APART: RICE WEEKLY
(2nd- 7th November, 2020)

Sali paddy Crop Cutting on Stress Tolerant Rice Varieties,BINADhan-11 and Ranjit-Sub1 in Darrang

BINA Dhan 11 and Ranjit–Sub1, the Submergence Tolerant Rice Varieties (STRVs) were grown in *Sali* season, 2020 under Assam Agri-business and Rural Transformation Project (APART) in Darrang District among others. As the harvesting of *Sali* paddy is going on, the crop cutting programme was conducted on 3rd November, 2020 by Krishi Vigyan Kendra (KVK), Darrang in collaboration with International Rice Research Institute (IRRI) on Dealer Led demonstration and Head to Head (H2H) demonstration plots at Jugipara and Nadirmukh villages, Darrang, Assam respectively.

During crop cutting data were taken on growth and yield attributing characters *viz.* plant height, effective tillers per m^2, grains per panicle, filled grains per panicle, unfilled grains per panicle and 1000 grain weight of rice from $5m^2$ area. The average grain yield of BINA Dhan-11 under Dealer Led demonstration was 5.2ton/ha and for Ranjit–Sub1 under Head to Head demonstration was 5.5ton/ha. Dr. Manoj Kr. Chauhan (Project In-charge), Barsri Baro (Project Associate), Kushil Gogoi (Research Technician) and Rana Gogoi (Research Technician) were present in the event.

Contributor: Barsri Boro, PA, APART, KVK Darrang

Field Day Celebration in Learning Centre Demonstration along with Crop Cutting

A field day on rice including crop cutting was conducted by KVK Nalbari under the aegis of APART in Phulguri village of Nalbari district, Assam on 5th November, 2020 to showcase the varietal performance of submergence tolerant rice variety **Bahadur-Sub1**. During the programme, approximately 50 farmers of the locality including women were imparted training and they were demonstrated the advantages of growing Bahadur-Sub1 variety. The crop cutting was carried out in the rice field of Smt. Kalpana Barman (a progressive farmer of the region) in the presence of expertsviz.Dr.Manashi Chakravarty (SMS, Soil Science), Mr.Homeswar Mazumdar (SMS, Horticulture) Ms.Ambika Charan Sarma (SMS, Agronomy) and Mr. Pranjit Bharali (APS). The crop parameters such as plant height, no. Of tiller/plant, grain yield, biomass yield etc. Were observed.

Crop-cutting experiment in progress

The crop cutting result showed an average yield of 5.0 ton/ha. Head of KVK Nalbari addressed the gathering and briefed about the aspects involved in the cultivation and advantages of Bahadur-Sub 1. During the programme, farmers were trained on various topics namely importance of new technologies, their usage efficiencies in rice based cropping systems, Soil Health Card (SHC), paddy procurement at MSP, improved practices for rabi cultivation etc.

Contributor : Pranjit Bharali, APS, APART, KVK Nalbari

Crop Cutting of BINADhan11 atRARS Diphu, KarbiAnglong

During the *Sali* season 2020, 15 cluster demonstrations were conducted with 4 nos. of STRVs, out of which **BINADhan-11** was grown in 3 demonstrations. Crop cutting of BINADhan-11 was conducted in Silputa Nagarjandimasa village under Hawraghat block of Karbi Anglong district on 29th October, 2020 in two farmers' fields namely Sh. David Sarongsa and Sh. Roson Haflongbar. During the crop cutting demonstration, the data on plant height, no. of hills/ sqm, effective tillers/hill, grains/panicle, straw weight and grain weight were observed from the demonstration plot and the grain yield was calculated in q/ha. The average grain yield of BINADhan-11 of Sh. David Sarongsa plot was found 49.72 q/ha while the average grain yield of demonstration plot of Sh. Rosan Haflong bar was found 44.20 q/ha. The average plant height of BINADhan-11 was 111.23 cm. Farmers are satisfied with this short duration variety BINA Dhan 11 which took only 118-120 days in maturity.

Farmer : David Sarongsa

Plot size (2 m x 2.5m)

Crop-cutting experiment

Contributor : Joshila Enghipi (PA,APART), RARS, Diphu

PARTICIPATORY VARIETAL EVALUATION OF CROP CAFETERIA, KVK, NAGAON

A Participatory Varietal Evaluation of crop cafeteria was organized at Krishi Vigyan Kendra, Nagaon on 6th November, 2020. Crop cafeteria is a trial of different rice varieties at a particular place to enable the stakeholders/farmers to select the best suited variety of their own preference based on the performance of different varieties in a particular region.

In this *Sali* season, 2020 at KVK Nagaon Farm, twenty four varieties including Stress Tolerant Rice Varieties (STRVs), Premium Quality Rice (PQRs) varieties, Local Popular Varieties (LPVs), and national level released varieties were raised with staggered planting of varieties in such a way that all the varieties mature at same time/period.

The Participatory Varietal Evaluation event was graced by the Chief guest Shri Vinod Seshan, IAS, SPD, ARIAS Society, Special Guests, Dr. AK Tripathi, Director, ATARI, Dr. R Borgohain, Nodal Officer (OPIU-AAU, APART), Dr. Kanwar Singh, Resident Consultant- IRRI, Dr. P C Sarma, Chief Scientist, RARS Shillongani, Mr. Kailash Barman, Director ASSCA, and other guests, Mr. Rao sahib Bendre, Agriculture Specialist, OPIU-Agri, other AAU officials, millers, progressive farmers, farmer producer company(FPCs) members, Seed dealers and KVK Nagaon and RARS Shillongani officials. Different stakeholders including farmers, FPCs, scientists evaluated the rice varieties in the crop cafeteria on the basis of important yield parameters (grain type, panicle length, total number of tillers) and other crop characteristics such as plant height, duration, lodging resistance etc.

Contributor: Bidisha Borah, APS APART, KVK Nagaon

Field Day and Crop Cutting of Ranjit-Sub1 under KVK Sonitpur

A field day was organized in Bherberi village of Sonitpur district on November 4, 2020 in Wet Direct Seeded Rice Demonstration (WDSR) of the variety **Ranjit-Sub1**. A total of 31 farmers of the village and nearby areas were present during the field day. Mr. Palash Thengal, Project Associate and Ms. Rupsikha Goswami, APS, APART, interacted with the farmers and provided awareness on the quality and performance of the submergence tolerant rice varieties, Ranjit-Sub1, Bahadur-Sub1, Swarna-Sub1 and BINA Dhan 11. They also highlighted different resource efficient crop establishment methods of rice. Farmers were also informed about the machineries introduced under APART and their comparative advantages over traditional methods. The farmers expressed their satisfaction with the performance of Ranjit-Sub1 and expressed their willingness towards adopting the variety in the subsequent seasons.

Crop cutting of WDSR demonstration of Ranjit-Sub1 was also carried out in the demonstration plot of Mr. Suman Sahu. The programme was carried out by Palash Thengal, PA, Rupsikha Goswami, APS, Goutam Borah, Debojit Bhuyan and Parikhit Mudoi, Research Technicians of KVK Sonitpur. Data on various yield attributing characters like plant height, number of hills per square meter, number of effective tillers per hill, grains per panicle, biomass yield and grain yield from 3 sample areas of 5 sq m each were collected. The average yield with 21% moisture level was measured at 6 t/ha.

Contributor : Rupsikha Goswami, APS, APART (KVK Sonitpur)

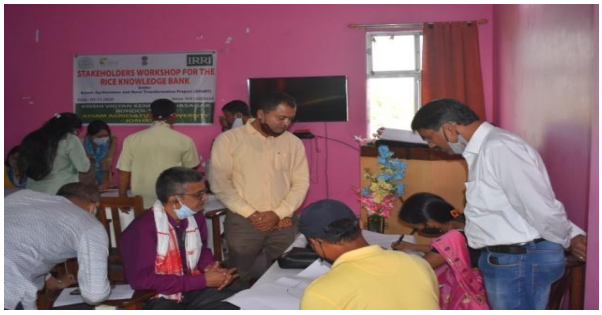
Paddy Harvesting and Threshing with Improved Machineries at Lahorighat, Morigaon

Under APART, Krishi Vigyan Kendra (KVK), Morigaon conducted hands on demonstration programme on Post-harvest machineries at Lahorighat village on 2nd November, 2020. Initiating the programme, Dr. Rijusmita Sarma Deka, Senior Scientist and Head, KVK Morigaon interacted with the farmers on the importance of using different machines in farming right from land preparation to post-harvest to minimize the cost of production and saving time. Mr. Baljeet Singh, Market Analyst cum Operations Specialist, APART made the gathering aware about Custom Hiring Centres (CHCs) and Common Service Centres (CSCs) which are expected to play a major role in upliftment of the farming community through FPCs. Towards the closure of the program, Mr Sanju Borgohain, APS, APART with the help of members of the Custom Hiring Centre and Mr. Janmejay Biswal, Research Technician, IRRI, demonstrated crop cutting with the help of reaper and threshing the same with Axial Flow Thresher in the field itself.

Contributor: Sanju Borgohain, APS, APART, KVK Morigaon

Rice Knowledge Bank Stakeholder Workshop organized at Sivasagar

A stakeholder workshop on the Rice Knowledge Bank (RKB) was conducted at Krishi Vigyan Kendra, Sivasagar on 5th November, 2020. The progress of Rice Knowledge Bank (RKB) activities was apprised and discussed in detail during the workshop. The brainstorming session was organized by grouping the participants block wise. Each participant group was asked to present the outcome of the discussion. The group discussed among members and listed down different varieties grown in the area, their duration, yield, special characters, percentage area covered by the variety in the block and preference level of the variety among farmers. The groups have also highlighted the present cropping systems followed in different blocks.



The participants identified the challenges of rice cultivation and potentialities in the district. The meeting was addressed by Dr. Kanwar Singh, Resident Consultant, IRRI, Mr. Bhaskar Jyoti Mahanta, PC, OPIU-AAU, APART, Mr. Jyoti Bikash Nath, Specialist, IRRI, Mr. Vivek Kumar, Specialist, IRRI, Ms. Ankita Sahu, Junior Researcher, IRRI and Ms. Jutika Das, Project Scientist, AAU. Block Technology Manager (BTM) and Asst. Technology Manager (ATM), of Sivasagar district, Subject Matter Specialist (SMS), KVK, Seed growers and progressive farmers from different blocks of the district participated in the workshop. The workshop was moderated by Dr. Pradip Handique, Principal Scientist and Head, KVK, Sivasagar. The meeting was also attended by other experts at KVK Sivasagar and the APART team at KVK including Project Associate (PA), Assistant Project Scientist (APS) and Research Technicians (RTs).

Contributor: Panchami Bordoloi, APS, KVK Sivasagar

Impact of Training and Demonstration under APART, KVK, Barpeta

The training and demonstration program on Post-harvest machineries under APART, KVK, Barpeta in collaboration with IRRI proved to be a source of inspiration for the farmers towards farm mechanization in the district. A farmer named Thuleswar Kalita of Kalbari village of Bhawanipur block, Barpeta district participated in a Post -harvest machineries training organized under APART by KVK, Barpeta in collaboration with IRRI. He got motivated by the harvesting technology that reduces drudgery, labour cost and time. Immediately after attending the training with the support of IRRI and APART, KVK, Barpeta, *he purchased a self-propelled multi-crop reaper*. He uses it not only for his own field but also for the other farmers of the village on hire basis. He is now a private service provider of reaper.

To encourage the beneficiary farmers and also to showcase the advantages of farm mechanization, a training and demonstration programme was conducted in the field of Mr. Thuleswar Kalita on 5th, November 2020 under APART, KVK Barpeta in collaboration with IRRI. Thirty farmers including women farmers attended the training and demonstration.

Contributors :

Mridupaban Mudoi, JR, IRRI ***Hemanga Das, PA, KVK, Barpeta***

*****