

At a Glance

Regional Horticulture Research Station, BARI, Lebukhali, Dumki, Patuakhali

Regional Horticulture Research Station, Bangladesh Agricultural Research Institute, Lebukhali, Dumki, Patuakhali is the only horticulture research station in the southern part of Bangladesh. It is mainly working addressing the different problems regarding agricultural production in southern region. The region is vulnerable to natural calamities and adverse effect of climate change like salinity, cyclone, inundation by tidal flood etc. so the region has especial research demand of agriculture. This station is working to select suitable varieties of fruit and vegetable for this region. The station is also working to develop other production technologies to fulfill the demand of the region. Till now RHRS, Lebukhali has developed one brinjal variety (BARI Begun-12) and two watermelon varieties (BARI Tormuj-1 and BARI Tormuj-2). There is also have some advanced lines of brinjal, common bean, okra, pumpkin and banana, which may comes varieties in future. The station is also working on hydroponic technology (soilless technology) of crop production.

Establishment

The station was established as Regional Horticulture Research Station under Bangladesh Agricultural Research Institute on June 25, 2006. Presently, the station is headed by a Principal Scientific Officer along with 5 scientists of different disciplines.

Location and extent

Regional Horticulture Research Station, BARI, Lebukhali, Dumki, Patuakhali is located at 10 km west North of Patuakhali town. This research station is surrounded by Dhaka-Patuakhali highway road in the East, Patuakhali town in the South, Payra River in the North and the village Lebukhali in the West. The Station is located at about 30 km south from Barishal city, situated at 22^o26'50" N latitude, 90^o20'19" E longitude and at an altitude of 7 m. The region mainly fall under 13th and 18th agro-ecological zone i.e. gangage tidal flood plain and young meghnaesturian floodplain.

Land area

Total land area	:	16 acre
Infrastructure area	:	2 acre
Pond	:	1.2 acre
Orchard	:	3 acre
Nursery	:	0.8 acre
Research Field and seed multiplication area	:	9 acre

Meteorological information

Weather data on monthly temperature (°C), humidity and rainfall (mm) of RHRS, BARI, Lebukhali, Patuakhali from July, 2022 to June, 2023

Month	Temperature		Humidity		Rainfall mm
	Maximum	Minimum	Maximum	Minimum	
July,2022	32.1	23.7	96.8	68.5	50.0
August,2022	32.6	26.3	96.7	72.8	150.8
September,2022	32.6	26.0	96.4	73.8	140.9
October,2022	32.9	24.7	98.0	66.4	90.9
November,2022	32.3	26.4	95.8	74.7	0
December,2022	33.1	26.3	97.0	71.0	0
January,2023	30.2	24.2	97.2	56.7	0
February,2023	28.7	16.8	98.8	35.7	0
March,2023	33.0	20.7	97.5	54.9	40.8
April,2023	35.7	25.0	97.5	54.1	20.2
May,2023	34.6	26.1	96.1	67.6	256.0
June,2023	33.5	27.2	96.5	77.3	518.0

Scientists working at RHRS, BARI, Lebukhali, Patuakhali

Sl. No.	Name	Designation	Discipline	Remarks
01.	Dr. Md. Golam Kibria	PSO	Plant Pathology	21.01.2024 - till
02.	Mahmuda Ratna	SSO	Plant Breeding	03.07.2023-till
03.	Eftekhar Mahmud	SSO	Plant Breeding	Deputation
04.	Mohidul Islam	SO	Horticulture	01.02.2022- till
05.	Nasira Akter	SO	Plant Breeding	05.08.2018- till
06.	Mst.Shamima Yesmin	SO	Plant Breeding	02.01.2023-till

Scientific assistant and other support staffs working at RHRS, BARI, Lebukhali, Patuakhali

Sl. No.	Name	Designation	Posting
01.	Md. Shahidul Islam	Scientific Assistant	Farm Division
02.	Md. Alauddin	Gardener	Nursery

Activities of RHRS, BARI, Lebukhali, Patuakhali

- Research
 - ❖ Development of new varieties of BARI mandated horticultural crops
 - ❖ Stress breeding
 - ❖ Soilless culture
 - ❖ Crop management practices
 - ❖ Conservation of plant genetic resources
 - ❖ Irrigation and nutrient management
 - ❖ Adaptive trial and participatory variety selection
 - ❖ Screening of appropriate crop varieties and production practices for the saline land

- Breeder seed production
- Training
- Demonstration
- Field day
- Seminar and Symposium

Released varieties

1. BARI Begun-12
2. BARI Tormuj-1 and
3. BARI Tormuj-2