

Agriculture Contingency Plan for District: Surajpur

State: CHHATTISGARH

1.0 District Agriculture profile				
1.1	Agro-Climatic/Ecological Zone			
	Agro Ecological Sub Region (ICAR)	Sub Humid Region		
	Agro-Climatic Zone (Planning Commission)	Eastern Plateau and hill Region		
	Agro Climatic Zone (NARP)	Northern hill zone of chhattisgarh (AZ-72)		
	List all the districts falling under the NARP Zone* (*>50% area falling in the zone)	Surajpur		
	Geographic coordinates of district headquarters	Latitude	Longitude	Altitude
		23.21 N	82.85 E	527mt.
	Name and address of the concerned ZRS/ ZARS/ RARS/ RRS/ RRTTS	RMD,College of Agriculture and Research Station -Ambikapur(C.G.)		
	Mention the KVK located in the district with address	Krishi vigyan Kendra Ambikapur		
	Name and address of the nearest Agromet Field Unit (AMFU, IMD) for agro-advisories in the Zone	AMFU -RMD,College of Agriculture and Research Station -Ambikapur(C.G.)		

1.2	Rainfall	Normal RF(mm)	Normal Rainy days (number)	Normal Onset (specify week and month)	Normal Cessation (specify week and month)
	SW monsoon (June-Sep):	1056.8	57	17 June 25 th SMW, June	30 September 39 th SMW, September
	NE Monsoon(Oct-Dec):	48.4	6	Post monsoon (October-December)	-
	Winter (Jan- March)	37.0	6	Winter rains	-
	Summer (Apr-May)	50.1	4	-	-
	Annual	1192.3	73	-	-

1.3	Land use pattern of the district (latest statistics)	Geographical area	Cultivable area	Forest area	Land under non-agricultural use	Permanent pastures	Cultivable wasteland	Land under Misc. tree crops and groves	Barren and uncultivable land	Current fallows	Other fallows
	Area ('000 ha)	499.8	177.9	14.9	29.0	53.5	-	0	1.2	13.6	13.6

Source: *Agricultural statistic Chhattisgarh 2013

1.4	Major Soils (common names like red sandy loam deep soils (etc.))*	Area ('000 ha)	Percent (%) of total
	1. Entisol (Bhata-gravelly)	-	-
	2. Inceptisol (Matasi-Sandyloam)	-	-
	3. Alfisols (Dorsa-clayloam)	-	-
	4. Vertisols (Kanhar-clayey)	-	-
	5. Others (Sandy)	-	-
	Total	-	-

* mention colour, depth and texture (heavy, light, sandy, loamy, clayey etc) and give vernacular name, if any, in brackets (data source: Soil Resource Maps of NBSS & LUP)

Source: Directorate of Agriculture, Govt. of Chhattisgarh

1.5	Agricultural land use	Area ('000 ha)	Cropping intensity %
	Net sown area	155.643	114
	Area sown more than once	22.275	
	Gross cropped area	177.918	

1.6	Irrigation	Area ('000 ha)		
	Net irrigated area	17.495		
	Gross irrigated area	19.019		
	Rainfed area	158.73		
	Sources of Irrigation	Number	Area ('000 ha)	Percentage of total irrigated area
	Canals	55	1.602	-
	Tanks	868	0.380	-
	Open wells	28662	2.028	-

Bore wells	2189	0.530	-
Lift irrigation schemes	-	-	-
Micro-irrigation	-	-	-
Other sources (please specify)	-	-	-
Total Irrigated Area	-	-	-
Pump sets	-	-	-
No. of Tractors	-	-	-
Groundwater availability and use* (Data source: State/Central Ground water Department /Board)	No. of blocks/ Tehsils	(%) area	Quality of water (specify the problem such as high levels of arsenic, fluoride, saline etc)
Over exploited	Nil	-	-
Critical	Nil	-	-
Semi- critical	Nil	-	-
Safe	NIL	-	-
Wastewater availability and use	Nil	-	-
Ground water quality	Potable and suitable for irrigation as well		
*over-exploited: groundwater utilization > 100%; critical: 90-100%; semi-critical: 70-90%; safe: <70%			

Source: Agricultural Statistics, 2013, Commissioner of land records, Govt. of Chhattisgarh

Source: Agricultural Statistics, 2013, Commissioner of land records, Govt. of Chhattisgarh

1.7 Area under major field crops & horticulture (as per latest figures) (Specify year 2013)

1.7	S.No.	Major field crops cultivated	Area ('000 ha)							
			Kharif			Rabi			Summer	Grand total
			Irrigated	Rainfed	Total	Irrigated	Rainfed	Total		
1	Rice	2.346	105.721	108.07	-	-	-	-	108.07	
2	Wheat	-	-	-	6.167	0.405	6.57	-	-	
3	Jowar	0.402	0	0.402	-	-	-	-	0.402	
4	Maize	-	-	10.391	-	-	-	-	10.391	
5	Millets	-	-	2.012	-	-	-	-	2.012	
6.	Total Cereals	-	-	120.875	-	-	6.57	-	127.45	
7.	Pigeonpea	3.962	-	3.962	-	-	-	-	3.962	
8.	Gram	0.852	-	0.852	-	-	-	-	0.852	

9.	GreenGram	0.046	-	0.046	-	-	-	-	0.046
10.	BlackGram	5.678	0	5.678	-	-	-	-	5.678
11.	HorseGram	2.665	-	2.665	-	-	-	-	2.665
12.	Pea	-	-	-	-	-	1.098	-	1.098
13.	Lentil	-	-	-	-	-	0.514	-	0.514
14.	Lathyrus	-	-	-	-	-	2.665	-	2.665
15.	Total Pulses	-	-	13.203	-	-	4.321	-	17.52
16.	Rapeseed-mustard	-	-	-	4.251	-	4.251	-	4.251
17.	Linseed	2.307	-	2.307	-	-	-	-	2.307
18.	Groundnut	3.375	-	3.375	-	-	-	-	3.375
19.	Seasamum	1.361	-	1.361	-	-	-	-	1.361
20.	Soybean	0.015	-	0.015	-	-	-	-	0.015
21.	Sunflower	0.003	-	0.003	0.001	-	0.001	-	0.004
22.	Niger/Safflower	4.339	-	4.339	-	-	-	-	
23.	Total Oilseeds	-	-	11.4	-	-	4.252	-	15.65
24.	Vegetables	-	-	1.560	-	-	3.079	-	4.639
25.	Sugarcane	-	-	1.931	-	-	-	-	1.931
26.	All Crops	-	-	145.48	-	-	15.14	-	167.19

Source: Agricultural Statistics, 2013, Commissioner of land records, Govt. of Chhattisgarh

S.No.	Horticulture crops - Fruits	Area (' 000 ha)		
		Total	Irrigated	Rainfed
1	Cashew nut	0	-	-
2	Mango	0.254	-	-
3	Jack fruit	0	-	-
4	Gauva	0	-	-
5	Lemon	0	-	-
6	Banana	0	-	-
7	Ber	0	-	-
8	Others	-	-	-
Total	All fruits	0.254	-	-
	Horticulture crops - Vegetables	Total	Irrigated	Rainfed
1	Tomato	1.031	-	-
2	Potato	2.871	-	-
3	Brinjal	0.574	-	-
4	Bhindi	0.337	-	-

5	Onion	0.748	-	-
6	Cabbage	0.559	-	-
7	Leafy Veg.		-	-
8	Cauliflower	0.616	-	-
9.	Bottle guard		-	-
10	Green pea	0.027	-	-
11	Cow pea	0.463	-	-
12	Beans		-	-
13	Radish		-	-
14	Others	0.107	-	-
15	All vegetables	8.578	-	-
	Medicinal and Aromatic crops	Total	Irrigated	Rainfed
1	Black chilli	-	-	-
2	Chilli	0.487	-	-
3	Garlic	0.333	-	-
4	Ginger	0.362	-	-
5	turmeric	0.236	-	-
	Total	1.418	-	-

Source: Directorate of Horticulture, Govt. of Chhattisgarh

1.11 Production and Productivity of major crops (Average of last 5 years: 2004, 05, 06, 07, 08; specify years)

1.11	Name of crop	Kharif		Rabi		Summer		Total		Crop residue as fodder ('000 tons)
		Production ('000 m t)	Productivity (kg/ha)	Production ('000 m t)	Productivity (kg/ha)	Production ('000 m t)	Productivity (kg/ha)	Production ('000 m t)	Productivity (kg/ha)	
Major Field crops (Crops to be identified based on total acreage)										
Crop 1	Rice	196.105	1815	-	-	-	-	196.105	1815	-
Crop 2	BlackGram	1.691	298	-	-	-	-	1.691	298	-
Crop 3	Groundnut	4.610	1366	-	-	-	-	4.610	1366	-
Crop 4	Pigeonpea	2.444	617	-	-	-	-	2.444	617	-
Crop 5	Seasamum	0.079	58	-	-	-	-	0.079	58	-
Crop 6	HorseGram	0.746	280	-	-	-	-	0.746	280	-
Crop 7	Sunflower	-	-	0.001	333	-	-	0.001	333	-
Crop 8	Rap-mustard	-	-	2.21	520	-	-	2.210	520	-
Crop 9	Wheat	-	-	9.103	1386	-	-	9.103	1386	-
Crop 10	Lathyrus	-	-	0.746	280	-	-	0.746	280	-

Crop 11	Green Gram	-	-	-	-	-	-	-	-	-
	All crops									
Major Horticultural crops (Crops to be identified based on total acreage) – Fruits & Vegetables										
Crop 1	Cashew nut	-	-	-	-	-	-	-	-	-
Crop 2	Mango	-	-	-	-	-	-	-	-	-
Crop 3	Jack fruit	-	-	-	-	-	-	-	-	-
Crop 4	Gauva	-	-	-	-	-	-	-	-	-
Crop 5	Lemon	-	-	-	-	-	-	-	-	-
Crop 6	Banana	-	-	-	-	-	-	-	-	-
Crop 7	Ber	-	-	-	-	-	-	-	-	-
Crop 8	Tomato	-	-	-	-	-	-	-	-	-
Crop 9	Potato	18.579	6472	-	-	-	-	18.579	6471	
Crop 10	Brinjol	-	-	-	-	-	-	-	-	-
Crop 11	Bhindi	-	-	-	-	-	-	1.938	2590	-
Crop 12	Onion	1.938	2590	-	-	-	-	-	-	-

Source: Agricultural Statistics, 2013, Commissioner of land records, Govt. of Chhattisgarh

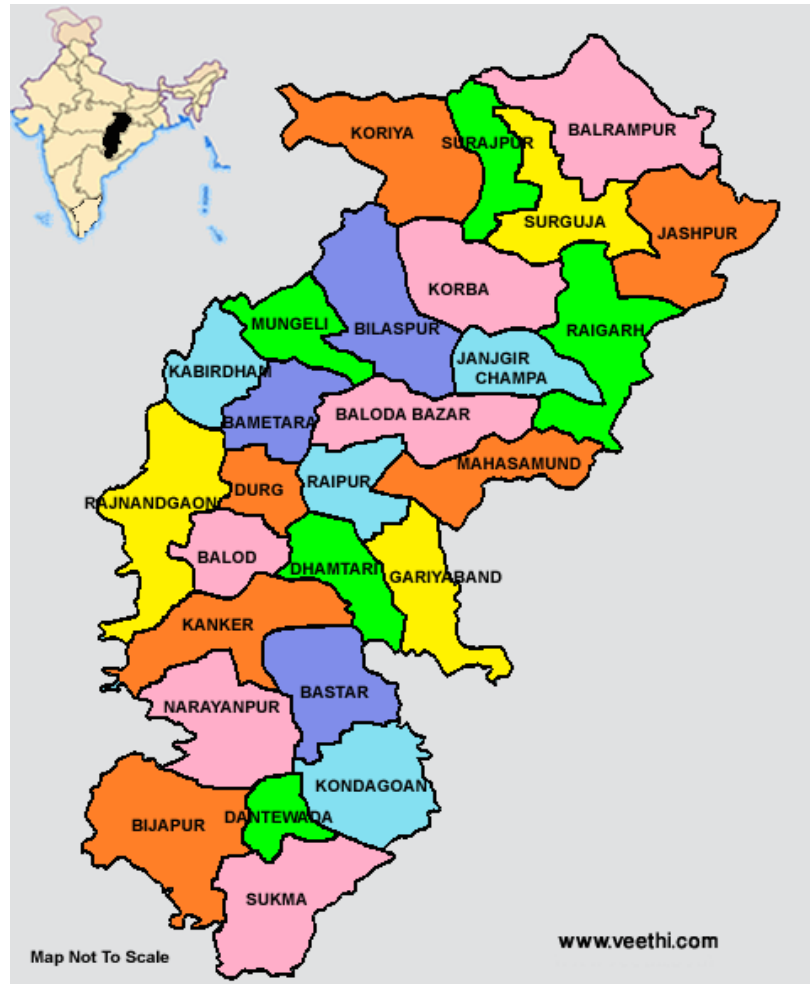
1.12	Sowing window for 5 major field crops (start and end of normal sowing period)	Rice	Blackgram	Ground nut	Pigeon pea	sesamum
	Kharif- Rainfed	-	-	-	-	-
	Kharif-Irrigated	-	-	-	-	-
	Major Rabi crops	Groundnut	Sunflower	Rapeseed-mustard	Wheat	lathyrus
	Rabi- Rainfed	-	-	-	-	-
	Rabi-Irrigated	-	-	-	-	-

1.13	What is the major contingency the district is prone to? (Tick mark)	Regular	Occasional	None
	Drought		✓	
	Flood		✓	
	Cyclone			✓
	Hail storm		✓	
	Heat wave		✓	

	Cold wave			✓
	Frost			✓
	Sea water intrusion			✓
	Pests and disease outbreak (specify)			
	Others (specify)			

1.14	Include Digital maps of the district for	Location map of district within State as Annexure I	Enclosed: Yes
		Mean annual rainfall as Annexure 2	Enclosed: No
		Soil map as Annexure 3	Enclosed: No

Annexure I
Location map of Surajpur district in Chhattisgarh state



2.0 Strategies for weather related contingencies for delayed onset of monsoon

2.1 Onset of monsoon between 15 June – 15 July

Major Farming situation	Crops to be sown	Agronomic measures
1) Upland	Rice- Tulsi,Vandana, Aditya,Kalinga-3, Samleshwari, Vanprabha, Indira barani dhan-1, Anjali, Danteshwari	line sowing with recommended dose of fertilizer
	Pigeonpea -UPAS-120,TAG-10,Asha, Rajivlochan, ICPL-151, ICPL-87	Proper Spacing with recommended dose of Fertiliser & Seed Inoculation with Rhizobium culture
	Urd- JU-2,JU-3,PDU-1TAU-2,TU-94-2	
	Maize- HISHELL , BIO-9681, DHM117,PMH-3, PRO-4640, PIO30-R26, Pro-4212, P-3785, 900M Gold	Line sowing weed management. by Atrazin @ 2 gm./liter.water at (PE)
	Groundnut -SB-11, JL-24, ICGS-11, ICGS-34, ICGS-43 Sesame-Selection-5,TC-25,JT-21	Line sowing & seed Inoculation with Rhizobium culture
2) Midland	Rice-MTU-1010,PA-6444,PHB-71,KRH-1,Indira sona, purnima, Indira barani dhan-1, Danteswari, IGKV R1	15-20 days old seedling use for transplanting Apply 15-20 kg ZnSo4 before planting or sowing Apply recommended dose of Fertilizer
3) Low land	Rice-Sawarna ,Jaldubi, PA-6444, Mahamaya, Danteswari , Bambleswari, Karma mahsuri, swarna sub-1	

2.2 Onset of monsoon between 16 – 31 July

Major Farming situation	Crops to be sown	Agronomic measures
1) Upland	Rice- Anjali, Poornima, Annada, Danteshwari	Direct Seeding of Sprouted rice seed under puddled condition Increase seedrate by 20 %
	Pigeonpea-UPAS120,TAG10,Asha, Rajivlochan, ICPL151, ICPL-87	Proper Spacing with recommended dose of fertilizer & seed Inoculation with Rhizobium culture
	Urd- JU-2,JU-3,PDU-1TAU-2,TU-94-2	Proper Spacing with recommended dose of fertilizer & seed

	Maize- Early- Extra Early- Pro- 4212, Pusa Early MaKka-1 Vivek hybrid- 9,17	Inoculation with Rhizobium culture
	Moong- Pusa Vishal,BM-4,HUM-12,Pragya (rabi) Pairi Moong (rabi)	Proper Spacing with recommended dose of fertilizer & seed Inoculation with Rhizobium culture
	Sesame- selection-5,TC-25,JT-21	
2) Midland	Rice- Sawarna,MTU-1010 PA-6444,PHB-71,KRH-1,Indira sona,IGKV R1, Samleshwari	Grow short and medium duration variety Direct Seeding of Sprouted rice seed under puddled condition
3) Low land	Rice- Sawarna,sawarna ,MTU-1010 PA-6444,PHB-71,KRH-1,Indira sona, IGKV R2 (Durgeshwari), IGKV R 1244 (Maheshwari)	Grow short and medium duration variety Direct Seeding of Sprouted rice seed under puddled condition

2.3 Onset of monsoon between 1 – 15 August

Major Farming situation	Crops to be sown	Agronomic measures
1) Upland	Sesame- selection-5,TC-25,JT-21	line sowing
	Urd- JU-2,JU-3,PDU-1, TAU-2,TU-94-2	Proper Spacing with recommended dose of fertilizer & seed Inoculation with Rhizobium culture
	Moong- Pusa Vishal,BM-4,HUM-12,Pragya (rabi), Pairi Moong (rabi)	Proper Spacing with recommended dose of fertilizer & seed Inoculation with Rhizobium culture
	Fingermillet,- KM68,VL148,km-68,vl-48	line sowing
	Niger - IGP-76,GA-10,JNS-1, JNS-6	line sowing
	Horse Gram- K42,Birsa kulthi-1, pk-1	line sowing

2) Midland	Rice -Early variety	Grow short duration variety Direct Seeding of Sprouted rice seed under puddled condition If already sown then weed mulching, biasi and foliar application of urea
3) Low land Yellow soil	Rice -Purnima, MTU-1010 Early + Mid early duration varieties	Grow short duration variety Direct Seeding of Sprouted rice seed under puddled condition If already sown then weed mulching, biasi and foliar application of urea

2.4 Onset of monsoon between 16 – 31 August

Conserve moisture for early planting of rabi crops

2.5 Onset of monsoon between 1 – 15 September

Major Farming situation	Crops to be sown	Agronomic measures
1) Upland	Niger - IGP-76,GA-10,JNS-1, JNS-6	line sowing
	Horse Gram - K42,Birsa kulthi-1, pk-1	line sowing
2) Midland	Mustard Toria Safflower	Recommended package and practice should be followed Line sowing Moderate dose of fertilizer Weeding (Intercultural operation)
3) Low land	Sunflower Linseed Pea	

Common Weed associated in Upland and Low land crops

Upland crops weeds	Ageratum conyzoides, Celosia argentea, Echinochloa Spp., Euphorbia hirta, Eclipta alba, panicum spp., Cyperus spp., cynodon dactylon, Achyranthes aspera, Amaranthus spp., Anagallis Arvensis, Argemone mexicana, Avena fatua, Dactyloctenium aegyptium, Saccharum Spontaneum, Tribulus terrestris
Lowland crops weeds	Echinochloa, Cyperus, Eichhornia crassipes, Oxylis

Weed control measures

Crops	Pre emergence	Post emergence
Rice	Pyzerosulfuron @ 20g/ha	Fenoxy prop ethyl @ 80 ml/ha Almix@ 4 g ai/ha
Maize	Atrazine @1.5 kg/ha Pendimethalin @1 L/ha	
Pigeon pea	Pendimethalin @ 1 L/ha Fluchloralin @ 0.75 to 1 L/ha	Imazathapyr
Urd	Pendimethalin @ 1 L/ha Fluchloralin @ 0.75 to 1 L/ha	
Horse gram	Pendimethalin @ 1 L/ha Fluchloralin @ 0.75 to 1 L/ha	
Til	Pendimethalin @ 1 L/ha Fluchloralin @ 0.75 to 1 L/ha	
Ramtil	Pendimethalin @ 1 L/ha Fluchloralin @ 0.75 to 1 L/ha	
Groundnut	Pendimethalin @ 1 L/ha Fluchloralin @ 0.75 to 1 L/ha	
Sugarcane	Atrazine @1.5 kg/ha Pendimethalin @1 L/ha	2,4-D @ 1 kg/ha Atrazine @
Horticulture		
Potato	Pendimethalin @ 1 L/ha Fluchloralin @ 0.75 to 1 L/ha	Fenoxy prop ethyl + chlorimuron Ethyl @ 80 + 4 g/ha
Tomato	Pendimethalin @ 1 L/ha Fluchloralin @ 0.75 to 1 L/ha	

Outbreak of diseases and control measures

Outbreak of diseases and control measures	Vegetative stage	Flowering stage ¹	Crop maturity stage	Post harvest
Rice	Leaf blast (Spray Propiconazole @ 1 ml/liter of water)	Sheath blight (Spray Validamycin @ 3 g/liter)	Neck blast (Spray Propiconazole 1 ml/liter of water)	-
Maize	Leaf blight (Hexaconazole @ 1 ml/liter)	Banded leaf and sheath blight (Validamycin 3 g/liter)	Banded leaf and sheath blight (Validamycin 3 g/liter)	-
Pigeon pea	Sterility mosaic	Wilt of pigeon pea	-	-
Urd	Yellow mosaic (Imedachlopid 4 ml/15liter)	Yellow mosaic (Imedachlopid 4 ml/15liter)	-	-
Groundnut	Tikka disease of groundnut (Carbendazim 1 gm/liter)	Bud necrosis of groundnut (Imedachlopid 4 ml/15liter)	-	Aspergillus rotting of seeds
Sugarcane	Whip Smut of sugarcane (Healthy sugarcane sets)	Red rot of sugarcane (Healthy sugarcane sets)	Red rot of sugarcane (Healthy sugarcane sets)	-
Horticulture				
Potato	Late blight of potato (Metalaxyl 500 ppm)	Late blight of potato (Metalaxyl 500 ppm)	Bacterial wilt of potato (IDM)	-
Tomato	-do-	-do-	-do-	-

3.0 Conditional dry spell

3.1 Condition: Normal onset followed by 15-20 days dry spell after sowing leading to poor germination/crop stand etc.

Major Farming situation	Normal Crop/cropping system	Suggested Contingency measures		
		Crop management	Soil nutrient & moisture conservation measures	Remarks on Implementation
1) Upland	Rice-Fallow Vr. Local	*Thinning and gap filling the existing crops		

	Pigeonpea -Fallow: variety - Mainpat local	*Re-Sowing	Life saving Irrigation In situ SWC measures	Supply of inter cultural implements through RKVY
	Maize-Fallow: variety. hybrid & local			
	Fallow- Horse Gram/Niger/Toriya Vr. Local			
	Groundnut -Fallow Variety- local			
2) Midland	Rice-Fallow vr.MTU-1010,PA- 6444,PHB-71,	*Thinning and gap filling the existing crops *Re-Sowing *Sprouted seed should be sown if nursery is not available	Life saving Irrigation In situ SWC measures	
	Rice-Wheat/Pea/			
3) Low land	Rice-Fallow			
	Rice-Lathyrus/linseed/lentil/pea			

3.2 Condition: Mid season drought (long dry spell, consecutive 2 weeks rainless (>2.5 mm) period) at vegetative stage

Major Farming situation	Normal Crop/cropping system	Suggested Contingency measures		
		Crop management	Soil nutrient & moisture conservation measures	Remarks on Implementation
1) Upland	Rice-Fallow Vr. Local	1) Thinning (Lower the plant population per unit area) 2) Life saving irrigation 3) .Protection against diseases and pests	1)Inter cultivation (soil Mulching) Conservation furrow 2. Life saving Irrigation 3. Opening of conservation furrows 4. Spray of 2% urea in paddy.	1)Supply of Inter cultural Implements through RKVY 2) Farm pond through IWSM programme 3) Seed supply through seed corporation
	Pigeonpea -Fallow: variety - Mainpat local			
	Maize-Fallow: variety. hybrid & local			
	Fallow- Horse Gram/Niger/Toriya Vr. Local			
	Groundnut -Fallow Variety- local			
2) Midland	Rice-Fallow	1)Conserve water in crop field		
3) Low land	Rice-Fallow	2)Life saving irrigation if facility available		
	Rice-linseed/Lathyrus/pea/lentil			

3.3 Condition: Mid season drought (long dry spell at flowering/ fruiting stage)

Major Farming situation	Normal Crop/cropping system	Suggested Contingency measures		
		Crop management	Soil nutrient & moisture conservation measures	Remarks on Implementation
1) Upland	Rice-Fallow Vr. Local	1) Weeding and Weed mulching 2) Life saving irrigation & weeding and weed mulching 3) Could be harvested for fodder purpose 4) Protection against diseases and pests 5) Earthing and inter cultural operation	1. Life saving Irrigation 2. Rainwater conserve during kharif	1) Farm pond through IWSM programme
	Pigeonpea -Fallow: variety - Mainpat local			
	Maize-Fallow: variety. hybrid & local			
	Fallow- Horse Gram/Niger/Toriya Vr. Local			
	Groundnut -Fallow Variety- local			
2) Midland	Rice-Fallow	1) Life saving irrigation &weeding and weed mulching		
3) Low land	Rice-Fallow	2)Could be harvested for fodder pupose		
	Rice-linseed/Lathyrus/pea/lentil			

3.4 Condition: Terminal drought (Early withdrawal of monsoon)

Major Farming situation	Normal Crop/cropping system	Crop management	Rabi Crop planning	Remarks on Implementation
1) Upland shallow red soils	Rice-Fallow Vr. Local	For precautionary measures use early and medium variety	1)Make a plan for Early sowing of Ramtil ,Kulthi(Hourse gram), Toria	
	Pigeonpea -Fallow: variety - Mainpat local			
	Maize-Fallow: variety. hybrid & local			
	Fallow- Horse Gram/Niger/Toriya Vr. Local			
	Groundnut -Fallow Variety- local			
2) Midland Yellow Red soil	Rice-Fallow	1. Life saving Irrigation 2. Rainwater conserve during kharif for rabi	1)Make plan for Utera cultivation of linseed,Lathyrus,lentil, Toria, Batri, Dhania	
	Rice-Wheat			
3) Low land Yellow soil	Rice-linseed/Lathyrus/pea/lentil			

4.0 Unusual rains (untimely, unseasonal etc) (for both rainfed and irrigated situations)

Condition	Suggested contingency measure			
	Vegetative stage	Flowering stage	Crop maturity stage	Post harvest
Continuous high rainfall in a short span leading to water logging				
Pegion pea	*Provide Drainage *Need based plant protection IPDM for pulses *Earthing up to 6 inch both side of plant	Provide Drainage	Drain out excess water ,	Shift to safer place Safe storage against pest and disease dry in shade and turn frequently
Groundnut	*Provide Drainage *Need based plant protection IPDM for pulses	Provide Drainage	Drain out excess water , Harvesting at Physiological maturity stage	Shift to safer place, dry in shade and turn frequently Safe storage against pest and disease
Urd	*Provide Drainage *Need based plant protection IPDM for pulses	Provide Drainage	Drain out excess water , Harvesting at Physiological maturity stage	Shift to safer place, Dry in shade and turn frequently
Wheat	Provide Drainage	Provide Drainage	Drain out excess water	Shift to safer place, dry in shade and turn frequently
Rice			Harvesting at Physiological maturity stage	Shift to safer place,