Training Course on Climate Smart Agriculture

23-27 September 2018

Course Completion Report



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

Training Course on Climate Smart Agriculture

23-27 September 2018

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:

Nilufa Akter

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 studyBriefing, 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

| Sl. | Name | Designation & Posting | Mobile No | email |
|----------|---------------------------|---|-------------|-------------------------------|
| No | | | | |
| 1 | RUHUL AMIN | Instructor, Agriculture Training | 01728297972 | ruhulaminassci@gm |
| | | Institute, Rahmatpur, Barisal | | ail.com |
| 2 | RIPON PROSAD SAHA | Agriculture Extension Officer, | 01717573026 | riponsaha217@yaho |
| | | Saltha, Faridpur | 045505000 | o.com |
| 3 | MD. AKTER FARUK | Agriculture Extension Officer, | 01755076290 | fuad.ag2306@gmai |
| | FUAD | Debiganj, Panchagarh | 01722600311 | 1.com |
| 4 | MAHBUBA JAMIL | Agriculture Extension Officer, | 01/22000311 | tithi0412@gmail.co |
| 5 | MAIN UDDIN AHMED | Saturia, Manikganj Agriculture Extension Officer, | 01714435804 | m masin shahaa@ama |
| 3 | MAIN ODDIN ARMED | Laksam, Cumilla | 01714433004 | maain.shohag@gma il.com |
| 6 | MD. SAZZADUR | Agriculture Extension Officer, | 01816538608 | sazzad3504@gmail. |
| 0 | RAHMAN | Sakhipur, Tangail | 0101000000 | com |
| 7 | MURSALEEN ZEBIN | Scientific Officer, BIRTAN | 01713672192 | turinbsmrau@gmail. |
| ' | TURIN | Regional Center, Sirajganj | | com |
| 8 | SYFUL ISLAM | Scientific Officer, BINA, | 01725371752 | bausyful07@gmail. |
| | | Mymensingh | | com |
| 9 | MD. JAHANGIR ALAM | Scientific Officer, Soil Science | 01770584044 | jahangirhstu97@gm |
| | | Division, BARI, Gazipur | | ail.com |
| 10 | SHAMIMA AKTHER | Scientific Officer, BARI, Gazipur | 01911570864 | likhibari79@gmail.c |
| | | , , , , | | om |
| 11 | ASGAR AHMED | Scientific Officer, WRC, | 01744838991 | asgar.gene@gmail.c |
| | | Nashipur, Dinajpur | | om |
| 12 | MUHAMMAD TANVIR | Scientific Officer, Jute Seed | 01688557519 | tanvir2511@gmail.c |
| | RAHMAN | Production and Research Center, | | om |
| | | Nashipur, Dinajpur | 04544000540 | |
| 13 | MD. TANVIR HOSSAIN | Scientific Officer, Soil Resource | 01714988748 | mtanvirag@gmail. |
| | | Development Institute, District | | com |
| 1.4 | MOHAMMAD JUNED | Office, Kushtia | 01871032809 | idandi@amail.aa |
| 14 | MIAH | Scientific Officer, Soil Resource Development Institute, Cumilla | 010/1032009 | junedsrdi@gmail.co m |
| 15 | A. K. M. OBAIDULLAH | Assistant Engineer, Gobindagonj | 01712255534 | ae_gobindagonj_gai |
| 13 | 71. II. WI. OBTID CEETIII | Zone, BMDA, Rajshahi | 01/1220001 | @bmda.gov.bd |
| 16 | MD. MOFAZZAL | Assistant Engineer, Badargonj | 01718041773 | ae.badorgonj@gmai |
| | HOSSAIN | Zone, BMDA, Rajshahi | | l.com |
| 17 | S.M. MIZANUR RAHMAN | Assistant Engineer, Gaibandha | 01710517119 | ae_gaibandha_gaiban |
| | | Zone, BMDA, Rajshahi | | dha@bmda.gov.bd |
| 18 | MD. NURUL AMIN | Deputy Director (Field | 01717246948 | ddfild@sca.gov.bd |
| | PATWARY | Administration), SCA, Gazipur | | |
| 19 | DR. MD. ABU TAHER | Senior Scientific Officer, BSRI, | 01711070740 | |
| | SOHEL | Ishurdi, Pabna | 04740400046 | |
| 20 | DR. MD. MOZAMMEL | Senior Scientific Officer, BRRI, | 01718133016 | mhaquesoil@yahoo. |
| 21 | HAQUE NIAZMO FABILAT | Gazipur | 01912700606 | com |
| 21 | NIAZ MD. FARHAT RAHMAN | Senior Scientific Officer, Agricultural Statistics Division, | 01314/00000 | niaz.sust@gmail.co |
| | KAHMAN | BRRI, Gazipur | | m |
| 22 | MD. NOORNABI DEWAN | Instructor, Agriculture Training | 01767555621 | nabinayan1948@ya |
| | IIID. HOOKIADI DEWAN | Institute, Araihazar | 12.0.000021 | hoo.com |
| 23 | SHAMIM REZA | Assistant Director (Farm), | 01727575776 | shamim_1587@yaho |
| 23 | SHAWIIWI KEZA | BADC, Tangail | 01/2/3/3//0 | |
| 24 | KAZI FAROOK HOSSAIN | Executive Engineer, BADC, | 01819436278 | o.com badcirrigationgazipu |
| | IZZI I MOOK HOSSAIN | Gazipur Region, Gazipur | | r@gmail.com |
| | I | Gazipai Region, Gazipai | <u>1</u> | 1 @ Sman.com |

Annexure –II

List of Resource Speaker

| SL. No | Name | Designation | Organization | e-mail and mobile No. |
|-----------|----------------------------------|---|--|---|
| 1 | Dr. Md. Abdul Muyeed | Director | Field Service Wing DAE, Dhaka | muyeedbd61@gmgma .com 01716940311 |
| 2 | Munshi Mohammad Hedayet Ullah | Ex. Director General | NATA | |
| 3 | Dr. Moin us Salam | Senior Consultant | CIMMYT | moinsalam1@gmail. com |
| 4 | Dr. Habib Mohammad Naser | PSO | Soil Science Division, BARI,Gazipur | Nasemh2@yahoo.com 01750446207 |
| 5 | Dr. Jatish C. Biswas | Ex. CSO & Head | Soil Science Division, BRRI, Gazipur | Head.soil@brri.gov.bd 0171533857 |
| 6 | Dr. Umme Aminun Naher | PSO | Soil Science Division, BRRI,Gazipur | Naher39@gmail.com 01913151914 |
| 7 | Dr. Md. Moshiur Rahman | Professor | Bangladesh Agricultural University,Mymensingh | Rahmanag63@yahoo. com 01711072561 |
| 8 | Dr. Md. Sayedur Rahman | Deputy Director (Admin & Support Service) | NATA, Gazipur | sayedur.63@gmail.com 01552495564 |
| 9 | Dr. Md. Mayen Uddin | Deputy Director (Food Technology) | NATA, Gazipur | Mayen.dae85@yahoo. <u>com</u> 01711969688 |
| 10 | Md. Zakir Hossain | Deputy Director | NATA, Gazipur | Hzakir104@gmail.com 01715797920 |
| 11 | Dr. Delowar Hossain Mozumder | Deputy Director | NATA, Gazipur | |
| 12 | Dr. Md. Shariful Islam | Deputy Director | NATA, Gazipur | Mshariful60@yahoo.co <u>m</u> 01743051115 |
| 13 | Dr. Md. Golam Mostofa | Sr. Assist. Director | NATA | |
| 14 | Dr. Alimur Rahman | SSO | RARS, BARI, Barishal | |
| 15 | Mr. Ilias Hossain | PSO | BARI | |
| 16 | Nirmal Chandra Shil | PSO | Soil Science Division, BARI,Gazipur | |

Annexure –III

Training scheduleDuration: 23 -27 September 2018

Day -1 Date: 23/09/2018

| Time | Topics | Methods | Speaker |
|--------------|--------------------------------------|---------|---------------------------|
| 08:30-09.00 | Registration | - | Lucky |
| 09.00-09.30 | Pre evaluation | | CC/ ACC |
| 09:30-10:30 | Inaugural session | - | DG/Directors/Faculties |
| 10.30-11.30 | Concepts and Causes of Climate | L & D | Dr.Abdul Muyeed |
| | Change: Scientific basis. | | Director Field Service |
| | | | DAE, Khamarbari, Dhaka |
| 11:30- 12.00 | Tea Break | | |
| 12:00-01:00 | Climate change: Global Scenario | L & D | Dr.Abdul Muyeed |
| | | | Director Field Service |
| | | | DAE, Khamarbari, Dhaka |
| 01.00-02.00 | Lunch and prayer | | |
| 02:00-03:00 | Impacts of Climate change: | L & D | Dr. Habib Mohammad Naser, |
| | Bangladesh Context | | PSO (Soil Science) |
| | 8 | | BARI, Gazipur |
| 03:00-04:00 | Risks and Vulnerabilities to Climate | L & D | Dr. Habib Mohammad Naser, |
| | Change | | PSO (Soil Science) |
| | <u> </u> | | BARI, Gazipur |
| 04:00-05:00 | Climate Smart Agriculture: | L & D | Dr. Md. Mayen Uddin |
| | Concepts Evolution and | | DD (Food Technology) |
| | Significance | | NATA, Gazipur |

| | Day -2 | Date: 24/09 | /2018 |
|-------------|--|-------------|--|
| Time | Topics | Methods | Speaker |
| 09.00-09.15 | Recap | - | CC/Participants |
| 09.15-10.15 | Challenges of Soil health management | L & D | Dr. Jatish C. Biswas |
| | under changing climate | | Ex.CSO and Head Soil Science Division, BRRI, Gazipur. |
| 10.15-11.15 | Soil and fertilizer management option for mitigation of GHG Emission | | Do |
| 11.15-11.45 | Tea Break | - | |
| 11.45-12.45 | Introduction to Agriculture Machinery for Conservation Agriculture | L & D | Ashok Kumar Biswas Monitoring & Evaluation Officer , Enhancement of Crop Production through Farm Mechanization Project - 2 nd phase Khamarbari, Dhaka |
| 12.45-02.00 | Lunch and prayer | | |
| 02:00-03:00 | Introduction to Agriculture Machinery for Conservation Agriculture | L&D | Do |
| 03:00-04:00 | Population, Environment and Development | L&D | Md. Zakir Hossain DD (Genetics & Plant Breeding), |

| | | | NATA |
|-------------|-----------------------------------|-------|----------------------------------|
| 04:00-05:00 | National integrity strategy (NIS) | L & D | Dr. Md. Delowar Hossain Mozumder |
| | 8 3 63 4 | | DD,NATA |

Day - 3 Date: 25/09/2018

| Time | Topics | Methods | Speaker |
|-------------|---|---------|--------------------------|
| 09:00-09.15 | Recap | - | CC/Participants |
| 09.15-10.15 | Introduction to Stress Tolerant Crop | L& D | Dr Nirmal Chandra Shil |
| | Varieties Congenial for Climate Smart | | PSO, BARI, Gazipur |
| | Agriculture | | |
| 10.15-11.15 | Effect of climate change on Biodiversity | L & D | Dr. Tariqul Islam |
| | | | CSO, Plant Breeding Div. |
| | | | BARI, Gazipur |
| 11.15-11.45 | Tea break | - | CC/ACC |
| 11.45-12.45 | Context of Climate Smart Agriculture | L & D | Dr. Md. Golam Mostofa |
| | practices for adaptation to climate | | Sr. Assist. Director |
| | Change under submerged/flooded | | NATA |
| | ecosystem in Bangladesh | | |
| 12.45-02.00 | Lunch | - | - |
| 02.00-03.00 | Seedling production techniques of | L & D | Do |
| | vegetable and spice crops on floating bed | | |
| | under submerged/flooded ecosystem | | |
| 03.00-04.00 | Production techniques of vegetable and | L & D | Do |
| | spice crops on floating bed under | | |
| | submerged/ flooded ecosystem | | |

Day – 4, Date: 26/09/2018

| Time | Topic | Methods | Resource |
|-------------|---|---------|-------------------------------|
| 09.00-09.15 | Recap | - | CC/Participants |
| 09.15-11.15 | Sustainable Development Goal | L & D | Munshi Mohammad Hedayet Ullah |
| | (Special emphasis on climate change) | | Ex. DG, NATA |
| 11.15-11.45 | Tea break | - | CC/ACC |
| 11.45-12.45 | Conservation Agriculture | L&D | Dr. Md. Moshiur Rahman, |
| | | | Professor, BAU |
| 12.45-02.00 | Lunch and prayer | | |
| 02.00-03.00 | Mitigation and adaptation to drought by | L&D | Dr. Md. Moshiur Rahman, |
| | crop management for CSA | | Professor, BAU |
| 03.00-05.00 | Water Saving Rice Production | L&D | Dr. Md. Moshiur Rahman, |
| | Technology for CSA | | Professor, BAU |
| 05.00-06.00 | Group work and presentation | Group | Dr. Md. Golam Mostofa |
| | | work | Sr. Assist. Director |
| | | | NATA |

Day -5 Date: 27/09/2018

| Time | Topics | Methods | Speaker |
|-------------|---|---------|-------------------------------------|
| 09.00-09.15 | Recap | - | CC/Participants |
| 09.15-10.15 | Mitigation & Adaptation to salinity by | | Dr. Moin us Salam |
| | crop management technologies for CSA | | International Consultant, |
| | | | CIMMYT |
| 10.15-11.15 | Crop Modeling | L&D | Dr. Moin us Salam |
| | | | International Consultant, |
| | | | CIMMYT |
| 11.15-11.30 | Tea Break | | |
| 11.30-12.30 | Problem soil (drought prone, hill, haor | L&D | Dr. UA Naher |
| | and charland) management for Climate | | PSO, Soil Science Division, |
| | Smart Agriculture | | BRRI, Gazipur. |
| 12.30-01.30 | Stress Resistant/Tolerant Rice Crop | L&D | Dr. Md. Shariful Islam |
| | Varieties to Different Stress Condition | | DD (Agronomy), NATA |
| 01:30-02:30 | Lunch and prayer | | |
| 02:30-03:30 | Innovation in Public Service Delivery | L&D | Dr. Md. Sayedur Rahman |
| | | | DD (Admin.), NATA |
| 03:30-4:30 | Awarding & Closing Ceremony | _ | DG/Directors/Faculties/Participants |

Training Course Evaluation by the participants

1. The Topics they liked:

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

Insect and pest management under changing climate

Group work with group presentation

3. Best Training Methods choose by the participants

Discussion and group exercise

Practicing

4. The issues that are disliked by the participants

Internet problem

Shortage of sport materials and recreation facilities

Minimum budget

Very tight schedule

Less Class practices

Five class is conducted by single speaker

Residential facilities

5. The others associated issues they liked

Topic wise expert resource persons were selected very prudently.

Expert resource persons

6. Recommendations for the improvement of the course

Uninterrupted internet and electricity supply should be provided

Practical class should be more

Arrangement of Tour or recreation

Provide more time for discussion and exercise

Hard copy of manual of training course

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.Abdul Muyeed Director, Field Service Wing | Concepts and Causes of Climate Change: Scientific basis | Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the | 4.9 | |
| DAE, Khamarbari, Dhaka | | class/session participatory Ability to Handle Q/A Control over class | | |
| Do | Climate change: Global Scenario | Time 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 | 4.9 | |
| Dr. Habib Mohammad Naser, PSO (Soil Science) BARI, Gazipur | Impacts of Climate change: Bangladesh Context | 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 | 4.9 | |
| Do | Risks and Vulnerabilities to Climate Change | 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 | 4.9 | |
| Dr. Md. Mayen Uddin DD (Food Technology) NATA, Gazipur | Climate Smart Agriculture: Concepts Evolution and Significance | 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 | 4.6 | |
| Dr. Jatish C. Biswas Ex.CSO and Head Soil Science Division, BRRI, Gazipur. | Soil and fertilizer management option for mitigation of 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 | 4.7 | |

| Speaker name and address | Subject | Criteria | Obtained grade (Average) | Comments |
|--|--|---|-----------------------------|----------|
| Do | Soil and fertilizer management option for mitigation of 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 | 4.7 | |
| Ashok Kumar Biswas Monitoring & Evaluation Officer , Enhancement of Crop Production through Farm Mechanization Project - 2 nd phase | Introduction to Agriculture Machinery for Conservation 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 | 4.9 | |
| Khamarbari, Dhaka | Introduction to Agriculture Machinery for Conservation 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 | 4.9 | |
| Md. Zakir Hossain DD (Genetics & Plant Breeding), NATA | Population, Environment and Development | 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 | 5.4 | |
| Dr. Md. Delowar Hossain Mozumder DD, NATA | National integrity strategy (NIS) | 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 | |
| Dr. Nirmal Chandra Shil PSO, BARI, Gazipur | Introduction to Stress Tolerant Crop Varieties Congenial 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 | 4.3 | |
| Dr. Tariqul Islam CSO, Plant Breeding Div. BARI, Gazipur | Effect of climate change on Biodiversity | Knowledge Over subject Ability to present ideas clearly/relevantly Ability to make the class/session participatory Ability to Handle Q/A Control over class | 3.5 | |

| Speaker name and address | Subject | Criteria | Obtained grade (Average) | Comments |
|-------------------------------|--------------------------|---|-----------------------------|----------|
| | | Time management | | |
| Dr. Md. Golam | Context of Climate | Knowledge Over subject | 4.9 | |
| Mostofa | Smart Agriculture | Ability to present ideas | | |
| Sr. Assist. Director, | practices for adaptation | clearly/relevantly | | |
| NATA | to climate | Ability to make the | | |
| 1,1111 | Change under | class/session participatory | | |
| | submerged/flooded | Ability to Handle Q/A | | |
| | ecosystem in | Control over class | | |
| | Bangladesh | Time management | | |
| Do | Seedling production | Knowledge Over subject | 4.9 | |
| _ , | techniques of vegetable | Ability to present ideas | | |
| | and spice crops on | clearly/relevantly | | |
| | floating bed under | Ability to make the | - | |
| | _ | class/session participatory | | |
| | submerged/flooded | Ability to Handle Q/A | - | |
| | ecosystem | Control over class | - | |
| | | Time management | - | |
| Do | Production techniques | Knowledge Over subject | 4.9 | |
| D 0 | of vegetable and spice | Ability to present ideas | 4.7 | |
| | | clearly/relevantly | | |
| | crops on floating bed | Ability to make the | - | |
| | under | class/session participatory | | |
| | submerged/ flooded | Ability to Handle Q/A | - | |
| | ecosystem | Control over class | - | |
| | | Time management | - | |
| Munshi Mohammad | Sustainable | | 5.0 | |
| | | Knowledge Over subject | 5.0 | |
| Hedayet Ullah Ex. DG, NATA | Development Goal | Ability to present ideas | | |
| Ex. DO, NATA | (Special emphasis on | clearly/relevantly | - | |
| | climate change) | Ability to make the | | |
| | | class/session participatory Ability to Handle Q/A | - | |
| | | Control over class | - | |
| | | | - | |
| Da Md Mashina | Canadania i | Time management | F 1 | |
| Dr. Md. Moshiur | Conservation | Knowledge Over subject | 5.4 | |
| Rahman, Professor, BAU | Agriculture | Ability to present ideas | | |
| Fiolessol, BAU | | clearly/relevantly | - | |
| | | Ability to make the | | |
| | | class/session participatory | - | |
| | | Ability to Handle Q/A | - | |
| | | Control over class | - | |
| D _o | Mitigation and | Time management | 5.4 | |
| Do | Mitigation and | Knowledge Over subject | 3.4 | |
| | adaptation to drought | Ability to present ideas | | |
| | by crop management | clearly/relevantly | - | |
| | for CSA | Ability to make the | | |
| | | class/session participatory | - | |
| | | Ability to Handle Q/A | - | |
| | | Control over class | - | |
| D | W . C . D. | Time management | 7 4 | |
| Do | Water Saving Rice | Knowledge Over subject | 5.4 | |
| | Production Technology | Ability to present ideas | | |
| | for CSA | 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 | <u>-</u> | |
| | | Time management | - | |
| Dr. Moin us Salam | Mitigation & | Knowledge Over subject | 5.1 | |
| International | Adaptation to salinity | Ability to present ideas | = | |
| Consultant, | by crop management | clearly/relevantly | | |
| CIMMYT | technologies for CSA | Ability to make the | 1 | |
| CHVHVI I I | technologies for CSA | class/session participatory | | |
| | | Ability to Handle Q/A | - | |
| | | Control over class | - | |
| | | Time management | - | |
| Do | Crop Modeling | 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. UA Naher | Problem soil (drought | Knowledge Over subject | 4.9 | |
| PSO, Soil Science | prone, hill, haor and | Ability to present ideas | | |
| Division, | charland) management | clearly/relevantly | | |
| BRRI, Gazipur. | for Climate Smart | Ability to make the | | |
| | Agriculture | class/session participatory | | |
| | rigiteditale | Ability to Handle Q/A | | |
| | | Control over class | | |
| | | Time management | | |
| Dr. Md. Shariful | Stress | Knowledge Over subject | 5.5 | |
| Islam | Resistant/Tolerant Rice | Ability to present ideas | | |
| DD (Agronomy), | Crop Varieties to | clearly/relevantly | | |
| NATA | Different Stress | Ability to make the | | |
| | Condition | class/session participatory | _ | |
| | | Ability to Handle Q/A | _ | |
| | | Control over class | _ | |
| | | Time management | | |
| Dr. Md. Sayedur | Innovation in Public | Knowledge Over subject | 4.3 | |
| Rahman | Service Delivery | Ability to present ideas | | |
| DD (Admin.), NATA | | clearly/relevantly | | |
| | | Ability to make the | | |
| | | class/session participatory | | |
| | | Ability to Handle Q/A | | |
| | | Control over class | _ | |
| | | Time management | | |