**



Adopted triangular method of planting; adopted micro irrigation for effective utilization of water, to save power and ground water and to reduce weed growth. Adopted fertigation in his field for the first time in the village. He is also using the waste decomposer to decompose the waste generated in the field and providing to the crops through fertigation. Modified the fertilizer dose to meet the demand of both main crop and inter crop. Fertilizers and waste decomposer are being provided to main crop and intercrop through fertigation. Reduced the cost of fertilizers by half, thus saved cost of fertilizers (inputs) and labour.

### Crop wise income, cost-benefit ratio, gross and net income

Crop	Yield	Price (Rs.)	Gross income/ ha (Rs.)	Cost of cultivation/ ha (Rs.)	Net income / ha (Rs.)	Cost Benefit Ratio
Oil palm	25 tonnes FFB	8500/ tonne FFB	212500	83750	128750	0.65
Cocoa (intercrop in oil palm)	3.75 qt.	15000/qt	56250	25000	31250	0.80