



ICAR-CIWA NEWSLETTER

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

Director's Desk

It gives me great pleasure to present this edition of the ICAR-CIWA N which captures the significant progress and impactful initiatives undertaken by the Institute in recent months. Our research efforts continue to progress gender-responsive agricultural development, with notable achievements such as the evaluation of water hyacinth compost and fish scale powder on chilli seedling growth, the integrated study on microbial consortia and NPK fertilizers for enhancing lemon yield and fruit quality, and the development of natural farming practices for Betel Vine cultivation and diversified cropping systems suited to the North Eastern Ghat region of Odisha. These research outcomes underscore our commitment to sustainability, resource recycling, and climate-resilient agriculture. During this period, the Institute also made substantial contributions in the domain of intellectual property, filing important copyrights including the 'Database on Dynamics of Women in Agriculture (DDWA)', the 'technology video on climate-resilient and gender-responsive aqua-horticultural practices', and the 'Database on Livelihood of Women in Agriculture (DLWA)'. Additionally, the certification of two key technologies- the 'Sustainable She-Preneurship in Mushroom Cultivation Model (2S2M)' and the 'Rotary Goat Feeding System'- highlights CIWA's continued leadership in developing women-centric agricultural innovations.



The institute successfully organized several major events, including the Webcast of PM-Kisan Samman Nidhi, the Institute Research Council (IRC) Meeting, Parthenium Awareness Week, Hindi Chetna Maas 2025, and various skill development programmes. In collaboration with VOTI and the Fisheries & ARD Department, Government of Odisha, ICAR-CIWA also conducted three specialized training programmes focused on promoting women's entrepreneurship in poultry production, thereby strengthening livelihood diversification opportunities for farm women. Under the Scheduled Caste Sub-Plan (SCSP), the Institute conducted a series of capacity-building programmes across multiple districts of Odisha between July and September 2025. These initiatives enhanced the skills and entrepreneurial capabilities of Scheduled Caste farm women, particularly through the effective use of Custom Hiring Centres (CHCs). As part of Swachhotsav 2025, the institute actively participated in nationwide cleanliness and community-engagement activities held from 17 September to 2 October 2025, reinforcing the spirit of the Swachh Bharat Abhiyan and promoting sustainable, people-led sanitation practices. Our extension activities remained robust, with numerous trainings, workshops, demonstrations, field days, and awareness programmes conducted across regions. The institute continued its engagement in guiding students through internship programmes, contributing to capacity building for future agricultural professionals.

As we reflect on these accomplishments, I extend my sincere appreciation to our dedicated scientists, staff members, collaborators, and the farm women who inspire our mission. Their collective efforts drive our pursuit of gender-inclusive, sustainable agricultural development. I hope this newsletter provides valuable insights into our ongoing work and strengthens our shared resolve to advance the well-being and empowerment of women in agriculture.

(Mridula Devi)

INSIDE THIS ISSUE

- RESEARCH HIGHLIGHTS
- IMPORTANT EVENTS
- MAJOR PROGRAMMES
- HUMAN RESOURCE DEVELOPMENT
- EXTENSION ACTIVITIES
- COPY RIGHT
- TECHNOLOGY COMMERCIALIZATION
- PUBLICATIONS
- AWARDS/ ACHIEVEMENTS/ RECOGNITIONS
- ICAR-CIWA IN NEWS

RESEARCH HIGHLIGHTS

Effect of Water Hyacinth Compost and Fish Scale Powder on Chilli Seedling Growth

Water hyacinth, one of the most invasive aquatic weeds in India, can be effectively converted into an organic resource through composting. Such agrowaste-based manure production offers an attractive green entrepreneurship opportunity for rural women due to low cost, minimal skill requirements, and flexibility in time use. Enriching these composts with other agrowastes-such as nutrient-rich fish scales-further improves their value while addressing waste disposal challenges. In this study, vermicompost was prepared using water hyacinth, cow dung, spent mushroom substrate (SMS), and neem leaves in various proportions. Chilli seeds were raised in protrays using a cocopeat : water hyacinth vermicompost (2:1) medium. Fish scale powder was incorporated at 1% and 2% of media weight to evaluate its effect on germination and early seedling growth. The experiment was conducted for 21 days, and data on germination percentage, germination rate, seedling height, internode number, leaf number, seedling vigour index, and fresh weight were recorded. Among all treatments,

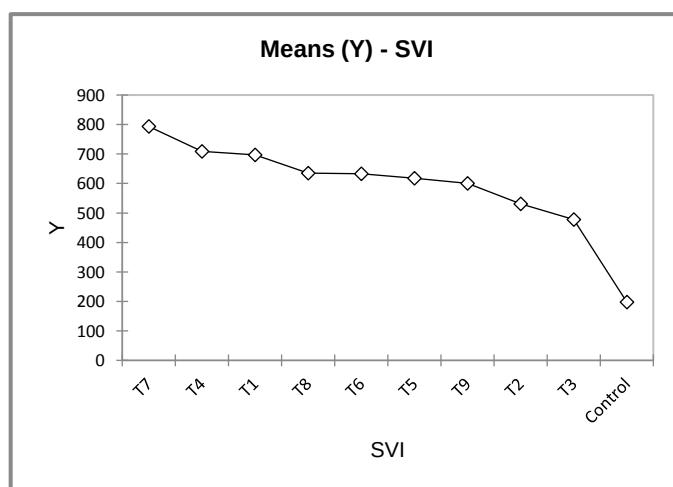
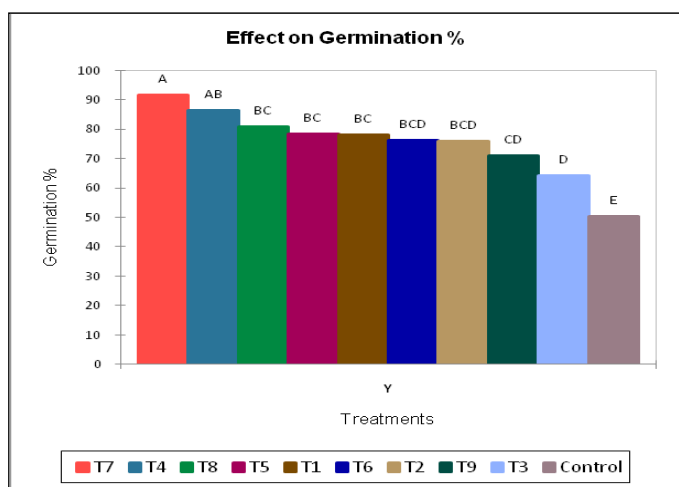
T7 (vermicompost + 2% fish scale powder) performed best, recording 91.6% germination, significantly higher seedling height (13.5 cm), and a superior vigour index (793.39). Treatment T4 also showed comparatively high germination (86.37%). In contrast, the control, which lacked water hyacinth-based compost, recorded the lowest values for all parameters, indicating the importance of enriched organic media in nursery growth. The beneficial effect of fish scale enrichment is likely due to its high nutrient content-N (8.8%), P (7.3%), Ca (6.5%), and Mg (0.4%)-which supports root and shoot development. However, among treatments receiving 2% fish scale, T9 showed reduced growth, possibly due to the allelopathic effects of neem leaves in that compost mixture (Krishnaveni et al., 2025). Water hyacinth-based vermicompost enriched with 2% fish scale powder significantly enhances germination and seedling vigour in chilli, while simultaneously promoting sustainable agrowaste management and creating livelihood opportunities for rural women.

Vermicompost: Substrate and composition

Treatments	Substrates (%)			
	Water Hyacinth (WH)	Cow dung (CD)	Spent Mushroom Substrate	Neem leaf
V1	60	40	0	0
V2	60	30	10	0
V3	60	30	5	5

Details of experimental design:

Treatments
Control- Only cocopeat
T1- Cocopeat +V1
T2- Cocopeat +V2
T3- Cocopeat +V3
T4- Cocopeat+ V1+ fish scale powder (1%)
T5- Cocopeat + V2+ fish scale powder (1%)
T6- Cocopeat + V3 + fish scale powder (1%)
T7- Cocopeat+ V1+ fish scale powder (2%)
T8- Cocopeat +V2+ fish scale powder (2%)
T9- Cocopeat + V3 + fish scale powder (2%)



Evaluation of integrated influence of microbial Consortium and NPK fertilizers on yield and fruit quality attributes of Lemon (Citrus Limon L.)

Lemon (*Citrus limon* L.) is an economically important citrus fruit, valued for its nutritional and medicinal properties. Enhancing fruit yield and quality while maintaining soil health has become a key focus in sustainable agriculture. Nitrogen, phosphorus, and potassium are essential nutrients that improve crop productivity, while microbial biofertilizers like Endo NPK provide a sustainable means to promote plant growth and soil fertility. The integrated use of chemical and biofertilizers may therefore offer a balanced strategy to optimize crop performance and soil sustainability. With this background, the present investigation entitled “Evaluation of integrated influence of microbial consortium and NPK fertilizers on yield and fruit quality

attributes of lemon (*Citrus limon* L.)” was conducted on lemon cv. Assam lemon in a Randomized Block Design (RBD) with seven treatments. Treatments included T1: Absolute Control, T2: Control (absence of N with recommended P_2O_5 and K_2O), T3: 75% N + recommended P_2O_5 and K_2O , T4: T1 + Endo NPK, T5: T2 + Endo NPK, T6: 75% N + recommended P_2O_5 and K_2O + Endo NPK, and T7: Recommended doses of N, P_2O_5 and K_2O . Results revealed that integrated nutrient management with T6 and recommended NPK (T7) significantly enhanced fruit yield, plant growth, leaf chlorophyll, and leaf macro- and micronutrient contents. While T7 favored higher yield, T6 markedly improved fruit quality attributes including juice content

(42.23%), total soluble solids (7.68 °Brix), titratable acidity (7.42%), ascorbic acid (83.46 mg 100 g⁻¹ FW), total phenols (74.75 mg GAE 100 g⁻¹ DW), flavonoids (148.51 mg QE 100 g⁻¹ DW), and antioxidant activity (FRAP: 699.14 mM Fe²⁺ 100 g⁻¹ FW). Soil biochemical properties, including microbial biomass (MBC: 224.65 mg kg⁻¹, MBN: 23.59 mg kg⁻¹), enzyme activities (alkaline phosphatase, dehydrogenase, FDA hydrolytic activity), and

microbial populations were significantly higher in T6. Soil pH remained largely unaffected, while soil EC, organic carbon, and available N, P₂O₅, and K₂O improved under integrated nutrient management. The study demonstrated that incorporation of microbial consortium with reduced inorganic nitrogen fertilization can enhance fruit yield, quality, and soil health, providing a sustainable and environment-friendly approach for lemon cultivation.

Natural Farming Model for Betel Vine Cultivation in East Coast Region of India

The Natural Farming Model for Betel Vine Cultivation in the East Coast Region of India exemplifies a sustainable, low-cost, and eco-friendly alternative to chemical-based practices in this high-value crop. Developed through natural farming- based interventions, the model integrates locally prepared bio-inputs- Jeevamrut, Beejamrut, Ghanajeevamrut, Neemastra, Agniastra, Handikhata, and vermicompost- for soil fertility and pest management, along with practices like mulching and shading. A successful case study is that of Mrs. Sarojini Nayak, a smallholder from Dhanahara village, Khordha district, who transitioned from conventional to natural farming in betel vine cultivation. Through active participation in a women-led bio-input production unit and adoption of natural formulations, she achieved comparable yields to conventional methods while reducing cultivation expenses by ₹12,000 per 400 m² Baraja. The total operational cost under natural farming was ₹60,000 compared to ₹72,000 in chemical-based systems. The model not only enhanced soil health and profitability but also empowered women farmers as entrepreneurs and local resource persons, offering a replicable pathway for sustainable betel vine cultivation in coastal regions.

Total cost in establishing Betel vine plantation of 0.1Ha (1000 m²) Baraja

	Natural Farming Approach (₹)	Conventional (inorganic and chemical-based) approach (₹)
Capital cost (first year)		
Structure cost (Bamboo post, Thatch/coconut leaves/mats, Coir/jute rope, nails, misc., water tank & plumbing)	60,000.00	60,000.00
Operational cost		
Planting material (cv. Godi Bangala)	8,000.00	8000.00
Agri-inputs (Plant nutrients, plant protection inputs etc.)	8,000.00	20000.00
Mulch cost	2000.00	2000.00
Irrigation power/water	6000.00	6000.00
Labour cost (120 person days/year @ ₹ 200)	24,000.00	24,000.00
Repair & maintenance	5000.00	5000.00
Packaging/market logistics	7000.00	7000.00
Total Operational cost	60,000.00	72,000.00



Application of Jeevamrut to the crop & vermin-composting near betel vine plantation

Natural Farming with Crop Diversification Model for North Eastern Ghat Region of Odisha

The Natural Farming with Crop Diversification Model for the North Eastern Ghat Region of Odisha integrates natural farming principles with mixed and integrated cropping systems to promote sustainability, resilience, and women's empowerment in hilly tribal areas. Developed through ICAR-CIWA's field interventions, the model emphasizes the use of bio-inputs such as Jeevamrut, Ghanajeevamrut, Amritpani, Panchagavya, and vermicompost, along with composting, mulching, and eco-friendly pest management. A successful example is Mrs. Bhaktilata Pradhan from Mandakia village, Kandhamal district, who adopted the model

through Raikia Organics, a women-led group. Through this group, she learned the techniques of bio-input preparation, practiced diversified cropping (paddy, maize, turmeric, vegetables, and pulses), improving soil health, reducing pest incidence by ~33%. Her one-acre mixed cropping system generated a gross seasonal income of ₹64,225, about 25% higher than her previous conventional system, with an additional gain of ₹12,845 per acre per season. The model thus demonstrates a replicable pathway for sustainable livelihoods, environmental restoration, and women-led entrepreneurship in the fragile hill ecosystems of Odisha.

Crop Yield & Income (1 acre- Mixed cropping)

Crop (2023-24)	Area (acre)	Yield (kg)	Local Market Price (₹/kg)	Gross Income (₹)
Brinjal	0.2	465	30-35	15112.50
Pumpkin	0.1	185	18-20	3515.00
Cowpea	0.1	235	30-35	7637.50
Tomato	0.2	650	25-30	17875.00
okra	0.15	420	25-30	11550.00
Leafy vegetables	0.05	150	12-15	2025.00
Maize + pulses	0.20	310	20-22	6510.00
Total Gross income in one season				64,225.00



Natural farming in brinjal cultivation



Planting of seasonal vegetables in mango orchard with natural farming practices

IMPORTANT EVENTS

Webcast Programme of PM-Kisan Samman Nidhi Organized by ICAR-CIWA

The 20th instalment of the Pradhan Mantri Kisan Samman Nidhi (PM-Kisan) Scheme was released on 2nd August 2025 at Varanasi by the Hon'ble Prime Minister of India. To mark the occasion, ICAR-Central Institute for Women in Agriculture, Bhubaneswar organized a Live Webcast Programme at the Sashakti Auditorium, Technology Block. The event drew the participation of around 250 stakeholders, including farm women, farmers, officials from line departments, students, and institute staff, reflecting the strong community engagement and interest in national agricultural initiatives. Women farmers from four villages across Bhadrak, Khordha, and Puri districts actively took part in the programme. The event began with an insightful Farmwomen–Scientists Interface that facilitated discussions on crucial issues related to women in agriculture. Topics such as access to government schemes, reduction of drudgery through women-friendly technologies, opportunities for value addition, and avenues for income enhancement were discussed in detail. This interactive session provided farm women with a platform to seek clarifications, share their perspectives, and better understand the available support systems. The webcast of the Hon'ble Prime Minister's address served as the central part of the programme, enabling participants to directly connect with the national initiative and understand its implications for small and marginal farmers, especially women. Following the webcast, an open interaction allowed women farmers to

share their experiences, challenges, and expectations related to both on-farm and off-farm activities. Their insights highlighted practical issues faced at the grassroots level and offered valuable feedback for future interventions. A drone demonstration was organized to introduce participants to emerging agricultural technologies. The demonstration showcased how drones can be effectively used for crop monitoring, input application, and field surveillance, emphasizing that with proper training, women farmers can confidently adopt and operate such modern tools. Additionally, information on various Central Government schemes-including PM-Kisan, MKSP, and ATMA-was shared to enhance the participants' awareness of available opportunities and benefits. Participants also visited the museum dedicated to women-centric agricultural technologies, where they explored models, tools, and innovations designed to reduce drudgery and improve efficiency in farm and livelihood activities. This exposure helped reinforce the importance of gender-responsive innovations in agriculture. A key outcome of the programme was the successful creation of Awareness, Acceptability, and Appreciation (3A's) regarding Central Government schemes aimed at empowering women in agriculture. The event not only strengthened the understanding of PM-Kisan but also motivated women farmers to make informed decisions, adopt suitable technologies, and avail the benefits of ongoing developmental initiatives.



Institute Research Council (IRC) Meeting

The 25th Institute Research Council (IRC) Meeting of the ICAR–Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar, was convened on 09 August 2025 to review the action taken report of the 24th IRC Meeting, assess the progress of ongoing and completed research projects for the period November 2024 to August 2025, and deliberate on new project proposals aligned with institutional and national priorities. Scientist presented their findings of different research projects. From both the divisions 14 projects were presented which included institute funded, externally funded and AICRP coordinated project achievements were presented by the project investigators. Director ICAR-CIWA, underscored the importance of formulating new research initiatives in line with the priorities of the Institute, ICAR, and the national development agenda, with a strong focus on women’s empowerment, natural and organic farming systems, gender-sensitive nutrition, and the marketing challenges faced by women’s groups. She further emphasized the importance of refining and validating the models developed by the Institute, ensuring their accuracy, adaptability, and potential for upscaling. She reiterated that research efforts are crucial for strengthening the research–extension continuum and enhancing the institution’s contribution toward gender-responsive agricultural development.



Institute Research Council Meeting at ICAR-CIWA



Institute Research Council Meeting at ICAR-CIWA

Parthenium awareness week

Parthenium Awareness Week (16-22 Aug 2025) was observed at ICAR-CIWA by organizing a number of activities to spread awareness among staff members and farm workers. The members of the institute actively participated in Parthenium eradication drive by removing the weeds present inside the institute campus. On 20 Aug 2025 a sensitization programme was organized among the farm workers of the institute in which, the workers identified Parthenium weed and were sensitized about its bad effects on human, livestock and the biodiversity of the region. On 21 Aug 2025, demonstrations were organized on safe removal of the weed, its disposal and composting techniques. The farm workers removed the parthenium plants from the campus and decomposed them properly by incorporating in the soil at the vegetative stage.



Parthenium Awareness Week celebration at ICAR-CIWA

हिंदी चेतना मास 2025

भारत एक बहुभाषी राष्ट्र है और हिंदी चेतना मास का आयोजन भाषाई विविधता को सम्मान देने के साथ-साथ हिंदी की प्रासंगिकता और महत्व को उजागर करने वाला प्रभावी माध्यम है। यह महोत्सव न केवल राष्ट्रीय एकता और सामाजिक सौहार्द को सुदृढ़ करता है, बल्कि नई पीढ़ी को हिंदी भाषा और साहित्य से जोड़ने का एक प्रभावी अवसर भी प्रदान करता है। हिंदी चेतना मास मनाए जाने का उद्देश्य हिंदी भाषा के प्रति जागरूकता, गर्व और व्यवहारिक प्रयोग को बढ़ावा देना तथा कार्यालयीन कार्य में राजभाषा हिंदी के प्रयोग को प्रोत्साहित करना है।

राजभाषा विभाग, गृह मंत्रालय, भारत सरकार से प्राप्त दिशा-निर्देशों के अनुरूप दिनांक 1 से 30 सितंबर, 2025 तक संस्थान में हिंदी चेतना मास का सफलतापूर्वक आयोजन किया गया। इस अवधि में हिंदी के प्रचार-प्रसार हेतु संस्थान स्तर पर विविध कार्यक्रम एवं प्रतियोगिताओं का आयोजन किया गया, जिनमें कर्मचारियों और अनुसंधानार्थियों के साथ-साथ छात्र-छात्राओं की भी सक्रिय सहभागिता रही। संस्था के विभिन्न अनुभागों ने इस माह के दौरान अधिकाधिक कार्य हिंदी में करने का प्रयास किया तथा कार्यालयीन अभिलेखों, पत्राचार एवं सूचनाओं में हिंदी के प्रयोग को प्राथमिकता दी।

हिंदी चेतना मास, 2025 के अंतर्गत संस्थान में कुल 8 प्रतियोगिताओं का आयोजन किया गया, जिनमें कंप्यूटर पर यूनिकोड में हिंदी टंकण, निबंध लेखन, वाद-विवाद, स्वरचित कविता पाठ, हिंदी पहेली, शोध-आधारित पोस्टर प्रस्तुति, शोध-पत्र प्रस्तुतीकरण तथा आशु-भाषण प्रतियोगिता जैसी गतिविधियाँ शामिल रहीं। इन प्रतियोगिताओं में अधिकारियों, वैज्ञानिकों, तकनीकी एवं प्रशासनिक कर्मचारियों के साथ-साथ युवा शोधार्थियों ने उत्साहपूर्वक भाग लिया। प्रतियोगिताओं के माध्यम से न केवल हिंदी में अभिव्यक्ति कौशल को मंच मिला, बल्कि राजभाषा के अनुरूप तकनीकी एवं वैज्ञानिक विषयों को भी सरल एवं प्रभावी हिंदी में प्रस्तुत करने का अवसर प्राप्त हुआ।

संस्थान की सामाजिक उत्तरदायित्व भावना को ध्यान में रखते हुए हिंदी चेतना मास के दौरान विद्यालयों में भी हिंदी से संबंधित गतिविधियाँ आयोजित की गईं। विभिन्न विद्यालयों में विशेष रूप से स्वरचित कविता लेखन प्रतियोगिता आयोजित की गई, जिसमें पीएम श्री केंद्रीय विद्यालयों के लगभग 50 विद्यार्थियों ने भाग लिया। विद्यार्थियों ने पर्यावरण, राष्ट्रप्रेम, विज्ञान, महिला सशक्तिकरण तथा ग्रामीण जीवन जैसे विविध विषयों पर रचनात्मक कविताएँ प्रस्तुत कीं, जिससे हिंदी भाषा के प्रति उनकी संवेदनशीलता

और रचनात्मक दृष्टि स्पष्ट रूप से परिलक्षित हुई।

हिंदी चेतना मास के समापन अवसर पर संस्थान में एक औपचारिक समारोह आयोजित किया गया, जिसकी अध्यक्षता निदेशक महोदया द्वारा की गई। कार्यक्रम के प्रारंभ में प्रभारी राजभाषा ने संस्थान में हिंदी के प्रचार-प्रसार के लिए वर्ष भर चल रही गतिविधियों तथा हिंदी चेतना मास, 2025 के अंतर्गत आयोजित कार्यक्रमों का संक्षिप्त विवरण प्रस्तुत किया। तत्पश्चात केंद्रीय विद्यालयों से आए शिक्षकों, अभिभावकों और विद्यार्थियों ने प्रतियोगिताओं के प्रति अपने अनुभव और विचार व्यक्त किए तथा संस्थान द्वारा प्रदान किए गए मंच के लिए आभार व्यक्त किया।

समारोह के दौरान निदेशक महोदया ने अपने प्रेरक उद्बोधन में हिंदी की महत्वपूर्णता, उसकी अभिव्यक्तिगत क्षमता तथा राजभाषा के रूप में उसकी भूमिका पर प्रकाश डाला। उन्होंने उदाहरणों सहित यह स्पष्ट किया कि विविध भाषाओं और संस्कृतियों से भरे देश में हिंदी एक सेतु की तरह कार्य करते हुए परस्पर संवाद और राष्ट्रीय एकता को सुदृढ़ करती है। साथ ही, उन्होंने संस्थान के समस्त कर्मचारियों एवं प्रतिभागियों को हिंदी चेतना मास, 2025 के दौरान आयोजित सभी कार्यक्रमों में उत्साहपूर्वक

भाग लेने के लिए धन्यवाद ज्ञापित किया और कार्यालयी कार्यों, वैज्ञानिक दस्तावेजों तथा दैनिक संचार में अधिक से अधिक हिंदी प्रयोग हेतु प्रेरित किया।

समापन समारोह में निदेशक महोदया द्वारा सभी विजेताओं को उनके उत्कृष्ट प्रदर्शन के लिए प्रशस्ति-पत्र एवं स्मृति-चिह्न प्रदान किए गए और प्रतिभागियों का उत्साहवर्धन किया गया। पुरस्कार वितरण के बाद उपस्थित अतिथियों एवं प्रतिभागियों के साथ एक संवाद सत्र आयोजित हुआ, जिसमें हिंदी में कार्य करने के व्यावहारिक पहलुओं, तकनीकी शब्दावली के मानकीकरण और डिजिटल प्लेटफार्मों पर हिंदी के उपयोग को बढ़ाने पर विचार-विमर्श किया गया। इस अवसर पर विद्यालयों की ओर से भी भविष्य में संयुक्त रूप से हिंदी से जुड़े रचनात्मक कार्यक्रम आयोजित करने की सहमति व्यक्त की गई।

हिंदी चेतना मास, 2025 का सफल संचालन संस्थान की राजभाषा मास आयोजन समिति के मार्गदर्शन में किया गया। इस आयोजन के समन्वयन में डॉ. प्रवीण जाखड़ (अध्यक्ष) के नेतृत्व में डॉ. तानिया सेठ, डॉ. अर्पिता महापात्रा, डॉ. नीतीश कुमार, देवेन्द्र कुमार सडांगी एवं ज्योति रंजन दास सहित अन्य सदस्यों की महत्वपूर्ण भूमिका रही।



Hindi Timahi Karyashala

दिनांक	कार्यक्रम/ प्रतियोगिता	संयोजक / सह-संयोजक
04सितम्बर2025	निबंध लेखन	डॉ. अर्पिता महापात्रा, वैज्ञानिक
09सितम्बर2025	हिंदीटंकणप्रतियोगिता	डॉ. प्रवीण जाखड़, प्रधान वैज्ञानिक श्री शाजी ए., सहायक मुख्य तकनीकी अधिकारी
12सितम्बर2025	हिन्दी शोध आधारित पोस्टर प्रस्तुति (केवल वैज्ञानिकों के लिए)	डॉ. सुकांत कुमार षडंगी, प्रभागाध्यक्ष श्री संजय कुमार बेहेरा, तकनीकी अधिकारी
15सितम्बर2025	शोध पत्र प्रस्तुति	डॉ. अरुण कुमार पंडा, प्रभागाध्यक्ष श्रीभिकारी चरण बेहेरा, वरिष्ठ तकनीकी अधिकारी
17सितम्बर2025	स्वरचित कविता लेखन	डॉ. नीतीश कुमार, वैज्ञानिक

दिनांक	कार्यक्रम/ प्रतियोगिता	संयोजक / सह-संयोजक
19सितम्बर2025	हिंदी वाद-विवाद प्रतियोगिता	डॉ. लिपि दास, प्रधान वैज्ञानिक श्री हरीश केएम, प्रशासनिक अधिकारी
23सितम्बर2025	आशु भाषण	डॉ. तानिया सेठ, वैज्ञानिक डॉ. नीतीश कुमार, वैज्ञानिक
25सितम्बर2025	हिंदी पहेली प्रतियोगिता	डॉ. अनंत सरकार, प्रधान वैज्ञानिक डॉ. गायत्री महारणा, वरिष्ठ वैज्ञानिक

Skill Development Programmes at ICAR-CIWA

ICAR-CIWA, in collaboration with VOTI and the Fisheries & Animal Resources Development (FARD) Department, Government of Odisha, organized three training programmes on “Promoting Women Entrepreneurship in Poultry Production

Poultry production is a dynamic and growing sector with immense potential for income generation, nutritional security, and employment, especially for women in rural areas. With minimal land requirements, quick returns, and easy scalability, poultry farming offers an ideal entry point for women to participate actively in agriculture and allied sectors. ICAR-Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar, in collaboration with the Veterinary Officers' Training Institute (VOTI) and the Fisheries & Animal Resources Development (FARD) Department, Government of Odisha, organized three training programmes of four days duration each on “Promoting Women Entrepreneurship in Poultry Production” from 6th May 2025 to 13th June 2025. This programme was designed to enhance the skills and knowledge of women entrepreneurs in key areas of poultry production, with a focus on poultry housing and management, disease

prevention, feeding practices, entrepreneurship development, and effective marketing strategies. The women entrepreneurs were also informed about the ongoing poultry development schemes of the Animal Resources Development Department, Government of Odisha, to help them leverage available benefits. As part of the training, exposure visits were also made to the institute's poultry demonstration unit, the Environmentally Controlled Poultry Farm, and the Central Poultry Development Organization in Bhubaneswar. These visits aimed to showcase technological advancements and provide hands-on experience and practical insights into various aspects of poultry farming. Dr. Mridula Devi, Director, ICAR-CIWA, urged the participants to dream big and take confident steps towards becoming successful poultry entrepreneurs. She further stated that the institute is committed to supporting women in agriculture through capacity building,

technology transfer, and policy advocacy. This training programme is a part of that commitment, and objective is to equip the women farmers not only with technical know-how but also with the confidence and entrepreneurial mindset required to manage and scale poultry ventures successfully. Dr. Arun Kumar Panda, HOD and Course

Coordinator appreciated the participants for their enthusiastic involvement and hope this initiative sparks successful poultry ventures that uplift livelihoods and inspire rural women toward economic self-reliance. A total of 90 women entrepreneurs from various Self Help Groups (SHG) from 8 districts of Odisha participated in the training programme.



MAJOR PROGRAMMES

SCSP

Empowering Scheduled Caste farm women is central to inclusive rural development. During July to September 2025, a series of Capacity Building Programmes (CBPs) were organized across different districts of Odisha to enhance the skills and entrepreneurial capacity of farm women through Custom Hiring Centres (CHCs). The programmes focused on sustainable and innovative livelihood options such as generating thread-based eco-packaging materials, processing and value addition of horticultural crops, and millet-based product diversification for higher income. A total of 10 farm women each participated in the CBPs held at Balipatna, Khordha, and Delang, Puri in July, while 50 women from Begunia were trained on millet value addition. Additionally, 25 women at Srimukh, Nimapada, Puri received training on the operation and maintenance of modern farm tools and equipment, coupled with entrepreneurship development.

In the quarter the capacity building continued with a larger outreach. Thirty women each participated in the advanced training sessions on eco-packaging material generation and horticultural crop value addition at Balipatna, Khordha. The CHC-based programmes in Jaleswar and Baliapal, Baleswar reached 140 farm women, focusing on winter vegetable cultivation, use of agricultural machinery, record keeping, and sewing of diversified eco-products. Furthermore, 44 women in Benipur, Puri were trained on scientific backyard poultry management for income enhancement, while 25 women from Badatota, Satyabadi, Puri gained skills in entrepreneurship development using modern agricultural tools and sewing machinery. These initiatives collectively empowered rural women to diversify their livelihoods, improve income generation, and adopt sustainable farm-based enterprises.

Sl. No.	Details	Venue	Date	Farm Women	Team Members
1.	Capacity Building Programme on Women Entrepreneurship through Custom Hiring Centre	Rahania, Bhandaripokhari, Bhadrak	16-18 July 2025	50	Dr. Lipi Das Mr. A.C. Hemrom
2.	Capacity Building Programme on 'Processing & Value Addition of Horticultural Crops' through Custom Hiring Centre (CHC)	Muninda, Delang, Puri	22-24 July 2025	10	Dr. Tania Seth

Sl. No.	Details	Venue	Date	Farm Women	Team Members
3.	Capacity Building Programme on 'Generating Sustainable thread-based Eco-packaging Material' & Custom Hiring Centre establishment	Sarangadhar SahooPatna, Balipatna, Khordha	16-18 July 2025	30	Dr. Ankita Sahu
4.	Skill development programme on 'Vocal for Local: A strategy for doubling of income through processing and value addition'	Badaberana, Khorda	6-8 Aug 2025	40	Dr. S. Swain Er. P.K Rout
5.	Capacity Building Programme 'Value addition in millet crops for higher income'	Begunia	6-8 Aug 2025	50	Dr. S. Swain
6.	Capacity Building Programme on 'Operation and maintenance of modern farm tools and Equipment and Entrepreneurship Development'	Srimukh, Nimapada, Puri	12-14 Aug 2025	25	Dr. Neetish Kumar Mr. A.C. Hemrom
7.	Capacity Building Programme on 'Processing & Value Addition of Horticultural Crops' through Custom Hiring Centre (CHC)	Dhanahara, Balipatna, Khordha	16-18 Sep 2025	30	Dr. Ankita Sahu
8.	Skill development Programme on entrepreneurship development by use of farm equipment and tools	Satasankha, Puri	25-27 Sep 2025	10	Dr. Arpita Mohapatra
9.	Training programme on 'Scientific management of backyard poultry for higher income among farm women'	Benipur, Gop, Puri	19 Sep 2025	44	Dr. A.K. Panda Mr. B.C. Behera

Sl. No.	Details	Venue	Date	Farm Women	Team Members
10.	Training programme on 'Cultivation of winter vegetables, sewing different types of clothes/ bags and record keeping at CHC'	Sugo, Jaleswar, Baleswar	18-20 Sep 2025	47	Dr. Ananta Sarkar Mr. B.C. Behera
11.	Training programme on 'Cultivation of winter vegetables, sewing different types of clothes/ bags and record keeping at CHC.	Badapal, Baliapal, Baleswar	18-20 Sep 2025	46	Dr. Ananta Sarkar Mr. B.C. Behera
12.	Capacity Building programme on 'Entrepreneurship development with Modern Agricultural Tools and Sewing Machinery'	Badatota, Satyabadi, Puri	15-17 Sep 2025	25	Dr. Neetish Kumar Mr. B.C. Behera

Swachha Bharat Abhiyan

As part of Swachhotsav 2025, a series of nationwide cleanliness and community-engagement activities were conducted from 17th Sep- 2nd 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.



Swachhotsav celebration at ICAR-CIWA

Date	Activities	No. of Participants		No. of VVIPs/VIPs attended the program
		Male	Female	
17 Sep 2025	Display of banner at prominent places, taking Swachhata pledge Swachhata pledge in offices, educational institutions, public spaces etc.	78	33	-
18 Sep 2025	Transformation of Cleanliness Target Units (CTUs): Identification of difficult and dirty spots (black spots) and clearing it in a time-bound manner. Site preparedness & Execution. Site transformation and maintenance	32	7	-
19 Sep 2025	Organization of poetry, essay, painting, and poster competitions in educational institutions, schools, and Anganwadi Centres. Conducting slogan-writing competitions, quizzes, related to the Swachh Bharat Mission (SBM) to engage younger audiences and raise awareness.	69	39	-
20 Sep 2025	Organisation of Swachh Sujal Gaon, Waste to Art, Clean Street Food, etc.-Initiatives to raise awareness and promote best practices in cleanliness and hygiene. Arrangement of Practical demonstrations on hygiene, waste management, and sustainable practices. Mobilisation of NGOs and SHGs - Engaging local NGOs and Self-Help Groups to support Swachhata initiatives. Organisation of Outreach Campaigns for Swachhata Community engagement activities to increase awareness and participation at the grassroots level.	-	35	1
21 Sep 2025	Safai Mitra Suraksha Shivirs: Organisation of preventive health check-ups as part of the Shivirs/Camps to benefit sanitation workers and their families. Facilitation of linkage with welfare schemes to ensure access to social and health benefits for sanitation workers and their dependents	14	31	2
22 Sep 2025	Organisation of symbolic human chain events where people join hands to raise awareness and demonstrate commitment to cleanliness and sanitation. Conduct of 'Reduce, Reuse, Recycle' activities aligned with Mission LiFE (Lifestyle for Environment) to promote sustainable practices.	78	33	-

Date	Activities	No. of Participants		No. of VVIPs/VIPs attended the program
		Male	Female	
23 Sep 2025	Clean Green Utsav: Organisation of eco-friendly and zero-waste celebrations, integrating citizen participation and partner mobilization to tackle general Swachhata challenges across local bodies. Carrying out of cleaning activities in Offices and institutional buildings Public transport hubs.	25	18	-
24 Sep 2025	Tourist Spots, Religious & Spiritual Places: Coordination with government departments, tourism bodies, and educational institutions for comprehensive participation in cleanliness drives at high-footfall locations.	18	12	-
25 Sep 2025	Ek Din, Ek Ghanta, Ek Saath - Nationwide Shramdan: Organisation of simultaneous nationwide Shramdan on 25 th September 2025, encouraging citizens to contribute one hour of voluntary Swachhata service. Fostering community involvement and collective responsibility for the nation's cleanliness.	78	33	-
26 Sep 2025	Best Innovation under Swachh Bharat Mission (SBM)- Cultural Fests; Recognition of the most unique and inspiring initiatives undertaken by local bodies to integrate citizens with Swachhata, local art, music & culture.	-	15	1
7 Sep 2025	Waste to Art Initiatives: Creative initiatives at sanitation parks to transform waste into art and promote community pride. Display of decorative murals to enhance waste management facilities and encouraging active community engagement.	30	5	2
28 Sep 2025	Facilitation of access to comprehensive health services for Safai Mitras, sanitation workers, and their dependents, including enrolment in government schemes such as Ayushman Bharat, PM-JAY, Mission Indradhanush, and other relevant state-level programs to ensure better health and well-being.	3	3	-
29 Sep 2025	Provision of PPE kits and protective gear to safeguard sanitation workers from occupational hazards. Organisation of special drives, including walkathons and	22		-

Date	Activities	No. of Participants		No. of VVIPs/VIPs attended the program
		Male	Female	
	cycle rallies, to raise awareness about sanitation, hygiene, and safety practices among workers and the community.		18	
30 Sep 2025	Social Welfare Linkages and Registration of Sanitation Work Facilitation of registration and linkage of sanitation workers and their families with various social welfare schemes to ensure comprehensive benefits.	12	9	-

HUMAN RESOURCE DEVELOPMENT

Training/ Seminar/ Symposium /Workshop organized

S. No.	Programme title	Venue and organisers	Date	Attended by
1	Online training programme for E-Office users	ICAR (online)	17 July 2025	All Scientists
2	Training programme on Stress management	Indian Institute of Public Administration (online)	5 July 2025	Dr. Tanuja S
3	Hindi Workshop- सरकारी कर्मियों के लिए उन्नत इंटरनेट खोज (Search) एवं शब्दकोश निर्माण	ICAR-IARI, New Delhi (online)	22 July 2025	Dr. Neetish Kumar
4	Training on 'Effective techniques to Manage Stress'	Karmayogi Bharat under DoPT (online)	4 July 2025	Dr.Lipi Das
5	Training on 'Managing and Leading Teams'	Karmayogi Bharat under DoPT (online)	5 July 2025	Dr.Lipi Das
6	Workshop on 'Empowering Agricultural Innovation with MATLAB, Simulink & Thingspeak'	ICAR-NISA, Ranchi	5-7 Aug 2025	Dr. Neetish Kumar

7	Workshop on ‘Research and Development in Space Technology for Agricultural Transformation by ICAR’	NASC Complex, New Delhi, ICAR	23 Aug 2025	Dr. Neetish Kumar
8	National Conference on System of crop intensification 2025 for Climate-smart, water and nutrient efficient Agriculture	ICAR-IIWM, Bhubaneswar	4-5 Sep 2025	Dr. Ankita Sahu
9	Workshop on Methodologies for Gender Responsive Research in Agriculture and Extension	ICAR-CIWA, Bhubaneswar	25 Sep 2025	All Scientists
10	Workshop on NLM Scheme	Directorate of A.H. Dept. at VOTI, Bhubaneswar	14 Aug 2025	Dr. Arpita Mohapatra
11	Third half-yearly meeting on Town Official Language Implementation	CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar	22 Aug 2025	Dr. Arpita Mohapatra
12	Hindi Workshop on Prasasanik Prasikhana	ICAR-CIWA Bhubaneswar	23 Sep 2025	All ICAR-CIWA Staff
13	Workshop on ‘Gendered Analysis of Rice Crop Loss Burden: Stakeholder Dialogue & Learning Exchange for Collaborative Reflection	ICAR-CRRI, Cuttack	26 Sep 2025	Dr. A K. Panda
14	Training on ‘Ergonomic Design Guidelines for Agricultural Tools, Equipment and Workplaces to Increase Workers Productivity and Minimize Drudgery and Health risks’	ICAR-CIAE, Bhopal	08-12 Sep 2025	Dr. G. Moharana Dr. S. Swain

EXTENSION ACTIVITIES

A. Training, Workshops, Demonstrations, Field Day & Awareness Programmes

S.No.	Programme	Location	Duration	No. of participants	Coordinator/ Team
1.	Inception workshop	Beguniapal, Dhenkanal	4 July 2025	34	Dr. Tania Seth
2.	Training on 'Scientific feeding Practices in livestock for augmenting productivity & higher income by women farmers'	Taltamal, Kajipatna, Puri, Odisha	16 July 2025	40	Dr. A.K. Panda
3.	Training programme on Empowering farm women through Improved Livestock & poultry farming	Kathakot and Mamdalpur, Jagatsinghpur	1 Aug 2025	40	Dr. B. Sahoo Dr. A. Mohapatra
4.	Training cum exposure visit and demonstration on Fodder production and conservation to Dairy farmers from OMFED, OMTDC	ICAR-CIWA	18 July 2025	23	Dr. B. Sahoo
5.	Health Camp on 'Nano Selenium- an innovative approach towards mitigating heat stress and enhancing reproductive performance of Binjharpuri cattle'	Binjharpur, Jajpur	1 Aug 2025	40	Dr. Arpita Mohapatra
6.	3-days CBP on 'Natural farming based Bio-input resource production' and Establishment of Women-led community Bio-input resource production unit	Dhanahara, Balipatna, Khordha	25-27 Aug 2025	30	Dr. Ankita Sahu

S.No.	Programme	Location	Duration	No. of participants	Coordinator/ Team
7.	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	ICAR-CIWA	18-22 Aug 2025	33	Dr. B. Sahoo Dr. D.N Sarangi
8.	CIWA Krushi Upayogi Gyan Mela-2024	ICAR-CIWA	02-05 Sep 2025	29	Dr. B. Sahoo Dr. A. Mohapatra



Exposure visit at ICAR-CIWA



Capacity building programme on Bio-input resource production units

Internship Programmes and Guidance of Students

ICAR-CIWA has been actively involved in guiding postgraduate and doctoral students across multiple disciplines. A total of 8 students have been mentored through M.Sc. and Ph.D. research programmes. Among them, 6 are M.Sc. students from Agronomy, Fruit Science & Horticultural Technology, Vegetable Science, Home Science, and Community Science, and 2 are Ph.D. scholars from Fisheries Economics, Extension, and Statistics. Of the students guided, 6 are girls

and 2 are boys, with research durations ranging from 2 to 3 years, in collaboration with OUAT, Bhubaneswar and ICAR-CIFE, Mumbai.

In addition to research guidance, CIWA has contributed to academic teaching through a 6-month course module offered at the IARI Cuttack hub, covering production technologies in fruit, plantation, ornamental, MAP crops, and landscaping, with 24 students enrolled.

B. Exhibitions

- ICAR-CIWA showcased the Institute's technologies at an Exhibition organised during ICAR Foundation Day on 16 July 2025 at NASC, ICAR, New Delhi.
- ICAR-CIWA showcased the Institute's technologies at an Exhibition organized during 'National Conference on System of crop intensification 2025 for Climate-smart, water and nutrient efficient Agriculture' organized by ICAR-IIWM, Bhubaneswar and Indian Society of Water Management (Odisha Chapter), Bhubaneswar during 4-5 Sep 2025 at ICAR-IIWM Bhubaneswar.



Participation of ICAR-CIWA in Exhibitions

Radio/ TV talks delivered by Scientists (Action: All concerned)

S. No	Title/ Theme	Radio/ TV talks	Date	Delivered by
1	Value Addition in Milk	Radio talk		Dr. A. Mohapatra
2	Barsa Dine unnat gopalan dwara adhika aya	Radio talk	21 July 2025	Dr. B. Sahoo

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S. No.	Title	Registration No.	Institute
1.	Database on Dynamics of Women in Agriculture (DDWA)	Filed on 10 July 2025	ICAR-CIWA
2.	Technology video entitled Climate resilient gender responsive integrated aqua-	Filed on 07 July 2025	ICAR-CIWA

S. No.	Title	Registration No.	Institute
	horticultural practices for livelihood diversification filed		
3.	Database on Livelihood of Women in Agriculture (DLWA)	Filed on 19 July 2025	ICAR-CIWA

Technology Certification

1. Model 'Sustainable She-Preneurship in Mushroom cultivation Model (2S2M)' having UIN: ICAR-AED-CIWA-Model- 2025-011 dated 16 July 2025.
2. Technology 'Rotary Goat Feeding System' having UIN: ICAR-AED-CIWA-Technology-2025-012 dated 16 July 2025



PUBLICATIONS

A. Research Papers

1. Behera S., Kar I., Yadav A. and Sahu A. (2025). Exploring Waterlogging Challenges, Causes and Mitigating Strategies in Maize (*Zea mays* L.). *Journal of Agronomy and Crop Science* 211:e70109
<https://doi.org/10.1111/jac.70109>
2. Das L., Mishra S.K. and Pattanaik S. (2025). Designing and Testing of Gender Sensitive Approaches in Rice Farming. *International Journal of Agriculture Extension and Social Development* 8(7): 268-272.
3. Goswami D., Bala M., Mridula D., Vishwakarma R.K., Guru P.N. (2025) Green Solvent Extraction of Health Boosting Phenolics from Pigeon Pea Husk. *Scientific Reports*, <https://doi.org/10.1038/s41598-025-14197-4>.
4. 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.
5. Panda A.K., Sarkar A., Devi M., Moharana G. and Patra M. (2025). Feminization and its impact on Indian Agriculture. *International Journal of Agriculture Extension and Social Development* 8(8): 776-780.
6. Sahu A., Radha T.K., Das L., Sahoo L.P., Mridula D. and Sarangi S.K. (2025). Comparative effects of *Azotobacter vinelandii* and urea on soil enzyme activities and fruit quality of papaya (*Carica papaya* L.). *Scientia Horticulturae* 351: 114402. <https://doi.org/10.1016/j.scienta.2025>.
7. Shukla K.K., Kishore K., Pradhan K., Swain S.C., Sahoo M.R., Bhol R., Samal S., Sahu A., Mishra A. (2025). Evaluation of gamma irradiation effect on morpho-physiological and biochemical traits of dragon fruit (*Selenicereus monacanthus*) under water stress environment. *Plant Physiology Reports*. <https://doi.org/10.1007/s40502-025-00893-w>

B. Rajbhasha Patrika

- मृदुला देवी, प्रवीण जाखड़, अर्पिता महापात्रा एवं नीतीश कुमार (2024) सशक्ति- (अर्धवार्षिक राजभाषा पत्रिका), वर्ष 2, अंक 2, (जुलाई- दिसम्बर), भा.कृ.अनु.प. – सीवा, भुवनेश्वर, कुल पृष्ठ 106 |

C. Training Manual

1. Sahoo B., Mridula D., Sharma R., Mohapatra A., Sarangi S.K. and Sarangi D.N. (2025). Fodder Promotion and Conservation Technology for Improving Livestock Productivity. ICAR-Central Institute for Women in Agriculture, Bhubaneswar, Odisha. pp. 1-137.

D. Chapters in Book/ Training Compendium

1. Das L. 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* by Amity University, Noida and MANAGE, Hyderabad.
2. Panda, A.K. (2025). Promoting Azolla Cultivation as an Alternate Green Fodder to Augment Livestock Productivity. In: *Training Manual on Fodder Promotion and Conservation Technology for Improving Livestock Productivity*. ICAR-Central Institute for Women in Agriculture, Bhubaneswar, Odisha. pp. 94-99

E. Popular Articles/ E-publications

1. Mhatre C.S., Mohapatra M., Mahapatra M., Moharan G. and Mohapatra A. (2025). Smart Farms, Smarter Women: The Rise of AI in Indian Agriculture. *Innovative Agriculture* 1(10):133-135.
2. Oddi N., Panigrahy S.R. and Mohapatra A. (2025). Superfoods in the Market: Unlocking New Agribusiness Opportunities. *Vigyan Varta* 6(10): 6-9.
3. Panda A.K. and Sahoo B. (2025). Moringa Leaf Meal: A Sustainable Protein Source for Poultry Nutrition. *Vigyan Varta* 6(7): 50-52.
4. Panda A.K., Mohapatra A. and Swain B.B. (2025). Gender-inclusive climate resilience practices in livestock: An Indian perspective. *Vigyan Varta* 6(8): 184-187.
5. Sahoo L.P., Prusty M. and Sahu A. (2025). कृषक महिलाओं की आय सृजन और पोषण के लिए नारियल आधारित फसल प्रणाली. 16 July 2025. *Krushisewa*
6. Sarangi D.N. and Sarangi, S.K. (2025). Rice bean a multipurpose crop. *Krishi Gyan Sudha*. July 2025: 97-101.
7. अर्पिता महापात्र. (2025). पोल्ट्री मांस के मूल्य वर्धित उत्पाद: भारतीय महिलाओं के लिए एक अभिनव उद्यमिता विकल्प। अर्पिष। राजभाषा पुस्तिका । भा.कृ.अनु.प.-राष्ट्रीय मांस अनुसंधान संस्थान, हैदराबाद 3: पृष्ठ 107 ।

F. Article in Newspapers

- Behera B.C., Panda A.K. and Mishra S. (2025). *Vikashita Bharat 2047 paiin Krushi Mahilanka Bhumika: Sujog and Pratibandhak*. *Palli Tharu Delhi* 1(03): pp. 4.
- Behera B.C., Panda A.K. and Sarkar A. (2025) *Krushi Dwara Mahila udhyogi Bikas*. *KrushakSambad* 37(7): pp. 02.
- Behera B.C., Panda A.K. and Sarkar A. (2025). *Adivashi Mahilankara Samajika-Arthika ebnga Jibana-Jibika upare Alokapata*. *Bhokila Peta* 12(27): pp. 02.
- Mohapatra A., Panigrahy S.R., Mohapatra S. (2025). *Bharata ra krushi vyavastha re haat ra bhumika*. *Palli Tharu Delhi*. 31st Aug - 6th Sep issue: pp. 06.

G. Abstract/ Presentation in conferences/ Seminars/ Workshops

- G. Dipti, L. Ansu, Kumar N. (2025). A Comprehensive Analysis for an Intelligent System using Fuzzy Logic. In: 1st International Conference on *Knowledge Driven Approaches in VLSI and RF Design* (KeDAR-2025). Department of Electronics Engineering, National Institute of Technology, Uttarakhand. 5-6 September 2025: Paper id- 151.
- G. Dipti, L. Ansu, Kumar N. (2025). A Machine Learning–Driven Architecture for IoMT: Literature Review, Challenges, and Future Scope. In: 1st International Conference on *Knowledge Driven Approaches in VLSI and RF Design* (KeDAR-2025). Department of Electronics Engineering, National Institute of Technology, Uttarakhand. 5-6 September 2025: Paper id- 151.

AWARDS / ACHIEVEMENTS / RECOGNITIONS

- Dr. Tanuja S received the ‘Most Impactful article of the month’ for the technical article entitled ‘Communication and Rural Women: Voices for Change’ by VigyanVarta for the month of June, 2025.
- Dr. S.K. Sarangi Chaired the session of the International Conference ‘Evergreen Revolution - The Pathway to

Biohappiness’ to commemorate centenary of Prof. M. S. Swaminathan-Preparatory Workshop on Farmers’ Voices: Moving Towards Biohappiness at Bharat Ratna C. Subramaniam Auditorium (NAS Complex), New Delhi on 7 Aug 2025

Lectures delivered

- Dr. B. Sahoo delivered a lecture on ‘Improved Livestock Farming in Small Ruminant Production System’ for class of B.Sc. (Ag.) 1st year students at ICAR-CRRI, Cuttack on 25 July 2025.
- Dr. P. Jakhar delivered a lecture on ‘Importance of Integrating Soil and Land Use Governance with Gender-Responsive Policies’ in National Consultation of Family Farmers at NASC Complex, New Delhi on 25 July 2025
- Dr. Lipi Das delivered a lecture on ‘Transforming Urban Spaces: Women’s Participation in Agriculture and Community Gardens’ in an online

programme of Amity University, Noida and MANAGE, Hyderabad on ‘Transforming Cities through Urban Agriculture and Community Gardening Practices’ on 31 July, 2025

- Dr. A. K. Panda delivered a lecture on ‘Scientific Feeding Practices in Livestock for Enhancing Productivity, Profitability & Sustainability’ in a training programme on ‘Fodder Promotion for improving livestock Productivity for Paravets & Fodder Officers at ICAR-CIWA on 19 Aug 2025
- Dr. Ankita Sahu delivered a lecture on ‘Mango-pineapple Intercropping model for enhanced productivity and profitability’

Internship prog. Of B.Sc. Agril. Students from SOA, Bhubaneswar at ICAR-CIWA on 23 Sep 2025

- Dr. B.Sahoo delivered a lecture on ‘Conservation of green fodder through Silage making & enrichment of crop residues: Valorization of fodder for enhanced livestock production’ Training on Fodder Promotion for improving livestock Productivity for Paravets & Fodder Officers at ICAR-CIWA on 21 Aug and 4 Sep 2025.
- Dr. B.Sahoo delivered a lecture on ‘Complete feed block, balanced feed preparation and economics in fodder-based feeding system for augmenting livestock productivity’ Training on Fodder Promotion for improving livestock Productivity for Paravets & Fodder Officers at ICAR-CIWA on 22 Aug and 5 Sep 2025.
- Dr. B.Sahoo delivered a lecture on ‘Conservation of green fodder & value addition of fodder for augmenting livestock productivity in fodder-based ecosystem’ Training on Fodder Promotion for improving livestock Productivity for Paravets & Fodder Officers at ICAR-CIWA on 11 Sep 2025.
- Dr. B.Sahoo delivered a lecture on ‘Conservation of green fodder & value addition of fodder for augmenting livestock productivity in fodder-based ecosystem’ Training on Fodder Promotion for improving livestock Productivity for Paravets & Fodder Officers at ICAR-CIWA on 18 Sep 2025
- Dr. B.Sahoo delivered a lecture on ‘Valorization of feed and fodder for enhanced livestock production’ at 2nd National Level Training cum Workshop on Advancements in Fodder Management in India (AFMI-2025) during 22-26 September 2025 at ICAR-CIWA on 24 Sep 2025
- Dr. B.Sahoo delivered a lecture on ‘Mainstreaming Gender equity in fodder-based livestock system’ at 2nd National

Level Training cum Workshop on Advancements in Fodder Management in India (AFMI-2025) during 22-26 September 2025 at ICAR-CIWA on 22 Aug and 25 Sep 2025

- Dr. S.K. Sarangi delivered a lecture on ‘Sustainable fodder production towards one health’ in ICAR-CIWA collaborative training programme with Animal Husbandry & Veterinary Services, FARD, Govt. of Odisha on “Fodder Promotion for Improving Livestock Productivity through Inclusive Approaches” on 18 Aug 2025
- Dr. S.K. Sarangi delivered a lecture on ‘Agronomical package of practices in major forage crops to maximize fodder production’ in ICAR-CIWA collaborative training programme with Animal Husbandry & Veterinary Services, FARD, Govt. of Odisha on “Fodder Promotion for Improving Livestock Productivity through Inclusive Approaches” on 3 Sep 2025, 10 Sep 2025, 17 Sep 2025
- Dr. S.K. Sarangi delivered a lecture on ‘Role of Farm Women for Sustainable Livelihoods through IFS’ at State Institute of Training and Extension (SITE), Baramunda, Bhubaneswar during the training programme on “Integrated Farming Systems for Sustainable Livelihoods in Agriculture and Allied Sector” organized for Group “C” (AOs/VAWs) staff of DA&FP(O) on 17 Sep 2025
- Dr. S.K. Sarangi delivered a lecture on ‘Zero tillage potato cultivation & integration of vegetables in paddy’ during Workshop-cum-Training Programme on Bio-fortified Tuber Crops Integrated Cropping System at ICAR-CIWA on 18 Sep 2025.
- Dr. S.K. Sarangi delivered a lecture on ‘Agronomical package of practices in major forage crops to maximize fodder production’ during 2nd National-level training cum workshop on “Advancements in Fodder Management in India (AFMI–

2025)” being organized by CEAH Bengaluru in association with VOTI, Bhubaneswar on 25 Sep 2025.

- Dr. Arpita Mohapatra delivered a lecture on ‘Role of organized dairy sector for livelihood security of farm families’ during Internship prog. Of B.Sc. Agril. Students from SOA, Bhubaneswar on 26 Sep 2025
- Dr. Arpita Mohapatra delivered a lecture on ‘Sustainable Nutrition for Livestock: Hydroponic Fodder in the Era of Smart Farming’ during training programme on ‘Fodder Promotion for Improving Livestock Productivity through Inclusive pproaches’ at ICAR-CIWA on 18 Aug and 17 Sep 2025

- Dr. A.K. Panda delivered a lecture on ‘Scientific Feeding Practices in Livestock for Enhancing Productivity, Profitability & Sustainability’ during training programme on ‘Fodder Promotion for Improving Livestock Productivity through Inclusive approaches’ at ICAR-CIWA on 03 Sep 2025 and 09 Sep 2025
- Dr. A.K. Panda delivered a lecture on ‘Scientific feeding practices for augmenting productivity in Livestock during training programme on ‘Advancements in Fodder Management In India (AFMI-2025)’ at ICAR-CIWA, Bhubaneswar on 23 Sep 2025.

ରାଜ୍ୟରେ କୃଷି ଉଦ୍ୟୋଗୀ କର୍ମଶାଳା



ବାର୍ଷିକ ପୂର୍ବ, ୧୮।୭ (ସମିଧ) : ଭାରତୀୟ ଉଦ୍ୟୋଗୀ କୃଷି ଉଦ୍ୟୋଗୀ ମାନଙ୍କୁ ନେଇ ଏକ ତିନି ଦିନିଆ କର୍ମଶାଳା ଅନୁଷ୍ଠିତ ହୋଇଯାଇଛି । କଳା ଠାକୁର ଉତ୍ପାଦକ ସଂଘ ପରିଚାଳନା ନିର୍ଦ୍ଦେଶିକା ମମତା ସାମଲଙ୍କ ପ୍ରତ୍ୟକ୍ଷ ତତ୍ତ୍ୱାବଧାନରେ ଏହି କର୍ମଶାଳା ଆୟୋଜିତ ହୋଇଥିଲା । ଏଥିରେ କେନ୍ଦ୍ରୀୟ ମହିଳା କୃଷିରତ ସଂସ୍ଥାନ ପକ୍ଷରୁ ପ୍ରଧାନ ବୈଜ୍ଞାନିକ ଡ.ଲିପି ଦାସ ଯୋଗ ଦେଇ ଆଧୁନିକ କୃଷି ଉପରେ ବିଭିନ୍ନ ପ୍ରଶ୍ନୋତ୍ତର ପ୍ରଦାନ କରିଥିଲେ । ଉଭାବନ

ହୋଇଥିବା ଆଧୁନିକ ଯନ୍ତ୍ରପାତି ଦ୍ୱାରା ମହିଳାମାନେ କେଉଁଭଳି କୃଷି ଉଦ୍ୟୋଗୀ ହୋଇପାରିବେ ସେନେଇ କର୍ମଶାଳାରେ ପରାମର୍ଶ ଦିଆଯାଇଥିଲା । କର୍ମଶାଳାରେ ଶାଫ୍ଟି କର୍ମିଟି ଗଠନ ହେବା ପରେ ଆଧୁନିକ ଯନ୍ତ୍ରପାତି ଦ୍ୱାରା ସେମାନଙ୍କୁ ନେଇ କ୍ଷେତ୍ର ପରିଦର୍ଶନ କରାଯାଇଥିଲା । ଏଥିରେ ୫୦ରୁ ଊର୍ଦ୍ଧ୍ୱ ମହିଳା ଯୋଗ ଦେଇଥିଲେ । କାର୍ଯ୍ୟକ୍ରମକୁ ପ୍ରତିମା କୁଅଁର, କିରଣବାଳା ସୋରେନ, ଅନୁସନ୍ଧ୍ୟା ବାରିକ, ସନ୍ଧ୍ୟା ରାଣା ଦାସ, ସୁଭାଷିନୀ ମହାପାତ୍ର, ସବୁଜା ମାଝୀ ପ୍ରମୁଖ ପରିଚାଳନା କରିଥିଲେ ।

କୃଷି ଉଦ୍ୟୋଗୀ କର୍ମଶାଳା



॥ ପ୍ରଭାକୃଷ୍ଣ ॥ ଭାରତୀୟ ଉଦ୍ୟୋଗୀ କୃଷି ଉଦ୍ୟୋଗୀ ମାନଙ୍କୁ ନେଇ ଏକ ତିନି ଦିନିଆ କର୍ମଶାଳା ଅନୁଷ୍ଠିତ ହୋଇଯାଇଛି । କଳା ଠାକୁର ଉତ୍ପାଦକ ସଂଘ ପରିଚାଳନା ନିର୍ଦ୍ଦେଶିକା ମମତା ସାମଲଙ୍କ ପ୍ରତ୍ୟକ୍ଷ ତତ୍ତ୍ୱାବଧାନରେ ଏହି କର୍ମଶାଳା ଆୟୋଜିତ ହୋଇଥିଲା । ଏଥିରେ କେନ୍ଦ୍ରୀୟ ମହିଳା କୃଷିରତ ସଂସ୍ଥାନ ପକ୍ଷରୁ ପ୍ରଧାନ ବୈଜ୍ଞାନିକ ଡ.ଲିପି ଦାସ ଯୋଗ ଦେଇ ଆଧୁନିକ କୃଷି ଉପରେ ବିଭିନ୍ନ ପ୍ରଶ୍ନୋତ୍ତର ପ୍ରଦାନ କରିଥିଲେ । ଉଭାବନ ହୋଇଥିବା ଆଧୁନିକ ଯନ୍ତ୍ରପାତି ଦ୍ୱାରା ମହିଳା ମାନେ କେଉଁ ଭଳି କୃଷି ଉଦ୍ୟୋଗୀ ହୋଇ ପାରିବେ ସେନେଇ କର୍ମଶାଳାରେ ପରାମର୍ଶ ଦିଆ ଯାଇଥିଲା । କର୍ମ ଶାଳାରେ ତିନି ଗୋଟି କମିଟି ଗଠନ ହେବା ପରେ ଆଧୁନିକ ଯନ୍ତ୍ରପାତି ଦ୍ୱାରା ସେମାନଙ୍କୁ ନେଇ କ୍ଷେତ୍ର ପରିଦର୍ଶନ କରା ଯାଇଥିଲା । ଏଥିରେ ୫୦ରୁ ଊର୍ଦ୍ଧ୍ୱ ମହିଳା ଯୋଗ ଦେଇଥିଲେ । କାର୍ଯ୍ୟକ୍ରମକୁ ପ୍ରତିମା କୁଅଁର, କିରଣବାଳା ସୋରେନ, ଅନୁସନ୍ଧ୍ୟା ବାରିକ, ସନ୍ଧ୍ୟା ରାଣା ଦାସ, ସୁଭାଷିନୀ ମହାପାତ୍ର, ସବୁଜା ମାଝୀ ପ୍ରମୁଖ ପରିଚାଳନା କରିଥିଲେ ।

Orissa TODAY

ICAR-CIWA established a Women-led Custom Hiring Centre on 'Processing and Value addition of Horticultural crops'

Khordha--(TNB)20/9-ICAR-Central Institute for Women in Agriculture (ICAR-CIWA), Bhubaneswar, has established a Women-led Custom Hiring Centre on Processing and Value Addition of Horticultural Crops at Dhanahara village, Balipatna, Khordha, to promote value addition and agri-entrepreneurship. Earlier, under the project "Development of Horticulture-based Chemical-free Farming Model for Entrepreneurship and Strengthening Self-Reliance among Farm Women", ICAR-CIWA formed the Jeevika Women Farmers' Interest Group. With support from



the Government's SCSP sub-plan, the group was equipped with post-harvest machineries such as vegetable shredder, spice grinder, potato peeler, and heat sealing machine to set up a small processing unit-cum-Custom Hiring Centre. The unit will produce quality value-added products like ground spices (chilli, coriander, turmeric, cumin, garam masala), generating additional income for members, while also serving as a training hub for other women's groups. More than 50 farm women in the region are already benefitting from this initiative. To further strengthen skills, ICAR-CIWA organized a three-day training programme on "Processing and Value Addition of Horticultural Crops" from 16-18 September 2025, coordinated by Dr. Ankita Sahu, Scientist, ICAR-CIWA. The initiative is expected to enhance women's income, build sustainable livelihoods, and foster women-led agri-entrepreneurship in the rural ecosystem.

N.E Times

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A group of approximately ten women are standing in a line outside a building. They are dressed in traditional Indian clothing, including sarees and salwar kameez. The woman on the far left is wearing a pink and gold sari. The woman on the far right is wearing a white and blue sari. They are all smiling and looking towards the camera. The building behind them has a sign that reads "K. J. Somaiya Institute of Management Studies & Research".

[illegible][illegible]

equipped with essential post-harvest machinery including vegetable shredders, spice grinders, potato peelers, and heat sealing machines.

These tools have enabled the setup of a small-scale processing unit-cum-custom hiring centre, allowing the women to produce high-quality, value-added products such as ground spices — including chilli, turmeric, coriander, cumin,

Supported by the Government of India's Scheduled Caste Sub Plan (SCSP), the group has been

their income but also serves as a training hub for other aspiring women entrepreneurs. To further build capacity, a three-day training programme on Processing and Value Addition of Horticultural Crops was organized from September 16 to 18 under the coordination of Dr. Ankita Sahu, Scientist at ICAR-CIWA.

This innovative model is expected to create sustainable livelihoods, strengthen self-reliance, and promote women-led development in the rural agrarian landscape – aligning with national goals of inclusive and resilient agricultural growth.

ମହିଳା ଉଦ୍ୟାନ କୃଷକଙ୍କ କର୍ମଶାଳା

THE KALINGA CHRONICLE
Daily Edition: K.N.S. No. 007ENG/2015/2020
Popular Front's Daily of Odisha

ICAR-CIWA Established Women-Led Bio-Input Resource Production Unit to Promote She-preneurship.

Khordha -(KCN) 28/8-ICAR-Central Institute for Women in Agriculture (ICAR-CIWA) Bhubaneswar has established a Women-led Bio-Input Resource Production Unit at Dhanahara village Balipatna, Khordha to promote natural and organic farming through women's active participation. The initiative under the project "Development of Horticulture-based Chemical-free Farming Model for Entrepreneurship and Strengthening Self-reliance among Farm Women", has mobilized over 50 farm women into a Farmers Interest Group-'Dhanahara Organics'. The group will produce quality bio-inputs such as Jeevamrut, Ghanajeevamrut, mixed residue vermicompost and Handi Khata to ensure timely and affordable access for farmers. To enhance the skill development of farm women a three day training programme on "Natural Farming-based Bio-input Resource Production" was also organized by ICAR. Co-ordinated by Dr.Ankita Sahu, Scientist, ICAR-CIWA, the initiative is expected to boost women's income, strengthen sustainable Livelihoods, and promote women-led agri-entrepreneurship in the rural ecosystem.



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DUMANI MAIL
English Daily

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Khordha (DNC) ICAR-Central Institute for Women in Agriculture (ICAR-CIWA) Bhubaneswar has established a Women-led Bio-Input Resource Production Unit at Dhanahara village Balipatna, Khordha to promote natural and organic farming through women's active participation. The initiative under the project "Development of Horticulture-based Chemical-free Farming Model for Entrepreneurship and Strengthening Self-reliance among Farm Women", has mobilized over 50 farm women into a Farmers Interest Group-'Dhanahara Organics'. The group will produce quality bio-inputs such as Jeevamrut, Ghanajeevamrut, mixed residue vermicompost and Handi Khata to ensure timely and affordable access for farmers. To enhance the skill development of farm women a three day training programme on "Natural Farming-based Bio-input Resource Production" was also organized by ICAR. Co-ordinated by Dr.Ankita Sahu, Scientist, ICAR-CIWA, the initiative is expected to boost women's income, strengthen sustainable Livelihoods, and promote women-led agri-entrepreneurship in the rural ecosystem.



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अनुसूचित जाति उप-योजना के अंतर्गत तीन दिवसीय प्रशिक्षण कार्यक्रम संपन्न

भुवनेश्वर, (विप्र) : अनुसूचित जाति उप-योजना के अंतर्गत तीन दिवसीय प्रशिक्षण कार्यक्रम का आयोजन किया गया। भुवनेश्वर के भाकअनुप केन्द्रीय कृषि महिला संस्थान के वैज्ञानिक डा. नीतीश कुमार के मार्गदर्शन में पुरी जिले के सत्यबादी प्रखंड स्थित बड़ोटोता ग्राम में 15 से 17 सितंबर तक यह प्रशिक्षण कार्यक्रम चला। इस प्रशिक्षण का मुख्य उद्देश्य कृषक महिलाओं को आधुनिक कृषि उपकरणों के उपयोग और रखरखाव से परिचित करना तथा उद्यमिता विकास में उनकी भूमिका को सशक्त बनाना था, जिसमें कुल 25 प्रतिभागी महिलाओं ने सक्रिय सहभागिता की। यह प्रशिक्षण न केवल तकनीकी जानकारी के विस्तार का माध्यम बना, बल्कि महिलाओं के मनोबल और नेतृत्व क्षमता को एक नई ऊँचाई



प्रदान करने वाला पाथवेन सिद्ध हुआ। कार्यक्रम की रूपरेखा ऐसी थी जहाँ कस्टम हायरिंग सेंटर की आवश्यकता, महत्व एवं संचालन की बारीकियों से महिलाएँ भली-भाँति अवगत हो सकीं। प्रशिक्षण के दौरान उन्हें कृषि व संबद्ध वनों, जिनमें बैटरी चालित स्प्रेयर, पम्प, सिलाई मशीन आदि शामिल हैं, का विस्तृत परिचय दिया गया।

24/09/2025 | Bhubaneswar | Page-07
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ICAR-CIWA establishes women-led Bio-Input Resource Production Unit

STATESMAN NEWS SERVICE
KHORDHA, 28 AUGUST: ICAR-Central Institute for Women in Agriculture (ICAR-CIWA) Bhubaneswar, established a Women-led Bio-Input Resource Production Unit at Dhanahara village Balipatna, Khordha to promote natural and organic farming through women's active participation. The initiative under the project "Development of Horticulture-based Chemical-free Farming Model for Entrepreneurship and Strengthening Self-reliance among Farm Women", has mobilized over 50 women to form a group 'Dhanahara Organics'. The group will produce quality bio-inputs such as Jeevamrut, Ghanajeevamrut, mixed residue vermicompost and Handi Khata. To enhance the skill development of farm women a three day training programme on "Natural Farming-based Bio-input Resource Production" was also organized by ICAR. Co-ordinated by Dr.Ankita Sahu, Scientist, ICAR-CIWA. The initiative is expected to boost women's income and promote women-led agri-entrepreneurship in the rural ecosystem.

दीनबन्धु
24/09/2025 | Page No: 2
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कृषक महिलाओं को आधुनिक कृषि उपकरणों के उपयोग और रखरखाव की दी जानकारी

दीनबन्धु, भोपाल।
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अनुसूचित जाति उप-योजना के अंतर्गत तीन दिवसीय प्रशिक्षण कार्यक्रम, डॉ. नीतीश कुमार, वैज्ञानिक, भा.कु.अनु.प.-केन्द्रीय कृषि महिला संस्थान, भुवनेश्वर के मार्गदर्शन में, पुरी जिले के सत्यबादी प्रखंड स्थित बड़ोटोता ग्राम में 15 से 17 सितम्बर 2025 तक सफलतापूर्वक सम्पन्न हुआ। इस प्रशिक्षण प्रशिक्षण का मुख्य उद्देश्य कृषक महिलाओं को आधुनिक कृषि उपकरणों के उपयोग और रखरखाव से परिचित कराना तथा उद्यमिता विकास में उनकी भूमिका को सशक्त बनाना था जिसमें कुल 25 प्रतिभागी महिलाओं ने सक्रिय सहभागिता की। यह प्रशिक्षण न केवल तकनीकी जानकारी के विस्तार का माध्यम बना, बल्कि महिलाओं के मनोबल और नेतृत्व क्षमता को एक नई ऊँचाई प्रदान करने वाला पाथवेन सिद्ध हुआ। कार्यक्रम की रूपरेखा ऐसी थी जहाँ कस्टम हायरिंग सेंटर की आवश्यकता, महत्व एवं संचालन की बारीकियों से महिलाएँ भली-भाँति अवगत हो सकीं। प्रशिक्षण के दौरान उन्हें कृषि व संबद्ध वनों-जिनमें बैटरी चालित स्प्रेयर, पम्प, सिलाई मशीन आदि शामिल हैं-का विस्तृत परिचय दिया गया।



स्प्रेयर, पम्प, सिलाई मशीन आदि शामिल हैं-का विस्तृत परिचय दिया गया। मशीनों के अवयव, कार्य-सिद्धांत, निर्यात अनुसंधान, ग्रीसिंग, सफाई, सुरक्षा-सावधानियों, धागा डालना, तन्तुता संतुलन (टैशन सेटिंग) तथा वाबिन भरने आदि की व्यावहारिक शिक्षा विशेषज्ञों द्वारा दी गई, जिससे महिलाएँ आत्मविश्वास के साथ इन वनों का उपयोग और रखरखाव कर सकें।



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