



Climate-Smart Agriculture Practices Endorsed by Odisha's Priority Districts



Center for Study of Science, Technology and Policy (CSTEP)
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Introduction

This document presents climate-smart agriculture (CSA) practices that have been prioritised through district-level consultations with experts from nine districts. The districts include those with high climate risks (Nuapada, Kendrapara, and Angul), high resource use (Bargarh and Nabarangpur), and high greenhouse gas (GHG) emissions (Puri), along with those prone to all three, i.e. high climate risks, resource use, and GHG emissions (Jajpur, Bhadrak, and Balangir).

The experts were from the three Directorates of the Department of Agriculture and Farmers' Empowerment (DA&FE): the Directorate of Agriculture and Food Production, the Directorate of Horticulture, and the Directorate of Soil Conservation and Watershed Development. Scientists from each district's krishi vigyan kendas (KVKs) were also consulted. The prioritised CSA practices were then validated by farmer groups, including farmer producer organisations (FPOs), self-help groups (SHGs), and mixed farmer groups, in a random sample of villages. This allowed us to ensure that the prioritised practices reflected farmer relevance, technical feasibility, and gender-balanced participation.

The practices may be applied to paddy and other crops. Other crops include maize, millets, mustard, sesame, a range of vegetables and fruits (onion, cowpea, brinjal, ladyfinger, tomato, potato, beans, pumpkin, cabbage, and mango), spices (ginger, turmeric, chilli, coriander, and garlic), and pulses (black gram and green gram). The type of crops sown varies from district to district; however, the practices are broad enough that they may be applied to all of them.

Each district has prioritised a set of ten CSA practices. Furthermore, the Chief District Agriculture Officer (CDAO) from each district identified the top three CSA practices for implementation, reflecting immediate district priorities.

District 1: Puri

Ranking, in terms of the top three CSA practices to be implemented

CSA practice	
First	 Direct-seeded rice (DSR) – mechanised <div style="display: flex; justify-content: space-around; width: 100%;"> Paddy Crop management </div>
Second	 Recommended integrated farming system (IFS) modules; paddy cultivation along with livestock (e.g., rice-duck or rice-fish); biosaline farming involving both halophytes and marine aquaculture (Pokkali rice, where feasible) <div style="display: flex; justify-content: space-around; width: 100%;"> Paddy Crop management </div>
	 Organic and biofertilisers – vermicompost, farmyard manure (FYM), compost, and cow-based manures <div style="display: flex; justify-content: space-around; width: 100%;"> All crops Resource management </div>
Third	 Digital tools, information and communications technology (ICT), printed materials, and exposure to exhibitions <div style="display: flex; justify-content: space-around; width: 100%;"> All crops Supporting </div>
	 Alternate wetting and drying (AWD) <div style="display: flex; justify-content: space-around; width: 100%;"> Paddy Resource management </div>
	 Safe disposal waterways <div style="display: flex; justify-content: space-around; width: 100%;"> Paddy Resource management </div>
	 Diversification into high-value crops (fruits/vegetables/spices) and forgotten foods <div style="display: flex; justify-content: space-around; width: 100%;"> Other crops Crop management </div>
	 Intercropping / multiple cropping (e.g., cereals and legumes), deep-rooted with shallow-rooted crops <div style="display: flex; justify-content: space-around; width: 100%;"> Other crops Crop management </div>
	 Border strip irrigation <div style="display: flex; justify-content: space-around; width: 100%;"> Other crops Resource management </div>
	 Micro-irrigation – drip / sprinkler irrigation <div style="display: flex; justify-content: space-around; width: 100%;"> Other crops Resource management </div>

Crop type

Practice type

District 2: Angul

Ranking, in terms of the top three CSA practices to be implemented

CSA practice	
First	 Micro-irrigation – drip / sprinkler irrigation / rain guns <div style="display: flex; justify-content: space-between; width: 100%;"> Other crops Resource management </div>
Second	 Diversification into high-value crops (fruits/vegetables/spices) and forgotten foods <div style="display: flex; justify-content: space-between; width: 100%;"> Other crops Crop management </div>
Third	 Utilisation of rice fallows with short-duration rabi pulses/oilseeds <div style="display: flex; justify-content: space-between; width: 100%;"> Other crops Crop management </div>
	 Intercropping / multiple cropping (e.g., cereals and legumes), deep-rooted with shallow-rooted crops <div style="display: flex; justify-content: space-between; width: 100%;"> Other crops Crop management </div>
	 Mulching (organic/inorganic) <div style="display: flex; justify-content: space-between; width: 100%;"> Other crops Resource management </div>
	 Broad bed and furrow (BBF) <div style="display: flex; justify-content: space-between; width: 100%;"> Other crops Crop management </div>
	 Post-harvest management, value addition for agricultural produce, and creation of green value chains <div style="display: flex; justify-content: space-between; width: 100%;"> Other crops Crop management </div>
	 Soil-test-based nutrients, including micro-nutrients <div style="display: flex; justify-content: space-between; width: 100%;"> All crops Resource management </div>
	 Natural farming principles/practices <div style="display: flex; justify-content: space-between; width: 100%;"> All crops Crop management </div>
	 Addressing human-wildlife conflict through solar fences or the use of biorepellents <div style="display: flex; justify-content: space-between; width: 100%;"> All crops Supporting </div>

Crop type

Practice type

District 3: Jajpur

Ranking, in terms of the top three CSA practices to be implemented

CSA practice

First		Improved drought-, flood-, salt-, heat-, pest-, and disease-tolerant crop varieties	Paddy	Crop management
Second		Soil-test-based nutrients, including micro-nutrients	All crops	Resource management
Third		Diversification into high-value crops (fruits/vegetables/spices) and forgotten foods	Other crops	Crop management
		Organic and biofertilisers – vermicompost, FYM, compost, and cow-based manures	All crops	Resource management
		BBF	Other crops	Crop management
		Vegetative barriers / hedgerows / field bunding / contour bunding	Other crops	Resource management
		Mulching (organic/inorganic)	Other crops	Resource management
		Agri-horti-silvopasture or horti-silvopasture	Other crops	Crop management
		Bund/block plantation-based farm forestry (horticulture trees, forest trees, and commercial trees such as teak)	Other crops	Crop management
		IFS modules – mushroom cultivation; bee keeping; fishery practices in small ponds, including hatcheries; backyard rearing of poultry; rearing small ruminants	All crops	Supporting

 **Crop type**

 **Practice type**

District 4: Nabarangpur

Ranking, in terms of the top three CSA practices to be implemented

CSA practice		
First		Diversification into high-value crops (fruits/vegetables/spices) and forgotten foods
Second		Micro-irrigation – drip / sprinkler irrigation / rain guns
Third		Intercropping / multiple cropping (e.g., cereals and legumes), deep-rooted with shallow-rooted crops
		Mulching (organic/inorganic)
		Post-harvest management, value addition for agricultural produces, and creation of green value chains
		Repair/renovation/lining of farm ponds or irrigation/field channels
		Summer ploughing every year/once in 3 years, using a mould board (MB) plough for soil moisture conservation
		Soil-test-based nutrients, including micro-nutrients
		Pest and disease surveillance and forewarning systems
		Customised and digitised weather forecast-based crop advisory services

 Crop type

 Practice type

District 5: Balangir

Ranking, in terms of the top three CSA practices to be implemented

CSA practice		
First	 DSR – mechanised	Paddy Crop management
Second	 Post-harvest management, value addition for agricultural produce, and creation of green value chains	Other crops Crop management
Third	 Access to services of KVKs and regional research stations (RRSs) of state agricultural universities (SAUs) – Organisation of demonstration plots, farmer field schools, training programmes, and field visits	All crops Supporting
	 Improved drought-, flood-, salt-, heat-, pest-, and disease-tolerant varieties	Paddy Crop management
	 Summer ploughing every year/once in 3 years, using an MB plough for soil moisture conservation	Paddy Resource management
	 AWD	Paddy Resource management
	 Intercropping / multiple cropping (e.g., cereals and legumes), deep-rooted with shallow-rooted crops	Other crops Crop management
	 Diversification into high-value crops (fruits/vegetables/spices) and forgotten foods	Other crops Crop management
	 Orchard management (nursery, propping, windbreaks, shade nets, canopy management, and pruning)	Other crops Crop management
	 IFS modules – mushroom cultivation; bee keeping; fishery practices in small ponds, including hatcheries; backyard rearing of poultry; rearing small ruminants	All crops Supporting

Crop type

Practice type

District 6: Nuapada

Ranking, in terms of the top three CSA practices to be implemented

CSA practice	
First	 <p>IFS modules – mushroom cultivation; bee keeping; fishery practices in small ponds, including hatcheries; backyard rearing of poultry; rearing small ruminants</p> <p>All crops Supporting</p>
Second	 <p>Farm ponds / water harvesting structures for irrigation during dry spells</p> <p>Other crops Resource management</p>
Third	 <p>Access to services of KVKS and RRSs of SAUs – Organisation of demonstration plots, farmer field schools, training programmes, and field visits</p> <p>All crops Supporting</p>
	 <p>Residue retention with no stubble burning and brown manuring / incorporation of green manure crops</p> <p>Paddy Resource management</p>
	 <p>Organic and biofertilisers – vermicompost, FYM, compost, and cow-based manures</p> <p>All crops Resource management</p>
	 <p>Agri-horti-silvopasture or horti-silvopasture</p> <p>Other crops Crop management</p>
	 <p>Bund/block plantation-based farm forestry (horticulture trees, forest trees, and commercial trees such as teak)</p> <p>Other crops Crop management</p>
	 <p>Check dams / earthen bunds / bori bandh / stone bunds / gully plugs</p> <p>Other crops Resource management</p>
	 <p>Post-harvest management, value addition for agricultural produce, and creation of green value chains</p> <p>Other crops Crop management</p>
	 <p>Digital tools, ICT, printed materials, and exposure to exhibitions</p> <p>All crops Supporting</p>

 Crop type

 Practice type

District 7: Kendrapada

Ranking, in terms of the top three CSA practices to be implemented

CSA practice		
First		Improved drought-, flood-, salt-, heat-, disease-, and pest-tolerant varieties Paddy Crop management
Second		Recommended IFS modules; cultivation of paddy along with livestock (e.g., rice-duck or rice-fish); biosaline farming involving both halophytes and marine aquaculture (Pokkali rice, where feasible) Paddy Crop management
Third		Organic and biofertilisers – vermicompost, FYM, compost, and cow-based manures All crops Resource management
		Natural farming principles/practices All crops Crop management
		Short-duration, early maturing varieties, resilient local landraces, or rootstocks All crops Crop management
		Utilisation of rice fallows with short-duration rabi pulses/oilseeds Other crops Crop management
		Micro-irrigation – drip / sprinkler irrigation / rain guns Other crops Resource management
		Mulching (organic/inorganic) Other crops Resource management
		Repair/renovation/lining of farm ponds or irrigation/field channels All crops Resource management
		Use of renewable energy for irrigation (solar/wind) All crops Resource management

 **Crop type**

 **Practice type**

District 8: Bargarh

Ranking, in terms of the top three CSA practices to be implemented

CSA practice		
First		Organic and biofertilisers – vermicompost, FYM, compost, and cow-based manures All crops Resource management
Second		Repair/renovation/lining of farm ponds or irrigation/field channels All crops Resource management
Third		Micro-irrigation – drip / sprinkler irrigation / rain guns Other crops Resource management
		Soil-test-based nutrients, including micro-nutrients All crops Resource management
		Check dams / earthen bunds / bori bandh / stone bunds/ gully plugs All crops Resource management
		Use of slow-release fertiliser, i.e. neem- or sulphur-coated urea and nano-fertilisers All crops Resource management
		Digital tools, ICT, printed materials, and exposure to exhibitions All crops Supporting
		Access to services of KVKs and RRSs of SAUs – Organisation of demonstration plots, farmer field schools, training programmes, and field visits All crops Supporting
		IFS modules – mushroom cultivation; bee keeping; fishery practices in small ponds, including hatcheries; backyard rearing of poultry; rearing small ruminants All crops Supporting
		Azolla cultivation, green fodder cultivation (maize, sorghum, or cow pea cultivation for a short duration and fed to livestock) NA Supporting

 Crop type

 Practice type

District 9: Bhadrak

Ranking, in terms of the top three CSA practices to be implemented

CSA practice

First	 <p>Organic and biofertilisers – vermicompost, FYM, compost, and cow-based manures</p>	All crops	Resource management
Second	 <p>IFS modules – mushroom cultivation; bee keeping; fishery practices in small ponds, including hatcheries; backyard rearing of poultry; rearing small ruminants</p>	All crops	Supporting
Third	 <p>Access to services of KVKs and RRSs of SAUs – Organisation of demonstration plots, farmer field schools, training programmes, and field visits</p>	All crops	Supporting
	 <p>Customised leaf colour chart for guiding fertiliser application</p>	All crops	Resource management
	 <p>Seed/seedling treatment with bioinoculants</p>	All crops	Resource management
	 <p>Soil-test-based nutrients, including micro-nutrients</p>	All crops	Resource management
	 <p>Farm ponds / water harvesting structures for irrigation during dry spells</p>	Other crops	Resource management
	 <p>Micro irrigation – drip / sprinkler irrigation / rain guns</p>	Other crops	Resource management
	 <p>Digital tools, ICT, printed materials, and exposure to exhibitions</p>	All crops	Supporting
	 <p>Azolla cultivation, green fodder cultivation (maize, sorghum, or cow pea cultivation for a short duration and fed to livestock)</p>	NA	Supporting

 Crop type  Practice type



Odisha – Strategic CSA Practices

CSA practice

	DSR – mechanised	Paddy	Crop management
	AWD*	Paddy	Resource management
	Recommended IFS modules; cultivation of paddy along with livestock (e.g., rice-duck or rice-fish); biosaline farming involving both halophytes and marine aquaculture (Pokkali rice, where feasible)	Paddy	Crop management
	Summer ploughing every year/once in 3 years, using an MB plough for soil moisture conservation	All crops	Resource management
	Improved drought-, flood-, salt-, heat-, pest-, and disease-tolerant varieties	All crops	Crop management
	Soil-test-based nutrients, including micro-nutrients	All crops	Resource management
	Organic and biofertilisers – vermicompost, FYM, compost, and cow-based manures	All crops	Resource management
	Check dams / earthen bunds / bori bandhs / stone bunds / gully plugs	All crops	Resource management
	Micro-irrigation – drip / sprinkler irrigation / rain guns	Other crops	Resource management
	BBF	Other crops	Crop management
	Mulching (organic/inorganic)	Other crops	Resource management

 **Crop type**
 **Practice type**

CSA practice



Diversification into high-value crops (fruits/ vegetables/spices) and forgotten foods

Other crops **Crop management**



Intercropping / multiple cropping (e.g., cereals and legumes), deep-rooted with shallow-rooted crops

Other crops **Crop management**



Utilisation of rice fallows with short-duration rabi pulses/oilseeds

Other crops **Crop management**



Agri-horti-silvopasture or horti-silvopasture

Other crops **Crop management**



Bund/block plantation-based farm forestry (horticulture trees, forest trees, and commercial trees such as teak)

Other crops **Crop management**



IFS modules – mushroom cultivation; bee keeping; fishery practices in small ponds, including hatcheries; backyard rearing of poultry; rearing small ruminants

All crops **Supporting**



Access to services of KVKS and RRSs of SAUs – Organisation of demonstration plots, farmer field schools, training programmes, and field visits

All crops **Supporting**



Digital tools, ICT, printed materials, and exposure to exhibitions

All crops **Supporting**



Azolla cultivation, green fodder cultivation (maize, sorghum, or cow pea cultivation for a short duration and fed to livestock)

NA **Supporting**

 **Crop type**

 **Practice type**

The CSA practices listed above have been prioritised by at least two out of the nine selected districts.

* While DSR can be adopted across most paddy systems, AWD is feasible only in areas where farmers have sufficient control over irrigation and drainage. As a result, AWD may be scaled more selectively, depending on local water management practices.

Odisha – District-wise Prioritised CSA Practices

SN	CSA practice	Crop type	Practice type	Puri	Angul	Jajpur	Nabarangpur	Balangir	Nuapada	Kendrapara	Bargarh	Bhadrak
1	DSR – mechanised	Paddy	Crop management									
2	AWD	Paddy	Resource management									
3	Recommended IFS modules; cultivation of paddy along with livestock (e.g., rice-duck or rice-fish); biosaline farming involving both halophytes and marine aquaculture (Pokkali rice, where feasible)	Paddy	Crop management									
4	Summer ploughing every year/once in 3 years, using an MB plough for soil moisture conservation	All crops	Resource management									
5	Improved drought-, flood-, salt-, heat-, pest-, and disease-tolerant varieties	All crops	Crop management									
6	Soil-test-based nutrient application, including micro-nutrients	All crops	Resource management									
7	Organic and biofertilisers – vermicompost, FYM, compost, and cow-based manures	All crops	Resource management									
8	Check dams / earthen bunds / bori bandhs / stone bunds / gully plugs	All crops	Resource management									
9	Micro-irrigation – drip / sprinkler irrigation / rain guns	Other crops	Resource management									
10	BBF	Other crops	Crop management									
11	Mulching (organic/inorganic)	Other crops	Resource management									
12	Diversification into high-value crops (fruits/vegetables/spices) and forgotten foods	Other crops	Crop management									
13	Intercropping / multiple cropping (e.g., cereals and legumes), deep-rooted with shallow-rooted crops	Other crops	Crop management									

SN	CSA practice	Crop type	Practice type	Puri	Angul	Jajpur	Nabarangpur	Balangir	Nuapada	Kendrapara	Bargarh	Bhadrak
14	Utilisation of rice fallows with short-duration rabi pulses/oilseeds	Other crops	Crop management		■					■		
15	Agri-horti-silvopasture or horti-silvopasture	Other crops	Crop management			■			■			
16	Bund/block plantation-based farm forestry (horticulture trees, forest trees, and commercial trees such as teak)	Other crops	Crop management			■			■			
17	IFS modules – mushroom cultivation; bee keeping; fishery practices in small ponds, including hatcheries; backyard rearing of poultry; rearing small ruminants	All crops	Supporting			■		■	■	■	■	■
18	Access to services of KVKS and RRSs of SAUs – Organisation of demonstration plots, farmer field schools, training programmes, and field visits	All crops	Supporting			■		■	■		■	■
19	Digital tools, ICT, printed materials, and exposure to exhibitions	All crops	Supporting	■					■		■	■
20	Azolla cultivation, green fodder cultivation (maize, sorghum, or cow pea cultivation for a short duration and fed to livestock)	NA	Supporting							■	■	■

Appendix

Table A1: Exhaustive list of stakeholders engaged during field visits across districts

District	Civil society organisation / non-governmental organisation	Farmer producer organisation (FPO) / farmer producer company (FPC)	Self-help group (SHG)	
Angul	Joint Endeavour for Emancipation Training & Action of Women (JEETA)	Charamallik FPC	Abhiram, Banarpal	
	Voluntary Institute for Rural Development (VIRD)	Somanatha FPC	Baba Dhabaleshwar, Athamallik	
Balangir	Action for Social Advancement (ASA)	Bancharen FPC	Bijayalakshmi, Bongomunda	
	Mahashakti Foundation	Bastarani	Mahamangala, Bongomunda	
		Green Gudvela FPC	Mahasaraswati, Turekela	
Bargarh	Vikalpa	Harishankar FPC	Mahatulsi, Turekela	
		Muribahal FPO		
		Puintala FPC		
Bhadrak	Mahashakti Foundation	Bhatli FPC	-	
		Chirasabuja FPC		
	New Life Foundation	Sabujima FPC		
Jajpur	-	Aradi Tihidi Block 4S4R FPC	-	
		Bajrangi FPC		
		Dhamnagar 4S4R FPC		
		Kunteshwar FPC		
Kendrapara	Adarsh Odisha Foundation	Adarsh FPO	Adishakti SHG, Rajnagar	
	Gangotri	Gangotri FPO		
	Danagadi Village Cooperative Society	Taradevi Women FPO		
	Barundei Village Cooperative Society			
	SAHEL			
Kendrapara	Action for Protection of Wild Animals (APOWA)	Baladevjew FPO	Adishakti SHG, Rajnagar	
	Gram-Utthan			
	Nature's Club	Krushi Bikash FPC		
	Sri Satya Sai Institute of Technical Management			

District	Civil society organisation / non-governmental organisation	Farmer producer organisation (FPO) / farmer producer company (FPC)	Self-help group (SHG)	
Nabarangpur	Harsha Trust	Ma Pendrani FPC	Budha Chauria, Papadahandi	
			Ma Durga, Papadahandi	
			Ma Sanadoi, Papadahandi	
			Ma Tarini, Papadahandi	
			Ma Thakurani, Papadahandi	
	Odisha Professional Development Service Consultants (OPDSC)		Mahalaxmi, Papadahandi	
			Olekh Mahima, Papadahandi	
			Saraswati, Nowrangpur	
			Tulsi, Nowrangpur	
			Tulsi, Papadahandi	
Nuapada	Prateeksha	Pallijagaran FPC	Maa Biranjadevi , Sinapali	
			Maa Kalijai, Sinapali	
		Maa Sunadei FPC	Jhansirani, Sinapali	
	CPSW Kendubata	Maa Sunadei FPO	Maa Dharani, Komna	
		Sabuja Komna FPC	Mahalakshmi, Khariar	
			Bedamata, Sinapali	
			Radhakrushna, Sinapali	
Puri	Gopabandhu Seva Parisad (GSP)	Samarpita FPC	Mahalakshmi, Pipli	
	Odisha State Volunteers and Social Workers Association (OSVSWA)	Parikalpana FPC	Serei Village SHG, Kanas	
	Organisation for Farmer's Solidarity & Integrated Farming System (OFSIFS)			



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