

## TECHNICAL PROTOCOL UNDER MKSP

Name of PIA: HARSHA TRUST

<b>Mention Agro-climate, soil condition, Cropping pattern, major crops of the Intervened area</b>		
Agro Climatic Zones		
Major Crops	Khariff: Paddy and Ragi	
Major Agricultural Season	Main season is Khariff	
Pattern of Agriculture	Rainfed	Area under cultivation are mostly rainfed
Major Agricultural Activities	Practices: Traditionl Practices like sowing paddy grains or transplanting in 30 days seedling. Seed sowing is done for Ragi and Maize.	Training module developed (yes)
	Vegetable Cultivation: seed treatment is not practice, No proper spacing is maintain, No intercultural operation	
<b>1</b>	<b>Pre Cultivation</b>	
	<b>Crop selection</b>	Based on Agro-climatic zone, soil, availability of water etc.
	<b>Seed selection</b>	Indigenous or hybrid based on the availability and seed testing.
	<b>Seed rate</b>	different crops have different seed rate
	<b>Seed Treatment</b>	Seed treatment is done to avoid seed borne diseases, should be done where seed borne diseases are prevalent and to enhance germination percentage. In case of transplanted crop it can also be seedling treatment
<b>2</b>	<b>Cultivation</b>	
	<b>spacing</b>	Depends on the crop, variety, soil and availability of water
	<b>sowing/ Transplanting</b>	Broadcasting, line sowing by dibbler, seed drill, drum seeder or transplanting by conventional method or improved
	<b>Intercultural operations</b>	Weed management (manually/ mechanically/ organic way) earthing up for root crops, soil loosening, many cultural practices for crop management
<b>3</b>	<b>Water conservation and water management</b>	
	<b>Methods of water conservation</b>	Mulching, some special structure etc.

	<b>Methods of irrigation</b>	border strip method, check basin, furrow, drip etc	
	<b>Plan of irrigation</b>	It depends on the critical stages of different crops	
<b>4</b>	<b>Soil fertility Mgmt. /Soil health enrichment and crop nutrient management</b>		
	<b>Bio fertilizer /Organic Manure/</b>	Use of Compost is only to maintain soil health. Use of Gladicidia for soil fertility.	
	<b>Methods of application/Practices</b>	Mixing with soil while Plouging.	
	<b>Duration/ Scheduling of application</b>	One time application	
	<b>Methods of enhancement of soil biomass</b>	mulching, green manuring, adding of organic biomass in the soil, plantation of tree in the bunds (which add biomass to soil)	
<b>5</b>	<b>Insect/Pest/ Management</b>		
	<b>Insect/ Pest control methods/ practices (E.G. If NPM, please specify particular method of control under NPM)</b>	Biological:Handi Khata	
	<b>Insect/ Pest control substances(biopesticide/ others etc)</b>	poochimarandu (herbal solution), effective microorganismsfermented plant extract (em-fpe), agricultural formulationsor herbal pesticides, chilli-garlic-ginger extract, beejamruthapanchagavya	
<b>6</b>	<b>Disease Management</b>		
	<b>Disease control methods/ Practices</b>	Growing resistant varieties/Seed treatment/ Border crops/Crop rotation/yellow and white plates to control sucking pests/Mixed cropping	
	<b>Disease control substance (bio fungicide/others )</b>	Cow dung asetofida extract/Sontipalakasayam/Maredupathramkas hayam	
<b>7</b>	<b>Harvesting</b>		
	<b>Methods of harvesting</b>		
<b>8</b>	If the PIA have any post harvest technology regarding storage of food grains, Seeds, value addition, please specify Pulses: Mixing of neem leaf with seed prevents the attack of insect.		