

**Training Course
on
Climate Smart Agriculture**

10-14 January 2021

Course Completion Report



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

Training Course on Climate Smart Agriculture

10-14 January 2021

Course Management

Course Adviser: Dr. Md. Akhtaruzzaman
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: Banani Karmaker
Senior Assistant Director
NATA, Gazipur

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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	MD. EKTARUL ISLAM	AEO, Kamalnagar, Lakshmipur	01723642575	ektarul.ps10@gmail.com
2	MD. NUR ALOM	AEO, Chilmari, Kurigram	01744315820	nuralom8403@gmail.com
3	DR. MD. A. MAJID	SSO, BIRTAN, Sirajganj	01722403220	ssosirajganj@gmail.com
4	MOHAMMAD MATIAR RAHMAN	ADD (Horticulture), DAE, Kishoreganj	01963146844	humayed.raad@gmail.com
5	MOHAMMAD KHAYER UDDIN MOLLAH	DD, DAE, Rajshahi Region, Rajshahi	01712715460	khayerdae@gmail.com
6	RAFIQUL ISLAM	Agriculture Extension Officer, Dharmapasha, Sunamganj	01733457280	rafiqulislam.sau@gmail.com
7	MD. HABIBUL AHSAN	Assistant Engineer, BMDA, Dhamuirhat Zone, Naogaon	01712923853	ae_dhamuirhat_naoga2@bmda.gov.bd
8	MD. MOSTAFIZUR RAHMAN	Assistant Engineer, BMDA, Gomostapur Zone, Chapainawabgonj	01759699906	ae_naogaon_naoga1@bmda.gov.bd
9	MOHAMMED MOTIUR RAHMAN	Assistant Engineer, BMDA, Niamatpur Zone, Naogaon	01717624645	mostafizurrahman136@gmail.com
10	DR. MD. ASHRAFUL ALAM	Scientific Officer, BWMRI, Dinajpur	01716837719	ashrafulw@yahoo.com
11	MD. ARIFUL ISLAM	Scientific Officer, ORC, BARI, Gazipur	01719134124	arif3746@yahoo.com
12	MD. MAMUNUR RASHID	AEO, Bhangura, Pabna	01723918539	mamunurmimo.dae@gmail.com
13	MD. NURISLAM	SO, Soil Resource Development Institute, Dinajpur	01739112120	nurhstu5005@gmail.com
14	SANJIT MANDAL	Scientific Officer, BSRI, Ishurdi, Pabna	01735391575	sanjitbsri@gmail.com
15	AYESHA AKTER	Instructor, ATI, Shimultoli, Gazipur	01712188718	Ayesha.aeo34@gmail.com
16	MD. IBRAHIM ALI	Scientific Officer, Mymensingh	01718029870	ibrahimbd02@gmail.com

Sl. No	Name & Designation	Posting Place & Organization	Mobile No	email
17	AZHARUL ISLAM KHAN	Agricultural Engineer, DAE, Natore	01727650668	azharulfs@gmail.com
18	MD. GAZIUL HAQUE	SCO, District Seed Certification Office, Bogura	01737345898	Gaziul.34.ag@gmail.com
19	DR. ROZINA AFROZ CHHANDA	SSO, PGRC, BARI, Gazipur	01712257955	rafrozbd@yahoo.com
20	ALPINA AKTER	Assistant Manager, Horticulture Development Division, BADC, Dhaka	01793352019	asha.ag.2705@gmail.com
21	MD. TOZAMMEL HAQUE	AEO, DAE, Mohammadpur	01968033077	tozammelhaque1985@gmail.com
22	SANJIDA AKHTER	Deputy Director, Jute Seed Division, BADC, Dhaka	01715202928	sanjidaakhter224@gmail.com
23	ARINDAM BISWAS	Scientific Officer, RARS, BARI, Jamalpur	01795057080	barindam19@yahoo.com
24	POPY RANI ROY	Sample Collection Officer, SCA, Gazipur	01740053231	popyroy31@gmail.com
25	NADIA FARDUSI	Agriculture Extension Officer, Nandail, Mymensingh	01738784421	fardusinadia@gmail.com
26	MD. ZAHIDUL ISLAM ELIYAS	AEO, Birampur, Dinajpur	01719330974	mzieliyasbau90@gmail.com
27	JANNATUL FERDOUS	Scientific Officer, BJRI, Dhaka	01552999149	tanny.jannat92@gmail.com
28	GM BADRUL HASAN	Agriculture Extension Officer, Dumuria, Khulna	01718927523	gmbadrulhasan@gmail.com
29	MD. MAHBUBUR RAHMAN	Scientific Officer, RARS, BARI, Barishal	01676659599	kbdmrkhanagro@gmail.com
30	MST. SHETARA YESMIN	Senior Scientific Officer, BRRI, Gazipur	01725401063	shetara.brri.bd@gmail.com

Annexure –II

List of Resource Speaker

Sl. No.	Name	Designation	Organization	e-mail and mobile No.
1	Dr. Md. Abdul Mueeed	Ex DG	DAE	mueeedbd61@gmgma.com - 01716940311
2	Dr. Muhammad Math hurul Haque	Ex. Director General	NATA	mathhuq@gmail.com 01714688233
3	Dr. Moinus Salam	Consultant	CYMMIT	01855871938
4	Dr. MD. Akhtaruzzaman	Director (Admin)	NATA	01711-884191 akhtar62bd@gmail.com
5	Dr. Abdul Mazed	Deputy director (LR)	DAE	mazed13th.dae@gmail.com 01814849190
6	Dr. Rina Rani Saha	CSO & Head, Agronomy Division	BARI	saharinarani@yahoo.com 01718118906
7	Dr. Samsunaher	CSO, Horticulture Division	BARI	Nahar321@yahoo.com 01674876252
8	Dr. Apurba kanti Chudury	CSO, Seed Technology Division	BARI	Apurba.chowdhury@gmail.com 01819128302
9	Dr. Umme Aminun Naher	PSO, Soil Science Division	BARI	naher39@gmail.com 01712996391
10	Dr. Habib Mohammad Naser	PSO	BARI, Gazipur	nasemh2@yahoo.com 01750446207
11	Dr. Ranjit Sen	SSO, Soil Science Division	BARI	Senranjitbd@yahoo.com 01726261815
12	Dr. Muhammad Arshadul hoque	SSO	BARI	arshadulmpe@gmail.com Mobile: 1712635503
13	Dr. Abdul Matin,	SSO, Farm Mechinary Division	BARI	amatintaj@yahoo.com 01777131518
14	Dr. AkhlasUddin	Deputy Director	NATA	akhlas.uddin@yahoo.com 01716257354
15	Dr. Md. Mayen Uddin	Deputy director	NATA	mayen.dae85@yahoo.com 01711969688
16	MD. Rafiqul Islam,	Deputy Director	NATA	badal.rafiqul@gmail.com 01718-970041
17	Dr. Jamal uddin	Deputy Director	NATA	jamaldae@yahoo.com 01712-272859

Annexure –III

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



Training schedule on Climate Smart Agriculture

10-14 January 2021

10-01-2021

Time	Topics	Method	Speaker
8.30-9.30	Registration		SAAO Lucky
9.00-9.30	Inauguration		DG/Director/Faculties
9.30-10.30	Concepts and Causes of Climate Change and its scientific basis	L & D	Dr. Abdul Muyeed Ex-DG, DAE
10.30-11.30	Climate Change: Global Scenario	L & D	Dr. Abdul Muyeed Ex-DG, DAE
11.30-12:00	Tea break		
12.00-1.00	Impacts of Climate change: Bangladesh Context	L & D	Dr. Habib Mohammad Naser PSO, BARI
1.00-2.00	Lunch Break		
2.00-3.00	Risks and Vulnerabilities to Climate Change and what to do	L & D	Dr. Habib Mohammad Naser PSO, BARI
3.20-4.30	Climate SMART Agriculture: Concepts and Background	L & D	Dr. Md. Mayen Uddin DD, NATA

11-01-2021

Time	Topics	Method	Speaker
9.00-9.15	Recap		CC/ACC
9.15-10.15	Principles of soil health and Challenges of climate change to soils	L & D	Dr. Ranjit Sen, SSO, Soil Science Division, BARI
10.15-11.15	Problem soil Management for Climate Smart Agriculture	L & D	Dr. Ranjit Sen, SSO, Soil Science Division, BARI
11.15-11.45	Tea Break		
11.45-12.45	Fertilizer management Technique for CSA	L & D	Dr. Umme Aminun Naher PSO, Soil Science Division, BRRI
12.45 - 2.15	Lunch Break		
2.15 - 3:15	GHG emission management for CSA	L & D	Dr. Umme Aminun Naher PSO, Soil Science Division, BRRI
3.15-4:15	Diseases Management of crops for Climate change	L & D	Dr. Samsunaher CSO, Horticulture Division, BARI
4:15-5:15	Insects Management of crops for Climate change	L & D	Dr. Abdul Mazed, DD(LR), DAE

12-01-2021

Time	Topics	Method	Speaker
9.00-9.15	Recap		CC/ACC
9.15-10.15	Conservation Agriculture for CSA	L & D	Dr. Rina Rani Saha, Director, BARI
10.15-11.15	Adaptation to drought by crop management for CSA	L & D	Dr. Rina Rani Saha, Director, BARI
11.15-11.45	Tea Break		
11.45-12.45	Adaptation to Salinity by crop management for CSA	L & D	Dr. Apurba kanti Chudury, CSO, Seed Technology Division, BARI
12.45-2.15	Lunch Break		
2.15-3.15	Context of Climate Smart Agriculture practices for adaptation to climate Change under submerged/flooded ecosystem in Bangladesh	L , D & GW	MD. Rafiqul Islam, Deputy Director, NATA

3:15- 4:15	Seedling production techniques of vegetable and spice crops on floating bed under submerged/flooded ecosystem	L , D & GW	MD. Rafiqul Islam, Deputy Director, NATA,Gazipur
4:15-5:15	Rice Production technology under stress condition	L & D	Dr. Mosiur Rahman Professor,BAU, Mymensingh

13-01-2021

Time	Topics	Method	Speaker
9.00-9.15	Recap		CC/ACC
9.15-10.15	Water Saving crop Production Technology for CSA	L & D	Dr. Muhammad Arshadul hoque, SSO, BARI E-mail: arshadulmpe@gmail.com Mobile: 01712635503
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 Machinery Division, BARI
11.15-11.45	Tea break		
11.45-12.45	Weather forecasting for crop production and management	L & D	Dr. Abdul Mazed, DD(LR), DAE
12.45-2.15	Lunch Break		
2.15-3.15	Crop modeling: Principles and Practices	L , D & GW	Dr. Moinus Salam, Consultant, CYMMIT
3.15-4.15	Crop modeling: Application/Evaluation/testing	L , D & GW	Dr. Moinus Salam, Consultant, CYMMIT

14-01-2021

Time	Topics	Method	Speaker
9:00-9:15	Recap		CC/ACC
9:15-10:15	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
10:15-11:15	Do	Do	Do
11:15-11:45	Tea Break		
11:45-12:45	SDG for CSA	L & D	Dr. Jamal uddin Deputy Director, NATA
12:45-2:15	Lunch Break		
2.15-3.15	NIS	L & D	Dr. MD. Akhtaruzzaman Director (Admin), NATA
3.15-4.15	Closing		DG/DIRECTOR

Dr. Md. Mayen Uddin
DD (Food technology) and
Course Co-ordinator
National Agriculture Training Academy
Gazipur

Annexure-IV

Training Course Evaluation by the participants

1. The Topics they liked:

- * Floating agriculture
- * Problem of soil (drought prone, saline prone and flood prone area) 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
- * Concepts and Causes of Climate Change and its scientific basis

2. The Topics need to be added:

- Exposure/field visit on BRRI/ BARI
- Group work with group presentation
- Problem of soil (charland) management for Climate Smart Agriculture
- Lists of flood, submergence, drought, salinity tolerance varieties of different crops from NARS institutes.
- Cropping pattern based on climate change.

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. Some definitions had repeated in several classes
7. 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. Speaker from meteorological department may be invited in this training
2. Uninterrupted internet and electricity supply should be provided
3. Practical class should be more
4. Arrangement of field visit or exposure visit or Tour for recreation
5. Provide more time for discussion and exercise
6. Hard copy of manual of training course
7. Sports facilities should be available
8. Library facilities should be available
9. May add the reward for post evaluation

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. Abdul Muyeed Ex-DG, DAE	Concepts and Causes of Climate Change and its scientific basis	Knowledge Over subject	5.8	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	Concepts and Causes of Climate Change and its scientific basis	Knowledge Over subject	5.8	Excellent
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Habib Mohammad Naser PSO, BARI	Impacts of Climate change: Bangladesh Context	Knowledge Over subject	5.6	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	Risks and Vulnerabilities to Climate Change and	Knowledge Over subject	5.3	Good
		Ability to present ideas		

Speaker name and address	Subject	Criteria	Obtained grade (Average)	Comments
	what to do	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 Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	5	Good
Dr. Ranjit Sen, SSO, Soil Science Division, BARI	Principles of soil health and Challenges of climate change to soils	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	4.8	
Do	Problem soil Management for Climate Smart Agriculture	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	5.2	Good
Dr. Umme Aminun Naher PSO, Soil Science Division	Fertilizer management Technique for CSA	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	5.2	Excellent
Do	GHG emission management for CSA	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class	5.3	Good

Speaker name and address	Subject	Criteria	Obtained grade (Average)	Comments
		Time management		
Dr. Samsunaher CSO, Horticulture Division, BARI	Diseases Management of crops for Climate change	Knowledge Over subject	5.4	Excellent
		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	Insects Management of crops for Climate change	Knowledge Over subject	4.6	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Rina Rani Saha CSO & Head, Agronomy Division,BARI	Conservation Agriculture for CSA	Knowledge Over subject	5.0	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	Adaptation to drought by crop management for CSA	Knowledge Over subject	5.0	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. Apurba kanti Chudury, CSO, Seed Technology Division, BARI	Adaptation to Salinity by crop management for CSA	Knowledge Over subject	5.0	Good
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
MD. Rafiqul Islam, Deputy Director, NATA,Gazipur	Context of Climate Smart Agriculture practices for adaptation to climate Change under submerged/flooded ecosystem in Bangladesh Seedling production techniques of vegetable and spice crops on floating bed	Knowledge Over subject	5.0	Good
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		

Speaker name and address	Subject	Criteria	Obtained grade (Average)	Comments
	under submerged/flooded ecosystem			
Do	Seedling production techniques of vegetable and spice crops on floating bed under submerged/flooded ecosystem	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	5.0	Good
Dr. Mosiur Rahman Professor,BAU, Mymensingh	Rice Production technology under stress condition	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	5.6	Excellent
Dr. Muhammad Arshadul Haque SSO, BARI	Water Saving crop Production Technology for CSA ecosystem	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	5.6	Excellent
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 Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	5.2	Good
Dr. Abdul Mazed, DAE	Weather forecasting for crop production and management	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class Time management	4.4	
Dr. Moin us Salam International Consultant, CIMMYT	Crop modeling: Principles and Practices	Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A	5.5	Excellent

Speaker name and address	Subject	Criteria	Obtained grade (Average)	Comments
		Control over class		
		Time management		
Do	Crop modeling: Application/Evaluation/ testing	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		
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	5.4	Excellent
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. Akhlas Uddin, DD, NATA	SDG for CSA	Knowledge Over subject	4.8	
		Ability to present ideas clearly/relevantly		
		Ability to make the class/session participatory		
		Ability to Handle Q/A		
		Control over class		
		Time management		
Dr. MD. Akhtaruzzaman Director (Admin), NATA	NIS	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		

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

Climate Smart Agriculture

Sl. No	Name & Designation	Posting	Pre-evaluation	Post-evaluation
1	MD. EKTARUL ISLAM	AEO, Kamalnagar, Lakshmipur	14	34
2	MD. NUR ALOM	AEO, Chilmari, Kurigram	23	43
3	DR. MD. A. MAJID	SSO, BIRTAN, Sirajganj	25	43
4	MOHAMMAD MATIAR RAHMAN	ADD (Horticulture), DAE, Kishoreganj	19	28
5	MOHAMMAD KHAYER UDDIN MOLLAH	DD, DAE, Rajshahi Region, Rajshahi	7	28
6	RAFIQUL ISLAM	Agriculture Extension Officer, Dharmapasha, Sunamganj	13	42
7	MD. HABIBUL AHSAN	Assistant Engineer, BMDA, Dhamourhat Zone, Naogaon	0	16
8	MD. MOSTAFIZUR RAHMAN	Assistant Engineer, BMDA, Gomostapur Zone, Chapainawabgonj	7	40
9	MOHAMMED MOTIUR RAHMAN	Assistant Engineer, BMDA, Niamatpur Zone, Naogaon	3	38
10	DR. MD. ASHRAFUL ALAM	Scientific Officer, BWMRI, Dinajpur	16	43
11	MD. ARIFUL ISLAM	Scientific Officer, ORC, BARI, Gazipur	13	45
12	MD. MAMUNUR RASHID	AEO, Bhangura, Pabna		44
13	MD. NURISLAM	SO, Soil Resource Development Institute, Dinajpur	20	31
14	SANJIT MANDAL	, Scientific Officer, BSRI, Ishurdi, Pabna	2	32
15	AYESHA AKTER	Instructor, ATI, Shimultoli, Gazipur	2	43
16	MD. IBRAHIM ALI	Scientific Officer, Mymensingh	19	45
17	AZHARUL ISLAM KHAN	Agricultural Engineer, DAE, Natore	12	38

Sl. No	Name & Designation	Posting	Pre-evaluation	Post-evaluation
18	MD. GAZIUL HAQUE	SCO, District Seed Certification Office, Bogura	4	19
19	DR. ROZINA AFROZ CHHANDA	SSO, PGRC, BARI, Gazipur	20	42
20	ALPINA AKTER	Assistant Manager, Horticulture Development Division, BADC, Dhaka	8	38
21	MD. TOZAMMEL HAQUE	AEO, DAE, Mohammadpur	17	48
22	SANJIDA AKHTER	, Deputy Director, Jute Seed Division, BADC, Dhaka	9	37
23	ARINDAM BISWAS	Scientific Officer, RARS, BARI, Jamalpur	21	48
24	POPY RANI ROY	Sample Collection Officer, SCA, Gazipur	24	47
25	NADIA FARDUSI	Agriculture Extension Officer, Nandail, Mymensingh	2	46
26	MD. ZAHIDUL ISLAM ELIYAS	AEO, Birampur, Dinajpur	23	47
27	JANNATUL FERDOUS	Scientific Officer, BJRI, Dhaka	38	48
28	GM BADRUL HASAN	Agriculture Extension Officer, Dumuria, Khulna	22	38
29	MD. MAHBUBUR RAHMAN	Scientific Officer, RARS, BARI, Barishal	9	45
30	MST. SHETARA YESMIN	Senior Scientific Officer, BRRI, Gazipur	15	45

Annexure-VII
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 are El 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. Write down the Principles of Conservation Agriculture.
6. Write down the advantages of CSA based resource conserving technologies.
7. Write down the Soil and water conservation method.
8. What is risk management? Write down the Risk Management Element.
9. Mention the soil salinity management technology.
10. What are the Major causes of flood? Write down the five technologies for mitigation and adaption to flood and flash flood.

