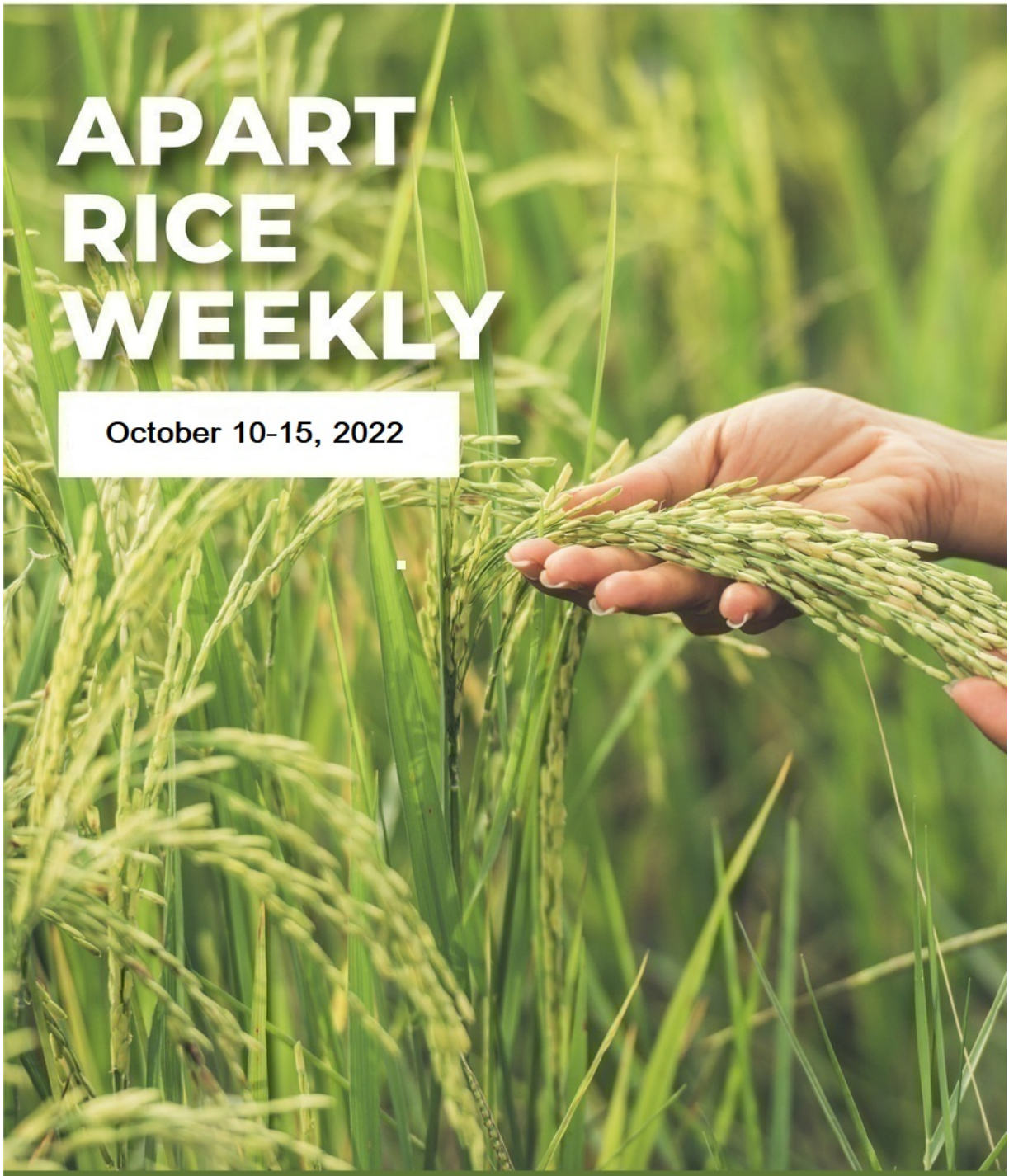
ARIAS Society
GOVERNMENT OF ASSAM
Assam Rural Infrastructure and Agricultural Services Society

অসম চৰকাৰ
GOVERNMENT OF ASSAM

IRRI International Rice Research Institute



APART RICE WEEKLY

October 10-15, 2022

Published By: ARIAS Society

Contributions from: KVKs, RARSs, HRS, District ATMAs, IRRI Assam

APART: RICE WEEKLY
(October 10-15, 2022)

Current Status of Rice Variety Cafeteria under APART, RARS Titabar, 2022-23; Date: 12-10-2022

Rice variety cafeteria is a replicated trail of different (traditional, prevalent or newly introduced) rice varieties at a particular place to enable the stakeholders/ farmers to select a suited one variety of their preference in a particular region/agro-climatic zone.

Experimental design: RBD

Number of replication:3

Number of varieties:24

Plot size: 5mx5m

Total area per variety: 75 m^2

The varieties selected for this year under rice varietycafeteria at RARS Titabar includes 24 varieties from which 10 varieties are Stress-Tolerant Rice Varieties (STRVs); 7 are Premium Quality Rice varieties (PQRVs) and7are High Yielding Varieties (HYVs).

Sowing and transplantingdate: Batch No.1: Date of sowing (June 01, 2022) and Date of transplanting (July 08, 2022).

Batch No.2:Date of sowing (June 11, 2022) and Date of transplanting (July 13, 2022).

Batch No.3: Date of sowing (June 23, 2022) and Date of transplanting (July 15, 2022).

Present Status: BRRI Dhan69, CR Dhan 309, CR SuhandhDhan 909, Kalamalifula, BINA Dhan 17, MTU 1156, SwarnaSamriddhiDhan and SabourSampannaDhanare in maturity stage and Ranjit-Sub1, Bahadur-Sub1, Swarna-Sub 1, AAU-TTB-Dhan 41 (Labanya), AAU-Kmj Dhan-46 (SurmaDhan), PusaSambha 1850, CR Dhan 801,CR Dhan 802, MTU 1224, CR Dhan 307, AAU-TTB Dhan 40 (Dholi), Numoli, CR Dhan 309 are all in flowering stage.

Yet to achieve 50% flowering by the varieties Upendra Black Rice 2, Upendra Black Rice 1 and Kalavati.




Contributors :

Dr. A.K. Medhi
Incharge, APART, RARS,Titabar

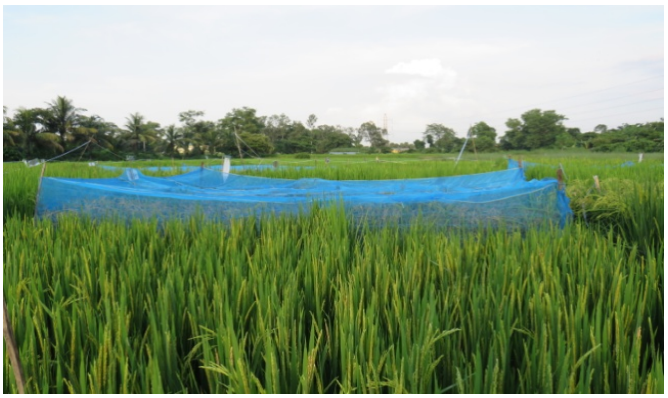
Dr.Gitasree Goswami
PA, APART RARS,Titabar

Munna Saikia
RT, APART, RARS,Titabar

Replicated Rice Variety Cafeteria Demonstration under *Sali* Paddy

A Rice Variety Cafeteria was conducted under Sali Paddy 2022 at KVK, Nagaon, where 24 rice varieties were planted with three replications,including premium quality rice varieties, stress-tolerant rice varieties, semi deep water rice varieties and high yielding rice varieties. Rice variety cafeteria was conducted to create awareness among different stakeholders about the varieties for their faster adoption and also to select the suitable varieties based on their performance in a particular agro- climatic zone. The sowing and transplanting were conducted on

three different dates depending on the duration of the variety i.e., short duration , medium duration and long duration variety. Out of twenty four (24) varieties, twenty (20) varieties are at flowering stage till date and four varieties, i.e., Upendra Black Rice 1, Upendra Black Rice 2, Kalavati and MTU 1155 are at booting stage, at present. Intercultural Operations were carried out timely as and when required in the cafeteria. Pheromone traps with lure were also installed. To protect the varieties from birds attack, bird scare ribbons and nets were used. Data were also recorded at different stages in the desired format.



Contributor:
Priyanka Deka,
Project Associate, APART, KVK, Nagaon

Rice Variety Cafeteria under APART, KVK, Cachar

A non-replicated rice variety Cafeteria was established at Chandpur part III in the field of Mr Salim Uddin Laskar under APART, KVK, Cachar. The cafeteria consists of 10 different rice varieties. The cafeteria includes, 4 stress-tolerant rice varieties (Ranjit-Sub1, Bahadur-Sub1, Swarna-Sub1 and BINA Dhan 11), 4 premium quality rice varieties (CR Sugandh Dhan 909, Aghani Bora, Lal Biroin and Black rice), and 2 local popular rice varieties (Mohsori and Red rice). The total area of the cafeteria is 2000 square meter with a plot size of every variety, 200 square meters. Two plots between varieties were separated by a one meter walking path. The ultimate objective of the rice variety cafeteria is the on-spot varietal evaluation by different stakeholders (private seed growers, extension functionaries, farmers, farmer producer companies, rice millers, scientists, AAU and other govt. officials), which will helpin providing multiple benefits,i.e., uptake and sustainable adoption of the STRVs or PQR varieties at selected key locations. It will also help in creating mass awareness, sensitization of different stakeholders about different STRVs and PQR varieties, promoting the new variety seed and increasing varietal replacement rate for improving productivity of rice in the region. It will also help in generating seed demand for multiple new varieties.The varietal evaluation will be organised at the maturity of the rice varieties.

Contributor:
Mr. DevamitraTarafdar,
Project Associate, APART, KVK, Cachar

Field Visit Report- Sali Paddy Demonstrations

On October 11 and 12, 2022, Mr. Sunil Pator (Project Associate), Ms. Narzina Parbin (Assistant Project Scientist, APART, KVK Kokrajhar), Nasreen Hussain (Assistant Project Scientist, CIP) and Gopal Ray (Research Technician, APART), visited Damrapara, Noyagaon, Rangagaon, Malaguri, Daikonguri, Salakati, Bhumki part-2 and Hogmabil villages in Kokrajhar District of Assam. They observed the crop performance at various stages of paddy under minikit (BINADhan11, Swarna-Sub1, Ranjit-Sub1),learning centre demonsatrations of PQR (CR Sugandh-Dhan 909, Keteki Joha and Black rice) and mechanical transplanting of rice on STRV(Ranjit-Sub1) demonstration in *Sali* paddy under IRRI supported activities of APART. They observed that BINA Dhan 11 and Black rice were at ripening stage and other paddy fields were at tillering stage. They also noticed that paddy field of Keteki Joha and Black rice were infected by brown spot and rest of fields were in good condition. We visited total 16 numbers of farmers field.

Contributors :

Sunil Pator,
PA, APART, KVK, Kokrajhar

Narzina Parbin,
APS, APART KVK, Kokrajhar

Field Visit to Non-Replicated Rice variety Cafeteria under *Sali* paddy

On October 14, 2022 field visit was undertaken for observing present status of Non-Replicated Rice Varietal Cafeteria established during *Sali* season under APART, KVK, Dhemaji at the paddy field of Mr. Budheswar Pamey, a progressive farmer of Demow, Santipur, villages under Sissiborgaon block. The visit was carried out by APART team,

where they observed tillering, flowering and lodging of each and every variety, namely- *Jahingia*, Swarna-Sub1,*BoraDhan*, *BorDhan*, *Boga Dhan*, *Jaldubi*, Bahadur-Sub1, Ranjit-Sub1, BINADhan11 and *Bas Dhan*. All the varieties have shown good tillering with an average of 18- 25 tillers per hill. Flowering was observed in Swarna-Sub1, *Boga Dhan*and Bahadur-Sub1. Slight lodging was observed in *Boga Dhan* (10-15%). Infestation of stem borer was observed in BINADhan11 causing dead hearts of tillers.

Contributors :

Papori Bora,
Project Associate,
APART, KVK, Dhemaji

Sourabh Borah,
Assistant Project Scientist,
APART, KVK, Dhemaji

Field Visit to Ongoing *Sali* Paddy Demonstrations under APART, KVK Dhubri

On October 12, 2022, crop monitoring and field visits were undertaken for observing the present status of various ongoing *Sali* paddy demonstrations under APART, KVK Dhubri at Paschim Medhipara, Chotogirairpar and Koimari villages of Dhubri District. The field visits were carried out by APART team, including Ms. Kankana Bordoloi (PA, APART) and Chandan Bora (RT, APART). The team observed the overall crop performance, insect-pest and disease infestation in the fields. The crops were mainly at tillering stage. The overall performance of the crop was good with low degrees of pest infestation. The farmers were advised to take a close look for the insect-pests and diseases attack, from time to time and report, if any infestation is seen. The common and major pest which was observed in most of the demonstrations was stem borer and in some places leaf folder. Weed problem was also seen as a major issue in most of the areas and farmers were advised for the proper control of the weeds.

Contributors :

Bikash Jyoti Gharphalia
SMS (Agrometeorology), KVK, Dhubri

Kankana Bordoloi
PA, APART, KVK, Dhubri

Rimjim Sikha Bora
APS, APART, KVK, Dhubri

Field Visit and Monitoring of Ongoing *Sali* Paddy Demonstration under APART, KVK, Bongaigaon:

Regular field visits and monitoring was carried out at different locations of Cluster Demonstration and Dealer Network Demonstration in Moligaon village of Boitamari Block and Kherkhabari village under Srijangram Block under APART, KVK, Bongaigaon. Interaction with beneficiary farmers was conducted and suggestions were made on various indigenous cum technical solutions regarding integrated disease and pest management. Monitoring of current field status regarding incidence of pests and diseases in Cluster Demonstration and Dealer Network Demonstration were carried out. Presently *Sali* paddy under both demonstrations was less infested by pest and diseases. Mainly infestation of yellow stem borer and brown spot disease are observed in some fields of Cluster and Dealer network demonstration. Farmers were advised to take proper control measures and solutions (both indigenous method and chemical method). Farmers observed that yellow stem borers are successfully trapped in pheromone traps installed in the field (*Sali* paddy) of Cluster Demonstration and Dealer Network Demonstration and also observed a successful rate of effective control through trichocards.

Contributors :

Ashok Kamal Gogoi,
Project Associate, KVK, Bongaigaon

Prasanta Kr. Das
Assistant Project Scientist, KVK Bongaigaon

Bhaskar Baruah
Research technician, KVK, Bongaigaon

Asraful Ahmed
Research Technician, KVK Bognaigaon

Field Visit to *Sali*Paddy Demonstrations by RARS,Diphu

On October 13, 2022, afield visit was organized by RARS, Diphu to Kheroni, West KarbiAnglongto monitorthe performance ofon-going *Sali* paddy demonstrations. Dr. K. Dayamoy Singha (Chief Scientist, RARS, Diphu) along with Mrs. AnjelaDeka (PA, APART) & Mr. MirlongBey (RT, APART) visited different demonstrations at West Karbi Anglong district.

No serious insect-pests anddiseases wereobserved underHead-to-Head demonstration at Borlongpher. Crop was at panicle initiation stage. Cluster demonstrations with varieties, BINA Dhan11 andBINA Dhan17 at villages Thesobil, ThesobilArong&Ampatharwerealso visited and it was found that crop growth weregood. The crop was found in flowering stage and alsoat ripening stage in some fields. Harvesting may start after 10 -15 days. Although the farmers hadkept their fieldsweed-freebut theincidence of *Gundhi*bug was observed. It was advised by the Chief Scientist, RARS, Dhipu that dead frog can be hanged in the middle of the field witha bamboo stick,and dipping the rope in kerosene oil and bringing rope across the rice field will reduce Gundhi bug incidence in the crop. Farmers were very happywiththe growth of the crop till date.

Contributor :
Mrs. AnjelaDeka,
PA, APART, RARS, Diphu

Field Visit toRice VarietyCafeteria and Ongoing *Sali* Paddy Demonstration under APART, KVK, Karbi Anglong

On October 11 and 12, 2022, field visits were undertaken for observing the present status of rice variety cafeteria and ongoing *Sali* paddy demonstration programme under APART, KVK, Karbi Anglong. The field visits were carried out by Mr. Bishnu Jyoti Saikia (Project Associate, APART, KVK, Karbi Anglong), Ms Renuwara Parbin (Assistant Project Scientist, APART, KVK, Karbi Anglong), Mr. Ankur Bora (Research Technician, APART, KVK, Karbi Anglong) and Satya Jyoti Borah (Research Technician, APART, KVK, Karbi Anglong). The team visited the rice variety cafeteria plot at Howraghat, where several varieties, *viz*, Ranjit-Sub1, Bahadur-Sub1, Swarna-Sub1, Keteki Joha, Bokul Joha, Bora Dhan, Goya Dhan, Ankur Dhan, Anjana were in tillering stage and BinaDhan 11 was in flowering stage

(Howraghat). Further, it was noticed that the variety Bahadur-Sub1, Swarna- Sub 1 fields were infested by brown spot disease, also attacked by stem borer and rest of fields were in good condition. The team also visited minikit demonstration plot, where the variety, Ranjit-Sub1 was in tillering stage and another dealer network demonstration plot, where Bahadur-Sub1 was in flowering stage, at Rongnihang village. The overall health and vigour of the crop was good.

Plot condition of Rice Variety Cafeteria

Brown spot disease of Rice

Plot condition of dealer demonstration

Plot condition of minikit demonstration

Contributors :

Bishnu Jyoti Saikia,
PA, APART, KVK, Karbi Anglong

Renuwara Parbin
APS, APART, KVK, Karbi Anglong

****