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Livelihood improvement

through integrated farming system

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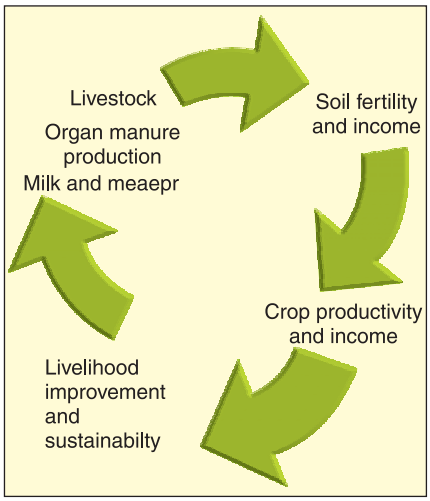
A computer personnel (Kavita Umashankar) turned in to a farm-women with her 8 acres of land. She took challenge to develop her farm into a model farm. After all land development activities, she thought of planting horticulture crops with view of that they would give sustainable income in near future, and then divided whole land into 6 plots, started planting of different plantation crops. Block-wise different planting was done during 2008-09. During 2015' farmer produced 30,000 sandalwood seedlings from which she earned ` 9,00,000 by selling sandalwood seedlings, which is gaining enormous response from farming community. By looking into her involvement in the field, management and dissemination skill. University of Agricultural Sciences, Raichur awarded her as Best Farm-Women at Krishi mela during 2013.

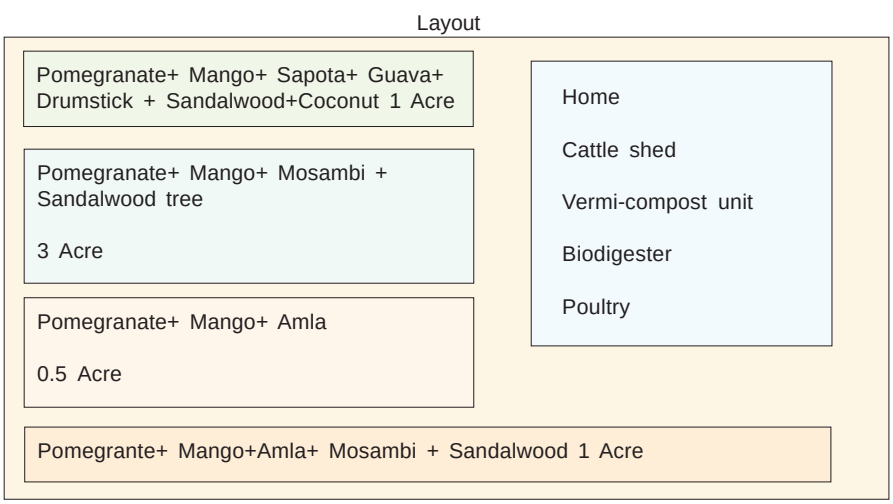
Key words: Integrated farming system, Intercropping, Livelihood improvement

IN first plot, farmer planted pomegranate+ mango+ sapota+ guava + drumstick + sandalwood + coconut; in second plot, planted pomegranate+ mango+ lime+ sandalwood tree; in third plot, planted jasmine + sandalwood tree + mango + drumstick + custardapple +guava; in fourth plot, home, cattleshed, vermicompost, biodigester and in fifth plot planted pomegranate+ mango + *amla*+ *mosambi* + sandalwood tree and in sixth plot planted pomegranate + mango + *amla*. To feed these plantations, farmer established vermi-composting unit, Jeevamruth, Kachada Amruth, vermiwash and bio-digester units for supply of nutrients and neem-based products for pest control. At bio-digester, a pump was fitted from which nutrient solution is directly feed to the plantation. Since sufficient water is not available to irrigate these plantations, adopted drip irrigation system by taking subsidy from the government and supplying nutrients to the plants through fertigation. Almost plantations, done by Kavita Umashankar, were fed with organic inputs. Due to diversified crops and cropping system, pest and diseases

Quantity of agriculture waste produced and recycled

Animals/ Crop	Quantity produced (tonne)	Recycled (tonne)
Cattle	45	22
Sheep	12	5
Poultry	3	0.75
Crop waste	32	21





Blocks	Crops	2013-14		2014-15		2015-16	
		Qty tonne	Income ₹	Qty tonne	Income ₹	Qty tonne	Income ₹
B1	Pomegranate	1.13	112500	1.69	139000	2.25	200000
	Mango	0.44	25000	0.44	25000		
	Amla						
	Citrus	0.94	37500	1.06	50000	3	133000
	Sandalwood	0.013	12500	0.019	180750	0.031	31000
	Total		187500		394750		364000
B2	Pomegranate	0.57	56250	0.85	69500	1.13	100000
	Mango			0.44			
	Amla						
	Total		56250		69500		100000
B3	Pomegranate	3.39	337500	5.07	417000	6.75	600000
	Mango			1.32			
	Citrus	2.82	112500	3.74	200000	6	267000
	Sandalwood	0.013	37500	0.057	56250	0.093	93750
	Total		487500		673250		960750
B4	Pomegranate	1.13	112500	1.69	139000	2.25	200000
	Mango		25000	3.06	175000		
	Guava		2375		10250		11000
	Sapota						
	Sandalwood	0.013	12500	0.019	18750	0.031	31250
	Curryleaf						
	Drumstick	0.625	3750	0.5	30000	0.6	30000
	Coconut		15000		25000		25000
	Total		171125		398000		297250
B5	Pomegranate	1.47	206225	2.19	180700	2.93	260000
	Mango	3.06	175000				
	Sandalwood	0.017	16250	0.025	24375	0.04	40625
	Jamoon						192000
	Lemon	0.12	100000	0.12	100000	0.12	100000
	Total		497475		205075		492625
B6	Pomegranate	1.13	108725	1.69	139000	2.25	240000
	Mango						
	Sandalwood	0.013	12500	0.019	18750	0.031	53125
	Custardapple	0.3	9000	0.5	20000	0.6	24000
	Guava		16625		10250		11000
	Jasmine						
	Drumstick	0.625	26250	0.05	30000	0.6	30000
	Total		173100		177750		317125
B7	Cattle litre	2737	71175	3102 litre	80650	3175 litre	83767
	Sheep rearing	390 kg	88800	380 kg	95000	395 kg	95000
	Poultry		168000		192000		204000
	Vermicomposting						
	Bee keeping						
	sandalwood seedlings					30000	900000
	Total		3,27 975		367 650		12,82 767
Gross income ₹			19,00925		22,85,975		38,14,517
Gross income of 3 years ₹		8001417					
Cost of cultivation ₹		12,50,500					
Net income ₹		67,50,917					
B:C		6.40					

Complementary effect
Combination of various enterprises having complementary effect on each other
Selected suitable crop/plant and varieties according to local situation
Improving water, nutrient and resource use efficiency.

are very less, farmer said. Soil physical, chemical and biological properties were improved due to application of vermicompost, biodigester, *jeevamruth* and not applying chemical fertilizers since last two years, farmer said proudly.

Most of the farmers hesitated to plant sandalwood tree due to theft problem, but Kavita took bold step to plant sandalwood and planted 1,400 plants. Farmer said if left sandalwood for wood purpose, definitely there is risk, but farmer is harvesting sandalwood seeds and directly selling to Gujarat state by which earned ₹ 5 lakh. In livestock management, rearing 10 cattle, 10 sheep and 68 poultry birds from which earning ₹ 10,78,392, this enterprise is giving sustainable income to farmer apart from yielding dung, urine, sheep manuring, poultry manuring which were directly influencing on soil fertility and productivity enhancement. Add one table on waste obtained, and amount recycled.

Since 2013, Ms Kavita has got income of ₹ 81, 20,732 with net income of ₹ 68,70,232. ICRISAT had invited as resource person in National Women Farmer Day, 2014 (held at Hyderabad) and awarded her as gold award. KVK, Bidar invited her as resource person in *Krishi Mela* held at KVK, Bidar during 2015. UAS, Raichur had invited as resource person in Yuvakar Nade Krishi Kadage (held on 08 January 2016) and facilitated by Agriculture Minister, Government of Karnataka. Ms Kavita Umashankar spoke on role of youth in agriculture development for which all delegates appreciated her strategies.

Farmer is actively involved in the dissemination of technologies and impact of innovative work what she has done to the farming community. Various farmers, students, scientists visited farm, interacted with Ms Kavita Umashankar and gathered information. Now this farm is role model to all farming community.

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