

Technology assessed by KVKs under Ouat during 2015-16

KVK	Crop/ component	Technology assessed	Farmers' practice	OFT yield (q/ha)	Yield in farmers' field (q/ha)	% increase in yield
Angul	Sesame	Application of 75% STDF+ Azospirillum, Azotobacter & PSB @ 4 kg each incubated with 300 kg FYM/ha + Sulphur @ 30kg/ha	Injudicious application of fertilizer	8.56	5.87	45.8
	Paddy	Direct seeding of rice by tractor operated seed-cum-fertilizer drill	Random manual transplanting	30	28	7.1
	Cauliflower	Use of pheromone trap @20traps/ha, spraying of Bt @ 1kg/ha & spraying of neem based pesticide @ 2 lt/ha	Indiscriminate spraying of chloropyriphos	252.3	171.8	46.85
Balasore	Betelvine	Assessment of Zn and Triacantanol on leaf yield of betel vine	Use of NPK fertilizers only (150:100:50)	55.52 lakh leaves/ha	46.00 lakh leaves/ha	20.7
	Okra	Assessment of Integrated management of okra shoot and fruit borer. Soil application of Neem cake 2.5qtl/ha. Release of Trichogramma chilonis @ 50000/ha, 5 times from 50 DAS at 10 days interval. Alternate spraying of Neem oil 300ppm@ 5 ml/Litre and Emamectin benzoate 5 %SG @ 0.4 gram/per litre of water at 50 DAS.	Spraying of Chloropyriphos/ Cypermethrin pesticides	183.3	147.2	24.52
	Rice	Assessment of sheath blight management in rice. Seed treatment with Thiophenate methyl @1.5g/kg seed and alternate spraying of Trifloxystrobin+ Tebuconazole @ 200g/ ha and Thifluzamide 24SC @500 ml/ha	Spraying of validamycin, propiconazole, hexaconazole, carbendazim	56.3	44.1	27.66

Baragarh	Rice	T2-Spraying of Propiconazole 25EC @ 1ml/l twice at 10 days interval T3-Preventive spraying of Picoxystrobin 25 SC after 30DAT @ 1.5 ml/lit and 2 nd spraying after 10 days	Spraying of Tricyclazole 75 WP @ 0.6 gm/lit twice	T2-47.3 T3-48	45.92	4.5
	Rice	T ₂ - variety-Sahabhangi Dhan, Seed rate 75kg/ha, T ₃ – CR Borodhan-2 Seed rate 75kg/ha	Cultivation with locally available variety – Khandagiri	T2-27.6 T3-29.3	24.5	19
	Tomato	Assessment of Wilt Resistant Tomato variety T ₂ - JK Desi T ₃ -Swarna Sampad	Cultivation with locally available hybrid Variety Laxmi	T2-430 T3-520	470	
Bhadrak	Rice	Assessment of Salt tolerant varieties of rice	Cultivation of var. Swarna (T1)	T2:40.5 T3: 39.0 T4: 37.2	32.6	24.2
	Rice-blackgram paira cropping	Assessment of nutrient management in rice-black gram paira cropping	No use of fertilizers to blackgram	T2:6.8 T3: 8.5	6	41.6
	Fish	Ivermectin 2% w/w for controlling Argulosis	Use of inorganic pyrethroid group of pesticides, which depletes zooplankton population and is a limiting factor for carp-cum-FW prawn culture system	28.3	21.4	32.24
Bolangir	Fodder	Assessment of suitable fodder (Hybrid Napier) for milch cow.	No fodder cultivation, free grazing & straw husk as feed	570 lit /4 month/ cow	480 lit/ 4 month /cow	18.75
	Ground nut	Application of pre emergence herbicide oxyflourofen @ 200ml/ha, post emergence application of Quizolfopethyl @ 1000 ml/ha at 15-20 DAS, post emergence application of Imazythapir @ 750 ml/ha at 15-20 DAS.	No herbicide application and late manual weeding.	13.71	10.36	32.3

	Brinjal	Assessment of Brinjal var. Arka neelachal shyama and Arka neelachal kranti	Cultivation of local var. muktakeshi	378.5	340	11.3
Boudh	Onion	Assessment of onion var. Bhima Super in kharif season	Cultivation of N-53	196.2	169.7	15.6
	Tomato	Assessment of tomato hybrid swarna sampad	Cultivation of hybrid like Laxmi, Priya	477.9	351.2	36.1
	Water melon	Sowing of seed in polybag and transplanting at 7-15 days	Direct seeding	246.4	207.5	18.74
Deogarh	Tomato	T ₂ - Raising seedling in poly tunnel in the month of July and transplanted in August, Staking of plants, RDF T ₃ - T ₂ + Seed treatment with carboxin+thiram, Integrated management of wilting (metalyxyl+ mancozeb) + Streptocycline with seedling treatment and drenching after disease infestation . T ₄ - T ₃ + STBR for NPK,Ca and B	Low return from upland rice	T ₂ -127 T ₃ -146 T ₄ -157	92	T ₂ -38 T ₃ -58 T ₄ -70
	Brinjal	T ₂ - Destruction of dead plants and spray neem oil 2ml/lit and installation of pheromone trap @20nos./ha T ₃ - Destruction of dead plants and spray neem oil 2ml/lit and Spray Flubendiamide-20 WDG @ 7.5g/10 lit	Indiscriminate use of insecticides like chloropyriphos	T ₂ - 238 T ₃ -282	210	T ₂ - 13 T ₃ -34
	Paddy straw mushroom	T ₁ :Cultivation of paddy straw mushroom V. volvacea T ₂ :Cultivation of paddy straw mushroom strain OSM-11 T ₃ :Cultivation of paddy straw mushroom strain OSM-12	Low yield potential of paddy straw mushroom <i>volvariella volvacea</i>	T ₂ -1.8kg/bed T ₃ -1.65kg/bed	1.5kg/bed	T ₂ - 20 T ₃ -10
Dhenkanal	Cucumber	Assessment of integrated management of Downey mildew of Cucumber	Use of carbendazim and mancozeb	176.84	138.38	27.79

	Onion	Assessment of Kharif Onion varieties with IPM Practices	Use of local Variety and application of chloropyriphos 2ml/lit of water	237	206	15
	Dairy Cattle	Feeding of bypass protein feed supplement on milk production of dairy cattle	No bypass protein feed supplement feeding is practiced	11.3lit/ animal/ day	9.9lit/ animal/ day	14.14
Gajapati	Broccoli	Assessment of performance of Broccoli	NIL	T ₁ - 109.88 T ₂ - 107.01 T ₃ - 116.57		T ₃ 6% of T ₁ T ₃ 8% of T ₂
	Improved sickle	Drudgery reduction by using improved sickle for paddy harvesting	Harvesting by traditional sickle	T ₂ - 93.5 T ₃ - 87.5 Field Capacity (m ² /hr)	T ₁ - 84	T ₂ - 11.3 T ₃ - 4.16
	Cauliflower	Assessment of bio control and chemical measures for management of Tobacco caterpillar in cauliflower	Indiscriminate use of Quinalphos	T ₂ -276 T ₃ 305	T ₁ -170	T ₂ -62 T ₃ -79
Ganjam I	Groundnut	Assessment of Imazethapyr for controlling weeds in Groundnut	Hand weeding	23.2	20.6	13
	Fish	Stocking of grow-out ponds with Catla:Jayanti Rohu: Mrigal fingerlings @ 3000:4000:3000 nos. per ha	Culture of normal Rohu with Catla and Mrigal	33.15	28.75	15.3
Ganjam II	Rice	STCR target yield concept – Fertilizer adjustment equations FN=8.4 T – 1.4 SN FP ₂ O ₅ = 5.0T – 3.1 SP ₂ O ₅ FK ₂ O= 6.6 T – 1.5 SK ₂ O Where T (50q/ha) is Targeted yield and SN is soil available N(Kg/ha)	Inadequate application of fertilizer (80:40:40)	48.7	37.2	30.9
	Papaya	Gynodioecious variety, fruits oblong with firm red flesh, suitable for extraction of papin, gives 112fruit/tree.avg yield 340.9 t/ha	Cultivation of local variety	625	470	33
	Tomato	Tolerant to bacterial wilt and early blight, fruiting starts in 55 DAS, yield potential 1000-1050 q/ha	Cultivation of var. Laxmi	838	515.7	62.50

Jagatsinghpur	Onion	Assessment of integrated crop management for management of thrips and purple blotch in Onion	Indiscriminate use of P P chemicals	326.81	192.2	70.04
	Tomato	Assessment of Tomato varieties for yield and value addition with group approach.	Cultivation of tomato hybrids not tolerant to major diseases and pest	522.24	378.46	38
	Poultry	Assessment of Denimred breed of poultry in backyard	Rearing local birds	3.5 kg body wt / bird in 4 months	1.5 kg body wt / bird in 4 months	133.3
Jajpur	Groundnut	Assessment of micronutrient management practices (Boron+ Sulphur) in groundnut	No use of Boron and Sulphur in groundnut	21.6	17.3	24.8
	Onion	Assessment of onion varieties Bhima Super	Onion cultivation with local variety	236.2	162.4	45.4
	Paddy	Assessment of tractor drawn seed cum fertilizer drill for sowing of paddy	Broadcasting	39.4	36.3	8.53
Jharsuguda	Brinjal	Assessment of nutrient management in Brinjal.	No use of balanced Fertilizer	340	280	21.42
	Cauliflower	Assessment of Boron application in Cauliflower.	Imbalanced dose of micro nutrients application	260	220	18.18
	Onion	Assessment of Cultivation of Late Kharif Onion	Seasonal cultivation	357	273	30.76
Kalahandi	Cattle	Assessment on effect of feed supplement on performance of pre-parturient cattle	No feed supplement to the diet	Milk Yield-2.2lit/ animal	Milk Yield-1.4 lit /animal	57.1
	Sweet corn	Assessment of Performance of sweet corn var. Misti	Cultivation of variety pratap	55000 Cob/ha	29500 cobs/ha	86.4
	Brinjal	Assessment of GA3 application in Brinjal	Traditional Cultivation of Brinjal without hormone application	310	256	21.09
Kandhamal	Paddy	Assessment of hybrid rice varieties Ajaya and Rajalaxmi	Cultivating local ruling variety MTU-1001	T2 55.2 T3 51.6	33.8	63.3

	Tomato	Assessment of tomato hybrid varieties swarna vijaya & swarna sampad	Cultivating low yielding variety	T2 578, T3 613.4	290.3	99
	Turmeric	Assessment of Organic sources of nutrients in Turmeric	Imbalanced nutrition and limited use of organic inputs	T2-105.7 T3-128.4	88.6	T2-19.3 T3-44.9
Kendra pada	Paddy	Integrated weed management. application of Bensulfuron methyl 0.6% + Pretilachlor 6% GR is a pre-emergent herbicide (10kg/ha) for weed control in rice.	Hand weeding at 25 DAT	49.4	42.1	17.34
	Brinjal	T ₂ : Application of carbendazim 12% + mancozeb 63% @ 2g/lit of water to control Phomopsis blight	T ₁ : Application of Carbendazim 2g /lit of water	285	200	42.5
	Fish	T ₂ : T ₁ + Silver Barb (<i>Puntius gonionotus</i>) fry @ 5000 nos./ha, 5 month T ₃ : T ₁ + Minor carp (<i>Labeo fimbriatus</i>) fry @ 5000nos./ha , 5 months T ₄ : T ₁ + half (T ₂ & T ₃)	T ₁ : IMC fry @ 10000 nos. / ha 10 months	30.0 29.5 28.0	23	30.43
Keonjhar	Cauliflower	Assessment of heat tolerant Cauliflower variety Srabani	Cultivation of “Early Shot” variety	278.5	227.3	22.53
	Okra	Assessment of STCR equation of targeted yield for okra	Cultivation with RDF (110:60:80)	199	154.6	28.72
	Pulse	Assessment of Grain-pro super bag for safe storage of Pulses	Storage of pulses in the gunny bags	2.15 (Infestation %)	20.50 (Infestation %)	89.51
Koraput	Ground nut	Assessment of HYV of Ground nut	JL-24	TG-38 Devi 22.5	18.3	23.52
	Kharif. potato	Assessment of Kharif potato	Kufri Jyoti	Chipsona-3 118.97 Laukar 127.5	125.6	-5.30 15
	Kharif onion	Assessment of kharif onion	Agrifound dark red	N53 211.6 Bimasupar 278.2	182.7	N53 15 Bimasupar 52

Malkan giri	Rice	Use of Leaf colour chart for nutrient management	80-40-40, NPK, kg/ha	42.7	32.4	31.8
	Rice	Brown Manuring	Only chemical fertilizer	42.5	29.4	44.5
	Brinjal	Liquid bio-fertilizer	60-40-40 NPK, Kg/ha	201.6	135.3	49
Mayur bhanj I	Paddy	T2-Mechanized transplanting under unpuddled condition T3- Mechanized transplanting under no tilled condition	Mechanized transplanting under puddled condition	T2-38.2 T3-36.4	39.5	-11.1
	Cereals and pulses	T2-Storing of cereals and pulses by using TNAU traps T3- Storing of cereals and pulses in pro super grain bag for storing of cereals and pulses	T1-Storing of cereals and pulses by sun drying	Storage loss (%) T1-30 T2-16 T3-12		
	Tomato	T ₂ – Growing of Tomato hybrid “Arka Samrat” T ₃ - Growing of Tomato hybrid “Arka Surakhya”	T ₁ – Growing of susceptible hybrids and HYVs	T2-190 T3-210	130	46.1 61.5
Mayur bhanj II	Poultry	Assessment of rearing of Rainbow rooster in backyard	Rearing of desi bird	3.25 kg meat/bird	1.75 kg meat/bir d	85.71
	Paddy	Assessment of 4rows walking behind rice transplanter	Manual transplanting	39.01	34.8	12
	Paddy	Assessment of mini tractor operated axial flow paddy thresher	Bullock trading	14.5 q/day	7.3 q/day	101
Nabarangp ur	Chilli	Assessment of planofix in chilli	Non use of planofix	83.5	62	34.67
	Maize	Assessment of Minimum tillage in Maize in rabi season	Tractor ploughing of entire field	53.6	54	-
	Tomato	Assessment of foliar spray of Boron in rabi tomato	No Boron application	187.5	132.25	41.77
Nayagarh	Rice	T2: CR Dhan 701 T3: Arize 6444 gold T4: Ajaya T5: Rajlaxmi Seed rate 12- 15 kg/ha, 600 m ² nursery/ha, 20x15 cm spacing, N:P:K @ 100:50:50 kg/ha	(T1) Swarna	T2: 58.6 T3: 62.2 T4: 58.4 T5: 61.8	T1: 47.2	T2: 24.2 T3:31.8 T4:23.7 T5: 30.9

	Rice	T2: Seed treatment with Thiophenate methyl @1.5g/kg seed and alternate spraying of Trifloxystrobin+ Tebuconazole @ 200g/ ha and Thifluzamide 24SC @500 ml/ha T3: Seed treatment with Carboxyn + Thiram @1.5 g/kg seed and alternate spraying of Propiconazole 13.5 EC +Difenconazole 13.5 EC @500 ml/ha and Azoxystrobin 23% SC@500 ml/ha at 15 days interval	Spraying of hexaconazole, carbendazim+ mancozeb mixed fungicides	T2: 54.1 T3: 50.3	T1: 42.9	T2: 26.1 T3:17.3
	Fishery	T2: Feeding floating feed (2mm) as supplementary feed @ 5% total biomass T3: Feeding slow sinking crumble feed (CP 32%) as supplementary feed @ 5% total biomass	T1: Feeding rice bran and oil cake 2:1 as supplementary feed	T2: 2.21 lakh/ha T3: 2.14 lakh/ha	T1: 1.52 lakh/ha	T2: 45.4 T3: 40.8
Nuapada	Chilli	Assesment of acaricide for mite infestation in chilli	Indiscriminate application of insecticides	140	122	14.7
	Napier	Assesment of hybrid napier	Guinea grass	319	287	11.1
	Mushroom	Oyster Mushroom in cotton substrate	Paddy as substrate	2.3 kg/bed	1.5 kg/bed	53.3
Puri	Cattle	Assessment of bypass protein feeding on milk production of dairy cattle	No bypass protein feeding	8.82 milk lit/day	8.3 milk lit/day	6
	Fish	Assessment on fish seed production with sprinkler in summer season	Fish seed production only in rainy season	41.5	36.2	15
	Paddy	Assessment of rice variety in low land CR-505	Cultivation of local variety	35q/ha	32q/ha	9
Rayagada	Paddy	Assessment of drought tolerant paddy variety Sahabhazi dhan in upland rainfed	Variety Khandagiri	48	32	50
	Paddy	Assessment of weed management in direct seeded paddy with drum seeder	Manual weeding @ 25 DAS	47	34	38.2

	Tomato	Foliar application of micronutrient	Without any micronutrient application	288	253	13.8
Sambalpur	Paddy	Assessment of micronutrient in rice	Indiscriminate fertilizer application without application of micronutrient	43	37.5	14.6
	Mushroom	Assessment of Oyster Mushroom Variety T2: Cultivation of Oyster mushroom variety Hypsizygos Ulmarius (Blue Oyster) T3: Cultivation of Oyster mushroom variety <i>Pleurotus Pulmonarius</i> (Indian Oyster)	Cultivation of oyster mushroom var. <i>Pleurotus sajor caju</i> (Grey oyster)	T2: 2.1 Kg/bed	1.5 Kg/bed	40
	Brinjal	Assessment of IPM module for management of fruit and shoot borer in Brinjal	Indiscriminate use of pesticide	256	210	21.9
Sonepur	Paddy	Assessment of early post-emergence herbicide in transplanted rice	Manual weeding	T2 44.6 T3 41.8	34.7	T2 28.5 T3 20.5
	Paddy	Assessment of real time nitrogen management by using CLCC in rice	Imbalanced use of nitrogen fertilizers	40.9	36.1	13.3
	Paddy	Assessment of paddy winnowers for drudgery reduction	Use of traditional winnowing basket(kula)	48kg/hr	30kg/hr	60
Sundergar h I	paddy	Post-emergence herbicide <i>B.Sodium</i>	Hand weeding at 21 & 45 DAS	24.2	19.5	24.1
	Onion	Varietal assessment kharif onion	New introduction	195.8	-	-
	Potato	Varietal assessment Kufri Pukhraj	Lal Patni	223.5	145.9	53
Sundergar h II	Cowpea	Assessment of suitable cowpea varieties under rainfed upland situation	Use of local varieties	94	83	13.25
	Tomato	Assessment of different staking methods in tomatoes	No staking method	315	270	16.7
	Babycorn	Assessment of baby corn for income generation of farm women	Cultivation of Maize	52	30	73.3

