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Summary of profile

Born on 18th February, 1962 in rural Odisha as an Indian citizen. Academically, I was awarded with a PhD degree in Environmental Science (Water Quality) and M.Sc. degree in Natural Resource Management from Berhampur University and Agricultural University of Norway respectively. In addition, I have completed MBA in Human Resource Management and B.Sc. in Agriculture. Soon after graduation, I joined in Department of Agriculture and Farmers' Empowerment, State Government of Odisha on 5th September, 1984 as Junior Agriculture Officer and retired from Government service in the rank of Additional Director of Agriculture with last posting as Director, Institute on Management of Agricultural Extension (IMAGE), Bhubaneswar on 28.02.2022 after attaining the age of superannuation.

In my 37.5 years of service career, I have acquired more than 19 years of professional work experience in Agricultural Development and 18 years in Environment Management fields.

During my tenure in Agriculture & Farmers' Empowerment Department, I have worked under various capacities at different field locations in the State. Along with policy planning, I was overseeing grass root level implementation of various agricultural programmes/schemes/projects through agriculture extension services especially carbon conscious and climate resilient farming systems namely organic farming, crop diversification, integrated farming, Odisha millet mission, Rainfed Agriculture, SRI method of rice cultivation, micro irrigation & water use efficiency, waste/fallow land restoration, land and water management, crop contingent planning, need based research involving international and nationally reputed institutions along with training & capacity building of field functionaries as well as farmers with widespread usage and adoption of new age technology for enhancing agricultural food production and nutritional security, and promotion for setting of more Commercial Agri Enterprises (CAEs) in agriculture and allied sectors such as Agriculture, Horticulture, Animal Husbandry, Poultry and Fisheries including Agro Processing & Food Processing *i.e.* agribusiness and value chain to bring investment in Agriculture thereby enhancing the income and alternate livelihood options of farming community. On behalf of Department of Agriculture and Farmers' Empowerment, I was also coordinating/ strategic planning of the World Bank Assisted Project on "Odisha Integrated Irrigation Project for Climate Resilient Agriculture (OIIPCRA)" – implemented through Water Resources Department, Govt. of Odisha.

On promotion to the rank of Additional Director of Agriculture, I was posted as

Director, Institute on Management of Agricultural Extension (IMAGE), Bhubaneswar – an autonomous Institute under Department of Agriculture & Farmers’ Empowerment, Govt. of Odisha - dealing with establishment of linkage between Institutes of outstanding accomplishment in the field of agriculture & allied sectors, development of training modules, organization of need based trainings, workshops and capacity building of middle and senior level officers, documentation of best practices/success stories and preparation of IEC materials for communication, Exposure visit of famers and field functionaries, Women empowerment, development of Knowledge Portal, AMA KRUSHI – a two way Interactive Voice Response (IVR) service - mobile phone based extension system for dissemination of Agro Advisory to farmers, Easy availability of farm credit to share croppers through JLGs (BALARAM), financial management and administrative matters. As Director, IMAGE, I was also the operational partner to plan, organize, implement and monitor activities for GEF-FAO assisted projects (Green Agriculture Project & FOLUR Impact Programme) being implemented in Odisha.

While posted in Forest, Environment & Climate Change Department, Govt. of Odisha, I was working as Junior Scientist/Senior Scientist dealing in policy formulations of State Government for Protection, Conservation and Management of Environment within the ambit of prevailing Environmental Laws. In course of my work, I was conversant with issues relating to use of policy instruments for control of Water/Air Pollution, Noise Pollution, Waste Management covering Municipal solid waste, Hazardous waste, Biomedical waste, E-waste, Plastic waste and Fly ash, CRZ and Coastal Zone Management Plan (CZMP) of Odisha, Eco-restoration & Biodiversity Conservation, Wetlands Conservation & Management, River Pollution Management, Project monitoring/management supported under Odisha Environment Management Fund (OEMF) Trust, Environmental Clearance Process - Environment Impact Assessment (EIA)/Environment Management Plan (EMP) of developmental projects, Strengthening of the Institutions/ Organizations functioning under the administrative control of Environment wing, Environmental Awareness Programmes through District Environment Societies, Eco Clubs, ENVIS, GOLBE programme, VOs/NGOs etc. Since inception, I managed functioning of the Appellate Authority as Designated Officer for more than 10 years very smoothly. As I was supervising the activities of State Climate Change Cell, I got involved in the preparation of “State Action Plan on Climate Change” (SAPCC), Odisha for the period 2010-15. As a follow up, I had been coordinating with all concerned stakeholder Departments/Organizations at State level for physical and financial compliances to the key priorities intended for climate change mitigation/adaptation and finally came up with compilation of a progress report on implementation of SAPCC, Odisha for 2010-15. The annual “Climate Budgeting in Odisha” has been prepared to assist the Govt. in identifying the sectors and schemes to focus on to improve climate resilience and mitigation outcomes, and in deciding whether programmes need redesigning or additional funding be required to deliver climate benefits and/or safeguard projects from the impact of climate change. I have also monitored preparation of SAPCC for Odisha in

line with national policy, priorities as well as commitments made under the Intended Nationally Determined Contributions (INDCs) and Sustainable Development Goals (SDGs) with projection by 2030, for 5 years consecutive period - 2018-2023 in consultation with stakeholder Govt. Departments/Organizations, Research Institutes, NGOs and Civil Society. Moreover, I have coordinated external funded projects such as World Bank supported project on “Integrated Coastal Zone Management (ICZMP)”, GCF-UNDP supported project on “Enhancing Climate Resilience of India’s Coastal Communities”, JICA technical assisted project on ‘Conservation and wise use of natural resources of Chilika lagoon through community participation’ and Department of Science & Technology, Government of India financed project on “Strengthening of State Climate Change Cell.

I am a hard working professional, computer savvy especially MS Office, ADAPT programme – a data-backed decision support system in agriculture. I have continued research work over the years on scientific study of surface and ground water quality, impact of climate change etc. and so far, 23 papers/ articles have been published to my credit as such I am conversant with analytical and scientific writings. I had international exposure as I did my M.Sc. in Natural Resource Management at Agricultural University of Norway, Aas under NORAD fellowship selected through Ministry of Human Resource Development, Govt. of India. I was also deputed to ICRISAT, Hyderabad to complete field work and data analysis for my M.Sc. dissertation titled “Encroaching on an Agricultural Research Centre - Is ICRISAT, Patancheru typical or representative of its vicinity?” a Land Use change study covering ICRISAT-Centre and it’s environs through interdisciplinary approaches with application of Remote Sensing and GIS. During my service career, I have participated in a number of in-service training programmes including “Energy Planning and the Environment” at International Summer School, University of Oslo, Norway to refresh technical knowledge and upgrade my skills in desired lines.

My fields of interest are **Environment & Climate Change, Agriculture and Natural Resource Management.**

Details of Work Experience

Additional Director of Agriculture posted as Director, Institute on Management of Agricultural Extension (IMAGE), Bhubaneswar - 13.09.2021 to 28.02.2022 – Department of Agriculture and Farmers’ Empowerment, Govt. of Odisha (On deputation) (Full Time)

Duties and Responsibilities

- Coordination and development of linkage between Institutes of outstanding accomplishment in the field of Agriculture and allied sectors.
- Preparation of training modules and conduct of need based trainings to middle and senior level field functionaries of agriculture and allied sectors
- Implementation and monitoring of Extension Reforms Scheme (ATMA) including empowerment of women through support to Women Self Help Groups (WSHGs) and other farmer oriented activities under Extension Reform Schemes (ATMA) such as Community Radio Stations, Diploma in Agriculture Extension Services for Input Dealers (DAESI), Post Graduate Diploma in Agriculture Extension Management

(PGDAEM), Skill Training for Rural Youth (STRY) and AMA KRUSHI – a two way Interactive Voice Response (IVR) service - mobile phone based extension system for dissemination of Agro Advisory to farmers.

- Operational partner for GEF- FAO assisted projects (Green Agriculture Project & FOLUR Impact Programme).
- Act as Nodal Officer to coordinate Bhoomihina Agriculturist Loan and Resource Augmentation Model (BALARAM) Scheme in the State for easy availability of farm credit to the share croppers/land less agricultural labourers.
- Strengthening of Institutions and restructuring of manpower
- Preparation of IEC materials and feedback from field and research for documentation of best practices/success stories for communication, exposure visit of farmers and development of Knowledge Portal
- Organization of workshops, seminars and agriculture fair.
- Administrative and Financial matters

Key Results and Achievement

- Coordinated with OUAT, IRRI, NRRI, ICRISAT, ICAR Institutes, WALMI etc. for capacity building of extension functionaries.
- Development of training modules for conduct of need based trainings -750 participants have attended.
- Implementation and monitoring of Extension Reforms Scheme (ATMA) including grant of seed money to WSHGs for women empowerment, preparation of Strategic Research Extension Plan (SREP) and other farmer oriented activities under Extension Reform Schemes (ATMA) such as Community Radio Stations, Diploma in Agriculture Extension Services for Input Dealers (DAESI), Post Graduate Diploma in Agriculture Extension Management (PGDAEM), Skill Training for Rural Youth (STRY) – Funds from Govt. of India has been received after much persuasion.
- Appointment of staffs, procurement of logistic such as IT and other stationery items for office use, annual work plans and budgets & finance management as Operational partner for GEF- FAO assisted projects (Green Agriculture Project).
- Pursued the matter time and again with all Cooperative and Commercial Banks, and CDAOs of all districts for easy flow of credit under BALARAM scheme to the share croppers and landless laborers through JLGs. So far, 30,000 JLGs have been formed.
- Printing of IEC materials and documentation of best practices/ success stories on feedback collected from research and field officials for dissemination among extension personnel, Organization of exposure visit of farmers to inside and outside the State, work initiated for establishment of Knowledge Management Portal
- Monitoring of AMA KRUSHI – customized Agro Advisory services to the farmers.
- Monitored ATMA activities for restructuring manpower and institutional strengthening
- Administrative matters and Financial management

Joint Director of Agriculture (Special Programme & Crops) – 16.01.2021 to 12.09.2021 - Department of Agriculture and Farmers' Empowerment, Govt. of Odisha (Full Time).

Duties and Responsibilities

- Planning, policy formulation and monitoring of different agricultural programmes and

activities in the State

- Coordination with International and national institute of repute for undertaking need based research activities in agriculture
- Issue of fertilizer license to manufacturers and State level whole sellers
- Implementation and monitoring of
 - State Plan schemes like Improved Package & Practices, Popularization of Farm Implements and harnessing of surface and ground water resources under Jananidhi
 - Central Sponsored Schemes like NFSM, PKVY/BPKP, BGREI, RKVY and PMFBY, PSS.
 - Special project – Odisha Integrated Irrigation Project for Climate Resilient Agriculture(OIIPCRA) - a World Bank Assisted Project
 - Climate Smart Agriculture/Climate Change Adaptations such as Odisha Millet Mission, Crop Diversification Programme in MLIPs in 4 districts (A pilot project), Integrated Farming, Organic farming, System of Rice Intensification (SRI) method of cultivation, micro irrigation & water use efficiency and water management.
 - Farm pond plus under soil & water conservation, Restoration of Fallow/Waste Lands, Empowerment of Women Self Help Groups, Introduction of DBT, Streamlining policy options through Decision support system in Agriculture – ADAPT programme, AMA KRUSHI for Agro-Advisory services and verification of Farmer’s Database facilitating to provide various incentives to the farmers in transparent manner.

Key results and Achievement

- Timely planning, issue of policy guidelines of different agricultural programmes/schemes for proper implementation at district level.
- Need based research activities in agriculture has been undertaken with support of International and National Institutes of repute (IRRI, ICRISAT, ICARDA, MSSRF and ICAR Institutes)
- Fertilizer licenses to manufacturers and State level whole sellers have been issued in time.
- Proper implementation of the followings:
 - State Plan schemes like Improved Package & Practices, Popularization of Farm Implements and creation of Water Sources under Jananidhi
 - Central Sponsored Schemes like NFSM, PKVY/BPKP, BGREI, RKVY and PMFBY.
 - Strategic Planning and implementation of Odisha Integrated Irrigation Project for Climate Resilient Agriculture(OIIPCRA) - a World Bank Assisted Project
 - Climate Smart Agriculture/Climate Change Adaptations such as Odisha Millet Mission, Crop Diversification Programme- as a pilot, Integrated Farming and Organic farming, System of Rice Intensification (SRI) method of cultivation, Micro irrigation & Water use efficiency, Watershed Management, Crop Contingency Plan, Waste land development etc. were taken up to avoid livelihood risk’s of farmers.
 - Achievement in Farm pond plus, involvement of Women Self Help Groups in agricultural promotion activities, Monitoring ADAPT programme - the

Decision support system in Agriculture and registration of 20 lakh farmers in Agriculture, 9 lakh in Animal Husbandry and 57,000 in Fisheries under AMA KRUSHI for customized Agro-Advisory services and verification of 81 lakhs Farmer Database were significant.

- Introduction of Direct Benefit Transfer (DBT) to beneficiary farmers for procurement of inputs under demonstrations programmes and purchase of need based inputs of their choice in time.

Chief District Agricultural Officer, Kandhamal/Angul– 01.07.20 to 15.01.2021
Agriculture and Farmers' Empowerment Department, Govt. of Odisha (Full Time)

Duties and Responsibilities

- Overall coordination and supervision of all agricultural activities in the District
- Timely and easy availability of agricultural inputs
- Monitoring of Central sponsored plan and State Plan schemes like PKVY, ATMA, NFSM, PMFBY, RKVY, PSS, Doubling of Farmers' Income, Farm mechanization including Soura Jananidhi, Agribusiness - MKUY, KALIA, BALARAM etc.
- Climate Change Adaptations such as Odisha Millet Mission, Crop Diversification, Integrated Farming, Organic Farming, SRI method of rice cultivation, Land and Water Management, Farm Pond
- Verification of Farmer Database and use of ADAPT programme - a decision support system.
- Training and capacity building of field functionaries and farmers for up gradation of technical knowledge, Women empowerment, Procurement of pulses and oilseeds
- Coordination with District Administration, other Line Departments and Panchayati Raj Institution (PRI) representatives.
- Administrative matters and Financial management

Key Results & Achievement

- Proper coordination with District Administration, other Line Departments, NGOs, SHGs and PRI representatives for success of agricultural activities in the district.
- Overall supervision of all agricultural activities in the district
- Easy availability of Seeds, fertilizer, pesticides and agriculture implements through Govt. and private sale points
- Oversee the Central sponsored plan and State Plan schemes like PKVY, ATMA, NFSM, PMFBY, Doubling of Farmers' Income, Farm mechanization through custom hiring centers (CHS), Agribusiness -MKUY, MAKJSY, KALIA, BALARAM etc. for successful implementation in the district.
- Climate Change Adaptations programmes such as Odisha Millet Mission, Crop Diversification, Integrated Farming, Organic Farming, Harnessing of Surface and Ground Water, Water Management through Farm Ponds and Land Development programmes were implemented to avoid livelihood risks of farmers.
- Training and capacity building of field functionaries and farmers for up gradation of technical knowledge, Women empowerment through involvement of WSHGs in various agricultural promotion activities, Procurement of Pulses and Oilseeds under PSS for financial benefit of farmers
- Dealt with Administrative matters and Financial management

Senior Scientist (Ecology & Environment) – 02.01.2019 to 30.06.2020 (On deputation)
Forest, Environment & Climate Change Department, Govt. of Odisha (Full Time)

Duties and Responsibilities

- Analyze environmental policy options relating to environment protection, conservation and management in the State and monitoring enforcement of Environment & Pollution Control Acts and Rules.
- Coordination with Government Departments/Organizations to address the matters such as:
 - Compliance of Water (PCP) Act, 1974 and Air (PCP) Act, 1981
 - Environmental Clearance - Environmental Impact Assessment/EMP - CSR activities including public consultation
 - Waste Management including Municipal solid waste, Hazardous waste, Biomedical waste, E-waste, Plastic waste
 - Noise Pollution
 - State Action Plan on Climate Change (SAPCC) for Odisha – (2018-23) and Climate Budgeting in Odisha
 - Eco-restoration and Conservation of Biodiversity
 - CRZ/Coastal Zone Management Plan/Odisha State Coastal Zone Management Authority/Reconstitution of District Coastal Zone Management Committee
 - Wetland Conservation and Management
 - Management of River Pollution
 - Environment awareness programme through District Environment Societies, ENVIS, Eco Clubs, GLOBE programme, NGOs/VOs etc.
 - Strengthening of organizations/institutions functioning under the administrative control in Environment Wing of the Department
 - Monitoring and management of projects supported under Odisha Environment Management Fund Trust
 - Department of Science & Technology, Govt of India supported project on “Strengthening of State Climate Change Cell”
 - World Bank supported –“ Integrated Coastal Zone Management Project” and GCF-UNDP funded project on ‘Enhancing Climate Resilience of India’s Coastal Communities’,
- Monitoring and compliance of Hon’ble NGT, High Court and Supreme Court cases.
- Assembly and parliamentary matters.

Key Results & Achievement

- Prepared policy guidelines for protection, conservation and management of Environment in the State.
- Compliances of the Environment & Pollution Control Acts and Rules.
- Properly addressed the following matters such as:
 - Control of Water and Air pollution through SPCB
 - Environmental Clearance – SEIAA and SEAC have been supported for timely grant EC to ‘B’ Category projects.
 - Waste Management such as Municipal waste, E-waste, Hazardous Waste with the support of Housing & Urban Development, Panchayatiraj and Industries Department besides ban on Polythene carry-bags in all urban areas of the State.

- Control of Noise Pollution through SPCB and District Collectors, prepared land use map for regulating noise rules.
- Monitoring Eco-restoration of Chilika lake, Conservation of Biodiversity through formation of Biodiversity Management Committee (BMC) and Peoples Biodiversity Register (PBR) at Gram Panchayat level.
- Enforcement of Coastal Regulation Zone (CRZ) /steps have been initiated to prepare a new Coastal Zone Management Plan (CZMP) for Odisha in collaboration with ORSAC. Recommendations of Odisha Coastal Zone Management Authority on development project proposals have been submitted to Govt. of India/SEIAA for grant of Environmental Clearance, Reconstitution of District Coastal Zone Management Committees for enforcement and monitoring at district level.
- Action plans for Wetland Conservation and Management have been developed and implemented in some important water bodies/wetlands.
- Control of River Pollution through Water Resource Department, Housing & Urban Development Department and State Pollution Control Board, Odisha.
- Ameliorative Projects for rehabilitation of degraded environment have been taken up with the support of Odisha Environment Management Fund Trust.
- Environment awareness programmes through ENVIS, GLOBE Programme and Eco-Clubs involving school children and celebration of World Environment Day, World Wetland Day, World Forestry Day etc. have been taken up.
- Monitoring activities of State Pollution Control Board, Chilika Development Authority, Regional Plant Resource Centre, Centre for Environmental Studies, Odisha State Coastal Zone Management Authority, Appellate Authority etc.
- State Action Plan on Climate Change (SAPCC) – 2018-23 has been prepared in line with national policy, priorities and commitments made under Intended Nationally Determined Contributions (NDCs) and Sustainable Development Goals (SDGs) to be projected for 2021-30. Operationalize the DST, Govt of India supported project on “Strengthening of State Climate Change Cell” and coordinated with reputed Institutes for study on vulnerability analysis. Inputs for preparation of Odisha Climate Budgeting have been provided to Finance Department.
- Monitoring of World Bank supported – “Integrated Coastal Zone Management Project” and Coordinated for initiation of GCF-UNDP funded project on “Enhancing Climate Resilience of India’s Coastal Communities”,
- Timely compliance of pending cases at Hon’ble NGT, High Court and Supreme Court and Odisha Legislative Assembly.

Deputy Director of Agriculture – 16.08.2018 to 02.01.2019 Agriculture and Farmers’ Empowerment Department, Govt. of Odisha (Full Time)

Duties and Responsibilities

- Planning and Monitoring of Central Sector Schemes implemented at the level of Directorate of Agriculture & Food Production, Odisha.

Key Results & Achievement

- Proper implementation of Central Sector Schemes such as NFSM, BGREI, PKVY, BPKP, ATMA, RKVY and PMFBY at field level.

District Agriculture Officer / Technical Manager – 01/07/2016 to 15.8.2018 (On Deputation) (Full Time) Agricultural Promotion & Investment Corporation of Odisha Limited (APICOL), Bhubaneswar. (A Wholly Owned Corporation of State Government of Odisha)

Duties and Responsibilities

- Counseling, customer service including escort services and guidance to agri-entrepreneurs and interested farmer on agribusiness and value chain activities to promote investment in Agriculture and allied sector
- Organisation of Entrepreneurship Development Program (EDP) training sessions/ seminars/ workshops
- Facilitate commissioning of feasibility study on crop specific Agri Business projects/enterprises for the State.
- Promotion of innovators and new startup in the area of value addition, backward and forward linkage, service sectors, logistics and export oriented units.
- Preparation of model Bankable projects on Commercial Agri- Enterprises (CAEs) in Agriculture & allied sectors.
- Facilitate export of fruits and vegetables from the State involving farmers, FPOs, Exporters and concerned Govt. Authorities including APEDA.
- Monitoring and evaluation of CAEs for grant of subsidy under State Agriculture Policy
- Coordinate with Banks, line Departments and prospective entrepreneurs for timely setting up of CAE Units.
- Promotion of awareness and execution of flagship scheme ‘Mukhyamantri Krushi Udyog Yojana’ under State Agriculture Policy for establishment of more number of CAEs by bringing private investment in agriculture & allied sector in the State for enhancement of farmers’ income.
- Coordinate for development of a website for APICOL and a web portal for online registration and submission of application for new CAE projects.

Key Results & Achievement

- 64 nos of model Bankable projects on Commercial Agri- Enterprises (CAEs) in agriculture & allied fields have been prepared and uploaded in the website for public use.
- Organisation of 10 nos of Entrepreneurship Development Program (EDP) training sessions/seminars/ workshops
- Global Agri System Pvt. Ltd., New Delhi has been assigned to undertake Techno Economic Feasibility Study on 22 identified Agri Business projects/enterprises for the State.
- Promoted innovators and new startup in the area of value addition, backward and forward linkage, service sectors, logistics.
- Facilitated for export of fruits and vegetables from the State involving farmers, FPOs, Exporters and concerned Govt. Authorities including APEDA – Initial discussion has been made with all stake holders to utilize the cold room established at Biju Pattanaik International Airport at Bhubaneswar.
- Facilitated Institutional Linkage i.e. coordinated with Banks, line Departments and prospective entrepreneurs for timely setting up of CAE Units in the State.

- Monitoring and evaluation of CAEs for timely release of subsidy under State Agriculture Policy
- Prepared a “Compendium of investible projects in Agriculture & Allied sectors in Odisha” and booklets/leaflets for creation of awareness among prospective Agri-entrepreneurs.
- Development of a dedicated website for APICOL and a web portal for online registration & application of new agri-business projects in the State.
- Counseling and hand holding support to agri entrepreneurs for establishment of more number of CAEs and associated logistics etc. in broad terms promoted private investments in agriculture & allied sector in the State for enhancement of farmers’ income.

Assistant Agriculture Officer – 02/03/2016 to 30/06/2016 Agriculture and Farmers’ Empowerment Department, State Government of Odisha (Full Time)

Duties and Responsibilities

- Planning & Monitoring of agricultural schemes and coordinate secretarial work at Department level

Key results & Achievement

- Timely and effective implementation of state plan and central sector schemes at district level. Smoothly managed the secretarial work at Department level.

Junior Scientist (EAP) – 28/10/1999 to 01/03/2016 (On deputation) (Full Time)
Forest, Environment & Climate Change Department, Government of Odisha

Duties and Responsibilities

- Analyse and formulate various policy options in respect of Protection, Conservation and Management of Environment in the State.
- Preparation of State Climate Change Action Plan for 2010-15 and progress report thereon.
- Matters relating to Coastal Regulation Zone/CZMP, Biodiversity and Eco-restoration
- Environmental clearance of projects including public consultation. All matters of State Environment Impact Assessment Authority (SEIAA) / State Expert Appraisal Committee (SEAC).
- Compliance under Water Act, Air Act and Environment (Protection) Act & Rules made there under,
- Waste Management, Noise Pollution and State Water Policy
- Policy instruments to check pollution of stone crushers, brick kilns and management of fly ash.
- Coordination and management of projects supported under Odisha Environment Management Fund Trust
- Monitoring the activities of organizations/institutions functioning under administrative control of the Department.
- Promotion and monitoring of different environmental awareness programs namely NEAC, ENVIS, ECO-Clubs and District Environment Society.
- Function as Designated Officer of the State Appellate Authority for disposal of appeal petitions under Water Act, 1974, Air Act, 1981 and Bio Medical Waste Rules, 1998.

- Court cases at Hon'ble NGT, High Court and Supreme Court and matters related to Parliament and Odisha Legislative Assembly.

Key results & Achievement:

- Policy guidelines have been formulated from time to time in respect of different Environment matters of State.
- Action plans for critically polluted clusters have been prepared with the help of State Pollution Control Board and oversee its implementation.
- State Action Plan on Climate Change (SAPCC) has been prepared for 2010-15. Compliance on key priorities of climate change adaptations/mitigations have been sought from concerned stake holder departments/organizations. A progress report in respect of SAPCC 2010-15 has also been prepared.
- Enforcement of Coastal Regulation Zone Notification, Preparation of Shoreline Vulnerability Atlas for Odisha, Implementation of approved Coastal Zone Management Plan for Odisha, Recommendations of the Odisha State Coastal Zone Management Authority on considered project proposals have been sent to Govt. of India for grant of Environmental Clearance and Constitution of District Coastal Zone Management Committees.
- Monitoring of conservation of Biodiversity through RPRC, Eco-restoration of Chilika Lagoon & a pilot study on 'Conservation and wise use of natural resources of Chilika lagoon through community participation' under technical assistance of JICA.
- Environmental clearance for development projects (Category 'B' Projects) have been processed including public consultation.
- Guidelines, application form with check list have been prepared for EC in respect of minor minerals with less than 5 hact.
- Compliances of the provisions of Water Act, Air Act and Environment (Protection) Act & Rules made there under and amendment to Odisha Water Rules & Odisha Air Rules for effective implementation. Entire State has been declared as air pollution control area to enforce Air, Act, 1981.
- Participated for finalization of State Water Policy, 2007
- Policy instruments/siting guidelines have been framed to check pollution of stone crushers, brick kilns and management of fly ash.
- Monitored activities of State Pollution Control Board, Chilika Development Authority, Regional Plant Resource Centre, Centre for Environmental Studies, Odisha State Coastal Zone Management Authority, Appellate Authority etc.
- Ban of polythene carry of bags having less thickness that the prescribed within the State. Promotion and development of Common Biomedical Waste Treatment Disposal Facility (CBWTF) and Common Hazardous Waste Disposal Facility.
- Projects for taking up ameliorative steps for rehabilitation of degraded environment have been supported through Odisha Environment Management Fund Trust.
- Promotion and monitoring of different environmental awareness programs, such as NEAC, ECO-Cubs, ENVIS, GLOBE programme, celebration of World Environment Day with distribution of Prakruti Mitra and Prakruti Bandhu at State level function and Strengthening of District Environment Societies.
- Coordinated the World Bank assisted "Integrated Coastal Zone Management Project (ICZMP)" and "Towards Sustainable Mineral-Intensive Growth in Odisha" pilot, which were in operation in Odisha.

- Made smooth functional of State Appellate Authority for disposal of appeal petitions under Water Act, 1974, Air Act, 1981 and Bio Medical Waste Rules, 1998.
- Timely compliance of pending cases at Hon'ble NGT, High Court and Supreme Court and matters related to Parliament and Odisha Legislative Assembly.

Junior Agriculture Officer, Sonepur/Motunga– 15/08/1992 to 27/10/1999 (Full Time) Govt. of Odisha, Department of Agriculture & Farmers' Empowerment

Duties and Responsibilities

- Promotion of Agricultural extension activities under T&V system
 - Integrated Pest Management
 - Seed village programme
 - Commercial Agriculture under State Agriculture Policy
 - Rainfed Farming Practices
 - Integrated Nutrient Management
 - Water management through suitable farming system
 - Easy availability of agricultural inputs in time
 - Crop Demonstration and field trials
 - Watershed Management and Rural Development
 - Organization of exhibition and agricultural fairs
 - Coordination with line department officials and Panchayati Raj Institution (PRI) representatives at block level

Key results & Achievement

- Promotion of improved package and practices in agriculture, contingent plans for flood and drought
 - Watershed Management in 3 clusters in the block
 - Seed village programme under paddy and green gram
 - Popularization of Commercial Agriculture
 - Integrated Nutrient Management with emphasis on soil test result, popularization of bio-fertilizers
 - Made easy availability of HYV seeds, fertilizer, pesticides and agriculture implements through Govt. and private sale points, facilitate for sanction of crop loans.
 - Introduced appropriate farming system based on water availability
 - Crop Demonstrations in 230 hact. per year and minikit distribution
 - Organize exhibition at block Headquarter and farmers training
 - Proper coordination with line department officials and PRI representatives for success of agriculture programmes within the block.

Assistant Seed Certification Officer, Sambalpur –24/08/1987 to 14/08/1992 (On deputation) Govt of Odisha, Department of Agriculture & Farmers' Empowerment (Full Time)

Duties and Responsibilities

- Field inspection for seed certification field
- Monitoring of seed processing, sampling and tagging
- Promotion of Quality seed production

Key Results & Achievements

- Quality seed production under breeder, foundation and certified class.
- Enhancement of seed replacement ratio, thereby increase in agricultural production.

Junior Agriculture Officer, Atigaon – 05/ 09/1984 to 23/08/1987 (Full Time)
Govt of Odisha, Department of Agriculture & Farmers' Empowerment

Duties and Responsibilities

- Promotion of agriculture extension under T&V system
- Easy availability of agricultural input in time
- Watershed Management and Rural Development
- Rainfed Farming Practices
- Integrated Pest Management
- Integrated Nutrient Management
- Seed village programme
- Crop Demonstration, field trial and campaigns
- Organization of exhibition and agricultural fairs
- Coordination with line department officials and Panchayati Raj Institution (PRI) representatives at block level

Key Results and Achievement

- Scheduled visit under T&V programme for educating the farmers
- Made easy availability of High Yielding variety of Seeds, Chemical Fertilizers, Pesticides and Agriculture Implements at Govt. sale point, facilitate for sanction of crop loans.
- Promotion of improved package of practices for HYV crops and organization of farmers training
- Popularizations of use of sprinkler systems as micro irrigation for efficient Water Management
- Seed village programme under paddy and green gram
- 200hact of demonstration under different crops per year and minikit distribution
- Timely submission of report & returns
- Proper coordination with line department officials and PRI representatives for success of agriculture programmes within the block.

Employer

Employer: Govt. of Odisha, Department of Agriculture and Farmers' Empowerment.

Qualifications

❖ **Master of Business Administration – Human Resource Management, 2015.**
Sam Higginbotton Institute of Agriculture Technology & Sciences, Allahabad. UP.

❖ **Ph.D. – Environment Science, 2008.**

Berhampur University, Berhampur.Odisha.

Thesis on “Environmental Monitoring of Drinking Water Sources at Angul-Talcher industrial area of Odisha”- **Water quality study** in a critically polluted industrial and mining region of Odisha.

❖ **Master of Science – Natural Resource Management, 1994.**
International Centre for Environment and Development studies
(NORAGRIC), Agricultural University of Norway, Aas.

Thesis on “Encroaching on an Agricultural Research Centre - Is ICRISAT, Patancheru typical or representative of its vicinity?”- Land use changes through interdisciplinary study with application of **Remote Sensing and GIS.**

❖ **Bachelor of Science – Agriculture, 1984.**
Odisha University of Agriculture & Technology, Bhubaneswar.

❖ **Intermediate of Science –1979.**
Utkal University, Bhubaneswar.

❖ **High School Certificate, 1977.**
Board of Secondary Education, Odisha

Professional Short Courses

❖ **Energy Planning and the Environment**
International Summer School, University of Oslo, Norway.
 25th June – 5th August, 1994

❖ **Certified Trainer** for Global Learning and Observations to Benefit the Environment (GLOBE) Programme in New Delhi from 16th – 22th January, 2002

Professional Affiliation

- NORAD Fellows’ Network, Norwegian Council of Universities, Bergen, Norway.
- Administrative Staff College of India, Hyderabad
- Odisha Environment Society, Bhubaneswar

Fellowship awarded

Availed NORAD fellowship to pursue M.Sc. degree at Agricultural University of Norway, Aas.

Language known

Fluent in reading, writing and speaking English, Hindi and Odia

Computer Skills

Proficiency in MS-Word, Excel,
 Power Point and ARC/INFO –
 GIS

Countries visited

Norway, Sweden and Netherlands

Details of important trainings attended

Name of training program	Institute where training was imparted	Period of training
Training Need Assessment	Institute on Management of Agricultural Extension, Bhubaneswar	12 th to 13 th December, 2017

Integrated Watershed Management	ICAR-Indian Institute of Soil & Water Conservation, Dehradun	26 th to 30 th July, 2016
Climate Change and Disaster Management	National Institute of Disaster Management, New Delhi	16 th to 20 th March, 2009
Strategic Environmental Assessment for mainstreaming Environment in India	Administrative Staff College of India, Hyderabad	16 th to 18 th August, 2005
Coastal Regulation Zone & Coastal Zone Management	Institute for Ocean Management, Anna University, Chennai	24 th to 28 th January, 2005
Application of GIS in the management of Aquatic Pollution	Integrated Coastal and Marine Area Management Project Directorate, Chennai	12 th to 21 st April, 2004
Environmental Economics	Indian Institute of Management, Ahmedabad	1 st January to 5 th January, 2001
Watershed Management	District Rural Development Agency, Sonapur	14 – 18 th December, 1998
Remote Sensing and Geographical Information Systems (GIS)	Agricultural University of Norway, Aas	13 to 15 April, 1993

Research Publications

- **Sahu, B.K.** (2009) The History of Climate Change, In Climate Change- its effects & mitigation published by Centre for Environmental Studies, Bhubaneswar, pp.91-94.
- **Sahu, B.K.** and Padhi, S. (2011) Bacteriological status of surface water sources on potability in Angul-Talcher industrial Zone of Orissa – Indian J. Environmental Protection, 31 (3) : 230-234.
- Padhi, S. and **Sahu, B.K.** (2012) Assessment of potability of ground water using Water Quality Index in Angul-Talcher industrial zone of Orissa - Indian J. Environmental Protection, 32 (1): 45-52.
- **Sahu, B.K.** (2012) Scarcity of drinking water in Angul-Talcher industrial zone - a visible impact of climate change, In Climate Change Issues published by Centre for Environmental Studies, Bhubaneswar, pp.126-132.
- **Sahu, B.K.** (2012) Genesis of Coastal Regulation in India, In Coastal Erosion Issues published by Centre for Environmental Studies, Bhubaneswar, pp.74-79.
- **Sahu, B.K.** and Padhi, S. (2013) Bacteriological status of groundwater sources in respect of potability in Angul-Talcher industrial cluster of Odisha – Indian J. Environmental Protection, 33 (5) : 363-369.
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- **Sahu, B.K.** (2015) Assessment of pesticide residues in some dug wells located in Angul-Talcher industrial region of Odisha. Indian J. Environmental Protection, Kalpana Corporation, Varanasi, India, 35 (12): 1010-1015.
- **Sahu, B.K.** (2015) Assessment of water borne diseases in Angul-Talcher industrial zone of Odisha, In the proceeding of Odisha Environment Congress 2015, Pp.273-279.
- **Sahu, B.K.** and Padhi, S. (2016) Algae as bio-indicators of fresh water pollution, Indian J. Environmental Protection, Kalpana Corporation, Varanasi, India, 36 (7): 594-599.
- **Sahu, B.K.** (2016) Physico-chemical characteristics of surface water in Angul-Talcher industrial zone of Odisha, Indian J. Environmental Protection, Kalpana Corporation, Varanasi, India, 36 (8): 667-680.
- **Sahu, B.K.** (2016) Assessment of Fluoride concentration in different drinking water sources around NALCO smelter plant at Angul, Odisha, Indian J. Environmental Protection, Kalpana Corporation, Varanasi, India, 36(9), 710-715.
- **Sahu, B.K.** and Dehury, S. (2016) Evaluation of Physico-Chemical properties of Ground Water in Angul-Talcher Industrial Zone of Odisha, Indian J. Environmental Protection, Kalpana Corporation, Varanasi, India, 36 (10) 833-848.
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- **Sahu, B.K.**, Patra, Swagatika and Kanar, Monalisha (2019) Sustainable River Sand Mining, In the proceedings of Odisha Environment Congress 2019, Pp. 41-49.
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- Mohapatra, P.C, **Sahu, B.K.** and Mohanty, A.K. (2020) Plastic Waste, Health & Climate Change: Issues & Challenges of Odisha. Indian Journal of Public Health Research and Development. Volume 11 (6).
- **Sahu, B.K.** (2022) Shifting Paradigms, Climate Resilient Agriculture in Odisha, In ENVIS Newsletter published by Centre for Environmental Studies, Bhubaneswar,

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- **Sahu, B.K.** (2022) Carbon Footprint of the Food We Eat, In ENVIS Newsletter published by Centre for Environmental Studies, Bhubaneswar, Issue No.69.

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Bhubaneswar
15th May, 2023

Basant Kumar Sahu

Signature
