Effect of DFI intervention **Name of Institute: ICAR-RCER**

Name of farmer: Sri Samrendra Kumar
Address: Yashwantpur, Rukhai, Chandi, Nalanda
Mobile Number: 9279337119
Age: 54 years
Education: Non-matric
Size of land holding (in acre): 2

1) Before Intervention

Component Description		Benchmark (Baseline period 2016-17)			
Components	Names	Area (Acre)/Number	Production (Q/Liter/No.)	Gross Income (Rs.)	Net Income (Rs.)
Field Crop 1 (Kharif- K)	Rice	1.5 acre	18q	25200	14250
Field Crop 2 (rabi- R)	Wheat	1.5acre	16.5q	23100	13260
Hort. Crop 1	Mango	3 no.	1.2q	3600	3250
Livestock 1	Buffalo	1 no.	875 lits	30,625	8500
Other enterprise (Specify)	-	-	-	-	-
Total		2.0 acre	39.2q + 875lits.	82525	39260

2) Status in 2020

Component Description		Period 2020-21				% increase over base year	
Components	Names	Area (Acre)/No	Production (Q/Liter/No.)	Gross Income (Rs.)	Net Income (Rs.)	production	income
Field Crop 1	Rice (K)	0.8	16q	25600	14650	-	-
Field Crop 2	Wheat (R)	0.8	14.5q	23200	12980	-	-
Hort. Crop 1	Mango	10 plants	6.2q	18,600	15,700	-	-
Hort. Crop 2	Guava	10 plants	4.5q	9000	7,500	-	-
Hort. Crop 3	Banana	20 plants	4.1q	8200	4,200	-	-
Vegetables	Bhindi- C.F.- Onion	0.5 acre	42+ 60 + 38 q	1,40,000	90,260	-	-
Livestock 1	Buffalo	1	1610 lits.	67,620	15,270	-	-
Livestock 2	Cow	3 (C B)	4800 lits.	1,92,000	49,250	-	-
Other enterprise	Fishery	1200 sq m.	3.6q	54,000	42,000	-	-
Total	-	-	188.9q + 6410lits.	1,48,200	94,460	-	140.6

Brief: The farmer used to get annual income of Rs39,260 from rice- wheat cropping system and livestock etc. He faced problems like low productivity of crops, low milk yield from livestock and low production from mango plant and therefore, livelihood of the farm family was below standard and always live in debt. With DFI interventions like IFS, by inclusion of fishery component, livestock component, vegetables etc. in a scientific manner with proper land allocation under different components and recycling of farm wastes into the system, he is getting annual income of Rs 94,460. In addition, there is cost saving of Rs. 7,460 due to nutrient recycling within the system which reduced about 33 percent of nutrient requirement through chemical fertilizers and pesticides due to waste recycling.

Note: Increase in percent production and income for individual component has no meaning as area under different component is different as benchmark data, also there is inclusion of some new enterprises into the IFS model for enhancing productivity and net income along with securing nutritional security of the farm family. Therefore, only increase in production and income of whole IFS system has been sown.

Field crops + hort.

Livestock integration

Fish production + vegetables on bund