BANGLADESH TEA RESEARCH INSTITUTE

Srimangal-3210, Moulvibazar

Monthly Report- Sept, 2018

(A) Director's visit

Date	Purpose
1st Sept	Visited Kaliti T.E.
3rd – 5th Sept	Attended the 104th coordination meeting of BTB, Chattogram.
13th – 16th Sept	Attended the training program on "Government office management & skill development" at BIM, Dhaka.
23rd Sept	Attended the tea tasting session of north sylhet at Khadim T.E.
25th Sept	Attended the tea tasting session at Monu-doloi valley.
26th – 28th Sept	Attended the program of Bangladesh Academy of Agriculture (BAAG) at Krishibid Institution of Bangladesh, Dhaka to receive the BAAG achievement award 2018.

(B) Divisional Research and services/ activities

Activities	Agro	Bot	Biochem	Ento	Plant Path	Soil Sci	Stat & Eco	Tea Tech	**Total**
Number of experiments	08	32	-	07	06	07	03	-	**63**
No. of experimental visits	16	12	-	03	02	07	03	-	**43**
Advisory visits	→								**11**
Correspondences	-	03	-	02	02	10	-	-	**17**
Official visits	01	-	-	01	01	01	-	-	**04**
Workshops	→								**02**
Tea Tasting Session	-	03	-	-	-	-	-	-	**03**
Tea sample Tasting	-	01	-	-	-	-	-	-	**01**
MTC Modules (hrs)	-	-	-	-	-	-	-	-	-
Publications	-	-	-	-	-	-	-	-	-
Soil analysis for nutrient	-	-	-	-	-	04	-	-	**04**
Soil analysis for nematode	-	-	-	02	-	-	-	-	**02**
Fertilizer analysis	-	-	-	-	-	03	-	-	**03**
Compost analysis	-	-	-	-	-	10	-	-	**10**
Water analysis	-	-	-	-	-	-	-	-	-
Pesticide efficacy analysis	-	-	-	01	-	-	-	-	**01**
Fungicide efficacy analysis	-	-	-	-	-	-	-	-	-
Herbicide efficacy analysis	-	-	-	-	-	-	-	-	-
Residue analysis (Expt.)	-	-	-	-	-	-	-	-	-
Residue analysis (garden)	-	-	-	-	-	-	-	-	-

General comments: Divisional research and activities are satisfactory.

C. Research

Division: Agronomy **Total number of experiments : 08**

Total experimental visits : 16

Sl. No.	Name of the experiments	No of visits	Activities during the reporting month
1	Effect of different pruning cycles on the yield of different mature clonal tea	-	Three round of data were collected during the reporting month.
2	Comparative study on yield and yield related parameters of different clones released from BTRI	-	Data on harvested green leaf yield of two rounds were collected.
3	Development of tools for easy and effective transplanting of tea saplings in the nursery.	-	It is going on under the supervision of SSO.
4	Effect of integrated nutrient management for raising of clonal tea plants through direct poly-bag planting	-	Data collection on different parameters

	method.		including root & shoot length, diameter, leaf number is going on.
5	Effect of different types of pruning on yield and quality of clonal tea.	-	100 shoot fresh and dry weight, number of plucking point/bush and green leaf yield data of two round were collected.
6	Study on different climatic parameters to observe the impact of climate change in relation to tea production in Bangladesh.	-	Sunshine hours of last 15 years of Balisera valley is collected.
7	Effect of different types of plucking policies on yield and quality of tea.	-	Data on harvested green leaf yield were collected.
8	Effect of different types of compost on growth and development of clonal tea.	-	A set of morphological data from each treatment was collected.

N.B: All of the above 8 experiments are conducted at the BTRI main Farm, Srimangal. So, all of the experimental visits were accomplished at BTRI Farm by the divisional scientists at different dates to collect data and for intercultural operations.

Division: Botany **Total number of experiments : 32**
Total experimental visits : 12

Sl. No.	Name of the experiments	No of visits	Activities during the reporting month
1	Selection of Vegetative Clones at Shumshernugger T. E., Section Main Div. Sec. No. 9		1. Selection has been continued. 2. Cuttings in the nursery are kept under observation in order to find out their rooting ability.
2	Selection of Vegetative Clones at Amo T. E., Section No. 1		1. Selection has been continued. 2. Cuttings in the nursery are kept under observation in order to find out their rooting ability.
3	Selection of Vegetative Clones at Baraoorah T. E., Section No. 8	-	1. Selection has been continued. 2. Cuttings in the nursery are kept under observation in order to find out their rooting ability.
4	Yield and Quality Trial of Test clones Selected from Shumshernugger and Amo T. Es., Test clones Sh/D/11/313, A/8/8, A/17/7 and A/22/39 against Control BT1.		Weekly data has been recorded.
5	Yield and Quality Trial of Test clones Selected from Amo T. E. Test clones A/8/01, A/17/22, A/22/27 and A/22/40 against Control BT1.		Weekly data has been recorded.
6	Yield and Quality Trial of Test clones Selected from Chandpore, Shumshernugger and Amo T. Es.; Test clones C/J1/10, Sh/B/6/59, Sh/B/6/62 and A/8/24 against Control BT2.		Weekly data has been recorded.
7	Yield and Quality Trial of Four Test clones Selected from Shumshernugger T.E.; Test clones Sh/B/6/36,		Weekly data has been recorded.

	Sh/B/6/38, Sh/B/6/55 and Sh/B/6/67 against Standard BT1.		
8	Yield and Quality Trial of Six Test clones – MZ/39, E/4, D/13, B2T1, BR2/97 and SDL/1 against Standard BT2.		Weekly data has been recorded.
9	Yield and Quality Trial of Four Test clones Selected from Amo T. E.; Test clones – A/8/37, A/8/55, A/8/62 and A/8/66 against Standard BT2.		Weekly data has been recorded.
10	Yield and Quality Trial of Four Test clones Selected from Phulcherra, Amo and Shumshernugger T. Es.; Test clones – A/17/16, Ph/9/1, Ph/9/9 and Sh/B/6/46 against Standard BT1.		Weekly data has been recorded.
11	Yield and Quality Trial of Four Test clones Selected from Phulcherra and Hybrid Progeny; Test clones– Ph/9/4, Ph/9/25, Ph/9/40 and BS/67 against Standard BT5.		Weekly data has been recorded.
12	B2-44: Yield and Quality Trial of Three Test clones Selected from Amo and Phulcherra T. Es.; Test clones– A/8B/1, Ph/9B/1, Ph/9/11 and against Standard BT1.		Weekly data has been recorded.
13	Yield and Quality Trial of Three Test clones Selected from Amo, Phulcherra and Shumshernugger T. Es.; Test clones- A/8/61, Ph/9/68A, Sh/D/11/18 (retrial from Expt. B2-26) and One Introduced Clone SC/12/28 against Standard BT2.		Weekly data has been recorded.
14	Yield and Quality Trial of Four Test clones Selected from BTRI Farm (Dulia Section); Test clones – D1/18, D/6, D/10 and D/12 against Standard BT5.		Weekly data has been recorded.
15	Yield and Quality Trial of Four Test clones Selected from Phulcherra T. E. and BTRI Germplasm Bank; Test clones-Ph/9/92, BS/3, Ph/9/108 and G/61/8 against Standard BT15.		Weekly data has been recorded.
16	Yield and Quality Trial of Four Test clones Selected from Shumshernugger and Amo T. Es. Test clones – A/8/124, Sh/10/2, A/8/125 A/11/38 against Standard BT2.		Weekly data has been recorded.
17	Yield and Quality Trial of Four Test clones Selected from Shumshernugger T.E. (Sh/10/5, Sh/D/13/4and Amo T. Es. Test clones – A/8/128, BS/91/6, against Standard BT2.		Weekly data has been recorded.
18	Yield and Quality Trial of Four Test Clones Selected from Baraoorah T.E., Shumshernugger T.E. and Amo T. Es. Test Clones – B/8/79, Sh/9/43 and A/8/194 against Standard BT2 and BT17.		Weekly data has been recorded.
19	Yield and Quality Trial of Two Test Clones Selected from Baraoorah T.E., and Shumshernugger T.E. Test Clones – B/8/79 and Sh/9/71 against Standard BT2, BT17 and BTS1.		Weekly data has been recorded.
20	Yield and Quality Trial of Two Test Clones Selected from Baraoorah T.E., and Shumshernugger T.E. Test Clones – B/8/66 and Sh/8/61, against Standard BT2, BT17 and BTS1.		Weekly data has been recorded.
21	Yield and Quality Trial of Four Test Clones Selected from Baraoorah, Shumshernugger and Mirzapure T.E. (T1, T2, T3 and T4 against Standard BT2.		Newly established long term experiment.
22	Controlled Pollination between Selected Clones/Agrotypes and Selection of Generative		-

	Clones for the Establishment of Clonal Seed Reserve.		
23	Establishment of a Biclonal Seedbarie with Clones TV18 and BT3.		-
24	Comparative Yield and Quality Trial of BTRI Released Biclonal Stock BTS1, Biclonal Stock T18B3, Allynugger Polyclonal Stock (ANPS), Phulbari General Seed Stock (PBS) and Clone BT1.		Weekly data has been recorded.
25	Comparative Trial of 4 Biclonal Seed Stocks (BTS1, BTS3, TV18 × BT3 & TS463) and 3 Parental Clones (BT1, TV1 & TV19).		Weekly data has been recorded.
26	Survey and Conservation of Gene Resources of Tea in Bangladesh.		Plucking is continued and kept under observation.
27	Morphological characterization of BTRI released clones, some test clones and wild genotypes.		Data has been recorded.
28	Developing a sustainable and cost effective protocol for manufacturing health benefitted green tea and its derivatives (value added green tea).		Data has been recorded.
29	Study on seasonal effect and different clonal effect on recovery percentages of green tea.		Data has been recorded.
30	Screening of drought tolerant variety of tea at the nursery level.		Weekly data has been recorded.
31	Screening of drought tolerant variety of tea in the field condition upto 3 years of planting.		Weekly data has been recorded.
32	B4.4. Effect of different types of mulching materials on morpho-physiological characteristics of tea.		This experiment will be started very soon (upcoming drought period)

N.B: Twelve (12) experimental visits were accomplished at BTRI Farm by the divisional scientists at different dates to collect data and for intercultural operations.

Division: Entomology **Total number of experiments : 07**
Total experimental visits : 03

Sl. No.	Name of the experiments	No of visits	Activities during the reporting month
1	Evaluation of sticky traps against Thrips & Looper caterpillar	-	Yellow sticky trap had been set against thrips in residue plot of BTRI farm. Data on no. of Thrips captured in those traps are being collected. Yellow traps captured large number of Thrips and less number of non-targeted species.
2	Evaluation of some indigenous plant extracts against thrips in tea	-	Five indigenous plants viz., Akonda, Castor bean, Garlic, Nishinda and Tobacco were evaluated against thrips at 5.0, 7.5 and 10% (w/v) conc. Among them, Tobacco and Garlic showed maximum mortality percentage. Whereas, Akonda showed less mortality of Thrips.
3	Evaluation of commercial biopesticides against red spider mite in tea	-	Two Entomopathogens: *Metarhizium anisopliae* and *Pseudomonas fluorescens* were tested against red spider mite at 24, 48 and 72 HAT in laboratory condition. *M. anisopliae* showed highest efficacy on mortality than *P. fluorescens* over control. The

			rate of mortality increased with the increasing of time and dose. Experiment is completed.
4	Screening of tea clones for major insect pests in tea	-	Studies were done through monitoring and observing the degree of infestation against *Helopeltis* & RSM in tea clonal block (BT1-BT20) at BTRI. *Helopeltis* infestation was found comparatively less in BT1, BT4, BT5, BT7, BT9, BT15 & BT17. Whereas BT6, BT7, BT13, BT14, BT16 & BT18 were found less infested by RSM.
5	Screening of pesticides against *Helopeltis*, Red spider mites, Termites, Nematodes and Thrips in tea	-	Trail for *Helopeltis* and Red spider mite had been initiated during reporting month
6	Determination of residue level of commonly used pesticides in tea	-	The pesticides named Chlorpyrifos & Cypermethrin had been sprayed in the exp. plots & samples were made at different interval after spraying.
7	Study on the compatibility among different pesticides in tea	-	To find out the combined effects for both *Helopeltis* and red spider mite. Tundra and Magister were applied singly against *Helopeltis* and red spider mite, respectively. Combination of these two insecticides was also applied against to these pests. About 65% efficacy was found in combined application plot against those pests. Efficacy was better in singly applied plot.

N.B: All of the above 7 experiments are conducted at the BTRI main Farm, Srimangal. So, all of the experimental visits were accomplished at BTRI Farm by the divisional scientists at different dates to collect data and for intercultural operations.

Division: Plant Pathology **Total number of experiments : 06**
Total experimental visits : 02

Sl. No.	Name of the experiments	No of visits	Activities during the reporting month
1	Management of tea diseases (Black rot and Red rust) with Plant Growth Promoting Rhizospheric microbes.	-	There are four microbes like *Bacillus, Pseudomonas, Streptomyces, Trichoderma* were applied on Red rust disease. Data are being compiled. Among these microbes less disease severity are being observed in *Trichoderma* treated plots. Kept under observation.
2	Advent and Economic Importance of Epiphytic Red Rust of Tea: Assessment, Causes and Remedies.	-	Causal organism of the disease, dissemination of pathogen, infection site of the disease were identified. Severity of the disease was observed by applying penetrating fungicides rather than simple contact fungicides. Fields were kept under observation. Data are being recorded.
3	Identify the potential source of	-	Fields were kept under observation.

	infection of different tea diseases and capabilities for disease development.		Data are being recorded.
4	Identification of VAM and determination of their potentiality in tea cultivation.	-	Data are being recorded on growth and development of nursery plants.
5	Screening of new fungicides and herbicides against different diseases and weeds in tea	-	Received fungicides and herbicides from different pesticide companies through PTASC were applied against respective diseases and weeds in BTRI and BEF farm. Data are being recorded on severity of diseases and weeds. Primarily, the efficacy was observed as similar as standard.
6	Studies on Integration and Economics of Nitrogen fertilizer and Integrated Weed Management in young mature tea.	-	The experiment was set up in section no 8 of BEF. Different doses of N, P, K were applied as main treatment and different methods of weeding were practiced as second treatment in following Split plot design. Data are being recorded on growth and development of young tea plant.

N.B: All of the above 6 experiments are conducted at the Bilashcherra Experimental Farm, Srimangal. So, all of the experimental visits were accomplished at BTRI Farm by the divisional scientists at different dates to collect data and for intercultural operations.

Division: Soil Science **Total number of experiments : 07**
Total experimental visits : 07

Sl. No.	Name of the experiments	No of visits	Activities during the reporting month
1.	Response of dolomitic lime and its effect on the changes of soil properties and yield of mature tea	-	Data are being collected
2.	Effect of vermicompost on soil properties , growth and yield of mature tea	-	Data are being collected
3.	Status of Micronutrients (B, Mo, Zn, Mn, Fe & Cu) in some selected tea soils & its effects on the growth and yield of young Tea and mature tea	-	Zinc, Iron, Manganese and copper analysis of the collected soil samples has been completed. Soil samples collection are under process.
4.	Studies on physical properties of some selected tea soils of Bangladesh and their influence on chemical properties and yield of tea.	-	Soil sample collection is going on.
5.	Present status of toxic heavy metals (Pb, Cd, Hg, Cr) in tea soils, green leaves and made tea in Bangladesh	-	Not started yet due to the technical error in Atomic Absorption Spectrophotometer.
6.	Uses of Bio char as a soil amendment and its effect on tea soil properties	-	06 plucking data has collected and soil sample has been collected after one month of biochar application.
7.	Determination of critical values of nutrients in tea soil and plant leaf in Sylhet, Chittagong and Panchagarh region.	-	Nutrient status of different valley circles has been complied. Soil samples collection is going on.

N.B: Four (04) experimental visits were accomplished at BTRI farm and three (03) experimental visits were accomplished at Bilashcherra Experimental Farm by the divisional scientists at different dates to collect data and for intercultural operations.

Division: Statistics and Economics **Total number of experiments : 03**
Total experimental visits : 03

Sl. No.	Name of the experiments	No of visits	Activities during the reporting month
1	Economic efficiency of some selective test clones and standard clones at BTRI farm	03	The experiment has started for the analysis of economic performance of the test clones at BTRI farm. The data collection of the experiments has running.
2	Adoption and comparative performance of BTRI innovative technologies	-	Out of 164 gardens (T.Es.) 88 have sent the field-up questionnaires and the data of other T.Es. were collected from the monitoring report of PDU. Partial of the data was compiled and presented in the 74th RSC meeting. The rest of the data are being under compiling.
3	Economics of some selected bought leaf factories at Panchagarh	-	The preparation of data collection sheets, questionnaire is now under supervision and in progress.

D1. Advisory Visit: 11

SL. No.	Name of T.E.	Date of visit	Nature of problem(s) observed	Suggested remedies/ recommendations	Name of Scientist(s)
1.	Sabari T.E	13.09.18	Death of Shade trees in new extension areas.	Control measures suggested	Mr. Syeful Islam, SSO Mr. Apu Biswas, SSO
2.	Clevedon T.E.	18/09/18	Prevailing water logged condition in some patches. *Helopeitis* & Red spider mite infestation.	Control measures suggested	Dr. M.A.Aziz, PSO Dr. Toufiq Ahmed, PSO Md. Jahangir Alam, SO
3.	Ruthna T.E.	18/09/18	Plucking round was not maintained properly which affecting on quality of plucked shoots. *Helopeitis* infestation.	Control measures suggested	Dr. M.A.Aziz, PSO Dr. Toufiq Ahmed, PSO Md. Jahangir Alam, SO
4.	Rema T. E.	19/09/18	Mortality of young plants due to injudicious application of	Control measures suggested	Dr. M.A.Aziz, PSO

			weedicide		Mr. Syeful Islam, SSO Mr. Apu Biswas, SSO
5.	Surma T.E.	19/09/18	Sporadic Die back and Black rot diseases as secondary. Severely infestation by Helopeltis and some area covered by weed. Method of soil sample collection	Control measures suggested	Dr. M.A.Aziz, PSO Mr. Syeful Islam, SSO Mr. Apu Biswas, SSO
6.	Burjan T. E.	23/09/18	Seedbari mother bush correction and contour drain in new plantation	Control measures suggested	Mr. Md. Ismail Hossain, CSO
7.	Khadim T. E.	23/09/18	Saplings raising problem at nursery and shade tree management at plantation section	Control measures suggested	Mr. Md. Ismail Hossain, CSO
8.	Madhupur T.E.	25/09/18	Pink/Yellow mite & Looper caterpillar	Control measures suggested	Mr. Md. Jahangir Alam, SO
9.	Hazinagar T.E.	26/09/18	*Helopeitis* & Red spider mite	Control measures suggested	Mr. Naim Mustafa Ali, SO Mr. Md. Jahangir Alam, SO
10.	Luayuni and Holicherra T.E.	26/09/18	*Helopeitis* & Red spider mite	Control measures suggested	Mr. Naim Mustafa Ali, SO Mr. Md. Jahangir Alam, SO
11.	Karimpur T. E.	26/09/18	Saplings raising problem at nursery and shade tree management at plantation section	Control measures suggested	Mr. Md. Ismail Hossain, CSO

D2. Advisory activities under substation:

Date of Visit	Name of the T.E/ Small grower	Name of Scientist(s)	Nature of problem observed	Suggested remedies / recommendations
-	-	-	-	-

E. Correspondence

Name of the Division	No. of Correspondence	Date of Correspondence	Name of the T.E (s) / Organization	Official visit
Agronomy	-	-	-	**01**
Botany	03	20-09-2018	Rema T. E.	-
		25-09-2018	Cleavedon T. E.	
		25-09-2018	Ruthna T. E.	
Biochemistry	-	-	-	-
Entomology	02	25.09.18	RuthnaT.E.	**01**
		25.09.18	Clevedon T.E	
Plant Pathology	02	13.09.18	Sabari T.E	**01**
		20.09.18	Rema T.E	
Soil Science	10	03.09.18	Udnacherra T.E	**01**
		03.09.18	Hatimara T.E	
		03.09.18	Chatlapore T.E	
		10.09.18	Imam Bawani T.E	
		19.09.18	Horincherra T.E	
		19.09.18	Jagcherra T.E	
		19.09.18	Lalchand T.E	
		24.09.18	Balisera T.E	
		24.09.18	Ootterbhag & Indanugger T.E	
		24.09.18	Rampore T.E	
Stat. & Econ				-
Technology	-	-	-	-
Total	**17**			**04**

F. Reports on soil and fertilizer analysis

Name of T.E	No of soil analyzed	No of fertilizer analyzed	No of Compost analyzed	No of water analyzed	Date of reporting	Recommendation
Udnacherra T.E	-	-	01	-	03.09.2018	Quality assessment
Hatimara T.E	-	-	01	-	03.09.2018	Quality assessment
Chatlapore T.E	-	-	02	-	03.09.2018	Quality assessment
Imam Bawani T.E	-	Urea – 01 TSP – 01 MOP - 01	-	-	10.09.2018	Quality assessment
Horincherra T.E	-	-	01	-	19.09.2018	Quality assessment
Jagcherra T.E	-	-	01	-	19.09.2018	Quality assessment
Lalchand T.E	04	-	-	-	19.09.2018	Fertilizer Recommendation
Balisera T.E	-	-	02	-	24.09.2018	Quality assessment
Ootterbhag & Indanugger T.E	-	-	01	-	24.09.2018	Quality assessment
Rampore T.E	-	-	01	-	24.09.2018	Quality assessment
Total	**04**	**03**	**10**	**00**		

G. Distribution of planting materials and production of BTRI

Distribution from	Distribution of planting materials			Production		
	Fresh cuttings	Rooted cuttings	Improved seeds (kg)	Green leaves (Kg)		
BTRI	225000	7360+90=7450	-	BTRI	12795	88832
				BEF	76037	
Fatickcherri	552000	-	-			8989
Kaliti	80000	-	-			3732
Total	**857000**	**7450**	-			**101553**

General comments: Distribution of planting materials depends on the demand of the tea estates/ tea growers

H. Balance sheet of made tea (Black Tea)

Month	Reserve (Kg)			Consumption (Kg)				Present Balance
	BF	Production	Total	Local	BTB Sales Centre	Invoiced	Total	
Sept, 2018	24765	18790	43555	201	50	30250	30501	13054
Sept, 2017	21395	42800	64195	206	-	33000	33206	30989
Jan – Sept, 18	22625	90040	112665	7916 (TW=4700)	120	91575	99611	13054
Jan – Sept, 17	19386	153235	172621	3202	600	137830	141632	30989

I. Balance sheet of made tea (Green Tea)

Month	Received green leaf (kg)	Produced green tea (kg)	Progressive total (Kg) (January to Sept' 2018)
Sept, 2018	413.5	66.16	306.91

J. Balance sheet of made tea (White Tea)

Month	Received green leaf bud (kg)	Produced white tea (kg)	Progressive total (Kg) (January to Sept' 2018)
Sept, 2018	-	-	0.31

K. Weather report for meteorological station, Srimangal

Month	Temperature (°c)		Rainfall of the month (mm)	Nos. of rainy days	Total rain fall up to the month (mm)	Evaporation of the month (mm)	Sun shine Hrs	R.H. %	Dew point (°c)
	Max^m	Min^m							
Sept, 18	33.48	25.09	174	16	2006	121.9	5.17	80.17	26.77
Sept, 17	32.94	25.23	463	25	3279	101.5	3.84	83.63	25.64

General comments: Weather report varies from season to season

L. Delivered lecture hours for postgraduate diploma / certificate course at MTC

Divisions	**Date of lecture**	**Course Title**	**Resource Person**	**Time of the month (hrs)**
Agronomy	-	-	-	-
Biochemistry	-	-	-	-
Botany	-	-	-	-
Entomology	-	-	-	-
Plant Pathology	-	-	-	-
Soil Science	-	-	-	-
Stat. & Econ	-	-	-	-
Technology	-	-	-	-
Total				

M. Training workshops for small tea grower: 02

Sl. No.	Date	Venue	Subject matter	Resource person	Participants	How tea industries will be benefited
1.	26.09.18	Saron para, Bandarban	Soil & fertilizer management and maintaining good health of tea bushes	Mr. Abdul Qayyum Khan, PSO Mr. Md. Syeful Islam, SSO	Small tea growers	Small tea growers achieved theoretical and practical knowledge about soil fertility, fertilizer and their application methods for the soil improvement and increase crop yield. They also gain knowledge on necessary measures for maintaining good health of tea plants in proper ways
2.	27.09.18	Lappahi-mukh para, Bandarban				

N. Workshops conducted:

Sl. No.	Date	Venue	Subject matter	Resource person	Participants	How tea industries will be benefited
-	-	-	-	-	-	-

O. Miscellaneous

14 Scientists and officers of different research divisions of BTRI participated in a 3 days long training course on "Office Management" organized by Bangladesh Tea Board at PDU, Sreemangal.

9.10.18

(Dr. Mohammad Ali)
Director