



Krishi Vigyan Kendra, Ramgarh

ICAR - Research Complex for Eastern Region, Patna

Mandu, Ramgarh (Jharkhand)-825316



ICAR-RCER, KVK, Ramgarh Newsletter July to December 2023

Mandate of KVK

**Technology Assessment
and Demonstration for its
Application and Capacity
Development**



Activities of KVK

- On-farm testing to assess the location specificity of agricultural technologies under various farming systems.
- Frontline demonstrations to establish production potential of technologies on the farmers' fields
- Capacity development of farmers and extension personnel to update their knowledge and skills on modern agricultural technologies
- To work as Knowledge and Resource Centre of agricultural technologies for supporting initiatives of public, private and voluntary sectors in improving the agricultural economy of the district.
- Provide farm advisories using ICT and other media means on varied subjects of interest to farmers.
- In addition, KVK would produce quality technological products (seed, planting material, bio-agents, livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and converge with ongoing schemes and programme within the mandate of KVK

Director's Desk



“It is with great pride and pleasure that I present the latest edition of the Krishi Vigyan Kendra (KVK), Ramgarh Newsletter, a platform that highlights the significant achievements and initiatives undertaken by our dedicated team. This newsletter serves as a bridge between Krishi Vigyan Kendra and the farming community, showcasing our continuous efforts in promoting sustainable agricultural practices, enhancing farmers’ knowledge, and fostering rural development. Over the past months, KVK has successfully conducted numerous programs, workshops, and trainings aimed at improving the livelihoods of farmers. Through our initiatives, we have empowered farmers with modern techniques in crop production, livestock management, and the adoption of innovative technologies. Our team of scientists and experts has worked tirelessly to provide region-specific solutions, address emerging agricultural challenges, and ensure that farmers are equipped to face the dynamic conditions of today’s farming landscape. This newsletter also sheds light on the valuable partnerships we have fostered with various stakeholders, including government bodies, educational institutions, and local communities. These collaborations have significantly amplified our outreach and impact, bringing the benefits of science-led interventions to a wider audience. As we move forward, our commitment to the farming community remains unwavering. I invite you to explore the pages of this newsletter to gain insights into our recent activities. Together, let us continue to build a prosperous, sustainable future for agriculture and rural livelihoods”.

Anup Das

Demonstration of Drought-Tolerant Rice Varieties

A demonstration of various drought-tolerant rice varieties was conducted across multiple areas to assess their performance under water-stressed conditions. Four varieties, namely Swarna Shakti Dhan, Swarna Shreya, CR Dhan 320, and IR 64 drt-1, were introduced to a total of 130 farmers covering 45 hectares. Swarna Shakti Dhan, Swarna Shreya, CR Dhan 320, and IR 64 drt-1 produced yields of 44.24, 42.89, 44.82, and 39.3 q/ha, respectively, showing increases of 24.26%, 23.35%, 28.79%, and 10.70% over the farmer's practice. CR Dhan 320 demonstrated the highest yield increase of 28.79%, outperforming the check yield by 34.80 q/ha. These results clearly indicate that the adoption of drought-tolerant rice varieties can significantly enhance productivity, offering a practical solution for farmers facing challenges due to erratic rainfall and drought. These varieties provide resilience in adverse climatic conditions, contributing to improved food security and livelihoods.

Table: 01 Performance of Drought Tolerant variety of Rice

Crop	Variety	No. of Farmers	Area (ha)	Yield (q/ha)		Yield Increase (%)
				Demo	Check	
Rice	Swarna Shakti Dhan	25	10	44.24	35.6	24.26
Rice	Swarna Shreya	25	10	42.89	34.77	23.35
Rice	CR Dhan 320	25	10	44.82	34.80	28.79
Rice	IR 64 drt-1	55	15	39.3	35.5	10.70



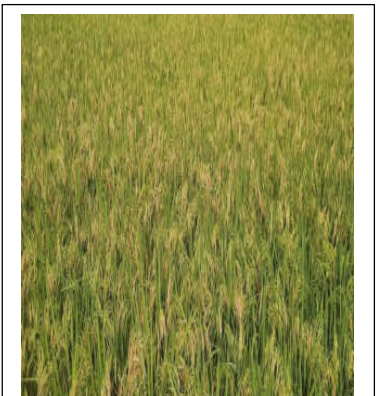
Swarna Shakti Dhan



Swarna Shreya



CR Dhan 320



IR 64 drt-1

Demonstration of Finger Millet

The demonstration of Finger Millet focused on showcasing the high-yielding variety, Cv. A-404, across 20



hectares with 60 participating farmers. The objective of this demonstration was to promote the adoption of improved millet varieties to enhance crop productivity, particularly in Rainfed farming system. The results showed that Cv. A-404 produced a yield of 17.52 q/ha, an 18.37% increase compared to the check yield of 14.80

q/ha. This demonstrates the potential of high-yielding millet varieties to improve farmers' income and food security in drought-prone areas. The demonstration aimed to encourage farmers to adopt more resilient and productive millet varieties.

Table: 02 Performance of Finger Millet

Crop	Variety	No. of Farmers	Area (ha)	Yield (q/ha)		Yield Increase (%)
				Demo	Check	
Finger Millet	A-404	60	20	17.52	14.80	18.37

Demonstration of Kharif Vegetables in Upland Ramgarh, Jharkhand

A demonstration of Kharif vegetables was conducted in the upland region of Ramgarh, Jharkhand, to promote high-yielding and disease-resistant vegetable varieties. The aim was to enhance productivity and resilience against common diseases affecting crops in this area. Three vegetables were demonstrated in Kharif 2023 viz. Bottle gourd, Brinjal, and Tomato. In the demonstration, 20 farmers grew the powdery mildew and downy mildew-tolerant bottle gourd variety, Swarna Sneha, over 2 hectares. The yield reached 206.7 q/ha, showing a 23.10% increase over the check yield of 167.9 q/ha. Similarly, the bacterial wilt-resistant brinjal variety, Swarna Shyamali, cultivated by 50 farmers on 5 hectares, yielded 435.8 q/ha, a 26.46% increase. Additionally, 30 farmers cultivated the bacterial wilt-resistant tomato variety, Swarna Sampada, over 3 hectares, achieving a yield of 643.0 q/ha, a 20.54% increase. These demonstrations highlight the potential of disease-resistant vegetable varieties to improve yields and boost farmer income in upland areas.

Table: 03 Performance of Kharif Vegetables in Upland

Crop	Variety	No. of Farmers	Area (ha)	Yield (q/ha)		Yield Increase (%)
				Demo	Check	
Bottle Gourd	Swarna Sneha	20	2	206.7	180.0	14.83
Brinjal	Swarna Shyamali	50	5	435.8	344.6	26.46
Tomato	Swarna Sampada	30	3	643.0	533.4	20.54

**Swarna Sneha****Swarna Shyamali****Swarna Sampada**

Training programmes

A series of training programmes was conducted from July to December 2023, focusing on various agricultural topics for different target groups. The objective was to enhance the knowledge and skills of practicing farmers, rural youth, and extension functionaries to improve agricultural practices and productivity. A total of 20 one-day training programs were organized for practicing farmers, with 549 participants (239 males and 310 female). Additionally, 6 five-day training programs sessions were conducted for rural youth, involving 165 participants (64 males and 101 female), aimed at building capacity in modern farming techniques. Two one-day training sessions were held for extension functionaries, with 51 participants (25 males and 26 female), to improve their ability to disseminate agricultural information effectively.

Table: 04 Details of Training Programmes (July to December 2023)

Particulars	No. of Training	Duration (days)	No of participants / beneficiaries		Total No. of Participants
			Male	Female	
Practicing farmers	20	1	239	310	549
Rural Youth	6	5	64	101	165
Extension functionaries	2	1	25	26	51

Scheduled Caste Sub-Plan (SCSP) program

Training Conducted: A total of 12 training programs were conducted on various agricultural enterprises, including goat farming, poultry, mushroom cultivation, summer vegetable cultivation, high-value crop production, protected vegetable production, nutritional gardening, soil, and water conservation. A total of 370 Scheduled Caste farmers and farm women participated in these programs.

Crop demonstration: Crop demonstrations were conducted in the farmers' fields of Indrabad village, Ramgarh, with the aim of promoting scientific farming techniques, increasing productivity, and enhancing yields and income for over 400 Scheduled Caste farmers. The demonstrations included Rice (Cv. Swarna Shakti Dhan) on 10 hectares, Rice (Cv. IR 64 drt-1) on 5 hectares, and Rice (Cv. CR Dhan 320) on 10 hectares, Maize (Cv. Bio 9540) on 12 hectares. Additionally, Lentil (Cv. HUL-57) was demonstrated on 5 hectares, Mustard (Cv. PM-30) on 10 hectares, and Pigeon Pea (Cv. IPA-203) on 12 hectares. Finger Millet (Cv. A-404) was demonstrated on 5 hectares, Tomato (Cv. Swarna Sampada) on 5 hectares and Brinjal (Cv. Swarna Shyamali) on 5 hectares.

Awareness Programme: More than 400 farmers, farm women, rural youth, and extension functionaries participated in various awareness programs covering topics such as animal health camps, Kisan melas, food and nutritional security, soil health, and exposure visits. These programs were organized both on-campus and off-campus through group meetings, Gosthis (discussion sessions), Kisan melas, and farmer-scientist interactions at the village level and at the Krishi Vigyan Kendra (KVK).

Tribal Sub Plan (TSP)

Training Conducted: Sixteen training programs covering various agricultural and allied subjects, such as nursery management, crop production technology, high-value crop production, natural farming, nutritional gardening, soil and water conservation technology, protected vegetable production, and off-season vegetable cultivation techniques, were conducted both on-campus and off-campus. A total of 482 participants, including farmers, farm women, rural youth, and extension functionaries, took part in these programmes.

Crop demonstration: Demonstrations of various crops were conducted to promote scientific farming techniques, enhance productivity, and boost yields and income for over 500 tribal farmers. The crops demonstrated included Rice varieties (Swarna Shreya, IR 64 drt-1, and CR Dhan 320) on 5 hectares, Lentil (HUL-57) on 1 hectare, Mustard (PM-30) on 2 hectares, Pigeon Pea (IPA-203) on 5 hectares, Bottle Gourd (Swarna Sneha) on 1 hectare, Sponge Gourd (Swarna Prabha) on 1 hectare, Ridge Gourd (Swarna Sawani) on 1 hectare, Vegetable Pea (Arkel) on 1 hectare, Faba Bean (Swarna Safal) on 1 hectare, and Cowpea varieties (Swarna Mukut and Swarna Harita) on 1 hectare. These demonstrations were carried out in farmers' fields in the villages of Jobla, Chhotkachumba, and Lodhma.



Awareness Programme: A total of 545 farmers, farm women, rural youth, and extension functionaries participated in 10 awareness programs covering topics such as "Swachhata Hi Sewa," food and nutritional security, soil health, animal health, and natural farming. These programs were organized both on-campus and off-campus through group meetings, Gosthis (discussion sessions), Kisan melas, and farmer-scientist interactions.



Natural farming

Awareness Programme: A total of 1,537 farmers, farm women, rural youth, and extension functionaries participated in 40 awareness programs focused on the expansion of natural farming. These programs were held both on-campus and off-campus through group meetings, Gosthis (discussion sessions), Kisan melas, and farmer-scientist interactions, with many organized during the "Viksit Bharat Sankalp Yatra" initiative by the Government of India.

Training Conducted: Ten training programs on the expansion of natural farming were conducted both on-campus and off-campus, with a total of 310 farmers, farm women, rural youth, and extension functionaries participating.

Crop demonstration: Demonstrations of various crops, including Rice (Swarna Shreya) on 1 hectare, Lentil (HUL-57) on 1 hectare, Mustard (PM-30) on 1 hectare, Pigeon Pea (IPA-203) on 1 hectare, Bottle Gourd (Swarna Sneha) on 1 hectare, Sponge Gourd (Swarna Prabha) on 1 hectare, Ridge Gourd (Swarna Sawani) on 1 hectare, and Cowpea varieties (Swarna Mukut and Swarna Harita) on 1 hectare, were conducted in farmers' fields in the villages of Kodi, Bicha, Armadag, and Lem. These demonstrations aimed to promote and encourage the adoption of natural farming practices.



Extension Activities

KVK Ramgarh conducted various extension activities aimed at enhancing the knowledge and skills of farmers and rural communities from July to December 2023. The objective of these activities was to promote sustainable agricultural practices, improve productivity, and enhance the livelihood of the farming community. Key activities included Kisan Mela, field days, exhibitions, and group discussions, involving a total of 1972 farmer visits to KVK and 356 participants in advisory services. These events provided hand-on learning, exposure to modern technologies, and problem-solving techniques for farmers. Workshops, method demonstrations, and scientific field visits helped participants improve their understanding of new practices. The benefits of these activities were increased awareness, practical knowledge, and adoption of innovative agricultural practices, leading to enhanced productivity, income generation, and better farm management among the beneficiaries. These efforts contribute to empowering farmers and improving rural livelihoods.

Table: 05

Details of Extension Activities

Extension Activity	No. of activities	Male	Female	Total
Kisan Mela	01	354	247	601
Field Day	08	153	103	256
Kisan Ghosthi	03	77	90	167
Exhibition organized	02	91	126	217
Participation in exhibition	02	182	135	317
Film Show	01	17	22	39
Method Demonstrations	03	61	104	165
Workshop	02	44	68	112
Group discussion	03	38	116	154
Lectures delivered as resource persons	14	125	148	273
Advisory Services	29	151	205	356
Scientific visit to farmers field	27	211	192	403

Farmers visit to KVK	141	880	1092	1972
Diagnostic visits	14	15	38	53
Exposure visits	03	63	118	181
Ex-trainees Sammelan	03	45	62	107
Soil health Camp	02	25	30	55
Animal Health Camp	02	43	56	96
Soil test campaigns	06	72	74	146
Self Help Group Conveners meetings	05	11	108	119
Newspaper coverage	26			

Table: 06**Celebration of Important Day**

Extension Activity	Date	Male	Female	Total no. of Participants
Independence Day	15.08.2023	21	28	49
Parthenium Awareness Week	16-22.08.2023	36	45	81
Gandhi Jayanti	02.10.2023	39	48	87
Mahila Kisan Diwas	15.10.2023	12	45	57
World Food Day	16.10.2023	12	25	37
Vigilance Awareness Week	30.10.2023-05.11.2023	10	16	26
World Soil Day	05.12.2023	36	68	104
Kisan Diwas	23.12.2023	26	18	44

KVK, Ramgarh Welcomes Esteemed Director Dr. Anup Das on His Inaugural Visit

In a momentous occasion for KVK Ramgarh, Dr. Anup Das, the distinguished Director of ICAR-RCER Patna, visited the KVK, Ramgarh for the first time. Accompanied by Dr. Naresh Chandra, Dr. R.S. Pan, and Dr. Rakesh Kumar. Dr. Das engaged with the dedicated staff to explore ongoing initiatives and visionary strategies for advancing agriculture. During his enlightening visit, Dr. Das toured the vibrant instructional and demonstration farms, where he shared invaluable insights into innovative agricultural practices. He underscored the critical



need for meticulously characterizing rice fallow areas and identifying cutting-edge technologies for demonstration units using the RCT approach. Additionally, he emphasized the importance of comprehensive crop demonstrations featuring resilient millets and nutrient-dense rice beans, advocating for a robust comparison of organic, inorganic, and natural treatment methods. Moreover, Dr. Das



championed sustainable rehabilitation strategies for coalmine-affected areas through transformative agroforestry practices. He urged the establishment of eco-friendly vermicomposting and dynamic mushroom cultivation units within the Integrated Farming System (IFS) model, reinforcing KVK Ramgarh's commitment to sustainable agricultural practices and community support. This inspiring visit highlighted Dr. Das's dedication to fostering innovation and sustainability in agriculture, ensuring that KVK Ramgarh remains a beacon of progress for local farmers and the broader agricultural community.

Director of ICAR-RCER, Patna Makes Maiden Visit to KVK Ramgarh

On June 5, 2023, Dr. Anup Das, the Director of ICAR RCER, Patna, visited KVK Ramgarh, accompanied by Dr. Bikash Sarkar. During this insightful visit, Dr. Das engaged with the entire KVK staff to learn about the ongoing activities and initiatives at the center. He visited various demonstration units, including the Integrated Farming System (IFS) unit and the nursery unit, providing valuable suggestions to enhance their operations and effectiveness.



Awareness program in agriculture under Mission Life style for Environment

The recent Awareness Programme in Agriculture, conducted under the Mission Lifestyle for Environment on June 5, 2023, highlighted key aspects of environmental conservation, healthy dietary habits, and the importance of nutritional gardens. Esteemed experts delivered a series of informative sessions emphasizing tree plantation's vital role in mitigating climate change, enhancing biodiversity, and preserving ecosystems for future generations. Participants learned about the nutritional benefits of incorporating millets into their diets, with experts discussing the presence of tannins, phytates, and phenols, which protect cells from damage and reduce the risk of metabolic diseases. The session aimed to encourage participants to make healthier dietary choices for improved well-being. Additionally, the program promoted the creation of nutritional gardens, offering insights into cultivating nutrient-rich produce at home to enhance food security and promote a balanced lifestyle. The active participation of 35 farmers from various villages showcased the community's growing awareness of the interconnectedness between environmental stewardship, nutrition, and sustainable agriculture.



Certificate Course on Integrated Nutrient Management (INM)

Krishi Vigyan Kendra, Ramgarh organized 15 days Certificate Course on Integrated Nutrient Management (INM) from 08.06.2023 to 22.06.2023. The program was inaugurated by Dr. Anup Das, Director of ICAR-RCER, Patna on 08.06.2023 underscored the importance of incorporating a technological approach in farming practices, highlighting the collective efforts required to enhance income generation through agriculture. The active participation of 40 input dealers and rural youth in the training program demonstrates the collective commitment to embracing innovative agricultural practices and fostering sustainable agricultural development. Throughout the training, participants gained valuable insights into various aspects of nutrient management, including the efficient use of fertilizers, the application of bio-fertilizers, methods for maintaining soil health, and quality control measures for bio-fertilizers. Additionally, the training also emphasized the significance of incorporating micro-nutrients to optimize crop yields and ensure overall soil fertility. The comprehensive training program not only equipped the participants with essential knowledge on integrated nutrient management but also empowered them to become key agents of change in their respective communities. By fostering a deeper understanding of sustainable agricultural practices and promoting the adoption of modern technologies, the program has effectively contributed to the development of a skilled workforce capable of driving agricultural progress and fostering economic growth within the region.



RAWE training Program

From August 1 to September 15, 2023, the Rural Agricultural Work Experience (RAWE) program for B.Sc. Agriculture students from Sai Nath University, Ranchi, provided a transformative experience at KVK, Ramgarh. Nine students participated in this hands-on program, designed to immerse them in practical agricultural learning while equipping them with essential career skills. The curriculum combined expert-led lectures on organic farming, Integrated Nutrient Management (INM), Integrated Pest Management (IPM), and protected vegetable cultivation, giving students a solid theoretical foundation. Practical experiences, such as participatory rural appraisals (PRA) and exposure to poultry, duck, and goat farming, broadened their understanding of diverse agricultural practices. A key focus was market-led extension strategies, helping students understand market dynamics and value chain management.





Hands-on training included nursery management, pruning fruit trees, and soil sampling. Overall, the program enriched their academic journey and prepared them to navigate real-world agricultural challenges effectively.

Exposure Visits of Farmers

In collaboration with NGOs Support and Jan Jagran Kendra, Hazaribagh, Krishi Vigyan Kendra, Ramgarh organized enriching exposure visits for local farmers to enhance agricultural practices in the region. These visits allowed farmers to explore the latest innovations and techniques at KVK, guided by agricultural experts. Farmers learned about cutting-edge methodologies, including the Integrated Farming System (IFS) model and specialized units for goat rearing, duck farming, and poultry production.



Emphasizing sustainable practices, they gained insights into High-Density Plantation (HDP) methods for mangoes, guavas, and lemons, as well as multi-tier orchard cultivation techniques. The visits also highlighted the importance of diversification and value addition in agriculture, with training on protected vegetable cultivation, advanced nursery techniques, and medicinal plant cultivation. Interactive sessions with experts facilitated knowledge exchange, fostering collaborative problem-solving. Additionally, demonstrations of automatic weather stations introduced farmers to data-driven decision-making for crop management.

Esteemed Director, ICAR RCER Patna share valuable insights during visits

On September 19th and 22nd, 2023, Dr. Anup Das, the esteemed Director of ICAR RCER Patna, visited KVK Ramgarh, where he engaged with the dedicated staff to gain insight into the center's ongoing initiatives. During his comprehensive tour, Dr. Das explored all demonstration units, including those for crops, fruits, and vegetables, as well as the Integrated Farming System (IFS) unit, nursery unit, and natural farming unit. He offered invaluable suggestions, particularly focusing on the newly established high-tech nursery, enhancing the center's commitment to innovation and excellence in agriculture.



Inauguration of Administrative building and Hi-tech Nursery

On October 31st, Krishi Vigyan Kendra (KVK), Ramgarh, celebrated the virtual inauguration of its new administrative building, marking a significant milestone. Chief Guest Dr. Himanshu Pathak, Secretary, DARE, and Director General of ICAR, New Delhi, along with special guests Dr. S.K. Chaudhary and Dr. U.S. Gautam, Dr. Anup Das, Director, ICAR Eastern Research Complex, Patna, Dr. Anjani Kumar, Director, ATARI, Patna graced the occasion. The ceremony



included the lighting of the lamp, the release of KVK's half-yearly newsletter, and a success story book featuring district farmers' achievements. A state-of-the-art Hi-tech nursery was also inaugurated, aimed at providing quality fruit and vegetable materials to local farmers. The event featured a seminar and exhibition on "Crop Diversification for Nutritional Security," showcasing innovative agricultural practices. Dr. Pathak praised KVK Ramgarh's role in disseminating technology to farmers, encouraging them to adopt scientific practices. Twenty progressive farmers were honoured for their contributions, and agricultural equipment was distributed to tribal farmers. The event concluded with a visit to KVK's demonstration unit.

Release of the half-yearly newsletter and a success story book

The half-yearly newsletter and a success story book were successfully released by the dignitary Dr. S.K. Chaudhary, DDG (NRM) Dr. U.S. Gautam, DDG (Extension), Dr. Anup Das, Director of ICAR Eastern Research Complex, Patna, and Dr. Anjani Kumar, Director of ATARI, Patna. This release marks a significant milestone in showcasing the achievements and progress of ongoing agricultural research and extension activities in the region. The success story book, in particular, highlights transformative initiatives that are making a positive impact on rural livelihoods.



Planted saplings on the KVK, Ramgarh premises

In a commendable step towards environmental sustainability, saplings were planted on the premises of KVK, Ramgarh by esteemed dignitaries, including Dr. S.K. Chaudhary, DDG (NRM), Dr. U.S. Gautam, DDG (Agricultural Extension), Dr. Anup Das, Director, ICAR- Research Complex for Eastern Region, Patna, and Dr. Anjani Kumar, Director, ATARI, Patna. This initiative reflects their commitment to promoting ecological balance and enhancing green cover, inspiring others to contribute towards a healthier and more sustainable future. Their efforts underscore the vital role of environmental stewardship in shaping a prosperous and eco-friendly agricultural landscape.



Dr. S.K. Chaudhary, DDG (NRM)



Dr. U.S. Gautam, DDG (Agri. Ext.)



Dr. Anjani Kumar, Director
ATARI, Patna



Dr. Anup Das, Director
ICAR-RCER, Patna

Special Cleanliness Campaign 3.0: Promoting Cleanliness and Community Engagement

From October 2nd to 31st, 2023, Krishi Vigyan Kendra, Ramgarh, led the Special Cleanliness Campaign 3.0. This initiative involved active participation from scientists, officers, and staff, who conducted daily cleanliness activities across the center. Key areas, including the main entrance, Integrated Farming System Unit, parking lot, goatry, poultry unit, demonstration unit, and nursery, were meticulously cleaned. The campaign also extended to the community, promoting cleanliness in local temples and adopted villages. Awareness sessions were held to educate residents and school children about the importance of hygiene, with a painting competition further engaging the youth. The initiative fostered a culture of responsibility, encouraging community members to take ownership of cleanliness efforts. Overall, the campaign not only enhanced the center's surroundings but also contributed to a broader goal of maintaining a cleaner, healthier environment.



Exposure Visits of School Children

In an effort to promote agricultural awareness among youth, school children from Ramgarh recently visited Krishi Vigyan Kendra. This educational journey allowed students to explore various technological advancements and demonstration units, providing insights into modern agricultural practices. They learned about innovative techniques, including the Integrated Farming System (IFS), goatery and duckery units, and poultry practices. The students witnessed High-Density Plantation (HDP) methods for mangoes, guavas, as well



as multitier orchards and protected vegetable cultivation. They were introduced to nutritional gardens and the cultivation of medicinal and aromatic plants, highlighting biodiversity's importance in agriculture. Additionally, the visit included observations of an Automatic Weather Station, illustrating how weather data informs agricultural decision Students also learned about sustainable practices for off-season and rice fallow cultivation of pulses, oilseeds, and vegetables. The interactive session with scientists encouraged engaging discussions and provided insights into potential career paths in science and agriculture.

Details of Exposure Visit of School Children

Name of school	Date of Exposure visit	No. of children
Public School Kujju, Ramgarh	15.11.2023	50
Sarvodaya Niketan Senior secondary school	20.12.2023	50
S.N. High School, Barkakana	26.12.2023	50

Live Telecast of PM Kisan Samman Sammelan cum Kisan Gosthi

The live telecast of PM Kisan Samman Sammelan cum Kisan Gosthi, held at Krishi Vigyan Kendra, Mandu, Ramgarh on November 15, 2023, was a momentous occasion for farmers from different villages of the district. The event commenced with the live telecast of PM Kisan Samman Sammelan, where Honorable Prime Minister Shri Narendra Modi released the 15th installment of the Kisan Samman Nidhi Yojana from Khunti, Jharkhand. This auspicious occasion coincided with Tribal Pride Day, dedicated to the birth anniversary of Lord Birsa Munda Ji, and Jharkhand Foundation Day. During the event, the Honorable Prime Minister also inaugurated several development projects in Jharkhand and gave the green signal to the Vikasit Bharat Sankalp Yatra, further emphasizing the government's commitment to rural development and agricultural advancement. The presence of

esteemed guests, including Mrs. Anita Devi, Mukhiya of Mandu Chatti Panchayat, and Mr. Baijnath Ram, Mukhiya of Mandudih Panchayat, added significance to the program. Their participation underscored the collective commitment towards rural development and agricultural prosperity. More than 100 farmers from different villages of the district attended the program, reflecting a strong community engagement and interest in government initiatives and agricultural advancements. The event served as a vital platform for farmers to stay informed about government schemes and policies while gaining valuable insights into modern agricultural practices.



Celebration of World Soil Day

World Soil Day was celebrated on December 5, 2023, at Krishi Vigyan Kendra, Ramgarh, attracting 104 farmers from various villages in the district. This enlightening program focused on enhancing soil health and fertility, serving as a platform for empowering farmers with practical knowledge essential for sustainable agriculture. A key highlight was the emphasis on balanced fertilizer use, tailored to individual soil needs determined through soil testing. Farmers learned about the significance of soil testing for optimizing crop productivity while preserving soil health and biodiversity. The event also included hands-on training sessions demonstrating proper soil sampling techniques, enabling farmers to collect accurate soil samples for assessment. Remarkably, 50 soil samples were collected during the event, showcasing the proactive engagement of the farming community in adopting better soil management practices. This celebration not only raised awareness but also strengthened the commitment to sustainable agriculture among local farmers.



Training on Feed and Fodder Management

On December 20, 2023, Krishi Vigyan Kendra, Ramgarh, and the National Seeds Corporation (NSC), Ranchi, collaborated to conduct a comprehensive training program on feed and fodder management. This initiative targeted Farmers Producer Organizations (FPOs), Farmers Producer Companies (FPCs), and input dealers/seed sellers across the state to enhance their expertise in modern agricultural practices. The training covered essential topics, including vegetable seed production techniques and best practices for optimizing seed quality and yield. Participants learned about



the benefits of protected vegetable cultivation to enhance productivity and profitability. Additionally, the program focused on greenfodder production techniques, emphasizing their importance in increasing milk production in Jharkhand. Experts provided insights on efficient fodder management methods to boost livestock productivity and livelihoods. Interactive sessions fostered discussions, allowing participants to seek clarifications and share experiences. Overall, this training exemplifies a collaborative approach to capacity building and knowledge dissemination in agriculture, empowering agri-entrepreneurs to navigate challenges and contribute to sustainable agricultural growth in the state.

Rabi Workshop

On December 21, 2023, Krishi Vigyan Kendra (KVK), Ramgarh, in collaboration with the District Agriculture Office, organized a highly impactful Rabi Workshop. The event was designed to empower local farmers with the knowledge and strategies essential for maximizing the productivity of Rabi crops, contributing to the agricultural development of the region. Experts from KVK, Ramgarh and the District Agriculture Office led interactive discussions on best practices, innovative techniques, and timely interventions. The workshop focused on selecting suitable Rabi crops based on local soil conditions, climate, and market demand. Crop rotation and diversification strategies were highlighted to boost yields and reduce risks. A significant emphasis was placed on soil health, where farmers were introduced to soil testing, nutrient management, and fertilization techniques. Integrated pest and disease management, incorporating cultural, biological, and chemical methods, was also thoroughly discussed. Water management practices and irrigation techniques were presented to help farmers optimize water use and improve crop resilience. The workshop concluded by exploring market trends, post-harvest handling, and value addition for Rabi crops, equipping farmers with tools to enhance their income and market competitiveness. This collaborative effort successfully aimed to drive agricultural advancement and positive change in the region.



District Agromet Advisory Services

The DAMU, KVK-Ramgarh, under ICAR-RCER, Patna, has issued 26 block-level Agromet Advisory bulletins in a bilingual format, significantly impacting agricultural information dissemination across the district. Utilizing Information and Communication Technology (ICT) tools, the advisory service has reached around 250 stakeholders and nearly 2980 progressive farmers. The popularity of this service stems from its comprehensive



coverage of critical topics, such as crop planning, harvesting techniques, and agronomic practices. These timely, region-specific bulletins have enabled farmers to make informed decisions and adopt best practices, boosting agricultural productivity. The bilingual approach has broadened accessibility, ensuring diverse stake holders benefit from the insights provided. This initiative demonstrates KVK-Ramgarh's commitment to inclusive agricultural development, supporting sustainable practices and innovative techniques. The consistent release of these bulletins highlights KVK's dedication to fostering growth and prosperity in the district's farming community while advancing the overall agricultural sector.



EDITORIAL BOARD

- Chairman** **Dr. Anup Das, Director, ICAR-RCER, Patna**
- Co-Chairman** **Dr. A.K. Singh, Head, ICARRCER, FSRCHPR, Plandu, Ranchi**
- Editor** **Dr. Sudhanshu Shekhar, Senior Scientist Cum Head, KVK, Ramgarh**
- Co-Editor** **Dr. Indra Jeet, SMS (Agricultural Extension), KVK, Ramgarh**
Dr. Dharamjit Kherwar, SMS (Horticulture), KVK, Ramgarh
Mr. Sunny Kumar, Farm Manager, KVK, Ramgarh

Compilation and layout design

- Mr. Shashi Kant Chaubey, Agromet Observer, GKMS-DAMU, KVK Ramgarh**
Mr. Roshan Kumar, LDC, KVK, Ramgarh