


Sl.No	Main Issue	Activities Influence	Impact	Plan	2018-19		2019-20	2020-21	2021-22
					Plan	Actuals	Plan	Plan	Plan
1	Biodiversity	Burning of Sugar cane trashes in the field	Endanger to species	Training all farmers to decompose the trashes instead of burning . Use of green trashes as cattle feed	85%	87%	90%	95%	100%
			Soil nutrients depletion						
			Air pollution						
			Change in nature of soil						
		Excess application of chemical fertilizers	Soil pollution GHG emission Ground water contamination	Training 100% BONSUCRO farmers to apply the fertilizers as per the university blanket recommendation/as per soil analysis report	100%	92%	100%	100%	100%
2	Ecosystem services	Killing of snakes, rats and ants	Breaking of food chain and food web thereby creating disharmony in ecosystem services	Creating awareness among farmers for not killing snakes, rats and ants etc.,	85%	85%	90%	95%	100%
		Exploitation of HCV area	Disturbance of reserved forest area	SOP has been made to educate and create awareness among farmers	100%	100%	100%	100%	100%
3	Soil	Application of Inorganic fertilisers	Soil pollution Leachate affects the surface water	Training 100% BONSUCRO farmers to use natural/ organic fertilisers & educate farmers to use inorganic fertilisers as per the recommended dosage	100%	92%	100%	100%	100%
4	Water	Usage of ground water for irrigation	Resource depletion due to high	Implementation of Drip irrigation wherever possible.	5%	4%	10%	15%	20%
				Training 100% BONSUCRO farmers to measure the quantity of water irrigated	100	100	100	100	100
				Trash mulching/shredding	85%	87%	90%	95%	100%
5	Air	Trash burning	Pollute the atmospheric air	Trash mulching/shredding	85%	87%	90%	95%	100%
		Improper application of chemical fertilisers	Volatilization of fertilizers	Training the farmers to apply the fertilizers with adequate soil moisture and covering with soil	60%	64%	70%	75%	80%
6	Climate Change	Use of diesel .	Resource depletion	usage of diesel will be monitored and optimised for BONSUCRO farmers	100%	100%	100%	100%	100%
			GHG emission	Train the BONSUCRO farmers to maintain the tractors and use high efficiency tractors and reduce the number of ploughings	100%	74%	80%	85%	90%

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7	Use of Agro chemicals	Usage of chemical Pesticide & Weedicide	Soil & environment	Train the BONSUCRO farmers to use neem and organic based pesticides and create awareness among farmers on banned pesticides	100%	100%	100%	100%	100%
				Weed management by trash shredding, De-Trashing/mulching	85%	87%	90%	95%	100%
8	Use of Artificial Fertilisers	Improper application of artificial fertilisers	Soil pollution Insufficient nutrient for other crop (incase of crop change) Ground water pollution	Training 100% BONSUCRO farmers to apply the fertilizers as per the university blanket recommendation/as per soil analysis report	100%	85%	90%	95%	100%
9	Sugar Cane Burning	Accidental burning	Air pollution	Creating awareness to take measures the causes for accidental fire like electrical wires short circuit, from cigar bits, cooking etc for 100% BONSUCRO farmers.	100%	100%	100%	100%	100%
10	Waste	Segregation of waste	Soil/ Health implications	Training of BONSUCRO farmers on waste segregation and disposal to the local panchayat waste management system.	100%	100%	100%	100%	100%
		Trash		Trash and Bio degradable farm wastes has to be incorporated in the soil, which will enrich the soil & improves soil fertility.	85%	87%	90%	95%	100%

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