



BCKIC
Bhubaneswar City
Knowledge Innovation
Cluster Foundation



Office of the Principal Scientific Adviser
to the Government of India

SCIENCE & TECHNOLOGY CLUSTER

Bhubaneswar City Knowledge Innovation Cluster Foundation

GIVE A HAND TO MAKE THE WORLD BETTER

BCKIC Foundation

An Initiative of the Office of Principal Scientific Advisor
to the Government of India

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A decorative background illustration on the left side of the page, rendered in a dark red line-art style. It features a vertical arrangement of elements: at the top, a temple gopuram (tower); below it, a figure in traditional Odia attire; then a large, ornate wheel (possibly a chariot wheel or a symbolic wheel); and at the bottom, another temple structure. The entire illustration is set against a solid dark red background that occupies the left third of the page.

CONNECTING INNOVATORS, TRANSFORMING SOCIETY: BCKIC FOUNDATION'S VISION FOR SUSTAINABLE SOCIAL IMPACT

The Bhubaneswar City Knowledge Innovation Cluster (BCKIC) Foundation, established as a Section 8 company on 2022, is a flagship initiative led by the Office of the Principal Scientific Adviser to the Government of India, under the visionary guidance of the Prime Minister's Science, Technology, and Innovation Advisory Council (PM-STIAC).

BCKIC Foundation is more than an organization; it is a driving force dedicated to creating a profound social impact. Our mission is to forge seamless connections between research institutions, academia, industry partners, startups, MSMEs, NGOs, philanthropic foundations, state governments, and international organizations, all within a Hub and Spoke Model.

Our core objective is to tackle regional and global challenges through consortium-based collaborations.

We believe in harnessing the collective strengths of our diverse stakeholders, uniting their expertise and technical know-how under a single umbrella. BCKIC Foundation fosters a shared ecosystem, promoting collaboration for innovation, technology development, and deployment, with each participant retaining their internal autonomy.

Moreover, BCKIC Foundation in Bhubaneswar is not an isolated entity; it's an integral part of a network of six S&T Clusters across India including Bengaluru, Delhi NCR, Hyderabad, Jodhpur, and Pune. These clusters serve as global technology hubs, facilitating the entire spectrum from technology development to the commercialization of solutions. Through our collective efforts, we aim to fuel the growth of the social economy and generate livelihoods, making a lasting impact on society.

CHALLENGES IN ODISHA

Odisha, home to around 42 million people, confronts multifaceted challenges. Demographically, 83% of the population resides in rural areas, including numerous tribal communities, with 40% belonging to Scheduled Tribes and Scheduled Castes. Despite economic growth, 32% live below the poverty line. The state grapples with recurring natural disasters like cyclones, floods, and droughts, affecting 14 flood and cyclone-prone districts and 11 drought-prone districts in the west. Health and nutrition issues persist, with the highest newborn mortality rate in India and food insecurity leading to child stunting and wasting. Education gaps, sanitation issues, and agricultural instability further compound the challenges Odisha faces.

WHAT WE DO

HEALTHCARE

With an unwavering dedication to enhancing healthcare accessibility, BCKIC Foundation is putting all its efforts to improve maternal, newborn, child, and adolescent health through collaboration with communities, governments, and partners in India. One remarkable initiative is the Population Health Screening program, powered by smart medical devices, real-time dashboards, and health analytics in partnership with MedTel Startup. This program has screened health parameters for 40,000 individuals annually, providing critical data on blood pressure, pulse rate, ECG, glucose levels, and more. Additionally, digital diagnostic services have been extended to over 60 sub-centers in Balangir, Odisha, benefiting thousands. Door-to-door health screening, conducted in partnership with the Berhampur Municipal Corporation, has further targeted the health needs of slum dwellers, focusing on non-communicable diseases and raising awareness about early detection and management. BCKIC Foundation's initiatives extend to safe pregnancy surveillance through SPARSA, digital diagnostic kits for maternal health through MedTel startup.

BCKIC Foundation, along with its R&D partners, is crafting eco-friendly sanitary napkins to promote menstrual hygiene, entrepreneurship, and skill development in economically disadvantaged areas. This initiative combines environmental sustainability with social impact, empowering communities and fostering women's well-being.

Furthermore, the foundation has nurtured innovations like IoT-enabled point-of-care blood testing devices, cardiac health monitoring systems, and solutions addressing infectious diseases.

The Academic Health Science Network, Yorkshire and Humber, along with BCKIC Foundation and KIIT TBI, organized a fully funded 3-day bootcamp for 25 Indian healthcare companies. Subsequently, 6 startups were chosen for a 5-day UK NHS Immersion program in Yorkshire, UK, focusing on commercialization and deployment within the healthcare sector.

Additionally, the BCKIC Foundation, in collaboration with DST Centre of Excellence at KIIT TBI, has initiated the Clinician Peer Support Program (CPSP). This pioneering effort aims to create a dynamic platform uniting clinicians, surgeons, and medical professionals from various disciplines to foster healthcare innovations, emphasizing the social impact of healthcare advancement.



AGRITECH & NUTRITION

At BCKIC Foundation, our agricultural and nutritional interventions are driven by a deep commitment to social impact. We actively engage in initiatives that not only safeguard regional agri-biodiversity but also empower local communities. By collaborating with the Department of Agriculture & Farmers' Empowerment and other partners, we preserve indigenous aromatic paddy varieties in Odisha.

Through training and demonstrations, we empower farmers, enhance value chains, and ensure traceability, positively impacting their livelihoods. Furthermore, our collaboration with Kotak CSR and Pro-Biokem Pvt Ltd focuses on converting rice husk into valuable products, reducing pollution from agricultural residue burning, and contributing to a cleaner environment. Also, BCKIC Foundation is working with KARMA, a startup company of Odisha for deploying portable solar water pumping systems for use in irrigating the large number of small farms.

These initiatives underscore our mission to promote sustainable agriculture, empower communities, and create a lasting social impact that extends beyond farming and nutrition, touching the lives of those in our region.





WOMEN EMPOWERMENT

We work to establish The Women Technology Park (WTP) dedicated to empowering women in technology and innovation. Its core objectives include providing skills development, supporting women-led startups, fostering collaboration, promoting research and innovation, advocating for gender inclusivity, and engaging with the community to inspire and support women pursuing careers in technology. WTP aims to break down gender barriers and create opportunities for women to excel in STEM fields, ultimately driving innovation and diversity in the technology sector.

5 Number of WTPs	5 Districts Covered	8 Blocks Covered	6500+ Participants Reached
1500+ Total Trained	35 Micro Enterprise Established	5 Funding Partners	1220+ SHGs Associated

WTP CHIKITI

The Women Technology Park (WTP) at Chikiti, Ganjam was established in 2017 with the support of DST to encourage women for capacity building and economic upliftment by establishing micro enterprises completely led by local women in that area.

WTP JAGATSINGHPUR

The Women Technology Park (WTP) at Jagatsinghpur was established in 2019 with the support of PPL to create women-led micro enterprises on bio-degradable sanitary pad, incense stick, mushroom farming, and organic phenyle. The micro enterprise functioning on production of bio-degradable sanitary pad is generating a revenue of more than INR 10 K per month.

WTP KOIDA

The Women Technology Park (WTP) at Koida, Sundergarh was established in 2017 with the support of SN Mohanty Group. So far more than 650 SHG women have been trained in the manufacturing of 3 Layer Bio-Degradable Mask, Leaf Plate, LED Bulb, Millet Based Noodles, Organic Phenyle, and Hand Sanitiser under WTP Koida in different batches. Currently, SHGs are earning more than 7000 per month by Phenyl manufacturing.

WTP RAIKIA

The Women Technology Park (WTP) at Raikia, Kandhamal was established in 2021 with the support of HDFC Parivartan. So far more than 2500 SHG women have been connected and 400 SHG women been trained in the manufacturing of LED bulb, millet based noodles, natural tooth brush making and different value-added products from sweet potato under WTP Kandhamal in different batches.

WTP JHARSUGUDA

The Women Technology Park (WTP) at Jharsuguda was established in 2023 with the support of Vedanta Aluminium Ltd. So far more than 30 women from 10 SHG groups were trained in the manufacturing of biodegradable sanitary napkin. Also, they got training on Sales, Marketing, Digital Marketing and exposure to differ market areas in Jharsuguda, Sambalpur and Sundargarh District. Currently, 1 full fledged production unit is operational.



EDUCATION

In the realm of education, BCKIC Foundation is passionately dedicated to driving positive social change through various impactful initiatives. One notable program is the Bayer Fellowship Program - MEDHA, which extends critical financial aid to students hailing from economically disadvantaged backgrounds, ensuring their access to higher education. Moreover, BCKIC Foundation's collaboration with the Science & Technology Department of the Government of Odisha for empowering aspiring entrepreneurs and promoting economic empowerment and self-reliance within the community.

BCKIC Foundation also runs several capacity-building training programs for students like "Spark-O-Thon," where the focus is on nurturing innovation and entrepreneurship among students, thus fostering a new generation of socially-conscious innovators. Additionally, BCKIC Foundation collaborates with the Science and Technology Department to raise awareness about Intellectual Property Rights in Odisha, ensuring that the benefits of innovation and creativity are shared equitably among all sections of society. These initiatives exemplify BCKIC Foundation's unwavering commitment to leveraging education as a powerful force for positive social transformation in Odisha.



WETLAND BIOPROSPECTING & SUSTAINABLE LIVELIHOOD IN COASTAL ODISHA

BCKIC Foundation's interventions in the coastal regions of Odisha, particularly in the Chilika Lake wetland ecosystem, have had a profound social impact. Chilika, the largest brackish water lagoon and a designated Ramsar site, faced significant environmental challenges, including invasive weed infestations and habitat degradation. BCKIC Foundation has stepped in to not only address these ecological issues but also create sustainable livelihoods for the local community. By utilizing *Phragmites karka*-based technological interventions, BCKIC Foundation aims to develop Chilika Bioresource Centre for containing and managing invasive weeds by developing particle boards, kraft paper, corrugated paper, and pellets, benefiting over 500 fishermen and women from six coastal villages.

This initiative will not only improve the ecosystem's health but also empower the local community through self-help groups (SHGs) and skill development programs. Through capacity building and market linkages, BCKIC Foundation's work in Chilika will not only revitalize the wetland but also transform lives, demonstrating the profound social impact of its interventions in coastal Odisha.



JOIN HANDS WITH BCKIC FOUNDATION

PARTNER WITH US TO AMPLIFY YOUR SOCIAL IMPACT

Amplified Social Impact: Collaborate with our diverse network to magnify the reach and effectiveness of your philanthropic endeavours.

Strategic Alliances: Form partnerships with socially-driven startups, research institutions, & community projects that align with your social mission.

Access to Innovation: Stay connected with cutting-edge social innovations, supporting initiatives addressing pressing societal challenges.

Wider Outreach: Utilize our extensive reach to extend your social programs to marginalized communities, maximizing societal impact.

Knowledge Exchange: Participate in collaborative learning within our cluster, gaining insights into effective strategies for driving social change.

Community Empowerment: Collaborate on projects that empower underprivileged communities, leveraging our collective resources and expertise.

Advocacy for Social Causes: Join forces with cluster members to advocate for policies aligned with your social impact goals, effecting systemic change.

Resource Mobilization: Identify potential donors and supporters who share your commitment to social causes through our network.

Sustainable Social Development: Contribute to projects focused on lasting improvements in the well-being of individuals and communities.

Capacity Building for Impact: Enhance your organization's ability to catalyze social innovation and create lasting social change through capacity-building programs within our cluster.

BENEFITS OF JOINING BCKIC FOUNDATION DONOR FAMILY

Trust & Transparency: Regular updates assure you that your donations are making a meaningful impact in addressing critical healthcare and other societal challenges.

Community of Changemakers: Join a nationwide community of individuals who believe in collective efforts.

Engage with Fellow Members: Connect with other BCKIC Foundation family members to exchange ideas and opportunities.

Membership Flexibility: Enjoy the freedom to change your donation amount at your convenience and also Temporarily stop and restart your donations whenever you're ready to rejoin the BCKIC Foundation Donor Family.

For BCKIC Foundation Partnership or
Joining BCKIC Foundation Donor family:
Write to chairman@bckic.in

SUPPORT BCKIC FOUNDATION BY EMBRACING OUR SHARED VISION

The BCKIC Foundation donor family is a community of changemakers who share our belief that together, as a united family, we can create a better world to live in through innovation-driven S&T interventions.

We are seeking philanthropic support for the establishment of a cutting-edge, **BCKIC Foundation innovation hub in Bhubaneswar**, spanning a sprawling **50,000 square feet**.



OUR VISION AND OBJECTIVES:

Floor for Deep Tech Innovation:

We envision the creation of a dynamic structure that fosters deep tech innovation and collaboration. This floor will house the BCKIC Foundation Think Tank Club, where experts and innovators can brainstorm and work together to solve pressing challenges. Additionally, a dedicated hall will be set up for product showcases, allowing startups and entrepreneurs to display their groundbreaking solutions. To further support tech development, a Technology Readiness Level (TRL) maturation centre will be established, providing resources for product testing and refinement. We are also planning to establish an Intellectual Property (IP) & Tech Transfer office and an Office of Regulatory Affairs to streamline the transition of innovations into the market.

Floor for Societal Innovation:

The second floor of our innovation hub will be dedicated to societal innovation, focusing on empowering communities and preserving cultural heritage. Within this space, we will establish the Women Technology Park (WTP) training centre, offering skill development and support for women in technology and innovation. Additionally, we will create a centre for the preservation of tribal knowledge and art, ensuring the rich cultural heritage of our region endures. Training facilities for forest produce processing will also be provided to empower local communities economically. An Office of Market Discovery for Societal Innovation and Forest Produce will connect these innovative solutions with potential markets. To showcase these remarkable innovations, we will set up an exhibition centre.

The Impact We Envision:

With your support, this innovative hub will become a beacon of transformative change in our region. By bridging the gap between deep tech and societal innovation, we aim to create a holistic ecosystem that addresses the diverse needs of our community.

We are reaching out to philanthropic partners who share our vision and commitment to making a lasting impact. Your support will play a pivotal role in turning this vision into reality and enabling the positive change we aspire to achieve.



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BCKIC Foundation, Section 8 Company is the bonafide legal entity of Bhubaneswar City Knowledge Innovation Cluster, an Initiative of the Office of the Principal Scientific Adviser to the Government of India.

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