

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
EASTERN ZONE BENCH, KOLKATA
ORIGINAL APPLICATION NO. 133/2024/EZ
(Earlier O.A. No. 511/2024/PB)**

IN THE MATTER OF:

News Item "No Crops, No Brides,
How Rising Seas are killing
India's Coastal villages" appearing
in the Guardian dated 11.03.2024"

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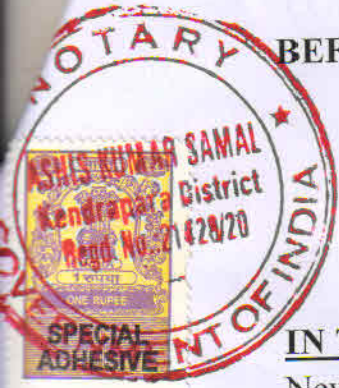
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Kendrapara, Odisha
Dtd. 18 /04/2026

Padmesh Mishra
Advocate for Respondent/
Government of Odisha
office@padmeshmishra.com
Mob-9958230144



SL NO 242 dt 18.04.2026



BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
EASTERN ZONE BENCH, KOLKATA

ORIGINAL APPLICATION NO. 133/2024/EZ

(Earlier O.A. No. 511/2024/PB)

IN THE MATTER OF:

News Item "No Crops, No Brides,
How Rising Seas are killing
India's Coastal villages" appearing in
the Guardian dated 11.03.2024"

COUNTER AFFIDAVIT FILED BY RESPONDENT No. -11

I, Sri Raghuram R Ayer, aged about 57 years S/o-Late A.R Radhakrishna presently working as District Magistrate & Collector, Kendrapara, At/Po/Dist-Kendrapara do hereby solemnly affirm and state as follows:

1. That I am swearing this affidavit pursuant to the direction dated 6.8.2025 passed by this Hon'ble Tribunal.
2. That I am arrayed as Respondent No. 11 in the above-mentioned Original Application as per order dt. 06.8.2025 passed by this Hon'ble Tribunal.
3. That I have gone through the above-mentioned Original Application and have understood all the contents thereof. In my official capacity I am well acquainted with the facts of the case and thus competent to swear this affidavit.
4. That, the Hon'ble NGT, New Delhi (PB) on the basis of the news item had registered case bearing No. 511 of 2024 (PB). Then the said

Raghuram R Ayer

A.K. Samal
18.04.26
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Kendrapara District

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O.A was transferred to the NGT, Eastern Zone Bench, Kolkata and been renumbered as 133/2024/EZ.

5. That the Hon'ble NGT vide order dated 06.08.2025 has been pleased to direct the present answering Respondent No.11 to file an affidavit stating the measures that have been taken for providing potable water to the villages in question with regard to the article published in the newspaper in "The Gaurdian" titled as "No Crops, No Brides: How Rising Seas are killing India's Coastal Villages".

6. That it is humbly submitted that the DFO, Mangrove Forest Division (Wildlife), Rajnagar, Kendraparawas requested to submit his report to the present petition. The Divisional Forest Officer, Mangrove Forest Division (Wildlife), Rajnagar has submitted the report vide his letter No-6992/dtd.15.11.2025 which is as follows:

i. Mangrove Plantation Initiatives: A decade of Restoration:

The Mangrove Forest Division has been rigorously undertaking mangrove plantation drives over the last decade under various schemes in Kendrapara District. These efforts are crucial for shoreline protection and ecosystem restoration.

From the year 2014 onwards a total of 1767.456 Ha of Afforestation (AR) and 570 Ha of Assisted Natural Regeneration (ANR) have been established amounting to a significant increase and ICZMP alongside specific project-based plantations. Due to continuous Mangrove Plantation by this Division, Mangrove Forests have increased as per the FSI report.

A.K. Samal
17.11.24
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NOTARY
Kendrapara District

Raghunath

ii. **Impact reflected in Forest Survey of India (FSI) Reports:**

The continuous mangrove plantation efforts by this Division have evidently increased mangrove forest cover as corroborated by the India State of Forest Reports (ISFR), Odisha has shown a significant increase primarily due to the active involvement of the Mangrove Forest Division in Dismantling illegal prawn gherries and undertaking massive afforestation drives.

The ISFR 2021, Odisha recorded the highest increase in mangrove cover in the country, with an addition of 8 square kilometers between 2019 and 2021. This positive trend has continued as has been noted in the ISFR, 2023, which also reported a further rise in the State's mangrove area by 1.67 Sq.Km. Furthermore, plans are underway to achieve 60Ha Mangrove Plantation during 2026-27 in Kendrapara District under various Schemes.

Rajkumar A. S.

iii. **Local Livelihood Improvement Programs under ECRICC projects since 2022:**

The ECRICC (Ecosystem-based Climate Risk and Coastal Community Resilience) project launched in 2022 with financial support from Green Climate Fund (UNDP) and co-funding by the Government of Odisha with a focus on both ecological restoration and sustainable livelihood development.

- 442 hectares of mangrove plantation undertaken
- 89 hectares of plantation ongoing in the current year (2025-26)
- 478.23 hectares of fish bone channel created

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2018.04.28
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Kendrapara District

- 105 km of creek deepening
- 31 hectares of prawn gherries demolished
- 2 New mangrove meta nurseries established.

iv. Eco-friendly Livelihood Activities:

a) System of Rice Intensification (SRI):

To promote sustainable rice cultivation, the ECRICC Project has implemented SRI, enhancing productivity, climate resilience and Socio-economic wellbeing.

ACTIVITY	DETAILS	BENEFICIARY
System of Rice Intensification (SRI)	Area covered under SRI Kharif 2023 & Rabi 2023-539.25 Acres	2127
	SRI Khariff & Rabi intervention 2024-750 Acres	3280
	SRI Khariff in intervention 2005-375 Acres	1500
Crab Fattening/Culture	In 2024- 2.24 Ha	03
	In 2025-1.9 Ha	07
Ornamental Fish Culture	In 2025-2400 Sq. ft Area	08
Crab Hatchery	Site Selection and water testing has been done. MoU with FARD Deptt. And MPEDA-RGCA is on process.	
Total beneficiaries		6925 Beneficiaries

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Kendrapada District

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To promote sustainable rice cultivation, ECRICC Project has implemented the System of Rice Intensification (SRI) across multiple seasons. The programs focus on improving productivity, climate resilience and socio-economic well-being of farming communities. Training programs have also been implemented there to improve knowledge on water-efficient practices, seed management, soil health and mechanization suited for SRI operations.

b) Crab Culture:

- This crab Culture intervention was started in the year 2024 in Mahakalapada Block, Kendrapara.
- A total 10 nos. of Farmers having proper CAA License were covered till now having total water spread area of 10.625 Acres.
- Continuous training and Capacity building and Hand holding support to farmers is being provided by DPMU- Kendrapara and MPEDA-RGCA.
- Exposure visits to MPEDA-RGCA were also completed through this project for proper training of project staff.

c) Project for 2026-27 by ECRICC:

This Division is planning to undertake 68 Ha Mangrove Plantation, 2000 families for SRI paddy cultivation and 5 farmers for Crab Culture during 2026-27 in Kendrapara District by ECRICC Schemes.

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d) **Ornamental Fish Culture:**

- This ornamental Fish Culture intervention was started in 2025 with support from ICAR-CIFA.
- A total 08 nos. of Ornamental Fishery units having total 08 nos. of beneficiaries have been established in Kendrapara District through ECRICC Project.
- Proper training capacity building and exposure visits to ICAR-CIFA & KVK-Kendrapara have been completed.

Copy of the Letter No. 6992/dated.15.11.2025 is Annexed herewith as ANNEXURE-A

7. That it is humbly submitted that the Superintending Engineer, RWS&S Division, Kendrapara was requested to submit the report in this regard. The Executive Engineer, RWS&S, Division has submitted the report vide Letter No-404/dtd.12.02.2026. It is revealed from the report that he has undertaken comprehensive measures to ensure adequate drinking water supply to the residents of Bagapatia. The people of Satavaya Rehabilitation Colony habited at Bagapatia have been receiving drinking water through the existing Piped Water Supply Scheme. Twenty-Four nos. of Tube wells are existing in running condition to fulfill all requirements of water. In addition to this, the Mega Piped Water Supply Project to Rajnagar is ongoing which is currently under active execution for Bagapatia and surrounding areas.

Copy of the letter No-404 Dtd. 12.02.2026 is Annexed herewith as ANNEXURE- B

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8. That it is humbly submitted that the Chief District Agriculture Officer, Kendrapara was requested to submit the report in this regard. The CDAO, Kendrapada has submitted the report vide his letter No-779/Agril./Dtd.17.02.2026. As per his report in compliance with environmental safeguards and in view of increasing climate variability Cyclones, floods, salinity ingress, erratic rainfall, the following initiatives have been undertaken:

a) Promotion of Climate-Resilient Cropping Systems

- Introduction and scaling up of short-duration, flood-tolerant, and salinity-tolerant crop varieties.
- Crop diversification towards pulses, oilseeds, and millets to reduce mono-cropping risks.
- Promotion of contingency crop planning during extreme weather events.

b) Sustainable Agricultural Practices

- Encouragement of organic and natural farming practices to reduce chemical load on soil and water bodies.
- Promotion of Integrated Nutrient Management (INM) and Integrated Pest Management (IPM).
- Soil health monitoring and issuance of Soil Health Cards for balanced fertilizer application.

c) Water Resource Management

- Promotion of micro-irrigation systems such as drip and sprinkler irrigation.

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- Community-based water conservation and efficient water-use practices.
- Awareness programmes on reducing groundwater over-extraction.

d) Capacity Building and Farmer Awareness

- Regular training programs for farmers on climate adaptation strategies.
- Demonstration plots showcasing climate-resilient technologies.
- Collaboration with line departments and Krishi Vigyan Kendras for technical support.

e) Soil Testing

- Regular Soil testing in all blocks of Kendrapara have been taken for measuring the pH of soil and treatment thereof. This year target of soil sample collection was 15 thousand nos.
- This year the target for collection of soil sample for Mahakalpada and Rajnagar block was which are adjacent to see Bay of Bengal.
- For treatment of acidic soil Dolomite supply was that and that for Mahakalapada and Rajnagar Block of Kendrapara District.

f) Pilot Project on Enhancing Climate Resilience among Vulnerable Households to Prevent Distress Migration

- In recognition of the growing linkage between climate vulnerability and distress migration, the Chief District Agriculture Office, Kendrapara has initiated a focused pilot project aimed at strengthening climate resilience among vulnerable households through an integrated farm and non-farm

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livelihood support framework. The project is designed not only to enhance adaptive agricultural practices but also to create stable and diversified income opportunities that reduce the compulsion for seasonal and distress migration.

g) Key Components of the Pilot Initiative:

• **Targeted Identification of Vulnerable Households:**

Systematic identification of climate-vulnerable small and marginal farmer households, particularly those exposed to recurrent floods, cyclones, salinity ingress, and crop losses, and with a history of seasonal migration.

• **Climate-Resilient Farm-Based Livelihoods:**

Promotion of diversified and risk-resilient agricultural models including improved vegetable cultivation, climate-tolerant crop varieties, backyard poultry, small ruminants, fisheries where feasible, and integrated farming systems to ensure year-round income flow.

• **Non-Farm Livelihood Diversification:**

Support for supplementary non-farm income-generating activities to cushion households against climate-induced agricultural shocks, thereby reducing income volatility and migration pressures.

• **Strengthening Community Institutions:**

Facilitation of farmer groups and community-based institutions for collective planning, input access, risk-sharing mechanisms,

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and climate advisory dissemination to enhance localized resilience planning.

- **Women-Centric Livelihood Support:**

Promotion of women's active participation in farm and non-farm enterprises, strengthening their economic agency and improving overall household adaptive capacity.

- **Convergence and Technical Backstopping:**

Leveraging convergence with allied departments and schemes to ensure sustained technical guidance, input support, and institutional strengthening.

h) Intended Outcomes:

- Stabilize household incomes across agricultural seasons.
- Reduce vulnerability to climate-induced crop failure.
- Minimize distress-driven seasonal migration.
- Build long-term adaptive capacity at both household and community levels.

Through this pilot initiative, the Chief District Agriculture Office aims to demonstrate a scalable model that integrates climate adaptation with livelihood security, thereby addressing environmental sustainability and socio-economic vulnerability in a holistic manner.

i) Convergence and Institutional Coordination

The District Agriculture Office is ensuring convergence with allied departments, local self-government institutions, and community-based organizations to align climate-resilient agriculture with environmental

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Rajbiram R. J.

protection objectives. Regular monitoring and reporting mechanisms are in place to assess implementation progress.

Copy of the letter No-779/Agri./17.02.2026 is annexed herewith as ANNEXURE-C

- 9. That the District Administration is fully aware and vigilant with regard to environmental protection and is taking all necessary and appropriate measures in accordance with law to safeguard and preserve the environment.
- 10. That the statements made in the present affidavit are true to the best of my knowledge and belief as per information derived from the official records and statements.
- 11. This is for humble submission before the Hon'ble National Green

Tribunal, Eastern Zone, Kolkata.

Above Deponent being identified

by Advocate H.K. Sahoo State

S.A. before me on this 18 day

of April 2026 at 10:30 AM/PM

that the contents of Affidavit is

true and correct to the best of

his knowledge and

VERIFICATION

NOTARY KENDRAPARA District

IDENTIFIED BY ME
Huseeh
Advocate

DEPONENT
Collector & Dist. Magistrate
KENDRAPARA

20/04/2026
Huseeh
Adv

I, the above-named deponent, do hereby verify that the contents of the above affidavit are true and correct to the best of my knowledge and nothing material has been concealed therefrom.

Verified at Kendrapada on this 18.4 day of 2026.

DEPONENT
Collector & Dist. Magistrate
KENDRAPARA

(Annexure-A)

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OFFICE OF THE
DIVISIONAL FOREST OFFICER, MANGROVE FOREST DIVISION (WL), RAJNAGAR

AT/P.O: Rajnagar, Dist: Kendrapara-754225, Phone: 06729-242460,
Control Room: 06729-242463, E-mail ID: dfo.rajnagarwlf@odisha.gov.in

No. 6992 4F(Misc)-579/2025
Dated Rajnagar, the 15th November-2025

To

The collector & District Magistrate
Kendrapara

Sub :-

O.A Case No.133/2024/EZ filed by Hon'ble National Green Tribunal, Eastern Zone, Kolkata, Suo-Motu case/Original Application on the news items titled "No brides: how rising seas are killing India's coastal villages" appearing in "The Guardian" dtd.11.03.2024.

Ref:-


Your Letter No.2744 D/Judl.Dtd.18.10.2025

Sir,

In inviting a reference to your above cited letter, the information related to the above O.A case regarding steps taken to reduce the impact of the Sea erosion and Sea in green by this division is furnished in a separate sheet for favour of your kind information and necessary action.


Encl :- As above.

Yours faithfully



Divisional Forest Officer
Mangrove Forest Division (Wildlife)
Rajnagar

Memo No. 6993 /Dtd.15.11.2025

Copy forwarded to Sri Prabhu Prasanna Behera, Additional Standing Counsel, O/o-the Advocate General, Odisha, Cuttack for information and necessary action with reference to the Memo No.2745 Dtd.18.10.2025 of Collector & District Magistrate in his address.


Divisional Forest Officer
Mangrove Forest Division (Wildlife)
Rajnagar

True copy
attested


18.04.2026
Dy. Collector Judl.
Collectorate, Kendrapara

INFORMATION ON O.A Case No.133/2024 filed by Hon'ble National Green Tribunal, Eastern Zone, Kolkata

The following steps have been taken to reduce the impact of sea erosion and sea water ingress by the Mangrove Forest Division(Wildlife)Rajnagar:-

1. Mangrove Plantation Initiatives: A Decade of Restoration

The Mangrove Forest Division has been rigorously undertaking mangrove plantation drives over the last decade under various schemes in Kendrapada District. These efforts are crucial for shoreline protection and ecosystem restoration.

From the year 2014 onwards , a total of **1767.456 Ha of Afforestation (AR)** and **570 Ha of Assisted Natural Regeneration (ANR)** have been established, amounting to a significant increase in mangrove cover. The initiatives include Central Plan (MAP), State CAMPA, MGNREGS, and ICZMP, alongside specific project-based plantations. Here's a summary of the plantation efforts by year:

Year	Name of Scheme	Location	Plantation Raised in Ha	Seedling Planted
2014-15	Central Plan- MAP- Bhitarkanika- Mangrove	East Orasahi	5 Ha	22225
	Central Plan- MAP- Mahanadi Delta- Mangrove	Sanatubi	100 Ha	444500
	State CAMPA- Mangrove	Kansaridia	176.056 Ha	778679
	ICZMP-EDC Plantation Mangrove	EDC Bankual	4.50 Ha	7200
	-do-	EDC Krushnanagar	4.50 Ha	7200
	-do-	EDC Kaitha	3.00 Ha	4800
	-do-	EDC Barahipur	3.00 Ha	4800
	-do-	EDC Bagapatia	6.00 Ha	9600
	-do-	Total 2014-15	302.056	
	2015-16	Central Plan- MAP- Bhitarkanika- Mangrove	East Orasahi	5 Ha
State CAMPA Odisha- Mangrove		Nadiakhia	25 Ha	111125
MGNREGS- Mangrove		Chitakhola	2 Ha	8890
MGNREGS Mangrove		Jaudia	10 Ha	44450/-
ICZMP- Mangrove Plantation		Jaudia	19 Ha	47500
-do-		Rajrajeswarpur- R	3 Ha	7500
-do-		Debendranarayasnpur-II- R	5 Ha	12500
-do-		Krushnapriyapur- R	13 Ha	32500
-do-		Harihansa- R	8 Ha	20000
-do-		Ratapanga & Tantiapal	25 Ha	62500
-do-		Banapada	18.40 Ha	46000
	Total 2015-16	133.4 Ha		
2016-17	State Plan- APO- Bhitarkanika- Mangrove	Kantiakhai	6 Ha	15000

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18.04.2026
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	State Plan- CSS-MAP- Mahanadi Delta- Mangrove	Sanatubi	60 Ha	266700
	ICZMP- Mangrove	Sanatubi	14 Ha	35000
		Total 2016-17	80 Ha	
2017-18	State Plan- CSS-MAP- Mahanadi Delta	Hetamundia AR Mangrove	30 Ha	133350
		Sanatubi AR Mangrove	30 Ha	133350
	ICZMP	Sanatubi AR Mangrove	21 Ha	87500
		Total 2017-18	81 Ha (AR)	
2018-19	State Plan- CSS-MAP- Mahanadi Delta	Hetamundia PRF AR Mangrove	50 Ha	220250
	State CAMPA Odisha	Kantilo ANR Mangrove	50 Ha	10000
		Hetamundia ANR Mangrove	50 Ha	10000
		Baruhan ANR Mangrove	100 Ha	20000
	MGNREGS	Jogidhanakuda AR Mangrove	25 Ha	111125
		Total 2018-19	75 Ha(AR) 200 Ha (ANR)	
2019-20	State Plan- CSS-MAP- Mahanadi Delta- Mangrove	Hetamundia PRF	50 Ha	220250
		Total 2019-20	50 Ha AR	
2020-21	3329- GMM-Mangrove	Saralikuda AR	10 Ha	16000
	State Plan- CSS-MAP- M..Delta- Mangrove	Hetamundia PRF AR Mangrove	100 Ha	444500
	State CAMPA	Kantiakhai ANR (Mangrove)	40 Ha	8000
	MGNREGS	Kantika AR Mangrove	12 Ha	53340
		Saralikuda AR Mangrove	50 Ha	222250
		Total 2020-21	172 Ha AR 40 ANR	
2021-22	State CAMPA	Sanatubi AR Mangrove	42 Ha	186690
	-do-	Badatubi AR Mangrove	18 Ha	80010
	-do-	Saralikuda AR Mangrove	40 Ha	177800
	-do-	Kantilo RF ANR Mangrove	20 Ha	4000
	-do-	Suniti ANR Mangrove	10 Ha	20000
	-do-	Nadiakhia ANR Mangrove	100 Ha	20000
	State Plan- CSS-MAP- Bhitarkanika	Jaudia AR Mangrove	40 Ha	8000
	State Plan- CSS-MAP- Mahanadi Delta	Saralikuda AR Mangrove	35 Ha	111125
		Nipania AR Mangrove	65 Ha	288925
		Total 2021-22	240 Ha AR 130 ANR	
2022-23	State CAMPA AR Plantation @ 4445 per Ha	Jogidhanakuda PRF Mangrove	100 Ha	444500
		Maharabanka (Kathuaganda)- Mangrove	10 Ha	44450
		Kantiakhai- Mangrove	70 Ha	14000

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K. Sahoo
18.04.2026

Dy. Collector Judl.
Collectorate, Kendrapara

	State CAMPA- Odisha-ANR Plantation @ 200 per Ha	Kanchira - Mangrove	30 Ha	6000
		North Mahisamada - Mangrove	50 Ha	10000
		Hetamundia PRF - Mangrove	50 Ha	10000
	State CAMPA- CA, PCA- AR @ 4445 per Ha	Padmapur CA- Mangrove	12 Ha	53340
	ECRICC AR Plantation @ 4445 per Ha	Naliapatia to Talchua	25 Ha	111125
		Gopaljewpatana to Kianali	20 Ha	88900
		Junusnagar	15 Ha	66675
		Baradiapal	20 Ha	88900
		Kianali	10 Ha	44445
			Total 2022-23	212 Ha AR
2023-24	ECRICC -Mangrove @ 2500 per Ha	Kaliachua	8 Ha	20000
		Joginath	11 Ha	27500
		Dobandhi	12 Ha	30000
		Dibakarpur	27 Ha	67590
		Ranahansua	10 Ha	25000
	ECRICC -Mangrove @ 4445 per Ha	Hetamundia	50 Ha	222250
		Kansapal	16 Ha	71110
	ECRICC -Mangrove @ 2500 per Ha	Badadiapal	15 Ha	37500
	CAMPA CA Plantation Mangrove @ 2500 per Ha	Kanchira	28 Ha	70000
		Kantika	4 Ha	10000
		Kianali	6 Ha	15000
	SRC Fund- Plantation @ 2500 per Ha	Sailendrasarai	4 Ha	10000
	SRC Fund - Plantation @ 4445 per Ha	Ahirajpur	6 Ha	15000
		Jatadharatanda-II	5 Ha	22225
			Total 2023-24	202 Ha AR
2024-25	State CAMPA AR Mangrove Plantation @ 4445/-	Hetamundia PRF	10 Ha	44450
	ECRICC -Mangrove	Hariansa	4 Ha	10000
		Beri	45 Ha	112500
		Kantiakhai Dhali	10 Ha	10000
		Dahanigiri Goja	30 Ha	75000
		Jogidhanakiuda PRF	22 Ha	55000
		Sanatubi PRF	17 Ha	42500
		Hetamundia PRF (Bagadia)	10 Ha	25000
		Hetamundia PRF (Romita)	5 Ha	12500
		Kansaridia	5 Ha	12500
		Bahakuda	15 Ha	37500
	SRC Fund Mangrove	Lunch Khola	40 Ha	100000
		Jatadharatanda	7 Ha	31115
			Total 2024-25	220 Ha AR
		G.Total	1767.456AR	1547.456
			570 ANR	

True copy
attached

K. S. D. Das
15.04.2026

Dy. Collector Judl.
Collectorate, Kendrapara

Due to continuous Mangrove Plantation by this Division, Mangrove Forests are increased as per FSI Report.

2. Impact Reflected in Forest Survey of India (FSI) Reports

The continuous mangrove plantation efforts by this Division have demonstrably increased mangrove forest cover, as corroborated by the India State of Forest Reports (ISFR). Odisha has shown a significant increase, primarily due to the active involvement of the Mangrove Forest Division in dismantling illegal prawn gherries and undertaking massive afforestation drives.

According to the ISFR 2021, Odisha recorded the highest increase in mangrove cover in the country, with an addition of 8 square kilometers between 2019 and 2021. This positive trend continued, as noted in the ISFR 2023, which also reported a further rise in the state's mangrove area by 1.67 sq.km. These reports attribute the growth to both natural regeneration and extensive plantation activities.

State/ District	2019 Assessment				2021 Assessment				2023 Assessment				Change w.r.t revis- ed ISF- R 2021
	Very dense Mangr ove	Moder- ately Dense Mangr ove	Open Mangr ove	Total Mangr ove	Very dense Mangr ove	Moder- ately Dense Mangr ove	Open Mangr ove	Total Mangr ove	Very dense Mangr ove	Moder- ately Dense Mangr ove	Open Mangr ove	Total Mangr ove	
Puri	0	0.00	1.15	1.15	0	0	0.85	0.85	0	0	0.74	0.74	- 0.11
Jagatsin- ghpur	0.00	1.01	7.05	8.06	0	1.32	7.1	8.42	0	1.32	7.1	8.42	0
Kendrap- ara	80.45	83.56	37.48	201.49	81.55	83.8	45.67	211.02	81.55	83.8	47.34	212.69	1.67
Bhadrak	0.00	8.76	26.11	34.87	0.12	8.92	23.42	32.46	0.12	8.92	23.35	32.39	- 0.07
Balasore	0.00	1.00	4.07	5.07	0	0.57	4.19	4.76	0	0.57	4.25	4.82	0.06
Total Odisha Coast	80.45	94.33	75.86	250.64	81.67	94.61	81.23	257.51					1.55

(Source-ISFR 2025)

Plantation For 2026-27

This Division is planning to under taken 60 Ha. Mangrove Plantation during 2026-27 in Kendrapara District in various Schemes.

3. Local Livelihood Improvement Programmes under ECRICC Project since 2022

The ECRICC (Ecosystem-based Climate Risk and Coastal Community Resilience) project, launched in 2022 with financial support from Green Climate Fund (UNDP) and co-funding by the Government of Odisha, focuses on both ecological restoration and sustainable livelihood development.

• **Mangrove Plantation and Restoration:**

- 442 hectares of mangrove plantation undertaken.
- 89 hectares of plantation ongoing in the current year (2025-26).
- 478.23 hectares of fish bone channel created.
- 105 km of creek deepening.

*True copy
attested*

*K. Sahoo
18.04.2026*

Dy. Collector Judl.
Collectorate, Kendrapara

- o 31 hectares of prawn gherries demolished.
- o 2 new mangrove meta nurseries established.

• **Eco-friendly Livelihood Activities:**

a) System of Rice Intensification (SRI):

To promote sustainable rice cultivation, the ECRICC Project has implemented SRI, enhancing productivity, climate resilience, and socio-economic well-being

ACTIVITY	DETAILS	BENEFICIARY
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	In 2025 -1.9 Ha	07
Ornamental Fish Culture	In 2025 - 2400 Sq ft Area	08
Crab Hatchery	Site Selection and Water Testing Has been Done. MoU with FARD Dept and MPEDA-RGCA ison process.	
Total Beneficiary		6925 Beneficiary

a) System of Rice Intensification (SRI):

To promote sustainable rice cultivation, the ECRICC Project has implemented SRI, enhancing productivity, climate resilience, and socio-economic well-being of livelihood impact.

To promote sustainable rice cultivation, ECRICC Project has implemented the System of Rice Intensification (SRI) across multiple seasons. The programme focuses on improving productivity, climate resilience and socio-economic well-being of farming communities.

Year-wise Beneficiary Coverage

Year	Kharif Beneficiaries	Rabi Beneficiaries	Total
2023	1898	229	2127
2024	3000	280	3280
2025	1500		1500 (Ongoing)

True Copy
 Attested
 N. Sahoo
 18-04-2026
Dy. Collector Judl.
 Collectorate, Kendrapara

Capacity Building Achievements:

Farmers Trained	2,105
Men	842
Women	1,263

Training interventions aimed at improving knowledge on water-efficient practices, seed management, soil health, and mechanisation suited for SRI operations.

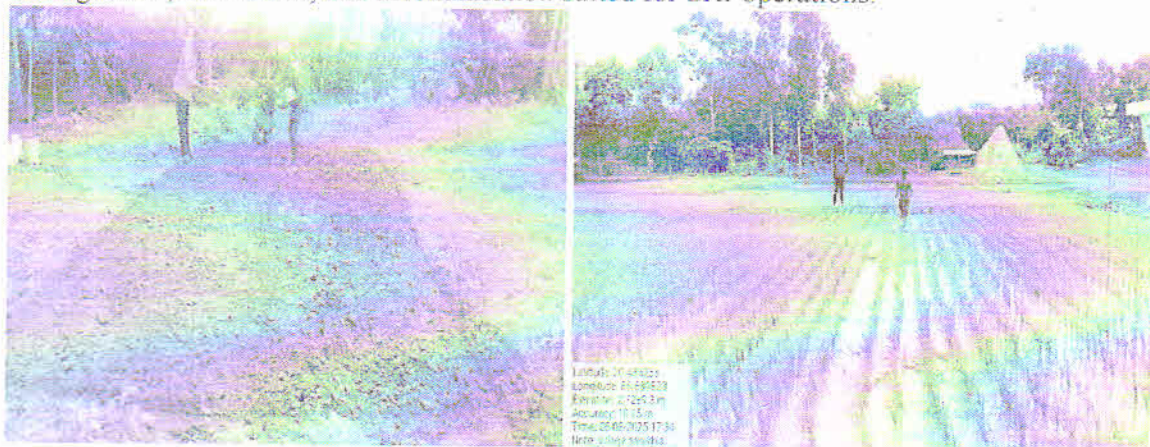


Figure 1. Eco- friendly System of Rice Intensification farming (SRI)



Figure 2. Capacity building program for SRI farmers

b) Crab Culture:

- This Crab Culture intervention was started in the year 2024 in Mahakalapara Block, Kendrapara.
- A total 10 nos of Farmers having proper CAA License were covered till now having total water spread area of 10.625 Acres.
- Continuous training and Capacity building and Hand holding support to farmers are being provided by DPMU-Kendrapara and MPEDA-RGCA.
- Exposure visits to MPEDA-RGCA were also completed through this project for proper training of project staff.

True copy attested

K. Shree
18.10.2024

Dy. Collector Judl.
Collectorate, Kendrapara



Figure 3. Capacity building training on eco- friendly Crab Culture for Master Trainers

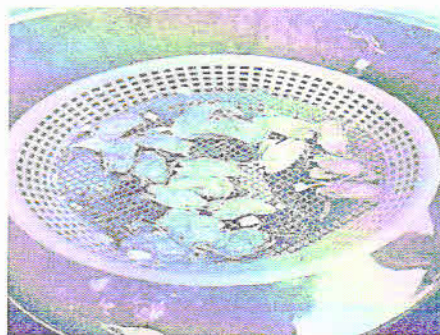


Figure 4. Supply of crablet from RGCA, Chennai



Figure 5. Harvest of matured crabs

Project for 2026-27 by ECRICC

This Division is planning to under taken 68 Ha. Mangrove Plantation , 2000 families for SRI paddy cultivation and 5 farmers for Crab Culture during 2026-27 in Kendrapara District by ECRICC Schemes.

*True copy
attached*

*K. Saha
13.04.2022*

Dy. Collector Judl.
Collectorate, Kendrapara

c) **Ornamental Fish Culture:**

- This Ornamental Fish Culture intervention was started in 2025 with support from ICAR - CIFA.
- A total 08 nos of Ornamental Fishery units having total 08 nos of Beneficiaries have been established in Kendrapara District through ECRICC Project.
- Proper training, capacity building and exposure visits to ICAR-CIFA & KVK-Kendrapara had been completed.




Figure 6. Capacity Building Training of beneficiaries at ICAR-CIFA, Bhubaneswar



Figure 7. Ornamental Fish culture tank.

True copy
attested

K. Shree
18-04-2026
Dy. Collector Judl.
Collectorate, Kendrapara


Divisional Forest Officer (Mangrove)
Mangrove Forest Division (W.I.)
Rajnagar

(Annexure-B)

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SL NO - 1066/25-2026 117



OFFICE OF THE EXECUTIVE ENGINEER,
RWS&S DIVISION, KENDRAPARA
eerwsskendrapara@gmail.com

No. 404 // Dt. 12 / 02 / 2026

To

The Collector & District Magistrate,
Kendrapara

Sub: Compliance report on drinking water supply in Bagapatia of Rajnagar Block – in response to letter No. 2744 //Judl./Date. 18.10.2025 regarding O.A. Case No. 133/2024/EZ filed by Hon'ble National Green Tribunal, Eastern Zone, Kolkata, Suo-Motu case / Original Application on the news items titled "No crops, no brides; how rising seas are killing India's coastal villages": appearing in "The Guardian: Dtd. 11.03.2024".

Ref: Your Office letter No. 2744 //Judl./Date. 18.10.2025.


Sir,

In response to the letter under reference and subject matter concerning the above O.A. Case No. 133/2024/EZ filed before NGT, I hereby submit the following details compliance report specifically addressing the drinking water supply situation in Bagapatia village of Rajnagar Block.

This Department has undertaken comprehensive measures to ensure adequate drinking water supply to the residents of Bagapatia. The people of Satavaya Rehabilitation Colony habited at Bagapatia have been receiving drinking water through the existing Piped Water Supply Scheme which is having two Nos. Production wells including 2.00 Lakh ltr capacity of Over Head Tank. Furthermore, twenty-four Nos. of tube wells are existing in running condition not only to cater the drinking water needs of people of Bagapatia, but also to enhance drinking water coverage as well. In addition to this the Mega Piped Water Supply Project to Rajnagar is ongoing which is currently under active execution for Bagapatia and surrounding areas.

This for favour of your kind information and necessary action.

Yours faithfully,


Executive Engineer,
RWS&S Division, Kendrapara

C.C. To:-

- 1.) The Assistant Executive Engineer, RWS&S Sub-Division, Kendrapara for information.
- 2.) The Additional Chief Engineer, RWS&S Circle, Cuttack for favour of kind information.

True copy
attested


Dy. Collector Judl.
Collectorate, Kendrapara

(Annexure - C)

(Page-~~2~~) 118

OFFICE OF THE CHIEF DISTRICT AGRICULTURE OFFICER: KENDRAPARA
At- Town balarampur, (Near Kendrapara block), Po- Kendrapara ,
District:-Kendrapara, Pin:-754211 email:- ddaken.dag@od.gov.in

Letter No. 779 // Ken. Agril. Dated the 17.09.2026
To, The Collector & District Magistrate, Kendrapara.

Subject: Submission of report on O.A Case No- 133/ 2024/EZ Filed by Hon'ble
National Green Tribunal, Eastern Zone, Kolkata.

Ref:- Your Office Letter No. 2744 date- 18.10.2025.

Sir,

In inviting a kind reference to the aforementioned letters on the captioned subject, I am submitting herewith the report on O.A Case No- 133/ 2024/EZ Filed by Hon'ble National Green Tribunal, Eastern Zone, Kolkata, Suo- Motu cases Original application on the news item " No crops, no brides, how rising seas are killing india's costal Villages" appearing in the "The Guardian" date- 11.03.2024 received vide letter No- 36194 date- 06.08.2025 of Addl. Standing Counsel, O/o- the Advocate General, Odisha, Cuttack.

This is submitted for your kind perusal and necessary action at your level.

Yours faithfully,

Chief District Agriculture Officer
Kendrapara

Memo No. 780 // Ken. Agril. Dated the 17.09.2026
Copy submitted to the Judicial Section, O/o- Collector & District Magistrate,
Kendrapara to for information & necessary action..

Chief District Agriculture Officer
Kendrapara

True copy
attested

K. Sahoo
18.04.2026
Dy. Collector Judl.
Collectorate, Kendrapara

Initiatives Undertaken for Climate-Resilient Agriculture

In compliance with environmental safeguards and in view of increasing climate variability (cyclones, floods, salinity ingress, erratic rainfall), the following initiatives have been undertaken:

a) Promotion of Climate-Resilient Cropping Systems

- Introduction and scaling up of short-duration, flood-tolerant, and salinity-tolerant crop varieties.
- Crop diversification towards pulses, oilseeds, and millets to reduce mono-cropping risks.
- Promotion of contingency crop planning during extreme weather events.

b) Sustainable Agricultural Practices

- Encouragement of organic and natural farming practices to reduce chemical load on soil and water bodies.
- Promotion of Integrated Nutrient Management (INM) and Integrated Pest Management (IPM).
- Soil health monitoring and issuance of Soil Health Cards for balanced fertilizer application.

c) Water Resource Management

- Promotion of micro-irrigation systems such as drip and sprinkler irrigation.
- Community-based water conservation and efficient water-use practices.
- Awareness programmes on reducing groundwater over-extraction.

d) Capacity Building and Farmer Awareness

- Regular training programmes for farmers on climate adaptation strategies.
- Demonstration plots showcasing climate-resilient technologies.
- Collaboration with line departments and Krishi Vigyan Kendras for technical support.

E) Soil Testing

- Regular Soil testing in all blocks of Kendrapara have been taken for measuring the pH of soil and treatment thereof. This year target of soil sample collection was 15 thousand nos.
- This year the target for collection of soil sample for Mahakalpada and Rajnagar Block was 1665 each which are adjacent to sea bay of Bengal.
- For treatment of acidic soil Dolomite supply was Q.50.00 for Mahakalpada Block of Kendrapara district.

True Copy
attested

K. Saha
13.04.2024
Dy. Collector Judl.
Collectorate, Kendrapara

Pilot Project on Enhancing Climate Resilience Among Vulnerable Households to Prevent Distress Migration

In recognition of the growing linkage between climate vulnerability and distress migration, the Chief District Agriculture Office, Kendrapada, has initiated a focused pilot project aimed at strengthening climate resilience among vulnerable households through an integrated farm and non-farm livelihood support framework. The project is designed not only to enhance adaptive agricultural practices but also to create stable and diversified income opportunities that reduce the compulsion for seasonal and distress migration.

Key Components of the Pilot Initiative:

- **Targeted Identification of Vulnerable Households:**

Systematic identification of climate-vulnerable small and marginal farmer households, particularly those exposed to recurrent floods, cyclones, salinity ingress, and crop losses, and with a history of seasonal migration.

- **Climate-Resilient Farm-Based Livelihoods:**

Promotion of diversified and risk-resilient agricultural models including improved vegetable cultivation, climate-tolerant crop varieties, backyard poultry, small ruminants, fisheries where feasible, and integrated farming systems to ensure year-round income flow.

- **Non-Farm Livelihood Diversification:**

Support for supplementary non-farm income-generating activities to cushion households against climate-induced agricultural shocks, thereby reducing income volatility and migration pressures.

- **Strengthening Community Institutions:**

Facilitation of farmer groups and community-based institutions for collective planning, input access, risk-sharing mechanisms, and climate advisory dissemination to enhance localized resilience planning.

- **Women-Centric Livelihood Support:**

Promotion of women's active participation in farm and non-farm enterprises, strengthening their economic agency and improving overall household adaptive capacity.

- **Convergence and Technical Backstopping:**

Leveraging convergence with allied departments and schemes to ensure sustained technical guidance, input support, and institutional strengthening.

Intended Outcomes:

This integrated resilience model seeks to:

- Stabilize household incomes across agricultural seasons.
- Reduce vulnerability to climate-induced crop failure.

True copy
attached

K. Sahoo
18.04.2024
Dy. Collector Judl.
Collectorate, Kendrapada

- Minimize distress-driven seasonal migration.
- Build long-term adaptive capacity at both household and community levels.

Through this pilot initiative, the Chief District Agriculture Office aims to demonstrate a scalable model that integrates climate adaptation with livelihood security, thereby addressing environmental sustainability and socio-economic vulnerability in a holistic manner.

Convergence and Institutional Coordination

The District Agriculture Office is ensuring convergence with allied departments, local self-government institutions, and community-based organisations to align climate-resilient agriculture with environmental protection objectives. Regular monitoring and reporting mechanisms are in place to assess implementation progress.

Manick
13/2/26
Chief District Agriculture Officer
Kendrapara

*Trace with
attached*

K. S. Mohan
18.04.2026
Dy. Collector Judl.
Collectorate, Kendrapara