

**Training Course
on
Climate Smart Agriculture**

08-12 December 2019

Course Completion



**National Agriculture Training Academy (NATA)
Ministry of Agriculture
www.nata.gov.bd**

**Training Course
on
Climate Smart Agriculture**

08-12 December 2019

Course Management

Course Adviser : Dr. Md. Abu Sayeed Miah
Director General (In-charge)
NATA, Gazipur

Course Coordinator : Dr. Md. Mayen Uddin
Deputy Director (Food Technology)
NATA, Gazipur

Asst. Course Coordinator : MD. Eskander Hossain
Senior Assistant Director
NATA, Gazipur

Asst. Course Coordinator :
Nilufa Akter
Senior Assistant Director
NATA, Gazipur

Contents

Sl. No.	Subject	Page
1	Introduction	1
2	Course Objectives	1
3	Duration of the Course	1
4	Course Content	1-2
5	Training Methods & Materials.....	2
6	Sports & Recreation.....	2
7	Concluding session	2
8	Feedback from the Participants	2
9	Speech by the Course Coordinator	2
10	Distribution of Certificate	2
11	Participants of the Course..... (annexure I)	3
12	Resource Person & Guest Speaker(annexure II)	4
13	Training Schedule(annexure III)	5-7
14	Course Evaluation by the Participants(annexure IV)	8
15	Evaluation Procedure of the Participants....(annexure V)	9-12
16	Evaluation question	13

Course at a glance

Agriculture is main force of Bangladesh economy which is completely dependent on the mercy of nature. Agriculture of Bangladesh is repeatedly affecting by different natural calamities every year. Now a days this natural calamities are becoming as more extreme as frequent due to climate change. As a result climate change risk and vulnerability in Bangladesh is increasing day by day. Vulnerable area of Bangladesh Agriculture is saline water intrusion, soil salinity, drought, flood, flash flood, uneven rainfall etc. which will hamper food production and food security. There is no alternative to shifting our farming from conventional agriculture to climate smart agriculture to combat these challenges and to ensure food security.

Climate smart extension, research and development plan is very essential to fight this challenge. Climate smart development in institutional and personnel level is very important to achieve this goal. To develop efficient man power on climate smart agriculture is essential. This module can play vital role to develop personnel on this issue.

Course objectives :

1. To improve participant's skills in designing and implementing climate smart agriculture in their own jurisdiction.
2. To develop advanced knowledge and idea on to increase their various aspects of climate variability and change
3. To develop knowledge of personnel working in agriculture sector for mitigation and adaptation to climate change to ensure sustainable productivity.

Target population : officers of different organizations under Ministry of Agriculture.

Duration of each session: 60 minutes.

Prerequisites of the course:

- To attend in the training class in time;
- To be present at least 99% of the classes otherwise certificate may not be awarded;
- Maintain the norms in dormitory and cafeteria;
- Absent from any session is not allowed without prior permission from the course coordinator even in case of emergency
- Enthusiastic to learn and share ideas in training session

Training Methods & Materials:

Lecture, Discussion, Exercise, Group Work, Case study Briefing, individual exercise.

Sports & Recreation: There is a playground, a tennis court and a volley ball court in NATA campus. So the participants can avail the opportunity to play sports in that areas.

There is also a recreation room with color T.V in the dormitory. The daily newspapers are also available in the recreation room for the participants.

Concluding Session

Feedback from the participants

The training was demand driven. The topics were very contemporary. The resource persons were topic relevant experts, knowledgeable and veteran. So resource speakers' selection was undoubtedly accurate to cope up with the time demand topics. There was an ample scope to get introduced and exchanged ideas between the officers of different organizations under the Ministry of Agriculture. The time management of that training was definitely excellent. Moreover, residential facilities were better. A 3 members' mess committee was built among the participants upon their choice. The training was carried out well with strong discipline. They got the Wi-Fi facilities in the dormitory. The internet connection in PC was interrupted sometimes due to the problems in submarine cables. They expected to extend the duration of that training. Besides, they requested to arrange a refresher's course for them. In fact, the cooperation of Course Coordinator, Assistant Course Coordinator and the NATA authority was praiseworthy. In a nutshell, the training was incredibly fruitful for them.

Distribution of Certificate

The certificates are distributed among the participants after successfully completion of the training.

Annexure –I
Participants of the Course
Climate Smart Agriculture

Sl. No	Name & Designation	Posting Place & Organization	Mobile No	email
1	Dr. SALMA LAIZOO DSCO	Seed Certification Agency, Netrokona	০১৭১৫-৭৯০৭৬৭	dSCO.netrakona@sca.gov.bd
2	MD. MANIRUZZAMAN ADD	DAE, Rajbari	০১৭৩৪-০৯৯০১০	
3	MOST. TAZMIRA AKTER AEO	DAE, Gaibandha sadar, Gaibandha		
4	MD. MAHBUBUL ALAM BASUNIA AEO	DAE, Sadullapur, Gaibandha		
5	BISHWAJIT KUNDU Scientific Officer	BJRI, Dhaka	০১৭২৫-১৩২৯৩৭	jit.sau@gmail.com
6	RAFIQUL ISLAM Instructor	ATI, Gaibandha	০১৭১৮-৮৫৯০৮৭	saurafiq@gmail.com
7	MD. MASHRAFUL ALAM AEO	DAE, Bogura Sadar, Bogura	০১৭১৯-৪৬২৬১৯	mashrafuldae@gmail.com
8	MD. MEHEDI HASAN Instructor	ATI, Gaibandha	০১৭৪৫-৩৬৩৩৭৩	bau.mehedi@gmail.com
9	IFFAT KIBRIA AL NAYEEM AEO	DAE, Baliadangi, Thakurgaon	০১৭১০-৩৪৫৫১১	nayeemkibria88@gmail.com
10	PALASH KUMAR KUNDU Scientific Officer	Irrigation & Water Management Division, BRRI	০১৭২৩-২৯৬২৫৭	kundu22_bau@yahoo.com
11	MD. REZAUL KARIM Assistant Engineer	BMDA, Sapaher, Naogaon		
12	MUHAMMAD AHSANUL KARIM Assistant Engineer	BMDA, Natore Zone, Natore.	০১৭১৭-৩৮৫৯২৬	ae_natore_nat@bmda.gov.bd
13	DR. MD. ABUL KHAYER MIAN PSO	Agronomy Division, BARI, Gazipur	০১৯১৪-৬৬১৩০১	mainmd.abulkhayer@yahoo.com
14	SUBRATO DEBNATH AEO	DAE. Jaintapur, Sylhet	০১৭২০-৯২৫৩৪৫	uaojaintasyllhet@gmail.com
15	DR. A. H. M. MOTIUR RAHMAN TALUKDER Scientific Officer	Plant Physiology Division, BARI, Gazipur	০১৭২১-২৬০২৯৮	motiurbari@yahoo.com
16	MD. AZIZUR RAHMAN Chief Instructor	ATI, Sherpur		
17	MD. ABDUS SATTAR Chief Instructor	ATI, Sherpur	০১৭১১-৯৩৬৪৮০	abdussattar1763@gmail.com
18	MOHAN KUMAR GHOSH Deputy Director	DAE, Khulna Region, Khulna	০১৭১৫-১৭৬৮১৮	add1khulna@yahoo.com
19	MD. HABIBUR RAHMAN Scientific Officer	Central Laboratory, SRDI, Dhaka	০১৭১২-২৭৭৩৯৭	habibso.bd@gmail.com
20	MD. ABDUL JALIL Assistant Director	Contract Growers, BADC, Dinajpur	০১৭৩৮-৫৮৫৯৫৫	majalil1988@gmail.com
21	SAYED TANVEER AHMED ADD (Hort.)	DAE, Netrokona	০১৭১১-৪৩৩৬৭৫	tanveerdae22@gmail.com
22	MOHAMMAD NAZRUL ISLAM ADD (Crop.)	DAE, Barishal	০১৭২১-০৯৭৯৫২	kbdnazrulislam@yahoo.com
23	HAFIJA SULTANA Scientific Officer	SRDI, Dhaka	০১৭২৮-৪৫২৯৭৮	dellaku08@gmail.com
24	NAJIA KAMRUL	DAE, Field Service Wing,	০১৭১৭-২৮৭৮৪৮	uro.rana@gmail.com

Sl. No	Name & Designation	Posting Place & Organization	Mobile No	email
	Agricultural Engineer	Khamarbari, Dhaka		
25	REZA RUKSANA Agricultural Engineer	DAE, Field Service Wing, Khamarbari, Dhaka	০১৭৩২-৬১৪২৫১	hrakhi12@gmail.com
26	IBNE SALEH MD. FARHAD Scientific Officer	Soil Science Division, BARI, Gazipur	০১৭১৭-৪৭৬৩২০	farhadsau@gmail.com
27	Dr. MOHAMMAD MAHBUBUL HAQUE Scientific Officer	ARE Division, BINA, Mymensingh	০১৭১২-৩৪৩৮২০	mahbub.bina@gmail.com
28	MD. ALI HOSSAIN Assistant Engineer	BMDA, Sadullapur Zone, Gaibandha	০১৭১৬-০৭৭৫০৬	ae_gaibandha_gaibandha@bmda.gov.bd
29	MD. KAMRUL HASAN Assistant Director	Contract Growers, BADC, Meherpur	০১৭১৯-৩০৯৬৫৩	kamrul3210@gmail.com
30	DR. MD. SHARIFUL ISLAM PSO (A.C)	BSRI, RSRS, Thakurgaon		
31	KHONDOKER ENAMUL KABIR Chief Cotton Development Officer	Cotton Development Board, Jhenaidah	০১৭১১-০৬১১১৪	enamul.kabir.cdb@gmail.com
32	ABU SAYEED TAREQ AEO	DAE, Bandar, Narayanganj	০১৭১১-৯২৪৫৮১	tareq34485@gmail.com

Annexure –II

List of Resource Speaker

	Name	Designation	Organization	e-mail and mobile No.
1	Dr. Md. Abdul Mueeed	Director	Field Service Wing DAE, Dhaka	mueeedbd61@gmgma.com - 01716940311
2	Munshi Mohammad Hedayet Ullah	Ex. Director General	NATA, Gazipur	01711-193834
3	Dr. Niaz Ahmed Khan	Professor	Dhaka University	niaz.khan@yahoo.com 01711-364462
5	Dr. Muhammad Math hurul Haque	Ex. Director General	NATA	mathhuq@gmail.com 01714688233
6	Dr. MD. Abu Sayed Miah	Director General	NATA	dgnata14@gmail.com 01712024623
7	Dr. Moinn Us Salam	Consultant	CYMMIT	01855871938
8	Dr. Md. Asadul Haque Bhuiya	CSO, T&C Division	BARI	Mahbhuiyan63@yahoo.com 01720051657
9	Dr. Habib Mohammad Naser	PSO	BARI	nasemh2@yahoo.com 01750446207
10	Dr. UmmeAminunNaher	PSO, Soil Science Division	BRII	naher39@gmail.com 01712996391
11	Dr. Sultan Ahmmad	PSO, Entomology Division	BARI	sultan_palbari@yahoo.com 01711242901
12	Dr. Samsunaher	CSO, Horticulture Division	BARI	Nahar321@yahoo.com 01674876252
13	Dr. Rina Rani Saha,	CSO & Head, Agronomy Division	BARI	saharinarani@yahoo.com 01718118906
14	Dr. Apurba kanti Chudury, BARI	CSO, Seed Technology Division	BARI	Apurba.chowdhury@gmail.com 01819128302
15	MD. Eskander Hossain, NATA	Senior Assistant Director	NATA	eskandarhossain@yahoo.com 01938615225
16	Dr. AkhlasUddin NATA	Deputy Director	NATA	akhlas.uddin@yahoo.com 01716257354
17	Dr. Muhammd Arshedul haque, BARI	SSO	BARI	arshadulfmpe@gmail.com Mobile: 1712635503
18	Dr. Abdul Matin,	SSO, Farm Mechinary Division	BARI	amatintaj@yahoo.com 01777131518
19	Dr. Abdul Mazed	Deputy Director	NATA	mazed13th.dae@gmail.com 01814849190
20	Dr. Md. Mayen Uddin	Deputy Director	NATA	mayen.dae85@yahoo.com 01711969688
21	Khabirunnaher	Senior Assistant Director	NATA, Gazipur	naharkhabirun@yahoo.com 01733995286

Annexure –III

Government of the Republic of Bangladesh
National Agriculture Training Academy
Gazipur-1701
www.nata.gov.bd



Training schedule on Climate Smart Agriculture

Duration: 08-12 December 2019

08-12-2019

Time	Topics	Method	Speaker
8.30-9.00	Registration		SAAO Lucky
9.00-9.45	Inauguration		DG/Director/Faculties
9.45-10.45	Impacts of Climate change: Bangladesh Context	L &D	Dr. Habib Mohammad Naser PSO, Soil Science Division, BARI
10.45-11.15	Tea break		
11.15-12:15	Risks and Vulnerabilities to Climate Change and what to do	L &D	Do
12.15-1.15	Climate SMART Agriculture: Concepts and Background	L &D	Dr. Md. Mayen Uddin DD, NATA
1.15-2.30	Lunch and Prayer		
2.30-3.30	Principles of soil health and Challenges of climate change to soils	L &D	Dr. Md. Asadul Haque Bhuiya CSO, T&C Division, BARI
3.30-4.30	Problem soil Management for Climate Smart Agriculture	L &D	Dr. Md. Asadul Haque Bhuiya, CSO, T&C Division, BARI
04:30-05:00	Tea break		

09-12-2019

Time	Topics	Method	Speaker
9.00-9.15	Recap		CC/ACC
9.15-10.15	Concepts and Causes of Climate Change and its scientific basis	L &D	Dr. Niaz Ahmed Khan Professor, Dhaka University
10.15-11.15	Climate Change: Global Scenario		Do
11.15-11.45	Tea Break		
11.45-12.45	Insects Management of crops for Climate change	L &D	Dr. Sultan Ahmmad PSO, Entomology Division, BARI
12.45 - 2.15	Lunch and Prayer		
02.15- 03:15	Fertilizer management Technique for CSA	L &D	Dr. Umme Aminun Naher PSO, Soil Science Division, BARI
03.15-04:15	GHG emission management for CSA	L &D	Do
04:15-04:45	Tea break		

10-12-2019

Time	Topics	Speaker	Method
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9.00-9.15	Recap		CC/ACC
9.15-10.15	Context of Climate Smart Agriculture practices for adaptation to climate Change under submerged/flooded ecosystem in Bangladesh	L , D & GW	MD. Eskandar Hossain, Senior Assistant Director, NATA
10.15-11.15	Conservation Agriculture for CSA	L &D	Dr. Rina Rani Saha CSO & Head, Agronomy Division,BARI
11.15-11.45	Tea Break		
11.45-12.45	Adaptation to drought by crop management for CSA	L &D	Dr. Rina Rani Saha CSO & Head, Agronomy Division, BARI
12.45-2.15	Lunch and Prayer		
02.15-03.15	Diseases Management of crops for Climate change	L &D	Dr. Samsunaher CSO, Horticulture Division, BARI
03:15-04:15	Adaptation to Salinity by crop management for CSA		Dr. Nirmal Chandra Shil CSO, Soil Science Division, BARI
04:15-04:45	Tea break		

11-12-2019

Time	Topics	Speaker	Method
9.00-9.15	Recap		CC/ACC
9.15-10.15	Water Saving crop Production Technology for CSA	L &D	Dr. Muhammad Arshadul Haque SSO, BARI
10.15-11.15	Introduction to plan for CSA in drought condition. Machinery and Mechanization to Mitigate GHG Emission	L &D	Dr. Abdul Matin, SSO, Farm Mechinary Division, BARI
11.15-11.45	Tea break		
11.45-12.45	Weather forecasting for crop production and management	L &D	Dr. Abdul mazed Deputy Director (LR) , DAE
12.45-2.15	Lunch and Prayer		
02.15-3.15	Crop modeling: Principles and Practices	L , D & GW	Dr. Moin us Salam Consultant, CYMMIT
03.15-04.15	Crop modeling: Application/Evaluation/testing	L , D & GW	Dr. Moin us Salam Consultant, CYMMIT
04:15-04:45	Tea break		

12-12-2019

Time	Topics	Speaker	Method
9:00-9:15	Recap		CC/ACC
9:15-10:15	Seedling production techniques of vegetable and spice crops on floating bed under submerged/flooded ecosystem	L , D & GW	MD. Eskandar Hossain Senior Assistant Director NATA
10:15-11:15	CSA action plan for drought prone areas, CSA action plan for saline prone areas, CSA action plan for flood prone areas	L , D & GW	Dr. Muhammad Math hurul Haque Ex. DG, NATA
11:15-11:45	TEA Break		
11:45-12:45	DO	Do	Do
12:45-2:15	Lunch and Prayer		
02.15-03.15	Biodiversity Responding to climate change.	L &D	Dr. Md. Mayen Uddin Deputy Director, NATA
03.15-04.15	SDG for CSA	L &D	MD. Eskandar Hossain Senior Assistant Director NATA
04.15-05:00	Closing		DG/DIRECTOR

(Dr. MD. Mayen Uddin)
Deputy Director
&

Annexure-IV

Training Course Evaluation by the participants

1. The Topics they liked:

- * Concepts and Causes of Climate Change and its scientific basis
- * Floating agriculture
- * Problem soil (drought prone, hill, haor and charland) management for Climate Smart Agriculture
- * Mitigation & Adaptation to salinity by crop management technologies for CSA
- * Crop Modeling
- * Challenges of Soil health management under changing climate
- * Soil and fertilizer management option for mitigation of GHG Emission
- * Soil and fertilizer management option for mitigation of GHG Emission

2. The Topics need to be added:

- * Exposure/field visit on business organization
- * Group work with group presentation

Best Training Methods choose by the participants

1. Discussion and group exercise
2. Practicing

The issues that are disliked by the participants

1. Internet problem
2. Shortage of sport materials and recreation facilities
3. Minimum budget
4. Very tight schedule
5. Less Class practices
6. Residential facilities

The others associated issues they liked

1. Topic wise expert resource persons were selected very prudently.
2. Expert resource persons

Recommendations for the improvement of the course

1. Uninterrupted internet and electricity supply should be provided
2. Practical class should be more
3. Arrangement of Tour or recreation
4. Provide more time for discussion and exercise
5. Hard copy of manual of training course
6. Sports facilities should be available

Annexure-V Speaker Evaluation by Trainees

Grade range: 1-6 (Higher marks represent the higher grade)

Speaker name and address	Subject	Criteria	Obtained grade (Average)	Comments
Dr. Habib Mohammad Naser PSO, Soil Science Division, BARI	Impacts of Climate change: Bangladesh Context	Knowledge Over subject	5.2	Good
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Do	Risks and Vulnerabilities to Climate Change and what to do	Knowledge Over subject	5.2	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Md. Mayen Uddin DD, NATA	Climate SMART Agriculture: Concepts and Background	Knowledge Over subject	4.5	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Md. Asadul Haque Bhuiya CSO, T&C Division, BARI	Principles of soil health and Challenges of climate change to soils	Knowledge Over subject	3.9	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Do	Problem soil Management for Climate Smart Agriculture	Knowledge Over subject	3.8	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Niaz Ahmed Khan Professor, Dhaka University	Concepts and Causes of Climate Change and its scientific basis	Knowledge Over subject	5.6	Excellent
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		

Speaker name and address	Subject	Criteria	Obtained grade (Average)	Comments
		Control over class		
		Time management		
Do	Climate Change: Global Scenario	Knowledge Over subject	5.6	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Sultan Ahmmad PSO, Entomology Division, BARI	Insects Management of crops for Climate change	Knowledge Over subject	5.1	Good
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Umme Aminun Naher PSO, Soil Science Division, BRRI	Fertilizer management Technique for CSA	Knowledge Over subject	5.1	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Do	GHG emission management for CSA	Knowledge Over subject	5.0	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
MD. Eskandar Hossain, Senior Assistant Director, NATA	Context of Climate Smart Agriculture practices for adaptation to climate Change under submerged/flooded ecosystem in Bangladesh	Knowledge Over subject	4.9	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Rina Rani Saha CSO & Head, Agronomy Division, BARI	Conservation Agriculture for CSA	Knowledge Over subject	4.5	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Do	Adaptation to drought by crop management for CSA	Knowledge Over subject	4.5	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		

Speaker name and address	Subject	Criteria	Obtained grade (Average)	Comments
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Samsunaher CSO, Horticulture Division, BARI	Diseases Management of crops for Climate change	Knowledge Over subject	4.5	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Nirmal Chandra Shil CSO, Soil Science Division, BARI	Adaptation to Salinity by crop management for CSA	Knowledge Over subject	4.2	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Muhammad Arshadul Haque SSO, BARI	Water Saving crop Production Technology for CSA ecosystem	Knowledge Over subject	5.5	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Abdul Matin, SSO, Farm Mechinary Division, BARI	Introduction to plan for CSA in drought condition. Machinery and Mechanization to Mitigate GHG Emission	Knowledge Over subject	4.7	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Abdul Mazed Deputy Director (LR) ,DAE	Weather forecasting for crop production and management	Knowledge Over subject	4.7	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Moin us Salam International Consultant, CIMMYT	Crop modeling: Principles and Practices	Knowledge Over subject	5.5	Excellent
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Do	Crop modeling: Application/Evaluation/testing	Knowledge Over subject	5.4	
		Ability to present ideas clearly/relevantly		

Speaker name and address	Subject	Criteria	Obtained grade (Average)	Comments
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
MD. Eskandar Hossain, Senior Assistant Director, NATA	Seedling production techniques of vegetable and spice crops on floating bed under submerged/flooded ecosystem	Knowledge Over subject	5.1	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Muhammad Math hurul Haque Ex. DG, NATA	CSA action plan for drought prone areas, CSA action plan for saline prone areas, CSA action plan for flood prone areas	Knowledge Over subject	5.3	Good
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Md. Mayen Uddin Deputy Director, NATA	Biodiversity Responding to climate change.	Knowledge Over subject	5.4	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
MD. Eskandar Hossain, Senior Assistant Director, NATA	SDG for CSA	Knowledge Over subject	5.3	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		

Participants Evaluation..... (annexure-vi)

Climate Smart Agriculture

Sl. No	Name & Designation	Posting	Pre-evaluation	Post-evaluation
1	Dr. SALMA LAIZOO DSCO	Seed Certification Agency, Netrokona	03	25
2	MD. MANIRUZZAMAN Additional Deputy Director	DAE, Rajbari	17	31
3	MOST. TAZMIRA AKTER AEO	DAE, Gaibandha sadar, Gaibandha	05	30
4	MD. MAHBUBUL ALAM BASUNIA AEO	DAE, Sadullapur, Gaibandha	09	31
5	BISHWAJIT KUNDU Scientific Officer	BJRI, Dhaka	15	40
6	RAFIQUL ISLAM Instructor	ATI, Gaibandha	15	23
7	MD. MASHRAFUL ALAM AEO	DAE, Bogura Sadar, Bogura	10	25
8	MD. MEHEDI HASAN Instructor	ATI, Gaibandha	10	29
9	IFFAT KIBRIA AL NAYEEM AEO	DAE, Baliadangi, Thakurgaon	11	29
10	PALASH KUMAR KUNDU Scientific Officer	Irrigation & Water Management Division, BRRI	23	29
11	MD. REZAUL KARIM Assistant Engineer	BMDA, Sapaher, Naogaon	8	30
12	MUHAMMAD AHSANUL KARIM Assistant Engineer	BMDA, Natore Zone, Natore.	11	30
13	DR. MD. ABUL KHAYER MIAN Principal Scientific Officer	Agronomy Division, BARI, Gazipur	25	40
14	SUBRATO DEBNATH AEO	DAE. Jaintapur, Sylhet	16	30
15	DR. A. H. M. MOTIUR RAHMAN TALUKDER Scientific Officer	Plant Physiology Division, BARI, Gazipur	25	36
16	MD. AZIZUR RAHMAN Chief Instructor	ATI, Sherpur	15	31
17	MD. ABDUS SATTAR Chief Instructor	ATI, Sherpur	15	21
18	MOHAN KUMAR GHOSH Deputy Director	DAE, Khulna Region, Khulna	19	32
19	MD. HABIBUR RAHMAN Scientific Officer	Central Laboratory, SRDI, Dhaka	19	31
20	MD. ABDUL JALIL Assistant Director	Contract Growers, BADC, Dinajpur	14	29
21	SAYED TANVEER AHMED ADD (Hort.)	DAE, Netrokona	7	32
22	MOHAMMAD NAZRUL ISLAM ADD (Crop.)	DAE, Barishal	10	30

Sl. No	Name & Designation	Posting	Pre-evaluation	Post-evaluation
23	HAFIJA SULTANA Scientific Officer	SRDI, Dhaka	16	32
24	NAJIA KAMRUL Agricultural Engineer	DAE, Field Service Wing, Khamarbari, Dhaka	05	31
25	REZA RUKSANA Agricultural Engineer	DAE, Field Service Wing, Khamarbari, Dhaka	02	33
26	IBNE SALEH MD. FARHAD Scientific Officer	Soil Science Division, BARI, Gazipur	08	37
27	Dr. MOHAMMAD MAHBUBUL HAQUE Scientific Officer	ARE Division, BINA, Mymensingh	13	41
28	MD. ALI HOSSAIN Assistant Engineer	BMDA, Sadullapur Zone, Gaibandha	05	18
29	MD. KAMRUL HASAN Assistant Director	Contract Growers, BADC, Meherpur	00	31
30	DR. MD. SHARIFUL ISLAM Principal Scientific Officer (A.C)	BSRI, RSRS, Thakurgaon	05	25
31	KHONDOKER ENAMUL KABIR Chief Cotton Development Officer	Cotton Development Board, Jhenaidah	16	30
32	ABU SAYEED TAREQ Agriculture Extension Officer	DAE, Bandar, Narayanganj	04	29

Annexure-VI

National Agriculture Training Academy
Training on Climate Smart Agriculture
Pre Evaluation

Value of each questions are equal

Full Marks- 50

Times: 20 minutes

Name:

- 1.What is climate Change? How Climate Change Happens?
- 2.What areEl Nino and La nina?
- 3.Mention the Challenges of Agriculture in Bangladesh due to Climate Change?
- 4.What Measures should take to protect Agriculture from Flood?
5. Principles of Conservation Agriculture?
6. Write the advantages of CSA based resource conserving technologies?
7. Write down the Soil and water conservation method?
8. What is risk management?Write down Risk Management Element.
9. Mention Soil Salinity management technology?
- 10.What are the Major causes of flood? Write five technologies for mitigation and adaption to flood and flash flood