

Supplementary Table 1 Economical performance of cropping system

Cropping system	Area (ha)	Gross return (₹)	Net return with family labour (₹)	Employment (man-days)
Rice-french bean-groundnut as family nutrition	0.08	16261	10899	90
Rice-berseem-sorghum as livestock nutrition	0.143	7649	3266	122
Rice-sweet corn-tomato+coriander as family income	0.33	21681	12231	212
Rice-garden pea-cowpea	0.15	14340	6014	117
Rice-fallow	0.29	5124	2985	108
Farm yard manure (FYM)	0.001	12543	7306	95
Compost manure	0.001	11235	6544	108
Vermicompost	0.001	8627	5025	126
Control (No recycled manure)	0.001	4561	2657	0

C₁, Rice-french bean-groundnut as family nutrition; C₂, Rice-berseem-sorghum as livestock nutrition; C₃, Rice-sweet corn-tomato+coriander as income enhancement; C₄, Rice-garden pea-cowpea; C₅, Rice-fallow.

Supplementary Table 2 Key performance indicators of IFS

Key performance indicators	Recycled manure			Cropping system				
	FYM	Poultry	Mushroom	C ₁	C ₂	C ₃	C ₄	C ₅
Water productivity (kg/m ³)	1.58	1.83	1.96	2.02	2.13	3.14	2.56	1.56
Initial Soil organic carbon (%)	0.55	0.63	0.62	0.56	0.65	0.70	0.78	0.54
Soil organic carbon (%)	0.64	0.77	0.72	0.63	0.75	0.76	0.88	0.69
Energy input (MJ)	31542	37355	35993	32254	37176	39874	32983	38015
Energy output (MJ)	72882	90475	87054	74278	83279	92156	73589	87594
Employment generation (Man-days)	184	311	213	215	204	325	220	187
GHG emission (kg CO ₂ eqv.)								
Source	3902	4456	4718	3903	4498	3865	4856	4600
Sink	3919	4516	4844	4523	5147	4954	5623	5018
Net (Source-Sink)	-17	-60	-126	-620	-649	-1089	-767	-418