TECHNICAL PROTOCOL UNDER MKSP

Name of PIA: LOKA KALYAN PARISHAD, WEST BENGAL.

	_	ndition, Cropping pattern, major crops o	of the Intervened	
are Ad	ro Climatic Zones	Name the agro climatic zones in which the	e PIA works	
_	ajor Crops	A crop calendar can be made, i.e. in	Crop calendar	
ινιαμοί Οιορο		which season what crops are cultivated	developed	
Major Agricultural Season		Main seasons are Kharif , rabi and zaid		
Pattern of Agriculture		Rainfed or irrigated	Area under	
			cultivation both	
		Sepa	rainfed and	
			irrigated	
	Separate Sh	eet Attached for the above sul	<u>oject</u>	
Ма	ijor Agricultural Activities	Practices	Training module	
		(Please mention the name of specific practice/method/substance/equipme nt used)	developed (write yes/ No)	
1	Pre Cultivation			
		based on Agro-climatic zone, soil,	Yes, done	
	Crop selection	availability of water etc.		
		Indigenous or hybrid based on the	Indigenous &	
	Seed selection	availability:	HYVs	
	Seed rate	different crops have different seed rate	Yes	
		Seed treatment is done to avoid seed	Practicing under	
		borne diseases, should be done where	S.A. tech.	
		seed borne diseases are prevalent and to enhance germination percentage. In		
		case of transplanted crop it can also be		
	Seed Treatment	seedling treatment		
2	Cultivation	securing treatment		
_	spacing	depends on the crop, variety, soil and	Practicing under	
		availability of water	S.A. tech	
	sowing/ Transplanting		Mostly line	
			sowing/transplanti	
			ng. Broadcasting	
		Broadcasting, line sowing by dibbler,	done on residual	
		seed drill, drum seeder or transplanting	moisture crops	
		by conventional method or improved	(Poyra).	
	Intercultural operations	weed management (manually/	Manually &	
		mechanically/ organic way) earthing up for root crops, soil loosening, many	Mechanically	
		cultural practices for crop management		
3	Water conservation and v			
-	The second of th		Including cover	
	Methods of water	Mulching some special structure etc		

Methods of water

Mulching, some special structure etc.

	conservation		crop, low demand	
			crop, fallow	
			plough, plot bund	
			raising etc.	
	Methods of irrigation	border strip method, check basin,	Yes, in addition	
		furrow, drip etc.	Pitcher drip/seap	
		•	Judiciously done	
		It depends on the critical stages of	as per S.A	
	Plan of irrigation	different crops	practice.	
4	Soil fertility Mgmt. /Soil health enrichment and crop nutrient management			
•	Biofertilizer /Organic	Jeevamrutha, Panchagavya, Organic	In addition	
	Manure/	urea, FYM, enriched vermicompost, low	Rhizobium cultures,	
		cost vermicompost, tank silt,	Azotobactors,	
		vermiwash, microorganism, fish oil,	Azospirillium (PSB)	
		, , , , , , , , , , , , , , , , , , , ,	are used.	
		amrit pani, egg lime, egg amino acid		
	Back along	handi katha etc.	V	
	Methods of	depends on the biofertilizer used	Yes, as per	
	application/Practices		application tech.	
	Duration/ Scheduling of	depends on the biofertilizer used	Yes, as per	
	application		application tech.	
	Methods of	mulching, green manuring, adding of	Turning of weed in	
	enhancement of soil	organic biomass in the soil, plantation of	to deep zone	
	biomass	tree in the bunds (which add biomass to	practiced in	
		soil)	addition.	
5	Insect/Pest/ Management			
	Insect/ Pest control	biological, mechanical, physical, cultural	In addition, Neem	
	methods/ practices (E.G.		leaf extract, Neem	
	If NPM, please specify		cake & seed extract	
	particular method of		etc. botanical use,	
	control under NPM)		cow dung extract,	
	•		cow urine, trap	
			crop/plants, bird	
	Incost/ Doot southed	Deachimen was deviced at a static set	purtures etc.	
	Insect/ Pest control	Poochimarandu (herbal solution),	In addition, trap	
	substances(biopesticide/	effective microorganisms fermented	crop/berrier, soup-	
	others etc)	plant extract (em-fpe), agricultural	k-oil emulsion,	
		formulation or herbal pesticides, chilli	narium leaf extract,	
		garlic-ginger extract, beejamrutha	neem leaf extract	
			etc. botanics, soap	
		panchagavya,.	water, merry gold,	
			basil etc. repellants practiced.	
6	Disease Management		practic c u.	
U	Disease Management			

Technical Protocol Under MKSP

Kalchini Block,	Soil Condition	Cropping pattern	Major Crops
Jalpaiguri	Flood prone, well drained,	Major area is covered	i) Plantation crops: Tea,
Terrai-Teesta	sandy loam to loamy sand	under tea and forest. Agri.	Aeronaut.
Aluvial zones:	with stone, shallow alluvial	Cropping pattern:	ii) Food grain – Rice, Maize,
	soil cap deposited over deep river sand. Soil is	i) Rice - fallow	Wheat.
	moderately acidic, low in organic matter, low in NPK	ii) Maize – Maize	iii) Oil seeds: safflower, Mustered.
	etc. major nutrients, well	iii) Maize – Vegetable	
	drained.	iv) Rice – Wheat/Oil seeds	iv) Seasonal veg: Colocasia, Flat bean, Long bean, Leafy vegs.(Mustered family) Cole crops,
			Gourds, Radish, Carrot etc.
		Agriculture pattern: Rain fed	v) Collected: forest food & & herb products.
Ithar Block,	Deep flood prone	i)Rice – Mustard - Mustard	Food grains: Rice, Wheat, Maize.
Goalpukur Block	moderately drained, sandy	,	
Littor Dinainur	loam to clay loam. Soil	ii) Jute – Rice – Mustard	Oil seeds: Mustered, Seseme
Uttar Dinajpur	slightly acidic to natural.	iii) Rice – Wheat	Pulses: Pigion pea.
Terrai-Teesta Aluvial zones:	Medium in soil nutral, Low in organic carbon, soil fertility medium to high.	iv) Maize _ Rice – Mustard/ Pulses	Seasonal Veg: Flat bean, Long bean, Different gourds.
		v) Maize – Rice – Veg.	Fruits: Mango, Jack fruit,
		vi) Veg – Rice – Veg.	Arecanut, Coconut, Pineapple, Banana, Guava etc.
		Agriculture pattern: Rain fed	
Harirampur &	Moderately drained, deep	i) Rice – Mustard - Mustard	Food grains: Rice, Wheat, Maize.
Banshira Block	loam to clay loam. Low in	ii) luto — Mustard	Oil coods: Mustard Cocomo
Dakshhin Dinajpur	organic carbon. Medium in P.K & other minerals soil	ii) Jute – Mustard – Mustard	Oil seeds: Mustard, Sesame, Groundnut, Pulses: Pegion pea,

Gongetic Aluvial zones:	fertility is medium to high.	 iii) Rice – Wheat iv) Maize _ Rice – Mustard/Pulses v) Maize – Rice – Veg. vi) Veg – Rice – Veg. Agriculture pattern: Rain fed 	Seasonal Veg: Flat bean, Long bean, Different gourds. Fruits: Mango, Jack fruit, Arecanut, Coconut, Pineapple, Banana, Guava etc.
Illambazr, Md. Bazar & Khairasole Block Birbhum Congetic Aluvial zones:	Deep (>90 cm) well drained loamy to sandy loam occurring on gently slopping to undulating plain with moderate erodibilty. Soil reaction ranges from 5.0-6.0, Low in fertility.	Rice – Fallow Rice – Mustard/Veg. Rice – Mustard Rice – Veg. Rice - Pulses Agriculture pattern: Rain fed	Food grains: Rice, Wheat Seasonal Veg.: Colocasia, Leafy veg, Broad bean, Long bean, Potato, Gourds. Pulses: Gram, Black gram, Red gram, Sesemum. Fruits: Mango, Banana, Guava Papaya, Jack fruits, Moringa etc.
Jhalda -2, Jaipur Block Purulia Red laluitec Aluvial zones:	Shallow to deep, stony, well drained, Loamy to sandy loam occurring on gentle to undulating plain with moderate erodibility, Soil reaction 5.0-6.0. Low in organic carbon & major minerals, Low in soil fertility.	Rice – Fallow Rice – Mustard/Veg. Rice – Mustard Rice – Veg. Rice – Pulses Agriculture pattern: Rain fed	Food grains: Rice, Wheat, Maize, Pulses: Black gram, Horse gram, Bengal gram. Seasonal Veg.: Colocasia, Leafy veg, Broad bean, Long bean, Potato, Gourds, Moringa. Fruits: Mango, Banana, Jackfruit, Papaya.