

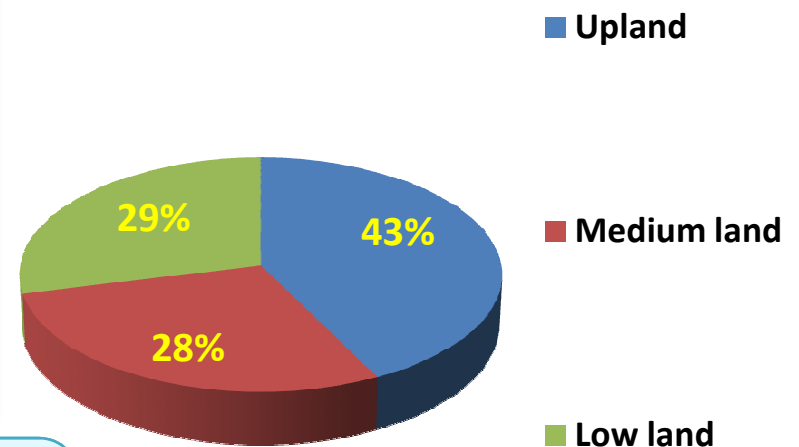
MODULE ACTION PLAN

KVK Mayurbhanj-I, Shamakhunta

DISTRICT AT A GLANCE



No. of Sub-division	4 (2)
No. of Blocks	26 (14)
No. of GPs	382 (241)
No. of Villages	3701 (2164)
SC	7 % (8%)
ST	58.71 % (54%)



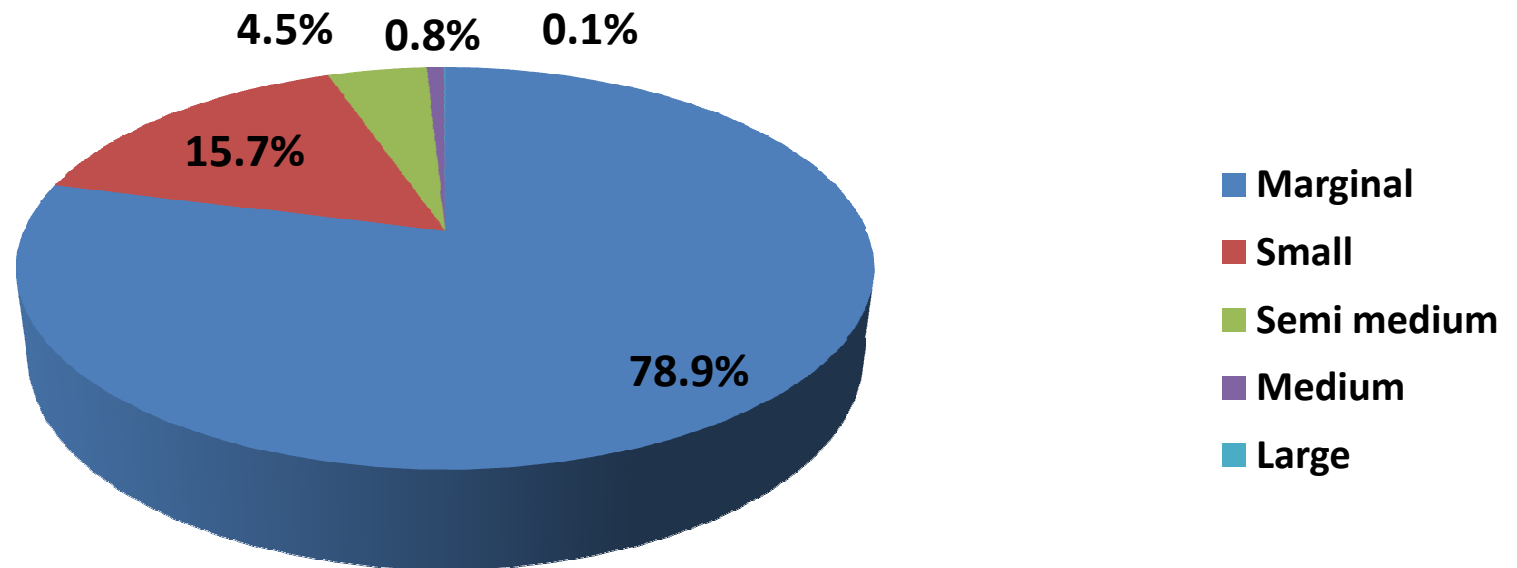
- Adopted villages: 11
- Villages covered through direct intervention: 57

Basic information : Land use of district

• Total cultivated area:	4.37 lakh ha
– Upland :	1.86 lakh ha
– Medium land:	1.25 lakh ha
– Low land:	1.26 lakh ha
• Area sown during Kharif:	3.64 lakh ha
• Area sown during Rabi:	0.94 lakh ha
• Area sown during summer:	8,350 ha
• Net sown area:	3.56 lakh ha
• Total Kharif paddy area:	3.01 lakh ha
• Rice fallow:	1.89 lakh ha
• Grossed cropped area:	4.91 lakh ha
• Cropping intensity:	138%
• Soil type:	Sandy loam, Red lateritic
• Irrigation potential (ha) %	
– Kharif :	1,83,484 (41.98 %)
– Rabi :	88,882 (20.34 %)

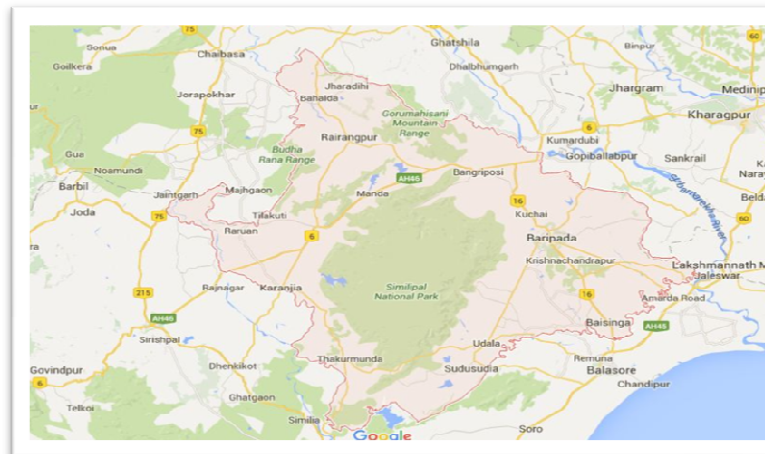
Basic information : Farmers category

- No. of farm family
 - Marginal : 3,07,767
 - Small : 61,528
 - Semi medium : 17,440
 - Medium : 3,063
 - Large : 185
 - Total : 3,89,981



AES features

- Name of KVK : **Mayurbhanj-1**
- Name of Agro climatic zone:
North central plateau



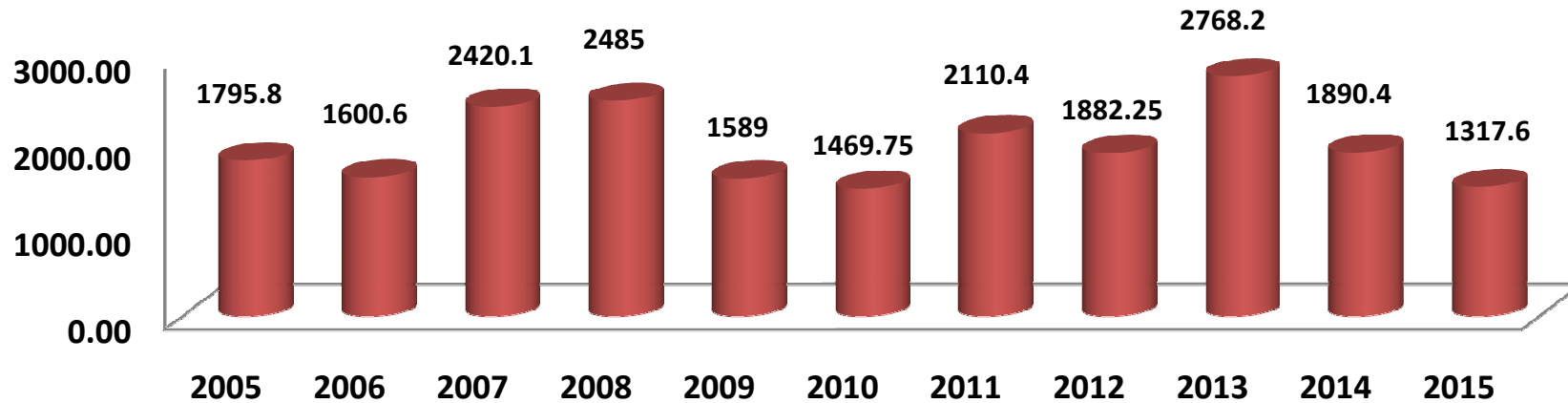
Delineation of Agroecosituations

Name of AES	AES features	Blocks covered	Selected Blocks	Selected GP
AES-I	Low Rainfall, Low Elevation -Blocks-5 nos.	Tiring, Rairangpur, Rasgovindpur, Bahalda, Shuliapada	-	-
AES-II	Medium Rainfall, Low Elevation - Blocks-15 nos.	Baripada, Badasahi, Shamakhunta, Khunta, GB Nagar, Betnati, Moroda, Kuliana, Bangiriposi, Udala, Saraskana, Kusumi, Bishoi, Bijatola, Jamda	Shamakhunta Bangiriposi	Sindurgaura Chandanpur
AES-III	High Rainfall, Low Elevation -Blocks-1no	Kaptipada	-	-
AES-IV	Medium Rainfall, Medium Elevation - Blocks-5nos	Karanjia, Sukruli, Jashipur, Raruan, Thakurmunda	-	-

Block wise (Selected) basic information

Block	Shamakhunta	Bangiriposi
Geographical area	21388.28 ha	31775 ha
Cultivated area	13128 ha	17621 ha
Kharif cultivated area	13128 ha	17528 ha
Rabi cultivated area	5870 ha	7136 ha
Rainfed area	6877 ha	14706 ha
Irrigated area	6251 ha	2915 ha
Cropping intensity	144.07	136.82
Rice – fallow	3383 ha	4147 ha
Up land Rice	286 ha	2141 ha
Soil type	Loamy, Sandy loam	Loamy, sandy loam
	Acidic- 12737 ha	Acidic-15315 ha
Up land	3494 ha	10559 ha
Medium land	4775 ha	2953 ha
Low land	4859 ha	4109 ha
Marginal farmer	88.88%	77.1%
Small farmer	9.04%	19.2%
Medium farmer	2.07%	3.68%
Existing crop	Rice-9920	Rice-9203
Kharif	Maize-280 Pigeon pea-720 Vegetable-1826	Black gram-375 Pigeon pea-690 Vegetable-4844
Rabi	Green gram-2807 ha Vegetable-1050 ha Groundnut-600 ha Mustard-320 ha	Black gram-1160 ha Groundnut-1105 ha Green gram-1020 ha Vegetable-2005 ha

RAINFALL STATUS (mm), Avg. of 14 blocks under KVK, Mayurbhanj-1



BLOCK-WISE RAINFALL STATUS (mm), 2015

Sl.No	Block	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	Normal rainfall
1	Baripada	137	0	50	147	51	406	407	230.5	144	14	0	56	1642.5	1944.42
2	Shamakhunta	59.5	0	44.5	129	32	237.5	373.7	215	135.5	14	0	59	1299.7	1737.9
3	Suliapada	21	0	38	137	62	177.4	258	85	81	0	0	24	883.4	1240.42
4	Betnoti	54	0	18	202	120	261	657	240	185	19	0	13	1769	1302.78
5	Badasahi	60	1	40	85	61.5	163	193	137	119	18	0	16	893.5	1313.07
6	Moroda	54	0	37	161	84	248.7	278	109	116	2	0	23	1112.7	1464.06
7	R. G. Pur	97	17	27	163	95	209	506	177	141	2	0	13	1447	1594.58
8	Udala	75.4	0	93	124.8	77.3	274	374.8	282.2	205.4	27	0	2.2	1536.1	1795.45
9	Kaptipada	71	0	90	117	80	310	416	287	178	18	0	16	1583	1947.14
10	Khunta	106	0	46	99	86	272	360	209	222	7	0	25	1432	1807.3
11	G. B. Nagar	106	0	46	59	86	272	360	209	222	7	0	25	1392	1815.72
12	Bangriposi	78	0	17.4	155.8	91.2	198.6	486.6	164	127.2	0	0	47.4	1366.2	1558.4
13	Kuliana	60	0	67	112	34	308	327	178	44	0	0	38	1168	1578.04
14	Saraskana	19	0	5	81	62	61	444	119	75	18	0	37	921	1068.39
Total (Avg.)		71.3	1.3	44.2	126.6	73.0	242.7	388.7	188.7	142.5	10.4	0	28.2	1317.6	1583.4

GP wise (Selected) basic information

Block	Sindurgaura	Chandanpur
Geographical area	1120.41 ha	1347.6 ha
Cultivated area	871 ha	879 ha
Rainfed area	298 ha	740 ha
Irrigated area	573 ha	139 ha
Rice – fallow	128 ha	269 ha
Up land Rice	19 ha	123 ha
Soil type	Loamy, Sandy loam	Loamy, sandy loam
Up land	170 ha	471 ha
Medium land	421 ha	171 ha
Low land	280 ha	237 ha
Existing cropping Kharif	Rice-720 ha Vegetable-82 ha Pigeon pea-41 ha Maize-30 ha	Rice-532 ha Vegetable-233 ha Pigeon pea-27 ha Black gram-16 ha
Rabi	Green gram-360 ha Groundnut-120 ha Vegetable-80 ha Mustard-40 ha	Vegetable-99 ha Groundnut-70 ha Black gram-60 ha Green gram-50 ha

Characterization of selected GP

- Low yield of agricultural crops/poultry/goatery/pisciculture
- Low income from agricultural crops/poultry/goatery/pisciculture
- Low cropping intensity

Existing cropping system in selected GP

Upland	Irrigated	Vegetable-Vegetable
	Rain fed	Pigeon pea
Medium land	Irrigated	Rice-Groundnut/Green gram
	Rain fed	Rice-Black gram, Rice-Fallow
Low land	Irrigated	Rice-Green gram
	Rain fed	Rice- Fallow, Rice-Green gram

MODULE-I FOR GP SINDURGAURA

Farming situation		Existing farming system		Problem		Suggested Module		
		Crops	Other enterprises					
				Kharif	Rabi	Kharif	Rabi	
Irrigated	Up land	Veg.-veg.		Low productivity of vegetable	Distress sale of Tomato and cole crops	Veg.-veg. (Intensification) in upland		
	Medium land	Rice-Green gram/Groundnut		Low productivity and profitability of rice (18 q/ha)	Low productivity and profitability of groundnut (11 q/ha) and green gram (4 q/ha)	Rice-green gram/groundnut (Intensification)		
	Low land	Rice-Green gram		Low productivity and profitability of rice (20 q/ha)		Rice-green gram (Intensification)		
			Poultry		Low egg production from local poultry breed (40 No.s/year)		Poultry (Improvement)	
			Goatery		Low birth rate, high mortality and high disease incidence in goat		Goatery (Improvement)	
							Mushroom (Introduction)	

Season	1st year		2nd year		3rd year	
	Intervention	Action points	Intervention	Action points	Intervention	Action points
Kharif (Upland)	Substitution with Off season cauliflower	Cauliflower seedlings DAWN-175 (10,000 No.s)	STB based Nutrient management in off season cauliflower	Fertilizer, Micro nutrient (STB recommendation)	Training on off season vegetable seedling production in low tunnel poly house	UV stabilized polythene (200 micron) (1 No. size 7mx5m)
Kharif (Medium land/low land)	Nutrient management in rice	Leaf colour chart	<ul style="list-style-type: none"> Nutrient management in rice with STB fertilizer recommendation Training in INM in rice 	<ul style="list-style-type: none"> Chemical Fertilizer(STB recommendation) Training to farmers and farm women 	<ul style="list-style-type: none"> Mechanized transplanting, Skill training on operation of reaper and thresher 	<ul style="list-style-type: none"> Rice transplanter Training to rural youth
Rabi (Upland)	Skill training on valued addition of tomato	Training, preservatives (Potassium metabisulphite and Sodium benzoate)	Skill training on valued addition of cole crops	Training, preservatives (Potassium metabisulphite and Sodium benzoate)	Entrepreneurship development	Market linkage
Rabi (Medium land/low land)	Line sowing of green gram through zero till seed cum fertilizer drill	Zero till drill	<ul style="list-style-type: none"> STB fertilizer recommendation in green gram Training on use and operation of sowing machineries 	<ul style="list-style-type: none"> Fertilizer Training to farmers and farm women 	<ul style="list-style-type: none"> Use of bio products & bio-agents Training on INM in green gram 	<ul style="list-style-type: none"> Bio fertilizer Training to farmers and farm women
	Replacing existing variety of groundnut AK-12-24 with DEVI variety with application of gypsum	Seed variety- DEVI (0.6 q)	Line sowing of groundnut through seed cum fertilizer drill with application of gypsum	<ul style="list-style-type: none"> Seed cum fertilizer drill Gypsum (1 q) 	<ul style="list-style-type: none"> Foilar spray of Borax (0.3%) Training on INM in groundnut 	<ul style="list-style-type: none"> Borax powder (4 kg) Training to farmers and farm women

1st year		2nd year		3rd year	
Intervention	Action points	Intervention	Action points	Intervention	Action points
Introduction of RIR breed	Poultry chicks of RIR breed(10 No.s)	Calcium Supplementation in backyard poultry farming	Oyster shell meal/lime stone powder calcium	Development of poultry unit	Small unit, Entrepreneurship development
Mushroom cultivation in small scale	Mushroom Spawn (20 No.s)	Mushroom cultivation through out the year	Mushroom Spawn 20 No.s)	Development of mushroom unit	Small unit, Entrepreneurship development
Supplemental concentrate feeding to pregnant and lactating does	Concentrated feed (9 kg /3month at peri parturient period along with 13.5 Kg/3 month in lactation period)	Deworming of kids (animal health camp) and disease management with the help of ARD	Vaccines, medicines (As per recommendation of VAS)	Shed and Nutrition mgt & commercial goat unit.(Trg. by ARD)	Training
Increase in Income (%)	25		33		58
Employment Generation (man days)	30		45		60
Entrepreneurship development	-		-		3

MODULE-II FOR GP CHANDANPUR

Farming situation		Existing farming system		Problem		Suggested Module		
		Crops	Other enterprises			Kharif	Rabi	
				Kharif	Rabi	Kharif	Rabi	
Rainfed	Up land	Rice-Fallow		Low productivity and profitability of upland rice (15 q/ha)	Fallow	Vegetables in Kharif (Diversification)		
	Medium land	Rice- Fallow		Low productivity and profitability of rice (18 q/ha)	Fallow	Rice-black gram (Intensification/introduction)		
	Low land	Rice-Fallow		Low productivity and profitability of rice (20 q/ha)	Fallow	Rice-green gram (Intensification/introduction)		
			Poultry		Low egg production from local poultry breed (40 No.s/year)		Poultry (Improvement)	
			Goatery		Low birth rate, high mortality and high disease incidence in goat		Goatery (Improvement)	
							Mushroom (Introduction)	

Season	1st year		2nd year		3rd year	
	Intervention	Action points	Intervention	Action points	Intervention	Action points
Kharif (Upland)	Diversification of Off season cauliflower in up land paddy	Cauliflower seedlings DAWN-175 (10,000 No.s)	STB based Nutrient management in off season cauliflower	Fertilizer, Micro nutrient(STB recommendation)	Training on off season vegetable seedling production in low tunnel poly house	UV stabilized polythene (200 micron) 1 No. size 7mx5m)
Kharif (Medium land/low land)	Nutrient management in rice	Leaf colour chart	<ul style="list-style-type: none"> •Nutrient management in rice with STB fertilizer recommendation •Training in INM in rice 	<ul style="list-style-type: none"> •Chemical Fertilizer(STB recommendation) •Training to farmers and farm women 	<ul style="list-style-type: none"> •Mechanized transplanting, •Skill training on operation of reaper and thresher 	<ul style="list-style-type: none"> •Rice (20 Kg) transplanter •Training to rural youth
Rabi (Medium land)	Introduction of black gram in rice-fallow with full management practices	Black gram variety OBG-17 (8 Kg) Chemical fertilizer (STB recommendation)	<ul style="list-style-type: none"> •Line sowing by zero till drill •Training on use and operation of sowing machineries 	<ul style="list-style-type: none"> •Zero till drill •Training to farmers and farm women 	<ul style="list-style-type: none"> •Weed management • Training on INM in black gram 	<ul style="list-style-type: none"> •Weedicides Pendimethalin (1 lit) • Training to farmers and farm women
Rabi (Low land)	Introduction of green gram in rice-fallow with full management practices	Green gram variety OBG-52 (8 Kg) Chemical fertilizer (STB recommendation)	<ul style="list-style-type: none"> •Line sowing by zero till drill •Training on use and operation of sowing machineries 	<ul style="list-style-type: none"> •Zero till drill •Training to farmers and farm women 	<ul style="list-style-type: none"> •Weed management • Training on INM in green gram 	<ul style="list-style-type: none"> •Weedicides Pendimethalin (1 lit) • Training to farmers and farm women

1st year		2nd year		3rd year	
Intervention	Action points	Intervention	Action points	Intervention	Action points
Introduction of RIR breed	Poultry chicks of RIR breed (10 NO.s)	Calcium Supplementation in backyard poultry farming	Oyster shell meal/lime stone powder calcium ()	Development of poultry unit	Small unit entrepreneurship development
Mushroom cultivation in small scale	Mushroom spawn(20 no.s)	Mushroom cultivation through out the year	Mushroom spawn (20 no.s)	Development of mushroom unit	Small unit entrepreneurship development
Supplemental concentrate feeding to pregnant and lactating does	Concentrated feed (9 kg /3month at peri parturient period along with13.5 Kg/3 month in lactation period)	Deworming of kids (animal health camp) and disease management with the help of ARD	Vaccines, medicines (As per recommendation of VAS)	Shed and Nutrition mgt & commercial goat unit.(Trg. by ARD)	Training
Increase in income	22		32		56
Employment generation (man days)	25		40		55
Entrepreneurship development	-		-		3