SEED (SOCIETY FOR SOCIO ECONOMIC AND ECOLOGICAL DEVELOPMENT)



Since 1996



Building Climate Resilience Through participation and Best Practices

About Us

- Established in 1996 as a non-profit under the West Bengal Society Registration Act.
- Member of the International Network CANSA (Climate Action Network South Asia).
- Member of CTCN (Climate Technology Centre and Network) under UNEP.
- Member of Wetland Link International (WLI) Global & WLI Asia Oceania.
- Over two decades of work focused on underserved communities across West Bengal, Jharkhand, Bihar, Odisha, Telangana and Karnataka.
- Coastal regions, particularly the Sundarbans in West Bengal, are a prime focus area.





Vision

A just, inclusive, and gender-equitable society where communities thrive with socio-economic equality, participatory development and environmental sustainability, ensuring a dignified quality of life for all.

Objectives

- Promote socio-economic equity by empowering marginalized communities through sustainable development initiatives.
- Ensure gender justice and child welfare by fostering inclusivity and equal opportunities for all.
- Support environmental sustainability through conservation, climate resilience and eco-friendly practices
- Improve livelihoods by facilitating skill development, income generation and entrepreneurship.
- Advance social justice by advocating for human rights, education and health services.
- Strengthen disaster resilience by implementing climate adaptation strategies in vulnerable regions.

Mission



SEED is committed to empowering marginalized communities through sustainable development, gender equity and participatory governance. We work towards enhancing livelihoods, promoting environmental stewardship and fostering social justice, ensuring holistic and lasting impact in vulnerable regions.

Our Values

We prioritize inclusive opportunities, strengthen grassroots participation and promote strategic alliances to drive meaningful change. Our approach ensures that every community we serve can build a self-sustaining and empowered future.

- Equity Ensuring fair opportunities and resources for all, especially underserved communities.
- Resilience Empowering communities to build sustainable and adaptive solutions.
- Collaboration Strengthen multi-sector partnerships for longterm social and economic impact.



SEED's Reach





We have an active presence in **6 states**, covering numerous districts, blocks and gram panchayats, ensuring sustainable growth and inclusive development.

- ✓ West Bengal
- ✓ Jharkhand
- ✓ Bihar
- Orissa
- Telangana
- Karnataka

Thematic Areas



CLIMATE-RESILIENT AGRICULTURE & ALTERNATIVE LIVELIHOODS



WATER AND SANITATION FOR CLIMATE RESILIENCE





PROTECTION & EDUCATION FOR CIMATE REFUGEE CHILDREN



MANGROVE RESTORATION FOR CLIMATE CHANGE MITIGATION



PREVENTIVE & CURATIVE HEALTH
ASPECTS OF CLIMATE CHANGE

Our Strategies



Capacity building of farmers for climate resilient farming practices and training on alternative livelihoods (aquaculture, apiculture, poultry, duckery, goatry etc.)



Leveraging digital tools, ICT innovations and advanced research to bridge gaps in service delivery.



Strengthening women's roles by encouraging eco-friendly enterprises and resource-efficient practices to ensure long-term prosperity.



Ensuring equitable healthcare and nutrition support for climate-affected communities while implementing adaptive strategies to mitigate climate-induced diseases.



Climate Change Awareness

Generating awareness on climate change and adaptive solutions based on CEPA (communication, education, participation & awareness) principals.



Collaborative Partnerships

Strengthening multi-sector alliances with industry experts, CSRs and government agencies to maximize impact.

Current Projects



LIGHTING LIVES IN SUNDARBANS

Solar Lightening Programme in Ghoramara, Namkhana and Puthorportima in Sunderban supported by **Signify Foundation**.



ECCC FOR CLIMATE REFUGEE CHILDREN

Early Childhood Care Centers (ECCs)in Ghoramara and Sagar island supported by the **State Bank of India Foundation.**



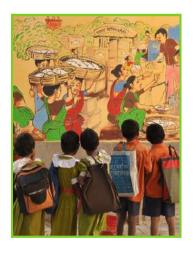
ONE HEALTH PROGRAMME

Supported by Trinity Challenge, Cambridge University (UK), this initiative in Purulia and Darjeeling benefits tribal school-going children by integrating safe drinking water and hygiene awareness in health education.



COMMUNITY-LED MANGROVE REVIVAL

Mangrove Plantation Project in Jharkali island supported by **Tiger Widows**, **Ireland**.



COMPREHENSIVE EDUCATION CENTRES

Education Program for climate refugee Children in Sagar and Ghoramara island supported by **T & I Global Ltd.**



LIFE SKILLS PROGRAM

Equipping adolescents with essential life skills across Bihar, Odisha, Jharkhand & West Bengal supported by **AFL, Asia**.

Key Past Projects....

SEED has implemented various large-scale development projects with measurable and sustainable outcomes. Few of these projects are:

- ICZM (Integrated Coastal Zone Management) project supported by the World Bank.
- Solar lighting project supported by the Signify Innovations India Pvt. Ltd.
- Menstrual Health Management (MHM) project supported by the Damodar Valley Corporation (GOI).
- Mangrove Restoration project supported by the JECAPCL (Tata Group), Rotary International and SICOM, Ministry of Environment & Climate Change (GOI).
- Life Skill Development Programme supported by the Australian High Commission.



ICZM Project

An Integrated Coastal Zone Management (ICZM) initiative in South 24 Parganas, West Bengal, supported by the **World Bank** for empowering climate-affected communities through livelihood development, financial inclusion, food security, preventive and curative health interventions and sustainable water management.

Key Interventions

- Trained 2000 in organic farming, aquaculture, apiculture and livestock management.
- Formed 1,000+ SHGs, enabling access to microloans and reducing dependence on informal credit.
- Establishment of organic kitchen gardens and community kitchens, benefited 72,000+.
- Trained 35,000+ women in eco friendly enterprise development.
- Health camps on preventive and curative health benefitted 1,60,000.
- Installed 58 deep tubewells, excavated 70 ponds and formed 58 Water User Groups (WUGs), ensuring clean water access for 18,000.

Impact at a Glance

- Social: Women-led micro-enterprises and financial independence.
- 💰 Economic: 35% increase in household income, 28% rise in savings and 20% decline in informal loans.
- The Environmental: Carbon footprint reduction, biodiversity conservation & climate resilience.



Lighting Lives in Sunderban



A solar lighting project supported by the Signify Innovations India Pvt. Ltd. for vulnerable forest-fringe communities in 25 villages of Pathar Pratima, Namkhana and Sagar Blocks of South 24 Parganas, West Bengal; enhancing safety, sustainability and livelihoods.

Key Interventions

- Installed 50 solar streetlights and 1000 LED street lights.
- Distributed 800 home lighting systems and 1,000 solar lanterns.
- Installed 600 micro solar domes.
- Trained 70 community members in solar lantern repair.

Impact at a Glance

- Social: 35% increase in study hours and 50% reduction in safety concerns for women and children.
- § Economic: 35% increase in household income, 20% rise in savings due to 30% reduction in energy related costs.
- The Environmental: 50% reduction in kerosene usage, cutting 6,500 kg of carbon emissions per month.



A scalable and replicable model for clean energydriven rural development, reinforcing safety, sustainability and economic empowerment in climate-affected regions. 💋 🐆

Mangrove Plantation



A mangrove plantation project across Sunderban and East Kolkata Wetlands to protect fishery regions from soil erosion and enrich biodiversity. This project was supported by JECAPCL (Tata Group), Rotary International, SICOM, Ministry of Environment & Climate Change and Conveyor Belt India Pvt. Ltd.

Key Interventions

- Planted more than 1.05 million mangroves, stabilizing 125 hectares of land.
- Planted 20,000 fruit plants, enhancing biodiversity and providing nutritional support to the local communities.
- Involved 2700+ local women in the plantation process, promoting community participation and providing income generation opportunities.

Impact at a Glance

- Social: Empowered 2,700+ women through participation in plantation and nursery management and enhanced food security through fruit plantation.
- § Economic: Strengthened coastal livelihoods by enhancing fishery resources and agro-based income, benefiting coastal farmers and fisherfolk.
- The Environmental: Restored 125 hectares of degraded land, improving biodiversity, reducing soil erosion and carbon footprint.



A resilient and community-led approach to coastal ecosystem restoration, strengthening livelihoods, biodiversity and climate adaptation in vulnerable coastal regions.

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SEED has implemented MHM (Menstrual Hygiene Management) awareness programs supported by the Damodar Valley Corporation (DVC), GOI and installed sanitary pad vending machines and incinerators in government schools, colleges and health centers in West Bengal and Jharkhand. Menstrual hygiene is a human right **

Key Interventions

- Installed 500 sanitary pad vending machines and 500 incinerators in government schools, colleges and health centers across West Bengal and Jharkhand.
- Educated over 40,000 adolescent girls and women on menstrual hygiene.

Impact at a Glance

- Social: Improved menstrual hygiene practices among 40,000+ adolescent girls and women, reducing stigma and promoting gender equity.
- Seconomic: Increased school attendance and workforce participation, ensuring long-term socio-economic empowerment for women.
- The Environmental: Installation of 500 sanitary pad vending machines and incinerators, reducing unsafe disposal practices and promoting eco-friendly waste management.



A transformative and scalable model for menstrual health awareness and hygiene accessibility, empowering women and adolescent girls while promoting dignity, health and longterm behavioral change. 🛡 🦮

Life Skill Programme 🕮

Supported by the **Australian High Commission**, this initiative used sports as a tool to empower marginalized and financially weak adolescents across West Bengal, Jharkhand and Odisha.

Key Interventions

- A total of 2,860 adolescents were trained in life skills by incorporating football-based training, the program helped develop psychological, physical and cognitive skills among young adults.
- 60 'Training of Trainers' programs conducted to ensure long-term sustainability through skill transfer.

Impact at a Glance

- Social: Empowered youth with essential life skills, enhancing confidence, teamwork and leadership through sports-based training.
- **S** Economic: Strengthened employability and career opportunities by equipping trainers with sustainable skill sets, ensuring long-term income generation.



An impactful and sustainable model for youth empowerment, integrating sports-based life skills training to enhance resilience, decision-making, and future readiness while fostering leadership and long-term community development.

Climate Resilient Livelihood

Aquaculture Training Program

- Supported by: SPMU, World Bank
- Objective: To promote sustainable fish farming as an alternative income source for climatevulnerable families.
- Impact: 550 islanders trained in pond and cage management, species selection and breeding with 20% rise in income among participants through enhanced fish yields and reduced overfishing.

Climate-Resilient Agriculture & Salt-Tolerant Cropping

- Supported by: Rice Research Institute, Department of Agriculture, Govt. Of West Bengal
- Location: Durbachati GP, Mousuni Island GP & Ghoramara GP, Sunderban, West Bengal
- Objective: Promote adaptive farming techniques in saline and flood-prone areas.
- Impact: 450 farmers trained in cultivating salt-tolerant crops, resulting in 25% increase in crop yield, boosting local food security and improved economic independence.



Livelihood Diversification

Handicraft & Water Hyacinth Crafting

- Supported by: Bansal Foundation
- Location: Ghoramara & Jharkhali Islands, Sunderban, West Bengal
- Objective: To create supplementary income through skill development in traditional crafts.
- Impact: 2500 women trained in weaving, batik printing, katha stitching and Water

 Hyacinth Crafting. Participants began earning from local and festival-based sales, preserving cultural heritage and enhancing self-reliance.

Poultry & Duckery Training

- Supported by: T & I Global Ltd.
- Location Ghoramara & Jharkhali Islands, Sunderban, West Bengal
- Objective: To offer immediate livelihood alternatives to families affected by tiger attacks.
- Impact: Capacity building of 300+ families, provided with chicks and ducklings along with feed and shade.

 Observed 20% increase in household income and improved nutrition due to protein access from poultry.



Water & Sanitation Initiatives

Solar-Powered Deep Tube Well

- Supported by: Bansal Foundation
- Location: Raypara village, Ghoramara & Jharkhali Islands, Sunderban
- Objective: To provide sustainable access to clean potable water for underserved coastal families.
- Impact: Installed a 325-meter solar-powered tube well with a 2HP pump, covering 60 households, improved health & hygiene amongst targeted HHs.

Rainwater Harvesting for Tribal Farmers

- Supported by: Dept. of Environment, Govt. of West Bengal
- Location: Kumarpukuria, Sonarpur Block, Sunderban
- Objective: Improve irrigation water availability for tribal farmers during dry seasons
- Impact: Restored 28 ponds for rainwater harvesting, benefiting 1,200 farmers by boosting agricultural output and reducing dependence on derelict and semi-derelict ponds.



Water & Sanitation Contd...

Water Programmes Under ICZM

- Supported by: World Bank
- Location: Rudranagar & Muriganga-1 GP, Sagar Island, Sunderban
- Objective: Ensure long-term water resilience for islanders through deep tubewells and pond rejuvenation.
- Impact: 58 deep tubewells installed, 7 0 ponds rejuvenated, benefitting 18,000 people and 58 Water User Groups formed, training 870 individuals.

Pond Restoration for Domestic Use

- Supported by: CSR of Bharat Petroleum Corporation Ltd. (BPCL)
- Location: Multiple villages in the Sundarbans
- Objective: Restore pond-based water sources to enhance water security in climate affected villages.
- Impact: 15 ponds cleaned and restored, covering 1.25 hectares. Enhanced access to water for cooking, cleaning and hygiene.



Water & Sanitation Contd...

Swachhta Pakhwada – Hygiene Awareness Campaign

- Supported by: CSR of Bharat Petroleum Corporation Ltd. (BPCL)
- Location: Basanti Block & Jharkhali Island, Sunderban
- Objective: Raise community awareness on WASH and promote hygiene practices in climate-impacted fishing communities
- Impact: Distributed 150 hygiene kits and held **50 awareness sessions on water, sanitation, reaching 6,500 people across 7 villages** with practical demonstrations on safe hygiene practices.

Safe Water & Hygiene Education for Tribal Children

- Supported by: Cambridge University, Trinity Challenge (UK)
- Location: Purulia and Darjeeling Districts, West Bengal
- Objective: Integrate water and hygiene awareness with school-based health education.
- Impact: Reached 500 tribal children across 15 schools through 90 sessions on water, sanitation and hygiene, promoting behavioral change in 1,000 targeted families.



Education Programmes



- Supported by: Rotary International
- Location: Remote areas of South 24 Parganas & Purulia, West Bengal
- Objective: To provide foundational learning and numeracy to first generation learners and remedial education to second generation learners and re-enroll dropout children from the families of agricultural laborers and fishermen.
- ☑ Impact: Amongst the targeted 182 children, 162 were successfully mainstreamed.



Adult Literacy and Life Skills for Tribal Women

- Supported by: HNIs
- Location: Remote areas of South 24 Parganas & South Kolkata, West Bengal
- Objective: Empower women from the Oraon, Shabar, Lodha, and Santhal tribes through literacy and life skill development for improved socio-economic opportunities.
- Impact: Enhanced literacy and self-reliance among 3600 tribal women.



Resilience & Conservation Centers



Multipurpose Cyclone Shelter

- Supported by: Rotary International & Bansal Foundation
- Location: Ghoramara, Sunderban, South 24 Parganas, West Bengal
- Objective: To provide safe haven to the islanders at times of cyclones and floods.
- ☑ Impact: Over 5570 took shelter at times of extreme weather events.



Coastal Biodiversity Conservation Centre

- Supported by: WLI, Global and WLI, Asia Oceania
- Objective: Promoting conservation education and community engagement for resilience against climate change impacts.
- Impact: Awareness programmes reached 570 islanders and enhanced their level of awareness by at least 30 %.



Our Impact



Benefitted 30,000 climate-affected individuals



Benefitted 1,150 vulnerable coastal families.



Benefitted 18,000 coastal women



Through Alternative Livelihood Programme



500 sanitary pad vending machines installed



Benefitted through Life Skills Programme



Reached through health camps & awareness workshops.



Through sustainable water access



In Coastal Pollution Awareness Campaign of ICzM

Future Plan

Diversified & Adaptive Livelihoods

- Introduce Eco-tourism training and establish an eco-tourism hub in Ghoramara
- •Expansion of climate-resilient agricultural practices, aquaculture, poultry, duckery, and handicrafts, including water hyacinth.

Climate-Resilient Water Solutions

- •Implement safe drinking and irrigation water systems in Ghoramara.
- •This will replicate the successful ICZM water initiative implemented in Sagar Island.

Mangrove Restoration for Climate Resilience

Scale up community-led mangrove plantation efforts in Ghoramara to protect coastlines and biodiversity.

Human-Wildlife Conflict Mitigation

- •Replicate the 'Lighting Lives in Sundarbans' model using solar energy to reduce human-wildlife conflict.
- •Expand the model with an alternative livelihood component in Palamu Tiger Reserve (Jharkhand).

Expansion of Education & ECCCs

- Scale up Early Childhood Care Centres (ECCCs) to 5 blocks and 12 villages.
- Set up Education Centres for climate refugee children in 4 additional vulnerable blocks

WASH & Climate Change Awareness

- Intensify CEPA based campaigns on WASH practices and climate change adaptation across the Sundarbans.
- •Replicate the One Health Programme model to other vulnerable regions.

Proud Partners





The World Bank



Australian High Commission



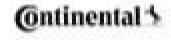
TSA Solutions Singapore



Rotary International



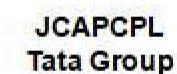
Signify Foundation



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JCAPCPL





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Deptt. of Environment (WB)



IIT Kharagpur



Bharat Petroleum Corporation Ltd.



Damodar Valley Corporation (GOI)



Dollar Industries Ltd.



Mahindra & Mahindra



State Bank of India Foundation



Cambridge, UK



Tiger Widows

Ireland



Nehru Yuva Kendra Sangathan



Taj Bengal Kolkata



Red FM



West Bengal Electronics Industry Development Co. Ltd.

Partner's Testimonials



"Our partnership with SEED over the past three years has been instrumental in successfully executing five impactful projects in the Sundarbans. Their efficiency, commitment, and community-driven approach have enhanced livelihoods, improved safety, and expanded education opportunities through sustainable lighting solutions. SEED's work aligns seamlessly with our commitment to social and environmental responsibility."

- Mr. Rakesh Kumar Singh Sr. Manager, Signify Innovations India Ltd.

"SEED's implementation of the World Bank-funded ICZM project in West Bengal has played a transformative role in enhancing livelihoods for the coastal population. Their integrated approach to sustainable agriculture, aquaculture, and community-driven initiatives has empowered vulnerable communities, ensuring long-term resilience against climate challenges. SEED's commitment to impact-driven execution makes them a valuable partner in coastal development."

— Shri Arijit Banerjee, IFS Principal Chief Conservator of Forests & Head of Forest, Govt. of Rajasthan (Formerly Project Director, World Bank-aided Integrated Coastal Zone Management Project, West Bengal)

Recognizing our efforts

Y Award & Recognition

Eastern India NGO Leadership Award 2023 - Honored by EIILM-Kolkata.

Featured In Leading Publications

- Coverage of our Women Empowerment Program supported by NABARD in **The Statesman**.
- **Sanbad Protidin** highlighted our Environmental Awareness Workshop for school students.
- **Anandabazar Patrika** featured our Menstrual Hygiene Awareness Program supported by Dollar International.

S Global Recognition & Published Work

- Wetland Link International (WLI), UK Showcased our Coastal Biodiversity Conservation Centre. Read Here: https://wli.wwt.org.uk/?member=coastal-biodiversity-conservation-centre
- **The Better India** Highlighted our work in restoring Sundarbans' saltwater-affected land for MHM. Read Here: https://thebetterindia.com/387141/sundarbans-saltwater-intrusion-menstrual-health-management-seed-sanitary-pads/
- Flickr Album A visual journey of our work created by **WLI, Asia Oceania.** View Here: https://www.flickr.com/photos/wliasia/albums/72177720321574974/



Executive Board Members

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Thank You







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