



ORISSA FOUNDATION

*We enable organizations and individuals to
achieve their potential*

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Our Priority Areas:

PA1	Farmers' Preferred Varieties & Quality Seed System (FPV-QSS)
PA2	Soil health & Safe-to-Zero (s2z) Use of Synthetic Pesticides
PA3	Winter Fallow/Rice Fallow Management (WFM/RFM)
PA4	Climate Smart Sustainable Farming, Forestry, Renewable Energy & Carbon Credit
PA5	Integrated Dairy, Bio-resources Production & Natural farming
PA6	Enabling Socio-economic & Gender Development



ABOUT US

Established in January 2005 (registered in Bhubaneswar, Odisha, with operational bounds within the Republic of India), we are a Science and Technology Transfer (R2E – research to extension) organization with professionals and experts having vast national and international experience in Government, CGIAR, World Bank, IFAD, UNDP, ADB, DfID and CSR. We are adept in areas of agricultural mission programmes formulation, implementation projects development and management with government and non-government donors, on-ground implementation in partnership mode, training, and capacity building, conduct monitoring & evaluation exercises, and work with rural communities, farmers, farmers groups (FGs/ FPOs), village level institutions (VLIs/WSHG/ets.) and other stakeholders for the benefit of farming communities in specific and the society in general. We undertake interventions in areas of sustainable and climate smart livelihood/food security, organic/ sustainable farming, micro-enterprise, rural development, business planning, strengthening of FPOs and development of seed systems, health, and education, and other allied fields with an aim to build capacities of vulnerable farmers, youth, and women in India, by improving their livelihood, health, education, and entrepreneurship skills to achieve all-round self-sufficiency.



Our Vision:

To see a self-conscious and self-sufficient society, where everybody can meet their respective minimum needs and are equipped to enrich their lives through eco-friendly and sustainable practices.

Our Mission:

To build capacities of vulnerable farmers, youth, and women, by improving their livelihood, health and education through promotion of skill development, entrepreneurship, and capacity building for effective use of human resources for holistic socio-economic development in association with public and private institutions and individuals by (i) providing socio-technical, managerial and entrepreneurship trainings to the target population and other related stakeholders/field implementation agencies to improve their life skills, belief systems and knowledge base useful for social welfare, (ii) promoting education, entrepreneurship, and capacity building for effective use of human resources for holistic socio-economic development in association public and private institutions and individuals, (iii) helping and promoting institutions and organizations for efficient management of resources and other social development activities, (iv) venturing into new and innovative developmental projects financed by agencies to carry out initiatives for making the society aware by alleviating the social dignity of the poor and vulnerable by pursuing nature-friendly actions and inculcating the urge and skill for disaster preparedness and emergency action, and (v) promoting appropriate prototypes, to design technologies related to development for popularizing their application in the fields and to act as a clearing house of information on such matters.

Projects/Knowledge Collaborations:



Summary of Important Projects:

- ❖ 11% of GHG emissions are agriculture-related, with rice alone producing 50% of it, 30% of agricultural methane and 11% of agricultural N₂O. Flooded rice fields inhibit absorption of atmospheric oxygen to soil and result in anaerobic fermentation of organic matter to release methane. To reduce GHG emission from rice crop along with minimizing cost of cultivation with same level of profits, Orissa Foundation demonstrates **Direct Seeded Rice (DSR)** as a climate resilient technology for rice cultivation in 130.5 acres in Puri and Cuttack district of Odisha involving stakeholders like Farmers, Agri Entrepreneurs, Agriculture Department, and knowledge partners e.g. KVKs, Agriculture University Scientists, and research organizations like CSISA/IRRI.



- ❖ **Comprehensive Rice Fallow Management Programme (CRFMP)** of the Govt of Odisha in 2023-24 in collaboration with KVSS; implemented in across 44,200 ha across 5 districts of Odisha (Sundargarh, Jajpur, Cuttack, Khordha and Puri), and benefitted over 75,000 farmers through cluster farming and critical inputs like seed of suitable varieties and other inputs in order to take up one more crop of pulses/oilseed in otherwise fallow areas. This enhanced pulses production, consumption, addition of biomass and fixing nitrogen to the soil, extra-income to farmers from pulses as a second crop; engage with **FPOs/VB SEs** to make **Quality Seed System** available to farmers at doorstep; to develop the capacity of farmers, women, and youth as **entrepreneurs** to aid in improved production technologies, value addition, processing and market access. Same program is undertaken with **M.S Swaminathan Research Foundation in 2024-25** in Khordha district of Odisha, covering 5850 ha of rice fallow areas with crops such as mustard, sesame, black gram and green gram, and benefitting over 11,000 farmers.



- ❖ With CIMMYT, we are involved in deployment and scaling high-yielding climate-resilient and water-efficient maize hybrids to enhance productivity in Nayagarh, Dhenkanal, Angul, Jajpur, Keonjhar and Mayurbhanj districts of Odisha (**climate-adaptive maize for stress-vulnerable agro-ecologies (CAMSA)**).
- ❖ In the project on **Development, Evaluation, and Promotion of High Ethanol Maize (HEM) Hybrids for Efficient Bio-ethanol Production in Odisha** under the Innovative Projects scheme of the Department of Agriculture and Farmers' Empowerment, Government of Odisha implemented in Nabrangpur and Kalahandi districts of Odisha, we are assisting in evaluating and identifying best maize hybrids with high ethanol recovery through OFDs using suitable germplasm/lines from CIMMYT.
- ❖ Undertook **Seed Production Program** for paddy with support of DDA Puri. Provided Trainings and conducted certified paddy and pulse seed production program under Adopted Farmer Scheme of Odisha State Seeds Corporation (OSSC) and Odisha State Seed Certification Agency (OSSCA).
- ❖ Conducted extensive **Trainings and Capacity Building** activities in agriculture and horticulture programs under WADI model. We conceptualized numerous village-level micro-plans for successful and continued implementation and management of government schemes and programs.
- ❖ Developed **GIS-based digitized micro plans** for ISARA (MCC, Kolkata), Wosca (Concern Worldwide), Read Foundation (Rourkela Steel Plant), CYSD (PLAN) and Kalinga Agro Pvt Ltd (Dhenkanal) for land and water management, promotion of agriculture and horticulture across tribal hilly villages in Odisha.
- ❖ Expertise in **planning and training on organic and sustainable farming** of paddy, vegetable, mushroom, sugarcane, and ginger; besides conducting demonstrations for making vermicompost, and training to utilize cow dung and bio-extract preparations for natural farming.
- ❖ Under Biofuel Project of Reliance Industries Limited implemented by Esen Angelic Pvt. Ltd. and Kalinga Kusum Foundation, we are doing necessary social mobilization and agri-residues harvesting and supply (paddy straw, Napier and cow dung) under project titled **Bioresources and Agri-residue Management for Climate change Adaptation** in Dhenkanal and Cuttack districts of Odisha. Mobilization done to stop paddy straw burning, and technical backstopping to harvest paddy straw, plantation of Napier grass stalk and procurement of cow dung – all used by Reliance Industries to produce biogas from agri-residues for a greener climate and mitigate climate pollution risks.
- ❖ Participating in the **Swachh Bharat Mission program** to support small, marginal farmer and daily labour groups towards construction of IHHL in collaboration with the District Water and Sanitation Mission (DWSM), Govt. of Odisha.
- ❖ Supported by Development Focus, we conducted trainings for rural youth, boys, and girls, on the use of **Renewable Energy** for successful development of gasifiers and solar lights at village level.
- ❖ In collaboration with Fisheries Department, Govt. of Odisha, we have organized awareness programs through village level meetings and wall paintings of different **fisheries schemes for the marine fishing community** of Odisha.
- ❖ Through Project Roshini (Department of Public Enterprise, Government of Odisha) we provided **self-employment trainings** to VRS employees on mushroom cultivation in Gajapati and Koraput districts of Odisha. With added interest of participants, we extended training support on dairy, poultry cultivation and compost making.
- ❖ Organized pulse producer farmers in Sunakhala area of Odisha to grow organic pyra pulse crops and worked out **Business Plan for Pulses** and established market linkages for these produces.
- ❖ With support from Indian Oil Corporation, we have been involved in detailed **health sanitation studies** through intensive **health camps** in the peripheral villages of its Paradip Refinery Project and organized mega health camps for this purpose.
- ❖ Organized awareness programs and rallies under the NEAC (**National Environment Awareness Campaign**) and supported by the Ministry of Environment and Forest.



Our Team (Experts & Advisors):

Dr. Nigamananda Swain, Chairman & Chief Scientific Advisor: PhD in Agri Economics with more than 24 years of international and national experience with CGIAR, Govt-bilateral projects with WB/ADB/DfID, multinational donors, Govts in India and Afghanistan, and corporate houses in formulating and managing agricultural research and upscaling projects for India, Afghanistan, Bangladesh and other countries in capacities of Country Manager, Senior Scientist and Team Leader. Managed various projects involving multiple stakeholders.

Dr. Tapan Kumar Adhya, Principal Advisor – Agricultural Research & Cooperation: Recognised as a FNA, FNASc, FNAAS, FWAST, FAMI; Co-Director (Science) UKRI-GCRF South Asia Nitrogen Hub; Trustee Sustainable India Trust, New Delhi; and Professor, School of Biotechnology at Kalinga Institute of Industrial Technology), Dr. Adhya is a former Director of the National Rice Research Institute (NRI), Cuttack (Odisha) with over 45 years of cumulative experience. He is involved in the coordination of research work and policy implementation on Reactive-N in different sectors of the economy of South Asian countries. He has published 4 books, over 35 book chapters and >200 peer-reviewed journal papers with total citations of >11,000 with an h-index of 54. An expert in GHG emission and mitigation, climate change impacts on field crops and their environmental sustainability, carbon sequestration, soil biogeochemistry and sediment microbiology, microbial tracking in the soil system, and sustainable agriculture, he has been bestowed with numerous national and international awards for his contribution to agriculture R&D, most famously being the First recipient of the Norman Borlaug Award in 2010, the highest award for agriculture in India. He has also held presidential positions and research advisory posts at various national/global associations and societies. Dr. Adhya is one of the foremost authorities in India in the field of Agriculture Research and has successfully represented Indian agriculture on the global platform over the past four decades.

Dr. Sreekanth Attaluri, Scientific Advisor – Research & Partnership: Has more than 22 years of experience in networking, donor relations, livelihood improvement and advocacy. Developed and strengthened country exchange programs on South and Central Asian crops, formulated agricultural development & market policies, digital agriculture, and business incubations. Held key positions e.g. GIFS (Global Institute for Food Security) Representative for Bangladesh, SAARC - Senior Program Specialist, CIP Bangladesh Interim Sector Leader, Scientist CIP – SWCA (South-West-Central Asia); J N Bose Memorial National Awardee (2010) and has several national and international science publications to his credit.

Dr. Partha Sarathy Adhya, Director – Finance & Corporate Services: A PhD in Management (Finance), MBA in Finance and Marketing and PG Diploma in Planning and Management, Dr. Adhya has over 17 years of international and national experience in Financial Administration, Budget Analysis, and Regional Program Management with CGIAR, multinational donors, Indian state gov and private sectors. Expertise in financial forecasting, budget compliance (FCR), Strategic Sustainability, Grant/Risk Management, Quality Assurance, Gender, Diversity & Inclusion, and MEL. He has handled multiple big-budget Regional and Cross-Country NARS Research Exchange Program portfolios; ; and has a book, numerous chapters and multiple research papers to his credit.

Mr. Sridhar Kumar Dash, Sr. Agriculture Advisor: Former Joint Director of Agriculture (Plan & Commercial Crops) and former Joint Director of Agriculture (Pulses & Oilseeds) in the Department of Agriculture and Farmers' Empowerment, Govt of Odisha. He brings over 35 years' experience in designing/managing projects/schemes e.g. Rice Fallow Management, Integrated Arhar Program, IFS, etc.

Dr. Devraj Lenka, Sr. Advisor – Participatory Varietal Evaluation: Former Professor & Head (Genetics & Plant Breeding) and Head (Seed Science & Tech) at OUAT with around 35 years of experience in education, research, trainings, and variety development and evaluation trials. He has released (and got notified) varieties of maize, linseed, rice, black gram, green gram, and finger millet to his credit.

Dr. Pravu Charana Lenka, Sr. Advisor – Horticulture & Landscaping: Former Director (Planning, Monitoring & Evaluation) and retd Professor Horticulture at OUAT with around 35 years of experience in teaching, research, and extension activities. He has released cashew varieties for the state of Odisha, besides standardizing propagation techniques in horticultural and ornamental crops, fruit crops and forest species.

Dr. (Mrs.) Diptimayee Jena, Sr. Advisor – Food & Nutrition: Former Associate Professor & Head at Food and Nutrition College of OUAT with around 35 years of experience in teaching, research, trainings, and supervising food and nutrition programs and studies. Besides being a noted authority in nutritional quantification of crops, she is an expert in formulating and promoting value-added products.

Mr. Bipin Bihari Das, Sr. Advisor – Social Sciences: An economist and a specialist in rural development planning, he is a former Associate Professor, Tata Inst. of Social Sciences & Cenderet, XIMB, and has more than 30 years of experience in research, teaching, planning, implementation, monitoring and evaluation of rural development projects in India and abroad. He has been associated with state governments, ministries, bilateral and multilateral international agencies.

Mr. Ramachandra Nayak, Sr. Agriculture Advisor: Former Chief District Agriculture Officer with the Department of Agriculture and Farmers' Empowerment, Govt of Odisha. He has over 35 years' experience in the formulation and management of various schemes and district programs of Agriculture Department, Government of Odisha.

Mr. Chandrasekhar Rautaray, Social Development Expert & Managing Trustee: Master's in Social Works; more than 20 years of experience in Formation and Capacity Building of Women Self Help Groups, FPOs, formulating Business Plans and establishing Market Linkages; Social mobilization and handholding farmers for Crop Demonstrations and Seed Production programs and innovative Community-based Initiatives for FGs, PGs and FPOs working in CGIAR, Govt. and bilateral projects.

