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IRRI International Rice Research Institute

APART RICE WEEKLY

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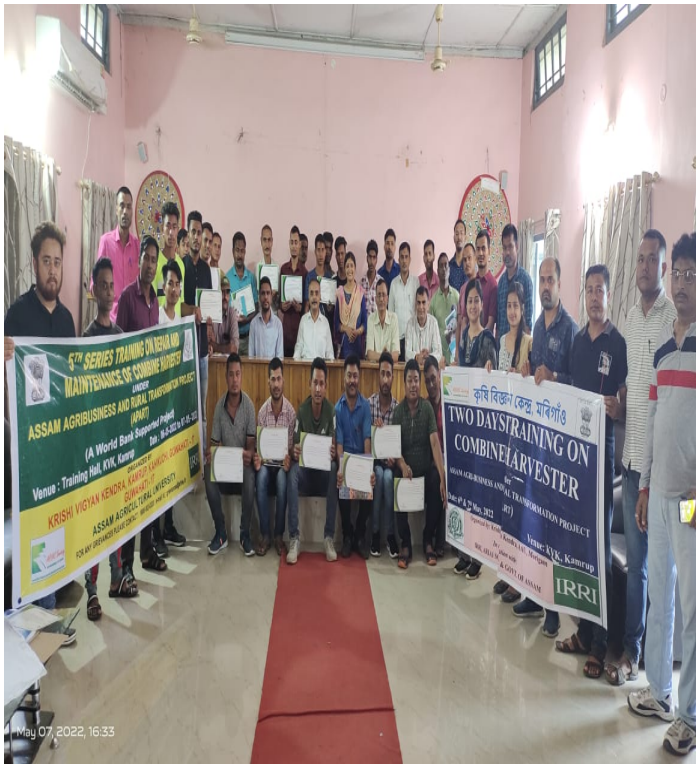
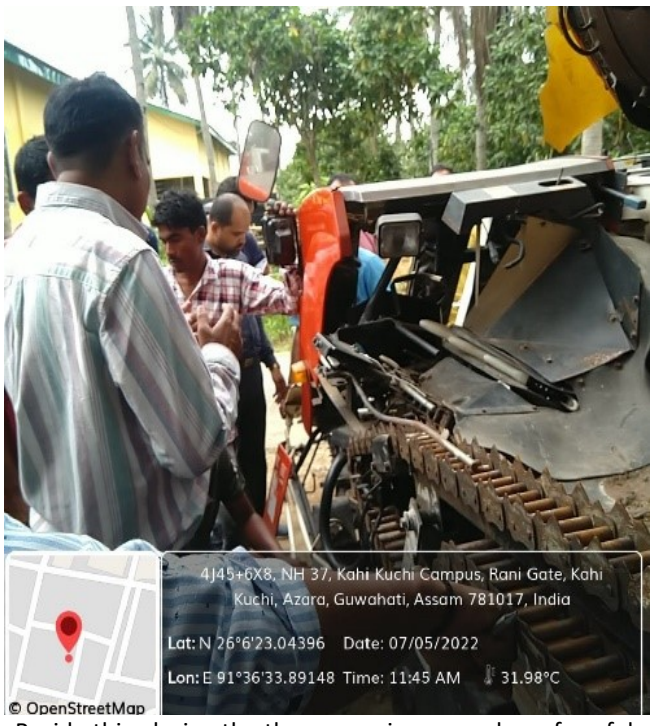
APART: RICE WEEKLY
(May 2-7, 2022)

Two-Days 5th Series Training on Repair and Maintenance of Combine harvester under APART

Two days 5th Series training on repair and maintenance of combine harvester under APART IRRI Objective II was successfully completed on May 6-7, 2022 at KVK Kamrup, Kahikuchi premises. The training was organized under APART by KVK, Kamrup officials with technical support and guidance of IRRI, Guwahati centre. Around 20 number of Chief Executive Officers (CEO) and Board of Directors (BODs) from Uttaran Custom hiring center (CHC), Kamrup and Ratnapeeth CHC, Goalpara had participated in the above mentioned training programme. The officials from different organizations were also present in the training programme, including Dr. Dhirendra Nath Kalita (Head, KVK, Kamrup), Dr. Promod Kumar Deka (Head- cum-Principal scientist CBBO, AAU, HRS, Kahikuchi), Mr. Vipin Kumar Ahlawat (Specialist, IRRI), Mr. Rohit Kumar Namdeo (Specialist, IRRI), Mr. Dharmesh Patel (Machinery Expert), Mr Mridupaban Mudoi (JR, IRRI), Dr. Munmi Bora (PA, APART, KVK, Kamrup), Mr. Dibakar Mohodi (APS, APART, KVK, Kamrup), Mr. Govind Singh (IRRI), Mr. Arup JyotiK akoti (RT, APART, KVK, Kamrup) and Mr. Ananta Gogoi (RT, APART, KVK, Kamrup).





The two-days training programme started with briefing and overview of the training by Dr. Dhirendra Nath Kalita. The two-days training programme comprised of one-day complete theory session and one day practical session. Interestingly, before starting the first day training session one pre-evaluation test was conducted to analyse the machinery or technology knowledge of the participants whether they were familiar or not about the specific machine. As per training schedule the first-day (theory) sessions were carried out by Mr. Vipin Kumar Ahlawat and Mr. Rohit Kumar Namdeo. Theoretically, they taught about the Combine harvester to the participants covering various contents such asrole of Combine harvester in modern agriculture sector, different components of practical importance in Combine harvester and their functions, working principle of Combine harvester, precaution and preventative steps (before, during and after) for operating the Combine harvester in field.

Beside this, during the theory session a number of useful videos and photos about Combine harvester were also shown to

the participants. As per the training agenda, the second day of the training session started with practical demonstration of the particular machine i.e. Combine harvester. The practical sessions werecarried out by the Mr. Dharmesh Patel, Combine harvester expert from Reliable Industries, Gujarat and Mr Govind Singh (IRRI). Additionally, dismantling and assembling of various components of Combine harvester were also covered on the second day of the practical session. After completion of the practical session along with post-evaluation test a short interactive session was also arranged among the participants to compare the gain in technology knowledge over and above the earlier knowledge they had before beginning of the training programme. Finally, the closing ceremony of two-days training program was done with certificate distribution to participants and vote of thanks by Mr. Dibakar Mohodi.

Contributors:

Dibakar Mohodi
APS, APART, KVK,Kamrup

Munmi Bora
PA, APART, KVK,Kamrup

Rice Value Chain Training and Demonstration held at KVK, Jorhat

A Rice Value Chain training and demonstration was organized by KVK Jorhat on May 6, 2022 at KVK, Jorhat. Introductory speech was given by Mr PlabanDebraj, Project Associate, KVK Jorhat. Overview of APART and its objectives were discussed by Dr. Sanjoy Borthakur, Senior Scientist & Head, KVK, Jorhat. During the training, Mr. Saurajyoti Baisya, Specialist, Postharvest and Rice Value Chain, IRRI, pointed out the approach of value chain in Assam and referred it as one of the most successful methods for linking farmers to markets and it may emerge in the upcoming harvesting season of the agricultural crops for value chain approach. This method not only assists farmers, but takes a system view with support all along the chain of interested actors who work together to improve their marketing prospects. Various benefits of value chain machineries, like portable rice mill, dry grinding machine, puffing machine, flake machine, etc., were discussed with the farmers and e-tutorial videos were also shown to the participants. During the training and demonstration, the value chain activities were also discussed with the participants which mainly includes: input supply, farm production, postharvest handling and processing, production and handling technologies, grading, packing, storage and transportation. Hands on training on use of Superbag was given to the participants. Moisture content of the paddy during harvesting, milling and storage was also shown to the farmers with the help of Digital Grain Moisture Meter. The participants were eager to use the value chain machineries that were shown during the training programme. The training and demonstration on rice value chain was a grand success with the collective effort from all the scientific staff, members and research technician of KVK, Jorhat. The training program concluded with vote of thanks by Mr. Plaban Debraj, Project Associate, KVK, Jorhat.

Postharvest Training and Demonstration held at KVK, Jorhat

A Postharvest training and demonstration was organized by KVK, Jorhat on May 2, 2022 at its HQ. Introductory speech was given by Mr. Rupjyoti Chutia, Programme Assistant (Computer), KVK, Jorhat. Overview of APART and its objectives were discussed by Dr Sanjoy Borthakur, Senior Scientist & Head, KVK, Jorhat. Dr.Rupam Borgohain, Principal Scientist and Nodal Officer, OPIU, APART attended the programme as Chief Guest and in his speech he elaborately discussed the

various prospects of the project and about the role of FPCs. During the training Mr. Saurajyoti Baisya, Specialist, Postharvest and rice value chain, IRRI, pointed out the approach of postharvest machinery usage in Assam and referred it as one of the most successful methods for making farmers aware of the fact that usage of Reaper, Combine harvester and other Postharvest machineries can help them a lot in the ongoing harvesting season. It was also pointed out that this method not only assists farmers, but takes a system view with support all along the chain of interested actors who work together to improve their marketing prospects. During the demonstration programme, Mr. Jiten Das and Mr. Polash Saikia, Research Technicians of KVK, Jorhat showed the operating procedure and handling of different machineries and their benefits were also discussed. Various safety operations, repair and maintenance work were also clearly shared among the participants. The participants were keen to use the different machineries in future. The programme was concluded with vote of thanks by Dr Prabhat Baruah, SMS, Animal Science, KVK, Jorhat.

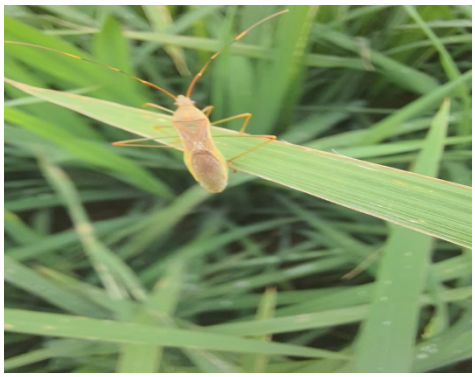
Contributors:

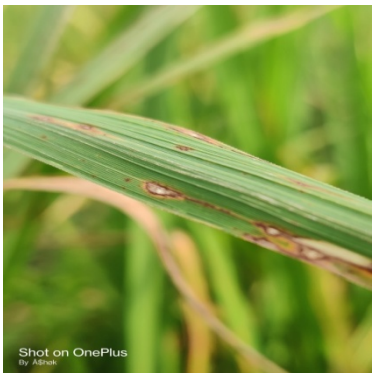
BrishtiSaikia,
Assistant Project Scientist, KVK Jorhat

Plaban Debraj, Project Associate, APART
Krishi Vigyan Kendra, Jorhat

Visit to Rice Variety Cafeteria under APART, KVK, Dhubri

An inspection of *Boro* paddy rice variety cafeteria was carried out by Ms Rimjim Sikha Bora (Assistant Project Scientist) and Chandan Bora (Research Technician) at KVK, Dhubri to check out the diseases and insect-pests infestation. It has been found that the cafeteria was moderately infested by insect-pests and diseases. The major diseases observed were, Brown spot, Blast, and Blight and insect-pests included Gundhi bug, Leaf folder and Stem borer. The farmer was advised to spray the specific chemicals with proper dose and at proper time.





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Postharvest Training and Demonstration on Machinery

One-day training and demonstration programme on Machinery was organized on May 5, 2022 under APART by RARS, Gossaigaon at Garopara L.P. School in collaboration with International Rice Research Institute (IRRI). Mr. Mridopaban Mudoi , Junior Researcher from International Rice Research Institute (IRRI), teachers from Garopara L.P School and a total of 60 number of farmers from Garopara village were present in the programme.Theprogramme started with a welcome address by Ms. Anjela Deka, PA, APART and she briefly explained about the APART Objectives. After that there was a short speech by the Head teacher of Garopara L.P School. Mr. Mridupaban Mudoi started the training by explaining IRRI Objectives and focused on Objective III which is 'Strengthening Postharvest Management'. He delivered a detailed lecture on the use of machines in agriculture sector for farm operations. He explained about different machines used especially in rice starting from transplanting to harvesting and also stressed on the postharvest machines for value addition in rice value chain. There was a powerpoint presentation showcasing all the machines used for rice cultivation.The programme ended with vote of thanks by Ms. Anjela Deka, PA, APART and the participants provided positive response on attending the training programme. Mr. Monjit Das, RT, APART helped in smooth running of the programme.

Contributors :

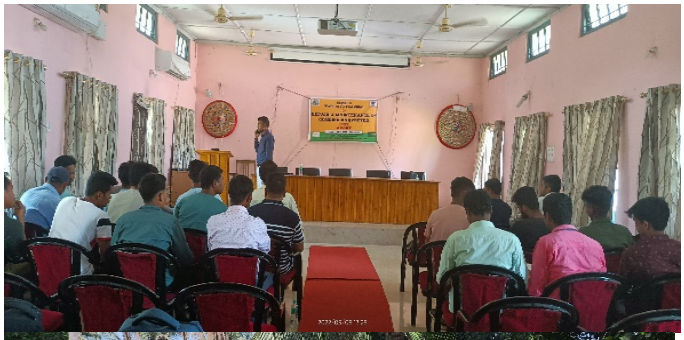
Ms. Anjela Deka, Project Associate, APART, RARS,Gossaigaon

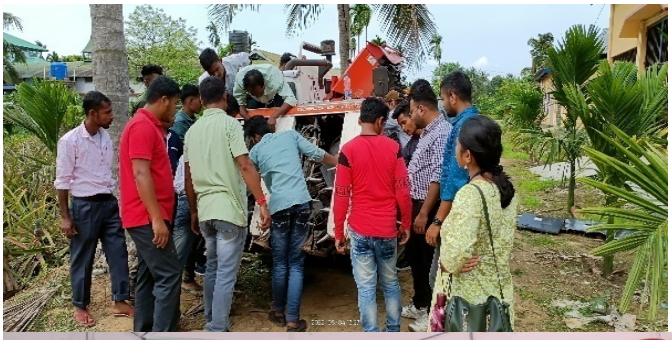
Mr. Monjit Das, Research Technician, APART, RARS,Gossaigaon

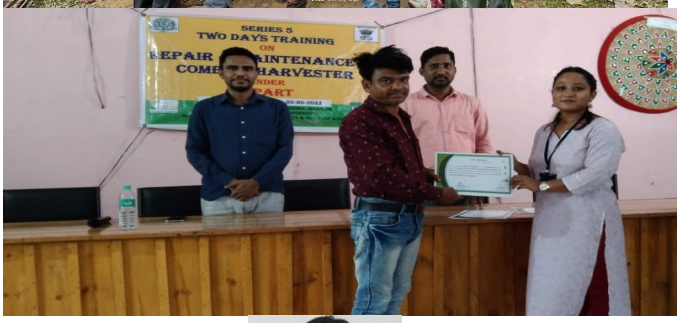
Training on Mini-Combine Harvester Organized under APART by KVK, Nagaon

Krishi Vigyan Kendra, Nagaon organized a two-days long hands on training programme on Mini-Combine harvester at KVK, Kamrup on May 04-05, 2022. The main objective of the training was to introduce the farmers about the Combine harvester and learning by doing on the repair & maintenance of the machine. To fulfil the objective participants from Farmer Producer Company (FPC) and Custom Hiring Centre (CHC) of Karbi-Anglongdistrict and Nagaon district were present along with APART staff of KVK, Nagaon. On 1st day, training was started by welcome address by Dr Rohit, Postharvest Specialist from IRRI and Mr Vipin Kumar, Specialist from IRRI. They welcome the participants and then conducted a Pre-evaluation test. Afterwards, the participants were directly involved in dismantle of the machine parts and assemble the machine. Research Technician from IRRI & Company Engineer from Reliable Industries, Gujarat, helped the

participants to understand the each part of the machine and their maintenance. On 2nd day, classroom session was held by Dr Rohit Namdeo, who interacted with the farmers and took a theory class on repair & maintenance of the machine. After the theory class a post-evaluation test was conducted by Ms Bidisha Borah, APS, KVK, Nagaon and Certificates were distributed tothe participants as the all total 6 Series of training with FPC/CHC werecompleted with the same group of participants.



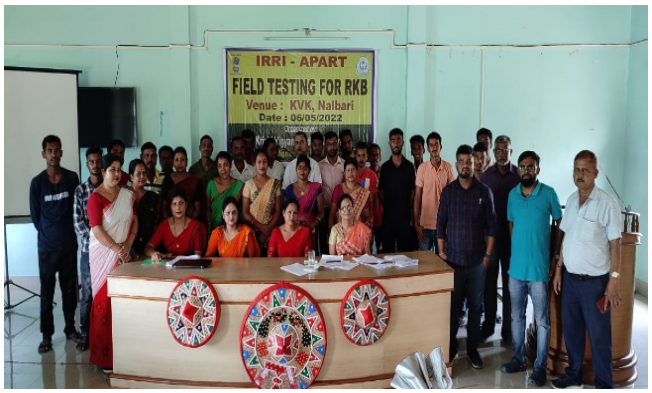


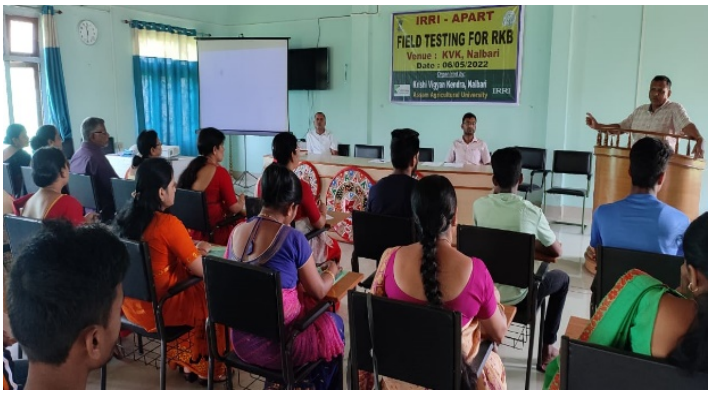


Contributor: Bidisha Borah, APS, APART

Successfully Conducted Field Testing on Rice Knowledge Bank (RKB) Training under IRRI-supported activities under APART by KVK, Nalbari

A 'Field Testing on Rice Knowledge Bank (RKB) Training' under IRRI-supported activities was successfully conducted with 30 number of participants by Krishi Vigyan Kendra Nalbari on May 6, 2022 at KVK campus under Assam Agri-business & Rural Transformation Project (APART). Dr.Mridul Deka, Associate Dean, College of Horticulture, Nalbari, AAU and Mr. Jyoti Bikash Nath, RKB Specialist from IRRI were present on the programme as chief guest. The programme was started with welcome address by Mr. Dipankar Kalita, Project Associate, APART, KVK, Nalbari. After that Mr. Homeswar Mazumdar, i/c APART & SMS Horticulture, KVK, Nalbari briefly elaborated about the Project as well as the objective of the training programme. Dr.Mridul Deka, Associate Dean, College of Horticulture, Nalbari, AAU, briefly discussed about the various insect-pest related to paddy crop and their control measures with the farmers. During technical session Mr. J. B. Nath, Specialist,IRRI discussed about RKB website, RKB portal, use of RKB website and different machineries related to paddy crop along with their benefits. He also discussed about GI Tag of different local paddy varieties, Farmer Producer Organizations, Farmer Producer Companies, Food Corporation of India, etc., and requested the farmers to take benefits of the Project. A review testing of the participants was also conducted by the APART team and IRRI specialist during the technical session. After that Mr. Pranjit Bharali, Asst. Project Scientist, APART, KVK, Nalbari had briefly discussed about the MTPR technology of paddy cultivation with the farmers. He also described about the importance of farm-mechanization in the present agricultural scenario. The training programmewas successfully ended with the vote of thanks given by Mr. Dipankar Kalita.





Contributors:

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Project Associate, APART, KVK, Nalbari

PranjitBharali
Asst. Project Scientist, APART, KVK, Nalbari

Postharvest Training conducted under APART by KVK, Bongaingaon

A postharvest training under APART was conducted by KVK, Bongaingaon on May 05, 2022 at Boitamari. This was the first training programme conducted by the newly added KVK under APART. Dr.SewaliSaikia (SMS, Horticulture), Ms. Krishna Bharadwaj (SMS, Agronomy), Mr. Sanku Moni Sharma (Farm Manager) and Mr. Akhoy Jyoti Bharadwaj (Junior Researcher, IRRI) were present in the programme.

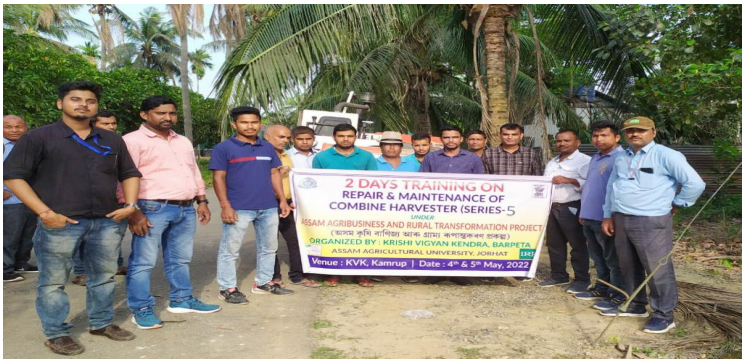
The training programme started with a brief introductory speech by Dr. Sewali Saikia. It was followed by the main objective of the training by Mr. A.J.Bharadwaj, who briefly introduced the participants about APART and its various objectives. He also shared information about different machineries related to rice cultivation with major emphasis on the various postharvest machineries. The participant farmers were also told about different postharvest management practices. It was followed by an interaction session between farmers and the officials present. The partcipants were also givena brief demonstration on the working of Axial Flow Thresher by Mr. Sanku Moni Sharma. The training programme was concluded with vote of thanks by Ms. Krishna Bharadwaj. A total of 30 participants attended the programme.

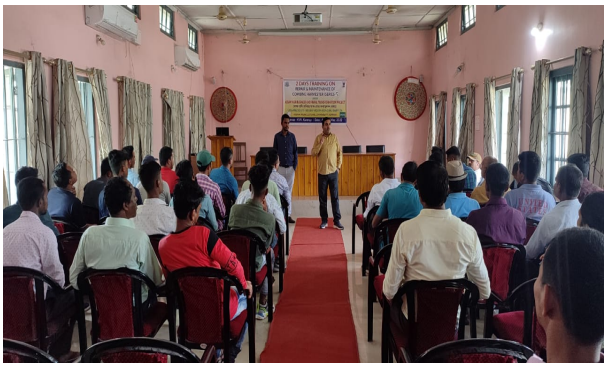
Contributor: Mr.Akhoy Jyoti Bharadwaj,
Junior Researcher (IRRI)

Two-days, Series-5 Training on Combine Harvester Organized for KVK, Barpeta at KVK, Kamrup

Krishi Vigyan Kendra, Barpeta organized a two-days training programme on Combine harvesting machine at KVK, Kamrup under APART. The training was scheduled on May 4-5, 2022, where first-hand information was provided about the repair and maintenance of the Combine harvester to FPC members from three different districts, namely Barpeta, Nalbari and Darrang. The first day of the said training comprised of providing theoretical knowledge about the Combine harvester wherein technical knowledge regarding different parts and their functions along with the procedure of operating the machine efficiently was provided to the FPC members. The economic savings and other monetary aspects were explained to the participants as well. The training was given by IRRI officials along with the Assistant Project Scientist representing KVK, Barpeta.

On the next day, the FPC members were introduced to the machine in person and trained on how to repair and maintain the machine. Detailed explanations and demonstrations of the different units were given to the participants by the resource persons. The training programme was successfully concluded on May 5,2022. Along with the FPC members, the research technicians from KVK Barpeta, KVK Nalbari and KVK Darrang also attended the training programme. IRRI officials quoted that farmers will be benefitted with the use of the machine as it will reduce operational time of harvesting and the machine integrates three different operations viz., harvesting,threshing and bagging at one go.





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