



ICAR-CIWA NEWSLETTER

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ICAR - CENTRAL INSTITUTE FOR WOMEN IN AGRICULTURE, BHUBANESWAR-751003

Director's Desk

Women's empowerment in agriculture refers to enhancing their access to productive resources such as land, credit, inputs, extension services, markets, and modern technologies. It also involves strengthening their knowledge, skills, leadership abilities, and participation in decision-making at household, community, and institutional levels. When women are empowered, they are better equipped to adopt improved agricultural practices, diversify income sources, and contribute effectively to farm and non-farm activities. ICAR-CIWA remains dedicated to promoting women's empowerment and improving the livelihoods of farm families. The Institute has made significant contribution in analyzing women's empowerment in livestock systems in cyclone-prone coastal India, fodder based pelleted feed enriched with moringa for improving goat productivity and enhancing income of women farmers, effect of composting on heavy metal content of water hyacinth-based compost during this quarter.

The institute organized different events such as celebration of Rashtriya Ekta Diwas, Rashtriya Mahila Kisan Diwas, Live Webcast Programme of PM Kisan Samman Nidhi, Swachhata Diwas and Special Campaign 3.0, Kisan Diwas, Research Advisory Committee Meeting, World Food Day, Agricultural Education Day and World Soil Day. Many awards and recognitions were received by the Institute.

In this quarter, the Institute witnessed commercialization of seven technologies. Several capacity building and training programmes were also organized for the benefits of women farmers and other stakeholders. A number of initiatives under Swachh Bharat Abhiyan and Swachhata Pakhwada was also carried out in the villages with utmost enthusiasm.

I am pleased to present this edition of the Quarterly Newsletter and extend my sincere gratitude to all our collaborators, contributors, and stakeholders for their continued commitment to advancing the empowerment of women in agriculture.



(Mridula Devi)

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RESEARCH HIGHLIGHTS

Homestead Farming System of Coastal Odisha Women's Empowerment in Livestock Systems in Cyclone-Prone Coastal India: Insights from Odisha and Andhra Pradesh Using the WELI Framework

(A. K. Panda and Arpita Mohapatra)

Women play a pivotal role in livestock-based livelihoods in coastal India; however, their contributions often remain under-recognized and constrained by limited access to productive resources, decision-making authority, and institutional support systems. These constraints are further exacerbated in cyclone-prone regions, where recurring climatic shocks disproportionately undermine women's livelihoods, resilience, and overall wellbeing. In this context, the present study examines the level of women's empowerment in the livestock sector across two highly vulnerable coastal states of India—Odisha and Andhra Pradesh—using the Women's Empowerment in Livestock Index (WELI). The study is based on primary household-level data collected from livestock-rearing households in selected coastal districts of both states. The WELI framework was applied to assess empowerment across three key domains—intrinsic, instrumental, and collective agency—captured through the Three Domains of Empowerment (3DE) score, along with the

Gender Parity Index (GPI) to evaluate intra-household gender equality. The findings indicate a relatively higher WELI score for Odisha (0.74) compared to Andhra Pradesh (0.70), suggesting moderate to high levels of empowerment in both contexts, with notable inter-state variation. Similarly, the 3DE score is higher in Odisha (0.74) than in Andhra Pradesh (0.68), reflecting stronger agency and decision-making capacity among women livestock keepers in Odisha. The Gender Parity Index further reveals that Odisha (0.94) is closer to achieving gender parity, whereas Andhra Pradesh (0.89) continues to exhibit gender disparities. Despite these encouraging trends, domain-level analysis highlights persistent challenges, including high workload burdens, limited access to climate-resilient services, and weak collective action. The study underscores that women's empowerment is closely associated with access to institutions, extension services, and social capital, which vary across socio-economic and regional contexts.

Fodder based Pelleted Feed Enriched with Moringa: A Strategy for Improving Goat Productivity and Enhancing Income of Women Farmers

(B. Sahoo)

Goat farming is largely women-driven enterprise, but feed scarcity and imbalanced ration are major constraints in smallholder system. Feed accounts about 60% of production cost, making efficient feeding essential for

profitability in goat farming. Locally available feed resources such as hybrid Napier and Moringa leaves are nutritious and economical but underutilized. Total Mixed Ration (TMR) offers a scientific solution by mixing

concentrate mixture, forages, and minerals into a uniform mix, improving nutrient intake, reducing wastage, stabilizing rumen function, and enhancing overall performance of animals. Pelleted TMR can reduce feed wastage by 25–30% and improve productivity. However, TMR is not widely standardized or adopted in smallholder, women-led goat farming. Therefore, this study aims to develop cost-effective TMR formulation using local feed resources and evaluate their impact on productivity, health, feed efficiency and income in goat farming.

A cost-effective pelleted Total Mixed Ration (TMR) was developed using concentrate and

green fodder (IGFRI-6/Sugarcane/Red Napier/Super Napier) in different ratios (Concentrate: Green fodder :: 40:60, 50:50, 60:40, 70:30) with 4% wheat flour or refined wheat flour as a binder. Based on pellet quality parameters (firmness, texture, consistency, binding, pelletability etc.), the Conc: Fodder ratio 60:40 was found optimal. Subsequently, 10% nutritionally rich Moringa leaves (~20% protein) were incorporated and a final formulation (Concentrate: Green fodder: Moringa :: 60:30:10) was developed and the nutrient utilization in growing Black Bengal goats was evaluated.



An in vivo study of 3 months was conducted on 15 Black Bengal goat kids (7.15 ± 0.48 kg; ~3 months old), randomly divided into three groups: T1 (mash feed, concentrate: IGFRI-6 green fodder, 60:40), T2 (pelleted TMR, 60:40), and T3 (pelleted TMR with Moringa, 60:30:10). Feed was offered at 4% body weight (DM basis). Dry matter intake (392–395 g/day) was similar across groups. However, body weight gain and average daily gain were significantly higher ($P < 0.05$) in T2 and T3, with the highest in T3 (total gain: 6.75 kg; ADG: 72.53 g/day),

followed by T2 (total gain: 5.87kg; ADG: 65.23g/day) and T1 (total gain: 5.08kg; ADG: 56.47 g/day). Feed efficiency also improved in pelleted and Moringa-enriched diets. Nutrient digestibility was also increased, while blood biochemical parameters remained normal, indicating no adverse effects on health of animals. Overall, pelleted TMR with Moringa improved growth, feed efficiency, reduced wastage (20–25%), and enhanced income potential in semi-intensive goat farming system.



Effect of composting on heavy metal content of water hyacinth-based compost

(Tanuja S.)

Water hyacinth is known to accumulate heavy metals, such as lead, zinc, cadmium, and chromium, from polluted water, with the highest concentrations often found in the roots. Studying heavy metal accumulation by water hyacinth for compost is crucial to prevent transferring toxins (Cd, Pb, Cu, Zn) from contaminated water bodies into soil and food chains, while leveraging its nutrient content as an organic fertilizer. The aim of this work was to evaluate the total content of heavy metals (As, Cr, Cd, Cu, Ni, Zn and Pb) during vermicomposting of Water hyacinth by *Eisenia*

fetida earthworm. The composting was process lasted for 60 days with the ratio of water hyacinth to cowdung of 3:2. Physicochemical p[profile like pH, EC, total nitrogen, phosphorus (P), Potassium, Calcium, organic carbon (OC) etc were analyzed using ICP-OES, along with concentrations of heavy metals such as Cd, Pb, Hg, Cu, Ni, Cr and Ar. Water hyacinth had fairly high concentration of nitrogen, Calcium and Potassium. Vermicompost prepared from water hayacinth had the following biochemical profile of 1.57% N, 0.86% P 0.5% K, pH of 6.6 and EC of 3.88(ms/cm).

Table 3: Composition of Water Hyacinth

Particulars	Concentration
Boron (ppm)	26.5
Calcium (ppm)	14399.1
Iron (ppm)	1636.06
Potassium (ppm)	6873.13
Magnesium (ppm)	3771.43
Manganese (ppm)	395.70
Molybdenum (ppm)	0.78
Sodium (ppm)	3729.1
Phosphorus (ppm)	2546.20
Zinc (ppm)	302.42
Org C (%) (ppm)	32.51
Total nitrogen (%)	2.1

As per the fertilizer Control Order (1985), The maximum limit permissible for different heavy metals are, Arsenic- 10ppm, Cadmium – 5ppm, Chromium- 50ppm, Copper-300ppm, Mercury- 0.15ppm, Nickel- 50ppm and Lead- 100ppm. Vermicomposting resulted in decrease in concentration of all the heavy

metals except copper. All the combinations of raw materials resulted in compost with heavy metal content with the tolerance limit except for Chromium and lead (Table). The most notable reduction was observed for the heavy metal Nickel.

Table 4: Heavy metal content in water hyacinth and water hyacinth vermicompost

Name of Heavy metal	WH	WH+CD
Cadmium (ppm)	0.14	0.75
Chromium(ppm)	41.175	33.91
Copper(ppm)	15.27	26.88
Lead(ppm)	2.05	5.76
Mercury(ppm)	-0.84	-0.98
Nickel(ppm)	3.85	-6.69
Arsenic(ppm)	-0.79	-0.36

WH- Water Hyacinth, WH+CD= Vermicompost prepared with 60% water hyacinth and 40% Cow Dung

IMPORTANT EVENTS

Celebration of Rashtriya Ekta Diwas

The ICAR-Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar, celebrated the *Rashtriya Ekta Diwas* also known as National Unity Day on 31 October 2025 to commemorate the 150th birth anniversary of Sardar Vallabhbhai Patel and to honour his pivotal role in fostering National Integration and Unity in India. On this occasion, day-long programme commenced with the administering the *Ekta Diwas* pledge by Hon’ble Secretary DARE and DG, ICAR through virtual mode. After the pledge taking ceremony, short videos on the theme “*Ek Bharat, Shreshtha Bharat*” were played for the staff members to underscores the importance of maintaining the sovereignty, peace and integrity of the nation, encouraging citizens to pledge their commitment to unity in diversity. Another video on the journey of Shri Sardar Vallabhbhai Patel

in the fight for national freedom and post freedom for unification of the country was shown to the staff to envision and understand the vision that inspired him to do what he had done. A Unity Walk was organized with all the staff members with sloganeering related to national unity to create awareness among general mass and the contributions of Sardar Vallabhbhai Patel towards this country. During the event in an elocution program was organized in which all the staff of the Institute participated and presented their thoughts on national unity, its importance and significance which was very much appreciable and also reflected the thoughts of the new generations towards India as a whole. The event was concluded with the remarks of the Dr. Mridula Devi, Director, ICAR-CIWA reflecting on ‘ONE NATION, ONE AGRICULTURE, ONE TEAM’.



Celebration of Rashtriya Mahila Kisan Diwas

ICAR-Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar in collaboration with Extension Division, Department of Agriculture and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, Govt. of India celebrated "Rashtriya

Mahila Kisan Diwas" with the theme "Empowering Women Farmers for Prosperous Nation" on 15th October 2025 with great enthusiasm to honour the vital contributions of women farmers in Indian agriculture. The event witnessed the gracious presence of Shri Shivraj

Singh Chouhan, Hon'ble Union Minister of Agriculture and Farmers Welfare through virtual mode, who addressed the gathering and highlighted the pivotal role of women in ensuring national food and nutritional security. Dr. Mridula Devi, Director, ICAR-CIWA, welcomed the dignitaries and participants, underscoring the institute's pivotal role in developing gender-responsive technologies, capacity-building programs, and livelihood models for women farmers across the country. She further emphasized that this celebration is an opportunity to acknowledge their hard work, innovation, and resilience in transforming rural livelihoods. Dr. Rajbir Singh, Deputy Director General (Agricultural Extension) ICAR, New Delhi in his address, appreciated the vital role of women in agriculture and allied sectors. He emphasized on govt. policies & schemes for women farmer's welfare, science based empowerment of women farmers through women friendly tools and gender responsive technologies, skill development, and institutional support to enhance productivity and livelihoods. The event also witnessed the presence of Dr. Bimlesh Mann, Former ADG, ICAR (New Delhi) and Smt. Raimati Ghiuria, Millet Queen of India. During the occasion Progressive women farmers of ICAR-CIWA interacted and shared their experiences and

journey of success with Shri, Sanjay Kumar Agrawal, Joint Secretary (Extension), Ministry of Agriculture and Farmers Welfare, Govt. of India and Dr. Shailesh Kumar Mishra, Director (Extension), Extension Division, DAF&W, Ministry of Agriculture and Farmers Welfare, Govt. of India, New Delhi.

Several progressive women farmers were felicitated for their outstanding contributions to agriculture and allied sectors. A Scientist–Farmer Interaction Session was organized focusing on key topics such as Scientific Crop Production and Animal Husbandry Practices, Principles and Practices of Natural Farming, GST Reduction Benefits to Farmers and Schemes for welfare of farmers. An exhibition on the theme "SheShakti in Krishi" showcasing gender responsive technologies, innovative women friendly farm tools, and women-led agri-enterprises was organized as part of the Mahila Kisan Diwas celebration. It highlighted the achievements and innovations of farm women and demonstrated technologies developed by ICAR-CIWA for enhancing their livelihood opportunities. The celebration witnessed enthusiastic participation of more than 250 farm women, besides public representatives, students and staff of the institute.





ICAR-CIWA organized Live Webcast Programme of PM Kisan Samman Nidhi

ICAR–Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar organized the live webcast of PM Kisan Samman Nidhi, 21st Installment Release Event by the Hon’ble Prime Minister on 19 November 2025. The PM-KISAN Yojana, a Central Sector Scheme launched on 24 February 2019 to provide financial assistance to all landholding

farmer families, extends a minimum income support of ₹6,000 per year, released in three installments of ₹2,000 each. The event aims to create awareness about the benefits of PM-KISAN and reinforce the Government of India's commitment to ensuring timely income support to farming households. More than 300 women farmers besides public representatives and staff of the institute participated in the event.

The programme was graced by the presence of Shri H. D. Kumaraswamy Ji, Hon'ble Minister of Heavy Industries and Steel, Govt. of India, who addressed the gathering and emphasized the crucial role of farmers, particularly women in strengthening India's agricultural system. In his address, the Hon'ble Minister highlighted the government's dedicated efforts to empower small and marginal farmers through direct benefit transfers, capacity-building initiatives, and improved access to technology and

resources. Dr. Mridula Devi, Director, ICAR-CIWA underlined the importance of integrating women into mainstream development programmes, recognizing their vital role in agri-food system and rural entrepreneurship. She encouraged the women farmers to join hands in adopting improved practices, boosting productivity, and fostering a resilient and progressive farming community. A Scientists-Women Farmers Stakeholders Meet was also organized on the potential benefits of the scheme for women farmers, principles and practices of natural farming, improved package of practices for major rabi crops, crop residue management and GST reduction advantages for farmers. The event concluded with a vote of thanks, expressing gratitude to the Hon'ble Prime Minister for Government's continued commitment to farmer welfare, rural development, and agricultural prosperity.





Celebration of Kisan Diwas

The ICAR–Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar celebrated “Kisan Diwas” on 23 December 2025 to commemorate the birth anniversary of former Prime Minister of India, Late Shri Chaudhury Charan Singh Ji, to honour the contribution of farmers to the nation’s food security and to highlight the significant role of women in agriculture. On the occasion, an awareness programme on the “Viksit Bharat-Guarantee for Rozgar and Aajeevika Mission” VB-G RAM G-2025, was also organized at ICAR-CIWA. This is an act to establish a rural development

In his address, Shri Shivraj Singh Chouhan Ji, the Hon’ble Union Minister of Agriculture and Farmers’ Welfare, GOI lauded the dedication and hard work of farmers and reiterated the Government’s commitment to their welfare through income enhancement initiatives, climate-resilient technologies, digital agriculture, and inclusive policies, while encouraging the adoption of sustainable practices to ensure national food security and rural prosperity. Anchored in the principles of empowerment, growth, convergence, and saturation, the VB-G RAM G-2025 Act aims to transform rural employment from a standalone welfare measure into a comprehensive instrument of integrated development, the Union Minister of Agriculture and farmer welfare said. Shri Bhagirath Choudhary Ji, the Hon’ble Minister of State for Agriculture & Farmers Welfare, GOI in his address emphasized that the act will help in modernize and strengthen the framework for rural livelihood security and every farmer who works

framework aligned with the national vision of Viksit Bharat @ 2047, by providing a statutory guarantee of 125 days of Guaranteed Wage Employment in every financial year to every rural household whose adult members volunteer to undertake unskilled manual work; to promote empowerment, growth, convergence and saturation for a prosperous and resilient rural Bharat. The celebration witnessed enthusiastic participation of more than 500 women farmers, entrepreneurs, FPO and SHG member besides public representatives, students and staff of the CIWA.

tirelessly in the fields, often facing erratic weather, fluctuating markets, and challenging times will also be benefitted. Dr. Mridula Devi, Director, ICAR-CIWA, in her Address, acknowledged vital contribution of farmers to national food security and livelihoods, emphasizing the importance of scientific farming, climate-resilient technologies, and women’s empowerment, and reaffirmed the Institute’s commitment to strengthening research, extension, and capacity building for sustainable and inclusive agricultural development. The Director further emphasized that the G-RAM G Bill marks an important step towards strengthening rural livelihoods by ensuring enhanced employment opportunities, creating durable assets, and promoting inclusive rural development. On this occasion, a Farmer–Scientist Interaction Meet was also organized at the Institute to create awareness about the women friendly technologies and various Govt. Schemes and policies in agriculture and allied sectors.



Research Advisory Committee (RAC) Meeting

The 25th Meeting of Research Advisory Committee (RAC) of ICAR-Central Institute for Women in Agriculture was organized (hybrid mode) on 19-20 December 2025. The meeting was chaired by Dr. (Prof.) Aparajita Chowdhury, Former Vice-Chancellor, Rama Devi Women's University, Bhubaneswar. Dr. Mridula Devi, Director, ICAR-CIWA welcomed the dignitaries and highlighted the ongoing research and technological development at ICAR-CIWA. She also explained the extension activities of the Institute empowering women farmers/ rural women in convergence with various institutes and organizations. The Chairperson, RAC, emphasized the need to focus on the rapid feminization of agriculture by identifying key thrust areas and addressing systemic barriers that limit agricultural productivity, particularly those related to women's access to resources. Farm women mainstreaming in Indian agriculture is fundamental for achieving the 2030 Sustainable Development Goals (SDGs).

It was further suggested that CIWA adopt a holistic approach to issues of migration, household investment, technology adoption, and women's empowerment, integrating teaching, training, and counselling of farm women. The RAC members advised the scientists that research studies should be women-centric and focused on specific gender dimensions following the appropriate methodology with measurable impact. The Research Advisory Committee (RAC) appreciated the ongoing work of the Institute and advised the scientists to strengthen institutional linkages and partnerships with other organizations to promote in-depth research on gender issues in agriculture and to enhance the wider dissemination of women-friendly technologies. Dr. Mridula Devi, Director, ICAR-CIWA expressed her sincere gratitude to the Hon'ble Chairperson and all the members of RAC for the extensive discussion on research activities of ICAR-CIWA.





MINOR EVENTS

ICAR-CIWA organized a Three Days Skill Development Programme on “Marketing of Agri-Food Products”

In a bid to enhance marketing skill, product packaging and labelling, business plan and strategies to the SHGs/FIGs/FPO, a three Days Skill Development Programme on “Marketing of Agri-Food Products” was organized in the Institute during 23 -25 October 2025. The training programme was aimed to provide hands on interactive training on quality regulations & certification of Agri-produce & products, product packaging and labelling, Markets identification, product marketability, e-marketing through ICT approaches, market risks and associated strategies, resource mapping & business planning for entrepreneurship development, technical guidance, exploring promotional strategies

(advertising, public relations, and content marketing) for better marketability, Improving customers’ engagement, cost-effective marketing and global expansion of food products etc. About 25 women from different SHGs/FPOs covering three districts (seven blocks) were participated the programme. Lectures were delivered by professors from renowned management Institutions like Xavier Institute of Management (XIM) and Kalinga Institute of Industrial Technology (KIT), Bhubaneswar as well as expert from professional society who have imparted effective knowledge/thought and shared their experience on successful women entrepreneurs across the rural India. Dr. Pradeep Mishra,

Associate Professor, Rural Management, XIMB, delivered a lecture on markets identification, mapping of resources and business planning for entrepreneurship development, identification, assessment and mitigation of potential risks associated with product marketing. Dr. Mousumi Padhi, Associate Dean, HRM/Content development & promotion, XIMB elaborated on exploring promotional strategies for better marketability of products. Dr. Subhra Pattnaik, Associate Professor, HRM/E-commerce/ICT application explained how to improve customers' engagement, work space management, cost-effective marketing and global expansion of food products through ICT approaches. Dr. M P Nayak, Professor, OUAT, Bhubaneswar in his lecture briefed on quality regulations & certification of Agri-produce & products, FSSAI regulations, food products order, equipment selections and sanitation, phytosanitary measures and urged trainees for complying to necessary guidelines for products development for a commercial start-up activity. Dr. Damodar Jena Professor, Rural Management, KIIT, Bhubaneswar shared his ideas on cost-economics, business planning for sustainable environmental friendly production. His experience on how a small innovation in packaging has a dramatic effect on product marketability is really commendable. Mr.

Barna Baibhaba Panda, The Livelihood School of BASIX and Foundation for Ecological Security (FES), Bhubaneswar shared his experience on effective marketing strategies of Agri-food products for FPOs and SHGs in rural India. It was an eye-opener for the trainees that may certainly boost their products to the higher scale of marketing instead of selling to the local market. Mr. P. K Nayak, MBA (Finance) and Finance & Accounts Officer (FAO) ICAR-CIWA gave an theoretical exposure to financial management for cost-effective production, profitability, record maintaining, associated bankable features on business process, price fixation & Break Even Point (BEP) analysis etc. In addition to this, the trainees were exposed to Agri-business Incubation (ABI) centre and bakery unit where practical demonstration on product novelty, packaging and labelling was also imparted to them. Dr S. Swain, Sr. Scientist and the Course Co-ordinator and Er P. K. Rout, Tech Officer, the course facilitator rendered ideas on work space management and how to maintain the hygienic of the food products. All the lectures were very much interesting with case studies and group discussion for products promotion where trainees were interacted with experts to solve their respective problems associated with labelling and marketing and has shown their keen interest to enhance their business process.



ICAR-CIWA establishes a Women-led Bio-input Resource Production Unit to promote She-preneurship in Natural Farming in Rural Agro-ecosystem

ICAR-Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar, has taken a pioneering step towards empowering farm women by establishing a Women-led Bio-input Resource Production Unit at Champapedi in Ranapur block of Nayagarh district of Odisha. This initiative is part of the Institute's

continuous efforts to promote Natural and Organic farming practices while simultaneously strengthening women's entrepreneurship and self-reliance in rural areas. The unit has been developed with the active participation of more than 50 farm women, who have come together to form a Farmers' Interest Group (FIG) named

‘Ranapur Organics’ under the ongoing project ‘*Development of Horticulture-based Chemical-free Farming Model for Entrepreneurship Development and Strengthening Self-Reliance among Farm Women*’. Through this collective endeavor, the group aims to produce and supply a range of quality bio-inputs that are critical for sustainable farming. These include: Jeevamrut (a liquid bio-fertilizer prepared from cow-based products and natural ingredients), Ghanajeevamrut (a solid form of Jeevamrut for easy application), Mixed residue vermicompost (produced from farm residues for soil enrichment) and *Handi Khata* (an indigenous pot-based bio-formulation for plant protection). The establishment of this unit will address major challenges faced by farmers in the region, namely the timely and affordable availability of authentic bio-inputs. By ensuring a local and reliable supply, the initiative is expected to reduce farmers’ dependence on chemical inputs

and encourage them to adopt natural farming practices more effectively. To strengthen the capacities of women farmers, ICAR-CIWA also organized a three-day hands-on training and skill development programme on ‘*Natural Farming-based Bio-input Resource Production*’ from 27-29 November 2025 at the unit. The programme was coordinated by Dr. Ankita Sahu, Scientist, ICAR-CIWA, and focused on scientific methods of preparation, quality maintenance, packaging, and marketing strategies for bio-inputs. This initiative holds multiple benefits in terms of women Empowerment and entrepreneurship development as the unit will function as a model of ‘She-preneurship in Natural Farming’ in the rural ecosystem. The unit will also serve in a broader term towards sustainable farming and contribute to the vision of *Atmanirbhar Krishi* (self-reliant agriculture).





Celebration of Agricultural Education Day

ICAR-Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar celebrated the Agricultural education day on 3 December 2025 to commemorate the birth Anniversary of Dr. Rajendra Prasad, the first President of Independent India and the first Union Minister of Agriculture. The event aimed to raise awareness among school children and youth about the vital role of agriculture in the nation's economic and social development. The programme was organized at Government Upper Primary School, GarhMalipada, Bhubaneswar. The programme witnessed enthusiastic participation of 50 students and faculty members. The initiative focused on inspiring young minds to explore agriculture as a promising career option by introducing them to various professional opportunities available

in the field. Students were informed about ICAR Institutes and State Agricultural Universities across India that offer comprehensive education in agriculture and allied sciences. The event highlighted modern agricultural trends such as drone technology for precision farming, hydroponic systems for soil-less cultivation, organic farming for sustainable agriculture, and biofloc systems for innovative aquaculture practices. It also emphasized the significance of balanced nutrition and food security, educating the students on the role of millets as 'superfoods' and the benefits of nutri-gardens in promoting dietary diversity and health. The students gained valuable insights into the potential of agriculture through discussions and interactions.



Celebration of Women in Agriculture Day

ICAR-CIWA, Bhubaneswar celebrated 'Women in Agriculture Day' on 4 December 2025 at Radho village under Bhandaripokhari block of Bhadrak District, Odisha. The day was embarked by various activities with farm women, aimed at recognizing the efforts of women farmers in the agricultural sector highlighting their essential roles in food security, sustainable farming practices, and rural development. With agriculture being the primary livelihood for most families in the area, the programme served as a reminder of the challenges women face in the field and their resilience in overcoming them. In this programme it was also discussed about the need for advanced technology, women-friendly tools which impact their day-to-day livelihoods by increasing the production and productivity. A sensitization programme on various women-centric schemes of NABARD was discussed Mr Rajib Kumar, Lead District Manager and Mr Deepak Kumar Sahoo, District Development Manager, NABARD, Bhadrak. The programme was attended by Shri Ranjan Kumar Parida, Sarpanch; Panchayat Representative, Personnel from NGO, FPO, SHGs and other line

departments and more than 200 women farmers. The programme was organized in coordination with Kalathakura Farmer Producer Company Ltd. with the leadership of Mrs. Mamata Samal, which is active in the region and has many Self-Help Groups under its wings thus creating opportunities for women to improve socially, technologically and economically through various agricultural activities. The vegetable seed kits were provided to women farmers by ICAR-CIWA to promote nutri-farming for better livelihood and family nutrition. Few progressive women farmers shared their issues and experiences in the field of agriculture and allied sectors. A field visit was also organized to showcase the high-value vegetable crops being cultivated by the women farmers. The celebration reinforced the message that empowering women farmers with knowledge, technology and financial access not only uplifts individual households but also strengthens the agricultural fabric of the entire region. ICAR-CIWA remains committed to continuing such initiatives that celebrate and advance the role of women in agriculture.



Celebration of World Soil Day

ICAR-Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar celebrated World Soil Day 2025 on 5 December 2025 with the global theme 'Healthy Soils for Healthy Cities.' The programme aimed to create awareness among farm workers about the importance of soil health in ensuring sustainable agricultural production and environmental stability, particularly in the rapidly expanding urban and peri-urban landscapes. The event began with an address by Dr. Mridula Devi, Director, ICAR-CIWA, who sensitized the gathering about the significance of observing World Soil Day and the need to protect soil-the most fundamental natural resource for agriculture and human wellbeing. She emphasized the importance of Soil Health Cards, balanced nutrient management, and sustainable crop production practices, highlighting how these approaches support soil fertility, enhance productivity, and contribute to long-term ecological balance. As part of the programme, the participants were provided with hands-on demonstrations on the scientific method of collecting a representative soil

sample from the field, followed by a practical session on the rapid assessment of basic soil chemical properties such as pH and electrical conductivity (EC) using a portable soil testing kit. These demonstrations helped the farm workers understand how timely and accurate soil testing can guide the judicious application of nutrients and improve soil health management. The gathering was further sensitized about the growing importance of healthy soils in urban areas, where increasing pressure on land demands sustainable practices to maintain productivity and resilience. The programme highlighted how healthy soils contribute to improved crop yields, reduced environmental degradation, and better livelihood opportunities for urban and peri-urban farmers. The celebration concluded with a call to adopt soil-friendly and climate-resilient farming practices for conserving soil resources for future generations. The event successfully reinforced the message that soil health is central to sustainable development and that collective efforts are essential to protect this precious resource.



MAJOR PROGRAMMES

SCSP

The Scheduled Castes Sub Plan (SCSP) is a focused developmental initiative aimed for techno-socio-economic empowerment of Scheduled Caste (SC) communities. During the period from October to December 2025, different capacity-building programmes were successfully organized, benefiting a total of 80 SC farm women. One of the key components included intensive training on the scientific rearing of poultry birds and tailoring and handicrafts. These interventions were specifically aimed at enabling women to establish sustainable, low-investment livelihood options and generate regular supplementary income. In addition to training, the distribution of essential agricultural tools, implements solar dryer were given to farm women in Puri district significantly enhanced their operational efficiency and reduced the burden of manual labour. These inputs facilitated timely farm operations and encouraged the adoption of improved cultivation practices. Collectively, these interventions have played a vital role in empowering SC rural women by promoting livelihood diversification, strengthening their economic independence, and fostering the adoption of sustainable, climate-resilient farm-based enterprises.

Custom Hiring Centres established under SCSP

- Established Custom Hiring Centre for ‘Farm Equipment & Tools’ at Mota, Brahmagiri, Puri, on 06 November 2025. (CIWA-Saktimayee Mahila Vikas Samiti)
- Established Custom Hiring Centre for “‘Farm Equipment & Tools’ at Mota, Brahmagiri, Puri, on 06 November 2025. (CIWA- Harachandi Mahila Vikas Samiti)
- Established Custom Hiring Centre for “‘Farm Equipment & Tools’ at Mota, Brahmagiri, Puri, on 06 November 2025. (CIWA-Matrusakti Mahila Vikas Samiti)

TRAINING PROGRAMS CONDUCTED UNDER SCSP

S. No.	Programme	Location	Duration	No. of participants	Coordinator/ Team
1.	Skill building programme on Tailoring and Handicrafts	Mota, Brahmagiri, Puri	6-8 Nov. 2025	30	Dr. Ananta Sarkar Mr. B. C. Behera
2.	CBP on Scientific rearing of poultry birds for Higher Income	Benipur, Gop block Puri	21 Nov. 2025	50	Dr. A. K. Panda

TRAINING PROGRAMS CONDUCTED UNDER TSP

S. No.	Programme	Location	Duration	No. of participants	Coordinator/ Team
1.	Workshop-cum-Training Programme on Sustainable Aquaculture and Livestock Management	ICAR-CIWA	24 Oct.2025	27	Dr. Tanuja S., Dr. Arpita Mohapatra, Mr. S. K. Behera
2.	Field day cum Training programme is planned under Tribal Sub Plan on	Gunduchipasi village, Sukinda block, Jajpur	30 Oct.2025	30	Dr. Arpita Mohapatra
3.	Celebration of Janajatiya Gaurav Varsh Pakhwada	Rayagada Khordha	1-15 Nov. 2025	452	Dr. L. P. Sahoo
4.	Capacity Building Program on “Empowerment of Tribal Women through Enterprise based Agri-Ventures	Mahisagotha and Kharamangi villages, Badachana Block, Jajpur District	10-12 Nov. 2025	30	Dr. Lipi Das
5.	Awareness generation on Nutri sensitive agricultures and inputs distribution for establishment of nutri gardens under (TSP)	Koraput Rayagada Malkangiri	2 Dec 2025 3 Dec 2025 4 Dec 2025 5 Dec 2025 6 Dec 2025 7 Dec 2025 8 Dec 2025 10 Dec 2025 16 Dec 2025	540	Dr. Gayatri Moharana Dr. Ananta Sarkar

SWACHH BHARAT

Swachh Bharat Abhiyan

As part of *Swachhotsav* 2025, a series of nationwide cleanliness and community-engagement activities were conducted from 17 Sep. to 2 Oct. 2025 to strengthen the spirit of Swachh Bharat and promote sustainable, people-led sanitation practices. The fortnight-long observance featured a wide spectrum of initiatives including Swachhata pledges, transformation of Cleanliness Target Units, and creative competitions across schools and Anganwadi Centres to involve youth and

children. Awareness programmes such as Swachh Sujal Gaon, Waste to Art, Clean Street Food demonstrations, and outreach campaigns were organised with active support from SHGs. Special focus was given to Safai Mitra Suraksha, with health camps, welfare linkages, PPE distribution, and registration drives to ensure the safety and well-being of sanitation workers. Community mobilisation activities such as human chains, Mission LiFE events, eco-friendly Clean Green Utsav celebrations, cleanliness drives at tourist and religious sites, and the nationwide 'Ek Din, Ek Ghanta, Ek Saath' Shramdan on 25th September brought citizens together in large numbers. The observance also highlighted innovation under SBM, Waste to Art initiatives, and awareness rallies, reinforcing collective responsibility toward cleanliness, dignity of labour, and environmental sustainability.



Swachhata Pakhwada

A series of intensive activities were successfully organized across all eleven ATARIs and ICAR–CIWA during the Swachh Bharat Pakhwada from 16 to 31 December 2025, aimed at promoting cleanliness, sanitation, and sustainable practices. The programme commenced with the Swachhta Pledge Day, followed by thematic awareness campaigns, training programmes, cleanliness drives, record weeding, plantation activities, and community outreach initiatives in villages, institutions, and public spaces. Special emphasis was given to waste management, recycling, reduction of single-use plastics, and

adoption of eco-friendly technologies. Activities such as Kisan Diwas celebration, drawing competitions for school children, signature campaigns, plogging events, and Swachhta rallies ensured active participation of farmers, farm women, youth, and local communities. The involvement of VIPs and media further strengthened outreach and visibility. In total, 1,149 participants actively engaged in the programme, with participation of 18 dignitaries, reflecting strong collective commitment towards the Swachh Bharat mission and fostering long-term behavioral change for a cleaner and healthier environment.



HUMAN RESOURCE DEVELOPMENT

Training/ Seminar/ Symposium /Workshop organized

- Dr. Lipi Das and Dr. B. Sahoo attended the Master Trainers Program under Rashtriya Karmayogi Jan Seva Program Phase II (Zone 1) during 06-08 October, 2025 at ICAR-CIAE, Bhopal.
- Dr A. K. Panda attended VII Annual Convention and National Conference of National Academy of Veterinary Nutrition and Animal Welfare at NIANP Bengaluru during 16-17 October 2025.
- Dr A. K. Panda attended Online Workshop on Digital Public Infrastructure & Digital solutions in Agriculture: Fostering Efficiency Inclusion and Food Security on 21 Oct 2025.
- All the scientist of the Institute attended the Seminar talk during Vigilance Awareness Week-2025 at ICAR-CIWA on 28 Oct. 2025.
- Dr Tanuja S attended the meeting on ‘Internal Audit of Food testing Lab’ at ICAR-CIWA on 28 Oct. 2025.
- Dr A. K. Panda and Dr Tania Seth attended the International Symposium on SHREE ANNA & WOMEN FARMER 2025 by Govt. of Odisha, Bhubaneswar at State Convention Centre, LokaSeva Bhavan, Bhubaneswar on 10 Nov 2025.
- Dr Lipi Das attended the International Symposium on SHREE ANNA & WOMEN FARMER 2025 by Govt. of Odisha, Bhubaneswar at State Convention Centre, LokaSeva Bhavan, Bhubaneswar on 11 Nov 2025.
- Dr. P. Jakhar attended National Roundtable of Informal Sector Women Workers and their Contributions, Innovation towards Strengthen Indian Agriculture and Climate Action at India International centre, New Delhi during 11-13 Nov 2025.
- All the scientist of the Institute attended the Interaction Meeting with Hon’ble ADG (Agril. Extension) at ICAR-CIWA on 14 Nov 2025.
- Dr Gayatri Moharana attended the Meeting for finalization of draft test code for Women Centric Ergonomic Testing at SLFMTTC, Baramunda, Bhubaneswar on 17 Nov 2025.
- All the scientist of the Institute attended the 20th instalment of the Pradhan Mantri Kisan Samman Nidhi (PM-Kisan) Scheme at ICAR-CIWA on 19 Nov 2025.
- Dr Lipi Das attended the 2nd International Extension Education Congress-2025 on Rethinking Social Ecology in a Digital Landscape, organized by SEE, Agra at SOA, Bhubaneswar during 24-26 Nov. 2025.
- All the scientist of the Institute attended the Seminar on “Constitutional Empowerment of Women: A Journey—from Fundamental Rights to Contemporary Reforms” under 76th Constitution Day at ICAR-CIWA on 26 Nov 2025.
- Dr. Tanuja S. and Dr. Arpita Mohapatra attended the Virtual Training on Laboratory System and Internal Audit as per ISO/IEC 17025:2017 by Training and Capacity Building (TCB) Division, NABET, Quality Council of India during 26-28 Nov 2025.
- Dr. Gayatri Moharana attended the Inauguration of Gender Responsive cell Organized by Govt of Odisha at Krushi Bhawan, Bhubaneswar on 29 Nov 2025.
- Dr A. K. Panda attended XXXX Annual Conference and National Symposium of Indian Poultry Science Association at PJTSAU, Rajendranagar, Hyderabad during 9-11 Dec 2025.
- All the scientist of the Institute attended the Online Interaction meeting by Secretary, DARE & DG, ICAR at ICAR-CIWA on 8 Dec. 2025.

- All the scientist of the Institute attended the Hindi Timahi Karyashala at ICAR-CIWA on 12 Dec. 2025.
- All the scientist of the Institute attended the 25th RAC meeting at ICAR-CIWA during 19-20 Dec 2025.
- Dr. Tanuja S. attended the International Conference on Modern Agriculture and allied sciences (ICMAAS-2025) by Society for agriculture, allied sciences and technology, Odisha, Uttar Nanga Krishi Viswavidyalaya, Cooch Behar, West Bengal Department of Agricultural Engg., Faculty of Agricultural Sciences, Rajiv Gandhi University, Arunachal Pradesh during 20-21 Dec 2025.

EXTENSION ACTIVITIES

Training, Workshops, Demonstrations, Field Day & Awareness Programmes

S. No.	Programme	Date	Venue	Participants		Nodal officer/ Team
				Women	Men	
1.	Technology Demonstration during “Mahila Kisan Divas”	15 Oct. 2025	ICAR-CIWA	200	0	Dr. S. Swain Er. P.K Rout
2.	National level awareness campaign on “Accidents due to trailers carrying human and other farm machines”	16 Oct. 2025	Kumareswara village, Puri,	40	0	Dr. S. Swain
3.	Three day capacity building programme on “Testing and validation of Power operated coconut dehusker”	16-18 Oct. 2025	Siriyapur, Puri	50	0	Dr. S. Swain Er. P.K Rout
4.	Three day capacity building programme on “Marketing of Agri-food products”	23-25 Oct. 2025	ICAR-CIWA	25	0	Dr. Mridula Devi Dr. S. Swain Er. P.K Rout
5.	Training on “Fodder Promotion for improving livestock Productivity” to Paravets & Fodder Officers, Govt. of Odisha in collaboration with VOTI, FARD, Odisha under Mukhya	28-31 Oct. 2025	ICAR-CIWA	14	18	Dr. B. Sahoo Dr. D.N Sarangi

	Mantri Kamdhenu Yojana					
6.	Nutritionally Balanced Homemade Compound Feed: Preparation and Effect on Milk Production in Dairy cow	31 Oct. 2025	Taltamal and Kajipatna, Puri, Odisha	20	0	Dr A. K. Panda
7.	Training & Demonstration of AH activities and field visit	08 Nov. 2025	Pathargadia, Khordha	25	0	Dr. B. Sahoo Dr. Avijit Haldar
8.	Training on “Fodder Promotion for improving livestock Productivity” to Paravets & Fodder Officers, Govt. of Odisha in collaboration with VOTI, FARD, Odisha under Mukhya Mantri Kamdhenu Yojana	11-14 Nov. 2025	ICAR-CIWA	32	0	Dr. B. Sahoo Dr. D.N Sarangi
9.	One Day Training Programme cum Exposure Visit of Women Farmers from Pani Panchyats of JICA Assisted Rengali Irrigation Project (Phase-II)	17 Nov. 2025	ICAR-CIWA	50	0	Dr P. Jakhar
10.	One Day Training Programme cum Exposure Visit of Women Farmers from Pani Panchyats of JICA Assisted Rengali Irrigation Project (Phase-II)	18 Nov. 2025	ICAR-CIWA	45	0	Dr P. Jakhar
11.	Two days Skill based Training cum Demonstration Programme on “Mushroom Farming Techniques”	17-18 Nov. 2025	ICAR-CIWA	7	0	Dr. Tania Seth
12.	Training & demonstration on Fodder and Nutrition management of	24 Nov. 2025	ICAR-CIWA	40	0	Dr. B. Sahoo Dr. D.N Sarangi

	livestock sponsored by Heifer International, Mayurbhanj, Odisha					
13.	Training on “Fodder Promotion for improving livestock Productivity” to Paravets & Fodder Officers, Govt. of Odisha in collaboration with VOTI, FARD, Odisha under Mukhya Mantri Kamdhenu Yojana	25-28 Nov 2025	ICAR-CIWA	33	0	Dr. B. Sahoo Dr. D.N Sarangi
14.	Establishment of Women-led Bio-input Resource Production Unit & 3 days CBP on Natural farming based bio-input preparation	27-29 Nov. 2025	Champapedi, Ranapur, Nayagarh	50	0	Dr. Ankita Sahu
15.	Climate Resilient Livestock Practices for Empowering Women Farmers	29 Nov. 2025	Mamdapur & Kathakoth, Kujanga, Jagatsinghpur	60	6	Dr. A. K. Panda
16.	Interaction-cum-Awareness Meeting on Conservation Agricultural Practices	01 Dec. 2025	Tarajodi, Shamakhunta, Mayurbhanj	115	0	Dr. S.K. Sarangi
17.	One Day Training Programme cum Exposure Visit of Women Farmers from Pani Panchyats of JICA Assisted Rengali Irrigation Project (Phase-II)	01, 02, 08-12 & 22 Dec. 2025	ICAR-CIWA	500	0	Dr. Praveen Jakhar
18.	Climate Resilient Livestock Practices for Empowering Women Farmers	3 Dec 2025	Talatamal & Kajipatna, Nimapara, Puri	60	0	Dr. A K Panda
19.	Training on “Fodder Promotion for	02-05 Dec 2025	ICAR-CIWA	32	0	Dr. B. Sahoo Dr. D.N. Sadangi
20.	improving livestock Productivity” to	09-12 Dec 2025		32	0	
21.	Paravets & Fodder Officers, Govt. of Odisha in collaboration	16-19 Dec 2025		31	0	

	with VOTI, FARD, Odisha under Mukhya Mantri Kamdhenu Yojana					
22.	Frontline Demonstration on Biofertilizer and Jeevamrut application for sustainable vegetable production	16 Dec 2025	Champapedi, Ranapur, Nayagarh	35	0	Dr. Ankita Sahu
23.	Frontline Demonstration on Biofertilizer and Jeevamrut application for sustainable vegetable production	24 Dec 2025	Aitalanga, Balipatna, Khordha	35	0	Dr. Ankita Sahu
24.	Operation And maintenance of primary and secondary processing machineries	26 Dec 2025	Golabandha, Keonjhar	50	0	Dr S. Swain
25.		27 Dec 2025	Jogiabadha, Keonjhar	55	0	
26.		28 Dec 2025	Narsinghpur, Keonjhar	50	0	

TECHNOLOGY COMMERCIALIZED

S. No.	Technology Commercialized	Date of Commercialisation	Agency/ Buyer Details
1.	Process for Eco Gulal (Palampur Center)	16 Dec. 2025	Smt. Reeta Devi, Tumber, Lambagaon, Himachal Pradesh, 176096
2.	Process for Finger millet based Nutri Pinni (Palampur Center)	16 Dec. 2025	Smt. Prerna Samooh, Vill-Dul Jogindernagar, Dsitrict-Mandi, Himachal Pradesh, 176120
3.	Process for Mineral and fiber rich finger millet cookies (Palampur Center)	16 Dec. 2025	Rajesh Bakery, Vill & P&O Mahadev, Block-Sundernagar, Dsitrict-Mandi, Himachal Pradesh, 176120

4.	Process for Low GI Diabetic-Friendly Multigrain Nutri Mix (Palampur Center)	16 Dec. 2025	BOX AND POTS®, Village-Ambari PO-Malan Tikka Panther Tehsil-Nagrota Bagwan, Kangra-176047
5.	Waste Fabric Upcycling-Bag Making (Design) (Palampur Center)	16 Dec. 2025	Smt. Bimla Devi, Majhera Mahila Mandal, Majhera, Lambagaon, Himachal Pradesh, 176076
6.	Women Friendly Handy Hoe (Palampur Center)	16 Dec. 2025	Agri Tools Manufacturing Unit, Distt-Mandi, Himachal Pradesh - 175001
7.	Women Friendly 5 Tine Weeder (Palampur Center)	16 Dec. 2025	Agri Tools Manufacturing Unit, Distt-Mandi, Himachal Pradesh - 175001

PUBLICATIONS

A. Research Papers

1. Shastri J., Babu L.K., Panda A.K., Panigrahi B., Mishra S.K. and Babu R.N. (2025). Effect of dietary supplementation of antimicrobial peptide on production performance, egg quality and serum biochemical parameters of laying hens. *Asian Journal of Dairy and Food Research* 44(2): 326-331.
2. Mundrathi H., Babu L.K., Panda A.K., Panigrahi B. and Mishra S.K. (2025). Evaluating bacteriophage inclusion as a strategy to enhance layer production efficiency. *International Journal of Advanced Biochemistry Research* 9(7): 659-661.
3. Gaydon D.S., Sarkar S., Mainuddin M., Barrett-Lennard E.G., Bell R.W., Brahmachari K., Maniruzzaman Md, Maji B., Rahman M.A., Kabir M.E., Rashid M.H., Khan M.S.I., Shahadat M.K., Sarker K.K., Glover M.R., Sarangi S.K., Chaki A.K., Burman D., Hossain M.B., Mandal U.K., Biswas J.C., Yesmin M.S., Paul P.L.C., Kabir M.J., Mahanta K.K., Kundu P.K. and Nanda M.K. (2025). Achieving the once-unthinkable: Successful Rabi cropping via technology integration in coastal saline Bengal. *Agricultural Systems* 231 (2026) 104539. <https://doi.org/10.1016/j.agsy.2025.104539>.
4. Jakhar P., Rawat I., Sarangi S.K., and Devi M. (2025). Farm women empowerment in watershed development programmes: An empirical impact analysis. *International Journal of Agriculture Extension and Social Development* 8(12): 118-122.

<https://www.doi.org/10.33545/26180723.2025.v8.i12b.2734>.

5. Sarangi S.K. and Mridula D. (2025). Gender-inclusive approaches for

livelihood diversification and socio-economic resilience in agriculture. *Indian Journal of Agronomy* 70 (6th IAC Special Issue 2025): S220-S234. DOI: 10.59797/ija.6iac.spl.5650..

B. Books

1. Mridula Devi, Ananta Sarkar, Bimlesh Mann and Joykrushna Jena. (2025). ICAR Gender Strategy for National Agricultural Research, Education and Extension System. Directorate of Knowledge Management in Agriculture (DKMA), Indian Council of Agricultural Research, New Delhi. ISBN: 978-81-7164-304-2. pp. 1-44.

2. मृदुला देवी, प्रवीण जाखड़, अर्पिता महापात्रा और नीतीश कुमार 2025. “सशक्ति- कृषिरत महिला दर्शिका”, वर्ष 3- अंक 1 (Jan-June 2025), कुल पृष्ठ: 1-116.

C. Chapters in Book/ Training Compendium

1. Das Lipi and Srivastava Diksha (2025). Agricultural Innovations and Strategic Approach for Gender Mainstreaming in Agriculture. Published in E-book ‘Gender Mainstreaming in Agriculture’. (ISBN Number: 978-81-19663-32-3): pp. 8-24.
2. Mandal U.K., Ramesh V., Mal S., Lama T.D., Sarangi S.K., Mullick S. Ghosh A., Nayak D.B. and Burman D. (2025). Coastal Region Soil Health: Problems and Perspectives from India. In: Soil Health and Sustainability in India. Bhattacharyya, R. (Ed.). Soil Science Society of America and John Wiley & Sons. Inc. pp. 161-188.
3. Panda, A. K. 2025. Poultry as a driver of rural livelihood and women's empowerment. In: Indian Poultry Sector: Road Map to Viksit Bharat 2027. Published by Poultry Punch Publications

- (I) Pvt. Ltd. (ISBN 978-81-985505-9-0): pp. 462-476.
4. Gupta P., Singh S K., Kumar N., Thakur B. (2025). Machine learning enabled smart agriculture classification technique for edge devices using remote sensing platform. In: AI-Based Advanced Optimization Techniques for Edge Computing (eds M. Kumar, G. Srivastava, A.K. Singh and K. Dubey). <https://doi.org/10.1002/9781394287062.ch14>. pp. 381-399.
5. Sahu A. and Patel M. (2025). Role of farm women in sustainable production of Horticulture crops. In: Agro-Advisory Services in Horticulture Strategies for Climate-Resilient and Profitable Production. (Eds.) Shukla, P.K, Adak, T., Gundappa, Babu, N. NIPA GENX Electronic Resources & Solutions P. Ltd, New Delhi. pp. 213-224.

D. Popular Articles/ E-publications

1. Das, Lipi and Pattanaik, S. 2025. Transforming Urban Spaces: Women's Participation in Agriculture and Community Gardens. In e-Book on 'Transforming Cities through Urban Agriculture and Community Gardening Practices' edited by Lakhan Singh, Naresh Kethavath, Veenita Kumari & Sunil Kumar and published by Amity University, Noida and MANAGE, Hyderabad. pp: 49-56 (ISBN:978-81-19663-88-0).
 2. Moharana G, Biswal B C., Saha G and Panda A.K. (2025). Preventing Malnutrition Among Women in India: Strategies for Sustainable Health. *Agriculture & Food e-Newsletter* 7(11): 307-311.
 3. Das, Lipi and Lal, S.P. 2025. Gender-inclusive nutri-sensitive agricultural extension approach for improved family nutrition. In: Souvenir on Rethinking Social Ecology in a Digital Landscape (IEEC, 2025). pp. 67-78.
 4. Jakhar P. Kumar N., Sahu A., Majhi M. 2025, "Custom Hiring Centres for Farm Women Skill, Livelihood and Income Enhancement. *Agriculture & Food e-Newsletter* 7(11): 215-221.
 5. Swain, S., Satapathy, A. S. and Moharana, G. 2025. Rising Road Hazards: Accidents Involving Tractor-Trailers Carrying Humans and Farm Equipment in Odisha. *Vigyan Varta* 6 (12): 112-119.
 6. Praveen Jakhar, Neetish Kumar, Indu Rawat and Manoj Kumar Majhi. 2025. Enhancing climate resilience of hill farm women through soil and water conservation practices. *Vigyan Varta* 6(11): 140-144.
 7. Tanuja S, P.R. Sahoo and Elizabeth Martin. 2025. Modified atmosphere packaging and its impact on the shelf life of processed fish. *Agri Magazine*. 2(10): 117-119.
 8. Tanuja S. 2025. Impact of climate change on marine and inland fisheries resources: the rising tide. *Agri Magazine*. 2(10): 112-113.
- महापात्रा अर्पिता, साहू बिस्वनाथ एवं परिडा गौतम. बकरिओं की दूध उत्पादन क्षमता के बृद्धि हेतु सरल रणनीतियां 2025. सशक्ति-कृषिरत महिला दर्शिका (वर्ष 3, अंक 1) – 2025. pp. 49 -53.

E. Abstract/ Presentation in conferences/ Seminars

1. Panda, A. K. and Sahoo B. 2025. Effect of Low Protein Diets on Production Performance and Egg Quality of Kadaknath Laying Hens (PPAN 12). Proceedings of VII Annual Convention and National Conference of National Academy of Veterinary Nutrition and Animal Welfare held at NIANP Bengaluru during 16-17 October 2025. pp. 142.
2. Sarangi, S.K. 2025. Agro-ecological and women-friendly approaches for insect pests and disease management in rice crop. In: Souvenir 19th AZRA International Conference on Environmental Shift Impact on Animal Biota, Food, Feed, Nutritional Security and Human Health. Siksha O Anusandhan, Bhubaneswar,

- Odisha. 11-13 November 2025. pp. 138-139.
3. Sahoo, B., Panda, A.K., Sarangi, S.K., Devi, M., Mohanta, R.K. and Sahoo, A.K. 2025. Importance of Total Mixed Ration in Small Ruminant Feeding. In: Global Resilience in Animal Nutrition: Innovations for Sustainable Future. Singh, V.K., Tewari, D., Gautam, S. Rao, S.B.N., Chahal, U. and Singh, P. (Eds.). Proceedings of 21st International Conference at Animal Nutrition Society of India. November 19-21, 2025. Ayodhya, India. pp. 139-149.
 4. Sarangi, S.K. and Mridula, D. 2025. Climate smart practices for biofortified potato varieties cultivation integrating zero tillage and paddy straw mulching. In: Souvenir 6th International Agronomy Congress, New Delhi, India. November 24-26, 2025. Extended Summary Vol. I. pp. 23-25.
 5. Panda, A. K., Devi, Mridula and Sahoo B. 2025. Women Empowerment through Family Poultry for Sustainable Livelihoods. In: Proceedings 40th Annual Conference and national Symposium of Indian Poultry Science Association (IPSACON-2025), Hyderabad. 09-11 December 2025. pp. 86-88.

AWARDS / ACHIEVEMENTS / RECOGNITIONS

- Dr. B. Sahoo conferred Fellow of National Academy of Veterinary Nutrition and Animal Welfare (NAVNAW) by Pashu Poshan Kalyan Samiti, Bareilly, UP during the National Conference held at NIANP, Bengaluru on 16 October 2025.
- Dr. S. K. Sarangi received ICAR Certificate for the technology entitled “A Novel System for Boosting Land Productivity and Income of Smallholder Farmers by Intercropping Vegetables in Waterlogged Paddy Fields (Rice+Veg Tech) (ICAR-NRM-CSSRI-Technology-2025-046).
- Dr. S. K. Sarangi conferred Fellow Award Applied Zoologists Research Association.
- Dr. S. K. Sarangi received Best Oral Paper Presentation Award during 19th AZRA International Conference on Environmental Shift Impact on Animal Biota, Food, Feed, Nutritional Security and Human Health. Organized at Siksha O Anusandhan, Bhubaneswar, Odisha during 11-13 November 2025.
- Dr. Tanuja S. received Iconic Woman Scientist Award in the field of Agriculture Technologies by Scientific Laurels.

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Preferred on

Bhubaneswar: To honour the vital contributions of women farmers in Indian agriculture, ICAR-Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar, celebrated 'Rashtriya Mahila Kisan Diwas' in Bhubaneswar on Wednesday. Union agriculture minister Shivraj Singh Chouhan addressed the women farmers through the virtual mode. He highlighted the pivotal role of women in ensuring national food and nutritional security.

दीनबन्धु

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केन्द्रीय कृषिरत महिला संस्थान, भुवनेश्वर में राष्ट्रीय महिला किसान दिवस का आयोजन

दीनबन्धु, भुवनेश्वर।

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भा.कृ.अनु.प.- केन्द्रीय कृषिरत महिला संस्थान, भुवनेश्वर (भा.कृ.अनु.प.- सीवा) ने विस्तार प्रभाग, कृषि एवं किसान कल्याण विभाग, कृषि एवं किसान कल्याण मंत्रालय, भारत सरकार के सहयोग से कृषि क्षेत्र की असली धुरी-महिला किसानों के अदम्य साहस, श्रम और योगदान को सम्मानित करते हुए ह्हराष्ट्रीय महिला किसान दिवस का आयोजन किया। समारोह का प्रेरक विषय था- ह्हराष्ट्रीय महिला किसानों का सशक्तिकरण, जिसने पूरे वातावरण को उत्साह और गौरव से भर दिया। माननीय केन्द्रीय कृषि एवं किसान कल्याण मंत्री श्री शिवराज सिंह चौहान ने वर्चुअल माध्यम से कार्यक्रम में अपनी गरिमामयी उपस्थिति दर्ज कराई। अपने अभिभाषण में उन्होंने महिला किसानों को भारत की खाद्य और पोषण सुरक्षा का स्तंभ

बताते हुए उनके परिश्रम, प्रबंधन कौशल और त्याग को राष्ट्र निर्माण की शक्ति कहा। इस अवसर पर भा.कृ.अनु.प.- सीवा की निदेशक डॉ. मृदुला देवी ने सभी गणमान्य अतिथियों व प्रतिभागियों का स्नेहिल स्वागत करते हुए संस्थान की गतिविधियों का परिचय कराया। उन्होंने कहा कि संस्थान निरंतर लैंगिक-संवैदनशील प्रौद्योगिकियों, क्षमता-विकास कार्यक्रमों तथा आजीविका मॉडल के माध्यम से ग्रामीण महिलाओं के जीवन में परिवर्तन का सेतु बन रहा है। उन्होंने यह भी कहा कि यह दिवस उन करोड़ों कृषिरत महिलाओं की प्रतिबद्धता, नवाचार और धैर्य का अभिनंदन है, जो खेत-खलिहानों में राष्ट्र की समृद्धि के बीज बोती हैं। भा.कृ.अनु.प., नई दिल्ली के उप महानिदेशक (कृषि विस्तार) डॉ. राजवीर सिंह ने अपने उद्बोधन में महिलाओं की सहभागिता को कृषि के विकास का मूल आधार बताया। उन्होंने महिला किसानों के विज्ञान-आधारित सशक्तिकरण हेतु महिला-अनुकूल उपकरणों, तकनीकों, कौशल विकास और संस्थागत समर्थन की आवश्यकता पर बल दिया। इस आयोजन को पूर्व अतिरिक्त महानिदेशक डॉ. विमलेश मान एवं भारत की अन्न रानी के नाम से विख्यात अधिक गरिमामय बना दिया।

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RASHTRIYA MAHILA KISAN DIWAS CELEBRATED AT ICAR-CIWA, BHUBANESWAR

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Rashtriya Mahila Kisan Diwas Celebrated At ICAR-CIWA, Bhubaneswar

Rashtriya Mahila Kisan Diwas Celebrated at ICAR-CIWA, Bhubaneswar

15 October 2025, Bhubaneswar

ICAR-Central Institute for Women in Agriculture, Bhubaneswar in collaboration with Extension Division, Department of Agriculture and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, Govt. of India celebrated 'Rashtriya Mahila Kisan Diwas' with the theme 'Empowering Women Farmers for Prosperous Nation' today with great enthusiasm to honour the vital contributions of women farmers in Indian agriculture.

The event witnessed the gracious presence of Shri Shivraj Singh Chouhan, Union Minister of Agriculture and Farmers Welfare through virtual mode. He addressed the gathering and highlighted the pivotal role of women in ensuring national food and nutritional security.

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Dr. Rajbir Singh, Deputy Director General (Agricultural Extension) ICAR in his address, appreciated the vital role of women in agriculture and allied sectors. He emphasized on science based empowerment of women farmers through women friendly tools and gender responsive technologies, skill development, and institutional support to enhance productivity and livelihoods.

Dr. Mridula Devi, Director, ICAR-CIWA, welcomed the dignitaries and participants, underscoring the institute's pivotal role in developing gender-responsive technologies, capacity-building programs, and livelihood models for women farmers across the country. She further emphasized that this celebration is an opportunity to acknowledge their hard work, innovation, and resilience in transforming rural livelihoods.

The event also witnessed the presence of Dr. Binresh Mann, Former Assistant Director General, ICAR, New Delhi and Smt. Raimati Ghuria, "Millet Queen of India".

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Image

the political and business daily

ICAR-CIWA celebrates Rashtriya Mahila Kisan Diwas with enthusiasm

PBD BUREAU

BHUBANESWAR, OCT 15

THE ICAR-Central Institute for Women in Agriculture (ICAR-CIWA) marked a momentous occasion on 15th October 2025, celebrating the Rashtriya Mahila Kisan Diwas with the theme "Empowering Women Farmers for a Prosperous Nation." The event, a collaboration with the Department of Agriculture and Farmers Welfare, was a tribute to the significant contributions of women farmers to India's agricultural landscape.

The virtual presence of Shivraj Singh Chouhan, Union Minister of Agriculture and Farmers Welfare, added weight to the celebration. Addressing the gathering, he acknowledged the crucial role of women in ensuring the nation's food and nutritional security.

Dr. Mridula Devi, Director of ICAR-CIWA, welcomed the guests, emphasizing the Institute's commitment to advancing gender-responsive technologies and capacity-building programs for women farmers across India. Dr. Rajbir Singh, Deputy Director General (Agricultural Extension), ICAR, underscored the importance of empowering women through scientific tools, skill development, and institutional support.

In recognition of outstanding contributions, several women farmers were honoured during the event. A special Scientist-Farmer Interaction Session featured discussions on scientific crop production, natural farming, and welfare schemes.

An exhibition titled "SheShakti in Krishi" showcased innovations and gender-responsive tools developed by ICAR-CIWA, highlighting the vital role of women in transforming agricultural practices.

The celebration saw vibrant participation from over 250 women farmers, entrepreneurs, and community members, further fuelling the drive to empower women in agriculture.

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ସମସ୍ତ ରାଷ୍ଟ୍ର ପାଇଁ ମହିଳା କମିଶନଙ୍କ ସହିତ କାରିବା ଉପରେ ଗୁରୁତ୍ୱ

ଗୁଡ଼ିକ ଉପରେ ଏକ ବୈଜ୍ଞାନିକ-
ଉତ୍ସାହ ପାରଦର୍ଶିକ ଆନ୍ଦୋଳନ
ହୋଇଥିଲା ।
ସମାଜୋନ୍ମତ ଆକର୍ଷଣ ଥିଲା,
କୃଷିରେ ମହତ୍ତା ଶକ୍ତି ଦିଶିଥିଲା
ଆନ୍ଦୋଳିତ ଏକ ବିଶେଷ ପ୍ରବର୍ତ୍ତନ ।
ଯେଉଁଠି ମହତ୍ତା ନେତୃତ୍ୱାଧୀନ
କୃଷି ଉଦ୍ୟୋଗ, ନବଉତ୍ପାଦନ
ମହତ୍ତା ଆନ୍ଦୋଳ ଉପକରଣ ଏବଂ
ଆନ୍ଦୋଳିତ-ପ୍ରାଧିକାରକୁ ଏକ
ବିକଶିତ ଲକ୍ଷ-ଆନ୍ଦୋଳ ପ୍ରାପ୍ତିବ୍ୟାପୀ



ନବଭୂତ ଓ ସଫଳତା ଆନନ୍ଦ
ବାଣ୍ଟିଲେ । କୃଷି ଏବଂ ଆନୁଷ୍ଠାନିକ
କ୍ଷେତ୍ରଗୁଡ଼ିକରେ ଗଲେଖାଣି
ଅନନ୍ଦନ ପାଇଁ ଅନେକ ନିମ୍ନ କୃଷକ
ଦୃଢ଼ ହାତକରାଣୀଙ୍କୁ ଗଣନିତ
କରାଯାଉଥିଲା । ଦୈନିକ ଗିରିରେ
ପଞ୍ଚାଳ ଗାଁଦେଇ ଏବଂ ପଞ୍ଚାଳନ
ଆଖ୍ୟାୟ, ପ୍ରାକୃତିକ କୃଷିର ନୀତି ଏବଂ
ଆଖ୍ୟାୟ, କୃଷକମାନଙ୍କୁ ଚିତ୍ତବତ୍ତି
ହୋଇ ଗାଲ ଏବଂ କୃଷକର କଲ୍ୟାଣ
ପାଇଁ ଯାତନା କରି ପ୍ରାଣ ଦେଇ

ପ୍ରସ୍ତୁତ ହୋଇଥିଲା । 'ଐ ଉତ୍ତରରେ ପ୍ରାୟ ୨୫୦ରୁ ଅଧିକ ମିନିଟ୍ କୁଖର ଉଦ୍ୟୋଗୀ, ଏପିପି ଓ ଏସ୍ ଏଚି ସଦସ୍ୟ, ସହିତ ଛାତ୍ର, ଜନପ୍ରତିନିଧି ଓ ପ୍ରତିଷ୍ଠାନର ବୈଜ୍ଞାନିକ ଓ କର୍ମଚାରୀମାନେ ଅଗ୍ରଗଣ୍ୟ କରିଥିଲେ । 'ଐ ଅବସରରେ ମିନିଟ୍ କୁଖର ଅବସରକୁ ସ୍ୱୀକୃତି ଦେବା ସହିତ ତାଙ୍କ ସମ୍ପର୍କିତର ପାଇଁ ଏକ ନୂତନ ପ୍ରେରଣା ସୃଷ୍ଟି କରିଥିଲା ।

भूवनेश्वर, (निग्र) : भाकअनुप
केन्द्रीय कृषिपत महासंस्थान में
शैलीय कृषिधर्मांनं नंदे मोदी के
प्रधानमंन्त्री धन धान्य कृषि योजना एवं
दलान अलमिनभर्ता मिन
(पोमपीडकीवेन) के राष्ट्रीय
शुभारंभ समारोह का लाहप्रसारण
किया गया। इस कार्यक्रम में 600 से
अधिक कर्मचारी, जन्मनिधि
एवं संस्थान के वैज्ञानिक व
कर्मचारियों ने सहभागिता की तथा
प्रधानमंन्त्री के दूरदृष्टिपूर्ण विचारों और
प्रकार सरकारी कृषिधर्मांन योजनाओं
से जुड़ी महत्वपूर्ण जानकारी को से
लाभान्वित हुए। कार्यक्रम का शुभारंभ
संस्थान की निदेशक डा मुल्ला देवी
के स्वागत संबोधन हुआ, जिसमें



उन्होंने प्रधानमंत्री धन धान्य कृषि योजना के उद्देश्यों एवं महत्व पर प्रचार प्रसार डाला। एक एक पैगुआहासक पहल है, जिसका उद्देश्य कृषि उत्पादकता बढ़ाना, फसल विपत्तिभ्रंशक और सतत कृषि पद्धतियों को प्रोत्साहित करना, पंचात एवं प्रखंड स्तर पर फसल उपाय भंडारण को सुदृढ़ करना, सिंचाई सुविधाओं में सुधार लाना तथा लघु एवं दोपचायित अग्रण उपलब्धता सुनिश्चित करना है। इस योजना के तहत देश के 100 चयनित जिलों में कृषि एवं किसान कल्याण विभाग, सयाँधत मंत्रालय एवं नगर सरकारों को मौजूदा योजनाओं के अभिचारण कर महत्वपूर्ण अवरोधों को घटाने का लक्ष्य रखा गया है।

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Source : <http://enr.sarabharati.in>

प्रधानमंत्री धन धान्य कृषि योजना एवं दलहन आत्मनिर्भरता मिशन के शुभारंभ

भा.क.अनु.प.- केन्द्रीय कृषिरत महिला संस्थान, भुवनेश्वर में हुआ लाइव प्रसारण

दीनानन्द, भुवनेश्वर
dinbandhanews.com
 प्र.भु.भु.प्र. के नवम्बर कुपित मसिह
 रसमन, बुवनेश्वर में 11 अक्टूबर
 2025 को इलाहाबाद में दो सीढ़ी की के
 करामतों को हरा प्रयासों की हार पावे
 की योजनाओं द्वारा तालम आवाजों को
 मितान के राष्ट्रीय सुधारण समोजे की
 लड़ाई अज्ञान के साथ। इस कार्यक्रम
 में 600 से अधिक कुम्ह कोहलान,
 जलविद्युत सृष्टि संस्थान के केन्द्रीय
 वर्गोंवालों ने सहभागिता की लड़ाई
 मजदूरी प्रयासों की के दूरदर्शनी
 प्रियाओं और भारत सरकार की विधि
 योजनाओं से जुड़ी महत्वपूर्ण
 जानकारी से लब्धविधि हुई।
 कार्यक्रम का शुभारंभ संस्थान का

[illegible]

ICAR-CIWA ଭୁବନେଶ୍ୱର ଦ୍ୱାରା ରାଷ୍ଟ୍ରୀୟ ମହିଳା କିଷାନ ଦିବସ ପାଳିତ

[illegible]

ENCLOSURE ACHIEVING A BETTER WORLD

Bhubaneswar, Oct 16: The Government of Odisha has announced the distribution of women farmers to Indian agriculture and rural development, the ICAR-ORIC, Odisha, and the Odisha Agriculture (ICAR-CIWA), in collaboration with the Extension Division of the department of Agriculture, Odisha. The Welfare, celebrated Rashtriya Mahila Kisan Diwas with great enthusiasm here Wednesday.

The Minister of Agriculture, by Union Minister for Agriculture and Farmers Welfare, Shri Singh Choudhary, inaugurated the event. In his message, the Minister highlighted the pivotal role of women farmers in sustaining the growth and development of national security. Reiterating the government's commitment to their empowerment, Choudhary outlined several initiatives aimed at enhancing women's participation in agriculture, including training programs, credit access, and promoting agri-inputs. He also highlighted the significant growth in the rural sector.

ICAR-CIWA director Mr. P. K. Singh, who was present at the event, said that the Government of Odisha is committed to providing support to all farmers and rural communities.



plants and highlighted the institute's dedicated efforts in developing gender-responsive technologies, capacity-building programmes and livelihood models that strengthen the role of women in agriculture.

She emphasised that the celebration serves as a platform to recognise the hard work, innovation, and resilience of women farmers who are driving transformation in rural livelihoods and shaping the future of Indian agriculture.

Addressing the event, ICAR New Delhi Deputy Director General (Agricultural Extension) Raibir Singh appreciated

the immense contributions of women in agriculture and allied sectors and emphasised the importance of science-based empowerment, promotion of women-friendly tools, and strengthening institutional support systems for women farmers to enhance productivity and income.

The event was also attended by ICAR, New Delhi former ADG Bimlesh Mann and Raimati Ghuria, popularly known as the 'Millet Queen of India' as special guests.

Several progressive women farmers were felicitated for their exceptional contributions

to agriculture and allied fields. The 'A-Scientist-Farmer Interaction Session' was organised on themes such as Scientific Crop Production, Animal Husbandry, Handry Practices, Principles and Practices of Natural Farming, Organic Farming, etc. to Farmers, and Government Schemes for Farmer Welfare.

An exhibition titled 'Shree Shakti' was also held, showcasing, featuring gender-responsive technologies, innovations, and products of women and women-led agri-entrepreneurs that exemplified the spirit of empowerment and innovation in agriculture.

The exhibits showcased the remarkable achievements of women in the field of agricultural technologies developed by ICAR-CWTA to promote livelihood security and economic growth in sustainable agricultural practices.

The celebration saw the enthusiastic participation of over 1000 students, faculty members, entrepreneurs, members of Farmer Producer Organisations (FPOs), Self-Help Groups (SHGs), as well as public representatives, students, and institute staff, making the event a significant success.



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