

Training Course
on
INTEGRATED WATER RESOURCE MANAGEMENT IN
AGRICULTURE

12 -16 SEPTEMBER, 2021

Course Completion Report



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

Training Course
on
INTEGRATED WATER RESOURCE MANAGEMENT IN
AGRICULTURE

12 -16 SEPTEMBER, 2021

Course Management

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- Assistant Course Coordinator** : **Banani Karmaker**
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- Assistant Course Coordinator** : **Mousumi Paul**
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Introduction:

Integrated water resources management in Agriculture is a logical and intuitively appealing concept. High irrigation demands and polluted drainage flows from agriculture less freshwater for drinking or industrial use; contaminated municipal and industrial wastewater pollutes rivers and threatens ecosystems. Integrated management means that all the different uses of water resources are considered together. They are able to take account of overall social and economic goals, including the achievement of sustainable development. Different user groups (farmers, communities, environmentalists) can influence strategies for water resource development and management. It emphasizes that we must not only focus on development of water resources but that we must consciously manage water development in a way that ensures long term sustainable use for future generation.

Course objectives:

1. To enhance your ability to undertake IWRM with special reference to catchment (watershed, river basin) management and ecosystems.
2. To take account of overall social and economic goals, including the achievement of sustainable development.
3. To manage water development in a way that ensures long term sustainable use for future generation.

Duration of the Course: 5 days on training course started from 12 -16 SEPTEMBER 2021.

Course Content: Planned sessions and Topics

Module 1: Concept of Integrated Water resource Management

Contents/Topics	Methods
Hydrology and Integrated Water Resources Management (IWRM) concept with water consumption	L and D
Irrigation principles and practices	L and D
Importance of IWRM in Bangladesh	L and D
Examples of IWRM projects in Bangladesh and Their Impacts on Agriculture	L and D
Global status of IWRM and prospect in Bangladesh	L and D
Application and Benefits of IWRM in Agriculture	L and D

Module 2: Water and irrigation management

Contents/Topics	Methods
Irrigation and water management aspects in Water Policy of Bangladesh	L and D
Irrigation and water management for rice cultivation	L and D
Management of different irrigation channels for improving irrigation system in agriculture	L and D
Improved irrigation and water management for major field crops	L and D
Irrigation management for major vegetables and fruits	L and D
Different methods and techniques of irrigation for crop cultivation	L and D
Integrated Water Resources Management (IWRM) challenges in Bangladesh	L and D

Module 3: IWRM and Social inclusion

Contents/Topics	Methods
Basic of irrigation and water management and crop water productivity	L and D
Irrigation Water requirement for important crops in Bangladesh	L and D
Status of Surface and groundwater irrigation systems in Bangladesh	L and D
Irrigation water quality and water pollution management	L and D
Irrigation water loss assessment and its control for sustainable agriculture	L and D
Wastewater Management: concepts and technological aspects	L and D

Module 4: Sustainable Water use

Contents/Topics	Methods
Techniques of irrigation water saving through improved cropping patterns	L and D
Multiple use of water resources (reuse of water resources)	L and D
Water Security and safety	L and D
IWRM: Disaster Risk reduction and resilience program under SDG and Polder Management for Irrigation in Bangladesh	L and D

Module 5: Field visit

Rivers, canals & basins management for surface irrigation in Bangladesh, prospect and problem
Multiple use of water resources other than irrigation (use & re-use of water resources)
IWRM: Disaster Risk reduction and resilience program under SDG

**** L – Lecture, D – Discussion**

Training Methods & Materials:

Lecture, Discussion, Practical work

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 need based. It will definitely help them to achieve Integrated Water Resource Management in Agriculture. The topics were very latest. The resource persons were topic relevant experts, and familiar. So, resource speaker selection was definitely accurate to cope up with the time demand topics. There was a plenty 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. Members of the 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 not interrupted. In fact, the cooperation of Course Coordinator, Assistant Course Coordinator and the NATA authority was marvelous. In a nutshell, the training was really fruitful for them.

Speech by the Course Coordinator

The training on integrated water resource Management in Agriculture was selected on the basis of training need assessment from the officers of the different organizations under the Ministry of Agriculture. We tried our level best to make the training program successful. For that, we had selected the present time required course content by the validation workshop and expert speakers. Moreover, we also looked upon the different discipline related issues for smooth running of that training program.

Distribution of Certificate

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

Annexure- I
“Integrated Water Resource Management in Agriculture” শীর্ষক প্রশিক্ষণের
প্রশিক্ষার্থীগণের নামের তালিকা
 সময়কাল: ১২ সেপ্টেম্বর-১৬ সেপ্টেম্বর ২০২১ খ্রিঃ

ক্র. নং	নাম ওপদবী	কর্মস্থল	মোবাইল নম্বর	ই-মেইল
১.	মোঃ মাহফুজুর রহমান সহকারী প্রকৌশলী	বিএমডিএ, তানোর জোন, রাজশাহী	০১৭১৬২১৮৬৯৪	mmun1978@gmail.com
২.	মোঃ মোস্তাফিজুর রহমান সহকারী প্রকৌশলী	বিএমডিএ, গোমস্তাপুর জোন, চাঁপাইনবাবগঞ্জ	০১৭৫৯৬৯৯৯০৬	ae_gomastapur_nawab@bmda.gov.bd
৩.	মোঃ ইন্তেখাফ আলম সহকারী প্রকৌশলী	বিএমডিএ, পত্নীতলা জোন, নওগাঁ ১	০১৭১৬৫৬০৫৮৯	Intekhaf.bd@gmail.com
৪.	মোঃ তানভীন আবিব বৈজ্ঞানিক কর্মকর্তা	বিনা উপকেন্দ্র, মাগুরা	০১৫২১৪৪৫৮৪২	tanvinbabir41@gmail.com
৫.	ড. মোঃ মোস্তফা খান উর্দ্ধতন বৈজ্ঞানিক কর্মকর্তা	আঞ্চলিক কেন্দ্র, বাংলাদেশ গম ও ভূট্টা গবেষণা ইনস্টিটিউট	০১৭১২০৪৩৬৮৪	mmkhanwrc@yahoo.com
৬.	মোঃ আব্দুশ শাকুর সাদী কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, মোহনগঞ্জ, নেত্রকোনা	০১৭১৯৯৮৪৫৬৪	sakursaadi.bau@gmail.com
৭.	নাদিয়া আক্তার কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, ঝিনাইগাতী, শেরপুর	০১৭২৩১২০৪৫৩	nadiabadhon5@gmail.com
৮.	মোঃ ইসমাইল হোসেন, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, কচুয়া, বাগেরহাট	০১৭১৯৮৫৭৯৭০	ismal.bau20@gmail.com
৯.	এস এম ফেরদৌস, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, রূপসা, খুলনা	০১৬২২২১৩৯৮৬	ferdausbau511@gmail.com
১০.	মোঃ মাহফুজুর রহমান, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, বরিশাল সদর, বরিশাল	০১৭২৬৪৫৫৬০১	mahfujrahman5@gmail.com
১১.	আয়েশা আক্তার, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, নাজিরপুর, পিরোজপুর	০১৯৪৫৯৮৮৪২২	ayshaaktar62@gmail.com
১২.	মোস্তাফিজুর রহমান, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, রাজাপুর, ঝালকাঠি	০১৮৩৪৫৫৮১১৭	nayanmostafiz1994@gmail.com
১৩.	মনোরঞ্জন অধিকারী, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, বীরগঞ্জ, দিনাজপুর	০১৭৩৭৯৯৯৫২২	manoranjansau@gmail.com
১৪.	মোঃ নাজমুল হাসান, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, রানীশংকৈল, ঠাকুরগাঁও	০১৭২৫২৩৪২৭০	najmulbau148@gmail.com
১৫.	মোঃ ফরহাদ হোসেন, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, আটোয়ারী, পঞ্চগড়	০১৭২৩৪৩৭৪৫৪	badhon.sau13@gmail.com
১৬.	মোঃ শরীফুল ইসলাম, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, বদরগঞ্জ, রংপুর	০১৭২২৬৪৭৯৬০	sharif15ssbau@gmail.com
১৭.	মোঃ মেহেদী হাসান, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, গোবিন্দগঞ্জ, গাইবান্ধা	০১৭৪৫৩৬৩৩৭৩	bau_mehedi@gmail.com
১৮.	মোঃ নূর আলম, কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, চিলমারী, কুড়িগ্রাম	০১৭৪৪৩১৫৮২০	nuralom8403@gmail.com
১৯.	মোছাঃ নাদিরা সুলতানা, বীজ প্রত্যয়ন অফিসার	জেলা বীজ প্রত্যয়ন অফিস, গাইবান্ধা	০১৭৭৪৫৮৯৭৫৯	nahida.moni@gmail.com
২০.	উত্তম কুমার রায়, কৃষি প্রকৌশলী	ডিএই, ঢাকা অঞ্চল	০১৭১০০৭৭৭৫২	uttamkumar_roy@yahoo.com
২১.	মোঃ রবিউল আউয়াল, কৃষি প্রকৌশলী	ডিএই, ঢাকা অঞ্চল	০১৭১৪১৬৯১৪৯	rabiul.awal149@gmail.com
২২.	কাজী ফারুক হোসেন, নির্বাহী প্রকৌশলী (ক্ষুদ্র সেচ)	গাজীপুর রিজিয়ন, বিএডিসি, গাজীপুর	০১৭৭৫৯৮৮২৭৪	badcirrigationgazipur@gmail.com

২৩.	আরিফা আক্তার, কৃষি প্রকৌশলী	ডিএই, গাজীপুর	০১৭১৮০৩৮৬৮১	arifa11bau81@gmail.com
২৪.	রুবায়েত ফয়সাল আল-মাসুম, সহকারী প্রকৌশলী	ব্রাহ্মণবাড়িয়া জোন, বিএডিসি, ব্রাহ্মণবাড়িয়া	০১৭২৯৯৫৬৪৬৪	rfamasum@gmail.com
২৫.	এস. এম. আতাই রাব্বি, সহকারী প্রকৌশলী	ক্ষুদ্র সেচ বিবাগ, বিএডিসি, কৃষি ভবন, ঢাকা	০১৭১৬৩৪৬৬১১	aeirrigation2badc@gmail.com
২৬.	ড. এম এম আবেদ আলী উর্দ্ধতন বৈজ্ঞানিক কর্মকর্তা	তুলা গবেষণা কেন্দ্র, জগদীশপুর, যশোর	০১৭১৫৮৪২৫০০	abedali1972@gmail.com
২৭.	সঞ্জিত মন্ডল, বৈজ্ঞানিক কর্মকর্তা	বিএসআরআই, ঈশ্বরদী, পাবনা	০১৭৩৫৩৯১৫৭৫	sanjitbsri@gmail.com
২৮.	শেখ শামসুল আলম, বৈজ্ঞানিক কর্মকর্তা	সেচ ও পানি ব্যবস্থাপনা, বাংলাদেশ কৃষি গবেষণা ইনস্টিটিউট	০১৭২৪৪৬১৪১৪	
২৯.	ড. শাহানা পারভীন, উর্দ্ধতন বৈজ্ঞানিক কর্মকর্তা	সেচ ও পানি ব্যবস্থাপনা, বাংলাদেশ ধান গবেষণা ইনস্টিটিউট	০১৬৭২০৪১৪৮২	parveenbrri98@yahoo.com
৩০.	পলাশ কুমার কুন্ডু, বৈজ্ঞানিক কর্মকর্তা	সেচ ও পানি ব্যবস্থাপনা, বাংলাদেশ ধান গবেষণা ইনস্টিটিউট	০১৭২২৮৪০৭৮৫	kundu22_bau@yahoo.com
৩১.	বিশ্বজিত কুন্ডু, বৈজ্ঞানিক কর্মকর্তা	জুট ফার্মিং সিস্টেমস বিভাগ, বাংলাদেশ পাট গবেষণা ইনস্টিটিউট	০১৭২৫১৩২৯৩৭	jit.sau@gmail.com
৩২.	মোঃ খায়রুল ইসলাম, উর্দ্ধতন বৈজ্ঞানিক কর্মকর্তা	মৃত্তিকা সম্পদ উন্নয়ন ইনস্টিটিউট, আঞ্চলিক গবেষণাগার, বগুড়া	০১৭১০৮১৪৭৯০	Khairulbogra73@gmail.com
৩৩.	মনিরুজ্জামান, উর্দ্ধতন বৈজ্ঞানিক কর্মকর্তা	মৃত্তিকা সম্পদ উন্নয়ন ইনস্টিটিউট, আঞ্চলিক গবেষণাগার, কিশোরগঞ্জ	০১৭১৬৬৬০৬৭৭	moniuzzamankhan@gmail.com

Annexure –II
List of Resource Speaker

SL. No	Name of speaker, Designation	Organization	Mobile No.
1.	Malik Fida A Khan, Executive Director	CEGIS, Dhaka	01819261274
2.	Md. Amirul Islam, Addl. C En, Human Resource Training and HRD	Water Development Board, Dhaka,	01720066188
3.	Md. Motaleb Hossain Sarker, Director	CEGIS, Dhaka	01715015419
4.	Lutfar Rahman, C En	BADC, Dhaka	01727451746
5.	Md. Zafar Ullah, Addl. C En (MI), PD	BADC, Dhaka	01998772029
6.	M. Moniruzzaman, PSO	BRRI, Gazipur	01552328965
7.	MT Islam, CSO	BRRI, Gazipur	01715090879
8.	Md. Mahbubul Alam, SSO	BRRI, Gazipur	01961233768
9.	ABM Jahid Hosain SSO	BRRI, Gazipur	01712763359
10.	Dr. Md Anwar, SSO	BARI, Gazipur	01711249767
11.	Dr. Priya Lal Chandra Paul, SSO	IWMD, BRRI, Gazipur	01716617378
12.	Dr. Debjit Roy, SSO	IWMD, BRRI, Gazipur	01718315126
13.	Dr. Mir Nurul Hasan Mahmud, SSO	BRRI, Gazipur	01716963384
14.	Abul Kalam Azad Deputy Director (Agriculture Extension & Eco.)	NATA, Gazipur	01940652412

Annexure –III
TRAINING SCHEDULE

Course Title: Integrated Water Resources Management in Agriculture
Duration: 05 Days (12-16 September, 2021) Venue: Bidyabatta Bhaban (1 no. class room)

Participant: 9 grade & above officers of different organizations under MoA

Date: 12/09/2021

Time	Topics	Speakers
9.00-9:30	Registration	Lucky
9.30-10.00	Pre-evaluation and Inaugural Session	CC/ ACC/ DG/Directors/Faculties
10.00-11.00	Importance of IWRM in Bangladesh, Examples of IWRM projects in Bangladesh and their Impacts on Agriculture	Md. Amirul Hossain Addl. C En, Human Resource Training and HRD, Water Development Board, Dhaka. 01720066188
11.00-11.15	Tea break	
11.15-12.15	Water Security and water safety	Md. Amirul Hossain Addl. C En, Human Resource Training and HRD, Water Development Board, Dhaka. 01720066188
12.15-1.15	IWRM: Disaster Risk reduction and resilience program under SDG and Polder Management for Irrigation in Bangladesh	M. Moniruzzaman PSO, BRRI, 01552328965
1.15-2.15	Management of different irrigation channels for improving irrigation system in agriculture	M. Moniruzzaman PSO, BRRI, 01552328965
2.15-3.15	Lunch and prayer	
3.15-4.15	National Integrity Strategy	Abul Kalam Azad Deputy Director (Agriculture Extension & Eco.), 01940652412
4.15-5.00	Tea Break	

Date: 13/09/2021

Time	Topics	Speaker
9.30-10.30	Global status of IWRM and prospect in Bangladesh	Malik Fida A Khan, Executive Director, CEGIS, Dhaka, 01819261274
10.30-11.30	Irrigation and water management aspects in Water Policy of Bangladesh	Malik Fida A Khan, Executive Director, CEGIS, Dhaka, 01819261274 mkhan@cegisbd.com
11.30-12.00	Tea Break	
12.00-1.00	Waste water management: concepts and technological aspects	Md. Motaleb Hossain Sarker, Director, CEGIS, Dhaka, 01715015419
1.00-2.00	Irrigation water loss assessment and its control for sustainable agriculture	Md. Lutfar Rahman, Chief Engineer, BADC, Dhaka, 01727451746

2.00-3.00	Lunch and prayer	
3.00-4.00	Irrigation water saving by changing cropping patterns	Md.Lutfar Rahman, Chief Engineer, BADC, Dhaka. 01727451746
4.00-5.00	Tea Break	

Date: 14/09/2021

Time	Topics	Speaker
9.30-10.30	Irrigation principles and practices	Dr. Priya Lal Chandra Paul, SSO, IWMD, BRRI, 01716617378
10.30-11.30	Different methods & techniques of irrigation for crop cultivation	Dr. Priya Lal Chandra Paul, SSO, IWMD, BRRI, 01716617378
11.30-12.00	Tea Break	
12.00-1.00	Possible use of Solar power energy in irrigation sector in Bangladesh (field visit)	ABM Zahid Hosain SSO, BRRI, Gazipur, 01712763359
1.00-2.00	Integrated Water Resources Management (IWRM): challenges in Bangladesh	ABM Zahid Hosain SSO, BRRI, Gazipur, 01712763359
2.00-3.00	Lunch and prayer	
3.00-4.00	Rain water harvesting and use in crop production in drought prone areas	Dr. Debjit Roy, SSO, IWMD, BRRI, 01718315126
4.00.5.00	Rivers canals and basin management for surface irrigation in Bangladesh, prospect and problem	Dr. Debjit Roy, SSO, IWMD, BRRI, 01718315126
5.00.6.00	Tea Break	

Date: 15/09/2021

Time	Topics	Speaker
9.30-10.30	Hydrology and IWRM concept with water consumption	MT Islam CSO, BRRI, Gazipur, 01715090879
10.30-11.30	Irrigation and water management for rice cultivation	MT Islam CSO, BRRI, Gazipur, 01715090879
11.30-12.00	Tea Break	
12.00-1.00	Techniques of irrigation water saving through improved cropping patterns	Md. Mahbubul Alam SSO, BRRI, Gazipur, 0196123376
1.00-2.00	IWRM and Social Inclusion	Md. Mahbubul Alam, SSO, BRRI, Gazipur, 0196123376
2.00-3.00	Lunch and prayer	
3.00-4.00	Multiple use of water resources other than irrigation (use & re-use of water resources)	Dr. Mir Nurul Hasan Mahmud, SSO, BRRI, Gazipur, 01716963384
4.00-5.00	Tea Break	

Date: 16/09/2021

Time	Topics	Speaker
9.30-10.30	Improved irrigation and water management for major field crops	Dr. Md Anwar PSO, BARI, 01711249767
10.30-11.30	Irrigation in Major Vegetables and Crops	Dr. Md Anwar PSO, BARI, 01711249767
11.30-12.00	Tea Break	
12.00-1.00	Status of Surface and ground water irrigation systems in Bangladesh	Md. Zafar Ullah Addl. C En (MI), PD, BADC, Dhaka, 01998772029
1.00-2.00	Irrigation water quality and water pollution management	Md. Zafar Ullah, Addl. C En (MI), PD, BADC, Dhaka, 01998772029
2.00-3.00	Lunch & Prayer	
3.00-3.30	Post Evaluation & Course Evaluation	CC/ ACC
3.30-4.30	Certificate awarding & Closing Ceremony	Participants, CC/ ACC/ DG/ /Faculties
4.30-5.30	Tea Break	

Rafiqul Islam
Course Co-ordinator
&
Deputy Director
(Agriculture Machineries & Water Management)
NATA, Gazipur
Cell: 01718970041

Annexure-IV

Training Course Evaluation by the participants

The Topics they liked:

1. IWRM: Disaster Risk reduction and resilience program under SDG and Polder Management for Irrigation in Bangladesh Hydrology and IWRM concept with water consumption
2. Hydrology and IWRM concept with water consumption
3. Irrigation and water management for rice cultivation
4. Possible use of Solar power energy in irrigation sector in Bangladesh (field visit)
5. Irrigation water quality and water pollution management
6. Irrigation water loss assessment and its control for sustainable agriculture
7. Global status of IWRM and prospect in Bangladesh

The Topics they disliked:

1. Non -stop schedule.
2. Some speakers repeated basic information of IWRM which was monotonous.

The Topics need to be added

1. Need more Practical class
2. Cultural Program
3. Outing/pleasure trip
4. Recreation
5. Exercise
6. Group assignment/Work
7. Discussion and Group exercise

Best Training Methods choose by the participants

1. Discussion and group exercise
2. Resources Speaker
3. Time management
4. Practicing
5. Field Visit

The issues that are disliked by the participants

1. Shortage of sport materials
2. Less time for Practice
3. Very tight schedule
4. Shortage of recreation facilities
5. Less Class practices
6. Needs more service boy in cafeteria
7. Repeatation

The others associated issues they liked

1. Topic wise expert resource persons were selected very prudently.
2. Got scope to introduce with other officers of different organizations.
3. Management of dining by mess committee
4. Time management
5. Discipline & management
6. Management of dormitory
7. Expert resource persons
8. Wi-Fi facilities
9. Cooperation of NATA Authority
10. Cooperation of Course Coordinator and Asst. Course Coordinator.

Provided Service Quality

1. Neat and cleanliness facilities-80%
2. Library facilities – 80%
3. Audiovisual facilities – 70%

Recommendations for the improvement of the course

1. Uninterrupted internet and electricity supply should be provided
2. Practical class should be more
3. Internet access should be increased
4. Arrangement of Tour or recreation
5. Provide more time for discussion and exercise
6. Evert topic should be installed earlier in each desktop
7. Hard copy of manual of training course
8. Sub-Centre should be set up for incessant electricity supply
9. Refresher's course should be arranged
10. Increase of honorarium
11. Sports facilities should be available
12. Sports facilities in the morning
13. Single room for single officer
14. Time schedule must be strictly maintained.
15. One Resources speaker will take one lecture.
16. Field visit Should increased

Annexure-V
Resource Speaker Evaluation by the Participants

Participants	Day-1 (12.09.2021)					Day-2 (13.09.2021)				
	Md. Amirul Islam		Dr. Debojit Roy		Abul Kalam Azad	Motaleb Hossain Sarker			Lutfar Rahman	
1.	5.0	4.6	5.0	5.0	5.0	2.8	2.8	2.8	5.8	5.8
2.	4.4	5.4	5.6	5.6	6.0	4.0	3.8	4.0	5.4	5.4
3.	5.2	5.2	4.8	5.2	5.8	2.6	3.8	5.0	5.0	4.0
4.	4.0	3.4	4.0	5.6	5.0	5.0	5.0	5.0	5.0	5.0
5.	5.0	5.0	5.0	5.0	5.0	5.6	5.6	5.6	5.8	5.6
6.	3.6	4.4	4.4	4.4	4.4	2.6	1.4	4.2	4.8	4.6
7.	5.2	4.2	4.0	4.0	4.0	4.4	4.0	4.0	5.4	5.0
8.	5.0	5.4	4.0	5.0	4.0	3.8	2.8	3.0	5.2	5.0
9.	4.8	4.8	4.8	4.8	4.8	2.0	2.0	2.2	4.6	4.6
10.	4.6	5.6	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0
11.	5.0	5.6	6.0	6.0	5.0	2.0	2.0	2.0	5.8	5.8
12.	3.0	3.0	3.0	3.0	3.0	3.2	4.8	4.0	5.0	5.0
13.	4.8	4.8	4.8	4.8	5.2	3.4	3.2	3.2	4.0	4.0
14.	5.0	5.0	5.0	5.0	5.0	3.6	4.2	4.0	4.2	4.8
15.	4.8	4.2	4.8	4.8	4.8	4.2	4.0	4.0	5.0	5.0
16.	6.0	6.0	6.0	6.0	5.0	4.0	4.0	3.0	4.8	4.8
17.	5.8	5.6	5.8	5.8	5.8	2.0	2.0	4.0	5.0	5.0
18.	4.2	4.2	4.4	4.4	4.4	3.0	3.0	3.0	6.0	6.0
19.	5.0	5.0	5.0	5.0	5.0	4.2	4.2	4.6	5.6	5.6
20.	5.0	5.1	5.2	5.2	5.2	4.8	4.8	4.6	6.0	6.0
21.	5.8	5.6	5.8	5.8	5.8	2.0	2.0	2.0	6.0	6.0
22.	2.0	2.0	6.0	6.0	5.2	4.0	4.0	4.0	6.0	6.0
23.	5.8	5.8	5.8	5.8	6.0	3.4	5.0	4.0	5.6	5.6
24.	5.0	5.0	5.2	5.2	5.0	5.8	5.8	5.8	5.8	5.8
25.	5.4	5.4	5.4	5.4	5.4	2.2	2.2	4.2	4.6	4.6
26.	5.8	5.8	5.8	5.8	5.8	4.8	4.4	4.4	5.2	5.4
27.	4.2	4.4	5.6	6.0	6.0	4.6	4.4	4.4	6.0	6.0
28.	5.2	5.2	5.4	5.4	5.4	3.4	3.2	3.0	6.0	6.0
29.	4.8	4.8	5.2	5.2	5.2	5.2	5.2	5.2	6.0	6.0
30.	5.8	6.0	6.0	6.0	5.8	4.4	4.4	4.4	6.0	5.2
31.	4.8	4.2	4.8	4.8	4.8	2.8	2.6	2.6	5.6	5.6
32.	5.0	5.0	5.2	5.2	5.0	3.0	3.0	3.0	6.0	6.0
33.	5.4	5.4	5.4	5.4	5.4	5.2	5.2	5.2	6.0	6.0
Avg.	4.8	4.8	5.1	5.2	5.1	3.7	3.8	3.9	5.4	5.3

Resource Speaker Evaluation by the Participants

Participants	Day-3 (14.09.2021)						Day-4 (15.09.2021)				
	Dr. Priya Lal Chandra Paul		Dr. Mir Nurul Hasan Mahmud	ABM Jahid Hosain	M.Moniruzzaman		MT Islam		Md. Mahbubul Alam		ABM Jahid Hosain
1.	6.0	6.0	5.6	6.0	5.0	6.0	6.0	6.0	6.0	6.0	5.0
2.	5.8	5.8	4.2	5.0	5.8	5.8	5.8	5.8	5.8	5.8	5.8
3.	5.8	5.8	5.2	5.0	5.8	5.8	6.0	6.0	6.0	6.0	6.0
4.	4.8	4.4	4.0	4.2	5.6	5.8	6.0	6.0	6.0	6.0	6.0
5.	5.0	5.0	5.0	5.0	4.0	4.0	5.4	5.2	5.2	5.0	5.4
6.	5.4	5.6	5.6	5.4	5.0	6.0	5.6	5.6	5.2	5.0	5.0
7.	6.0	6.0	5.0	6.0	6.0	6.0	3.8	4.2	4.2	4.4	4.6
8.	5.6	5.6	5.6	5.6	5.6	5.6	6.0	6.0	3.6	3.6	3.2
9.	6.0	6.0	5.6	5.0	5.0	5.0	4.2	4.6	4.0	4.4	4.4
10.	6.0	6.0	6.0	6.0	6.0	6.0	5.0	4.6	4.4	4.0	4.6
11.	5.8	5.8	5.8	4.6	5.4	5.4	4.6	4.6	4.0	4.4	4.0
12.	5.6	5.6	5.2	5.2	5.6	5.6	5.4	5.4	5.4	5.4	4.0
13.	5.4	5.4	5.4	5.4	5.4	5.0	6.0	6.0	5.8	5.6	5.6
14.	5.4	5.4	5.4	4.0	4.0	4.0	4.2	5.2	3.0	4.2	5.0
15.	5.0	5.0	5.0	4.2	4.2	4.2	5.4	5.4	5.0	5.4	5.2
16.	5.0	5.0	4.8	4.8	4.6	4.2	6.0	5.8	5.8	5.8	5.8
17.	4.2	4.2	4.2	4.2	4.2	3.2	5.4	5.6	4.4	4.4	4.8
18.	5.0	5.0	4.8	4.6	4.6	4.6	5.6	5.8	5.6	5.6	5.6
19.	4.2	4.2	3.4	3.4	4.2	3.4	5.6	5.6	5.4	5.2	5.6
20.	6.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	5.0	4.0	3.0
21.	5.4	5.4	5.4	5.4	5.4	5.4	5.2	5.6	4.2	3.8	3.8
22.	5.0	5.0	5.0	3.0	3.0	3.2	3.4	3.4	4.8	5.0	4.4
23.	5.0	5.8	5.4	4.6	4.8	4.8	4.6	4.6	5.6	5.0	5.0
24.	5.6	5.2	5.2	5.6	5.6	5.6	5.8	5.8	5.8	5.4	5.0
25.	6.0	6.0	6.0	4.0	6.0	6.0	4.2	4.4	4.4	4.0	3.4
26.	6.0	6.0	4.4	5.2	5.2	5.2	4.4	4.4	3.4	3.4	3.6
27.	5.8	5.8	5.8	5.8	5.8	5.8	3.0	3.2	3.6	4.2	4.0
28.	6.0	6.0	6.0	6.0	6.0	6.0	2.6	3.0	4.2	4.2	3.0
29.	5.0	5.0	5.0	5.0	5.0	5.0	4.6	4.6	5.6	5.0	5.0
30.	5.4	5.4	5.4	5.4	5.4	5.4	5.2	5.2	4.2	4.2	4.0
31.	5.8	5.4	4.8	5.2	4.4	4.8	6.0	6.0	5.0	5.2	5.0
32.	5.0	5.0	3.6	5.4	5.4	5.2	5.2	5.6	4.2	3.8	3.8
33.	5.0	5.0	4.8	4.6	4.6	4.6	4.6	4.6	5.6	5.0	5.0
Avg.	5.4	5.4	5.1	4.9	5.1	5.1	4.9	5.1	4.9	4.8	4.7

Resource Speaker Evaluation by the Participants

Day-05(16.09.2021)				
Participants	Dr. Md Anwar		Md. Zafar Ullah	
1.	4.4	4.8	4.8	5.0
2.	5.0	5.0	5.0	5.0
3.	6.0	6.0	6.0	6.0
4.	2.0	2.0	3.0	2.0
5.	5.0	5.0	5.0	5.0
6.	4.2	4.2	4.0	4.0
7.	3.6	3.0	3.6	3.0
8.	5.4	5.2	4.8	4.6
9.	4.8	5.2	4.6	4.8
10.	5.0	4.4	5.4	5.4
11.	5.8	5.8	6.0	6.0
12.	6.0	6.0	6.0	6.0
13.	5.6	5.6	5.6	5.6
14.	6.0	6.0	6.0	6.0
15.	5.8	5.8	6.0	6.0
16.	5.2	5.2	5.0	4.8
17.	5.4	5.4	5.4	5.2
18.	5.4	5.4	5.4	5.2
19.	5.4	5.4	5.0	5.0
20.	5.6	5.5	5.2	5.5
21.	5.2	5.0	5.2	5.2
22.	4.2	3.0	5.0	5.0
23.	5.4	5.8	5.8	5.8
24.	2.0	2.0	2.0	2.0
25.	5.2	5.2	5.1	4.8
26.	5.2	5.4	6.0	5.8
27.	5.0	5.0	5.2	5.2
28.	6.0	6.0	5.4	5.6
29.	3.8	3.6	3.6	3.0
30.	5.4	5.4	5.4	5.2
31.	5.4	5.4	5.4	5.2
32.	4.2	3.0	5.0	5.0
33.	5.8	5.8	6.0	6.0
Avg.	4.9	4.9	5.1	4.9

Annexure-VI

Integrated Water Resource Management in Agriculture Training Course Evaluation Report for Trainees










Duration: 12-16 September, 2021

Full Marks: 50

Sl.	Name	Designation & Posting Place	Pre-Evaluation	Post Evaluation
1.	Md Rabiul Aowal Agricultural Engineer	Department of Agricultural Extension, Khamarbari, Narsingdi	26	30
2.	Syed Tanvin Abir Scientific Officer	Bangladesh Institute of Nuclear Agriculture (BINA)	26	40
3.	Sanjit Mandal Scientific Officer	Bangladesh Sugarcrop Research Institute	18	30
4.	Md. Intekhaf Alam Assistant Engineer	Barind Multipurpose Development of Authority, Rajshahi	23	40
5.	Md. Mahfujur Rahman Agriculture Extension Officer	DAE, Barishal Sadar, Barishal	36	43
6.	Md. Mostafizur Rahman Agriculture Extension Officer	DAE, Rajapur, Jhalokathi	16	32
7.	Rubaed Foysal Al- Masum Assistant Engineer	Bangladesh Agricultural Development Corporation (BADC)	39	33
8.	Dr. M. M Abed Ali Senior Scientific Officer	Cotton Development Board, Jashore	18	41
9.	Bishwajit Kundu Scientific Officer	Bangladesh Jute Research Institute	25	41
10.	S. M Atai Rabbe Assistant Engineer	BADC, Krishi Bhaban, Dhaka	24	30
11.	Md. Mostafizur Rahman Assistant Engineer	BMDA, Gomostapur zone, Chapainawabganj	31	32
12.	S. M Ferdous Agriculture Extension Officer	DAE, Rupsha, Khulna	34	41
13.	Arifa Akhter Agricultural Engineer	Department of Agricultural Extension, Gazipur	16	36
14.	Dr. Md. Mustafa Khan Senior Scientific Officer	Bangladesh Wheat and Maize Research Institute	12	12
15.	SK. Shamshul Alam Kamar Scientific Officer	Bangladesh Agricultural Research Institute	16	27
16.	Ayesha Aktar Agriculture Extension Officer	Department of Agricultural Extension, Nazirpur, Pirojpur.	15	39
17.	Manoranjan Adhikari Agriculture Extension Officer	Department of Agricultural Extension, Birganj, Dinajpur	24	28

Sl.	Name	Designation & Posting Place	Pre-Evaluation	Post Evaluation
18.	Md. Shariful Islam Agriculture Extension Officer	DAE, Badarganj, Rangpur	25	35
19.	Uttam Kumar Roy Agricultural Engineer	DAE, Dhaka Region	26	31
20.	Nadia Akhter Agriculture Extension Officer	DAE, Jhenaigati, Sherpur	15	32
21.	Md. Khairul Islam Senior Scientific Officer	SRDI, Bogura	28	41
22.	Md. Abdus Shakur Saadi Agriculture Extension Officer	DAE, Mohonganj, Netrokona	22	33
23.	Md. Mehedi Hasan Agriculture Extension Officer	DAE, Gobindaganj, Gaibandha	27	37
24.	Md. Forhad Hossen Agriculture Extension Officer	DAE, Atwari, Panchagar	27	41
25.	Kazi Farook Hossain Executive Engineer	BADC, Gazipur Region, Gazipur	12	38
26.	Md. Najmul Hasan Agriculture Extension Officer	DAE, Ranisankail, Thaqurgaon	29	42
27.	Md. Mhafuzur Rhaman Assistant Engineer	BMDA, Tanor zone, Rajdhahi	10	23
28.	Dr. Shahana Parveen Senior Scientific Officer	Irrigation and Water Management, BRRI	27	35
29.	Maniruzzaman Senior Scientific Officer	SRDI	27	34
30.	Palash Kumar Kundu Scientific Officer	Irrigation and Water Management, BRRI, Gazipur	30	35
31.	Md. Nur Alom Agriculture Extension Officer	DAE, Chilmari, Kurigram	12	40
32.	Md. Ismail Hosen Agriculture Extension Officer	DAE, Kachua, Bagerhat	25	44
33.	Mst. Nadira Sultana Seed Certification Officer	SCA, Gaibandha	12	33

FACULTY MEMBERS OF NATA

Photo	Name & Designation	Phone/Cell/ E-mail
	Md. Mahabub Alam Director General (In-charge)	01718-556100 dgnata14@gmail.com
	Mahmudul Hasan Director Admin (In-charge)	01715-101818 hasandae@yahoo.com
	Md. Mahmud Hasan Director Training	01817-066613 mahamudhassandae@gmail.com
	Mahmudul Hasan Deputy Director (Admin & Support Service)	01715-101818 hasandae@yahoo.com
	Dr. Md. MayenUddin Deputy Director (Food Technology)	01711-969688 mayen.dae85@yahoo.com
	Dr. Md. Sayedur Rahman Deputy Director (Horticulture)	01552-495564 sayedur.63@gmail.com
	Md. Rafiqul Islam Deputy Director (Agril. Machinery & Water Management)	01718-970041 badal.rafiqul@gmail.com
	Dr. MD. Jamal Uddin Deputy Director (Plant Pathology)	01712-272859 jamaldae@yahoo.com
	Abu Syed Md. Jobaydul Alam Deputy Director (Genetics & Plant breeding)	01712-603248 shaheenbindo@gmail.com

	<p>Mohammad Abdul Hamid</p> <p>Deputy Director (Soil Science)</p>	<p>01712-943514</p> <p>mabdulhamid1972@gmail.com</p>
	<p>Abul Kalam Azad</p> <p>Deputy Director (Agril.Ext.& Rural Economic)</p>	<p>01940-652412</p> <p>azadipm@gmail.com</p>
	<p>Md. Eskandar Hossain</p> <p>Deputy Director (Agronomy)</p>	<p>01938-615225</p> <p>eskandarhossain@yahoo.com</p>
	<p>Nilufa Aktar</p> <p>Deputy Director (Planning & Publication)</p>	<p>01719-174775</p> <p>nilufaa@yahoo.com</p>
	<p>Mst. Sharmin Akhter</p> <p>Deputy Director (Agroforestry & Environment)</p>	<p>01711-736571</p> <p>slaboni1980@gmail.com</p>
	<p>MD. Saiful Islam</p> <p>Senior Assistant Director (Horticulture Crop Disease)</p>	<p>01710-511175</p> <p>saiful.dae@gmail.com</p>
	<p>Tahazul Islam</p> <p>Senior Assistant Director (Cereal & Cash Crop)</p>	<p>01717-287940</p> <p>tahazul@yahoo.com</p>
	<p>Md. Sharif Iqbal</p> <p>Senior Assistant Director (Flower & Fruit)</p>	<p>01716-986339</p> <p>sharif_dae27@yahoo.com</p>
	<p>Mahmuda Haque</p> <p>Senior Assistant Director (Genetics & Plant Breeding)</p>	<p>01718425311</p> <p>mahmudahuq15@gmail.com</p>

	<p><u>Shamsun Nahar</u></p> <p>Senior Assistant Director (Field Crop Diseases)</p>	<p>01717-376172</p> <p>shamsun27@gmail.com</p>
	<p>Md. Aklimuzzaman</p> <p>Senior Assistant Director (Pulse & Oil Crops)</p>	<p>01719-303797</p> <p>akzaman237@yahoo.com</p>
	<p>Banani Karmaker</p> <p>Senior Assistant Director (Soil Physics)</p>	<p>01674866673</p> <p>bananikarmaker@gmail.com</p>
	<p>Md, Anowarul Islam Juwel</p> <p>Senior Assistant Director (Agriculture extension)</p>	<p>01710-586075</p> <p>juwelbau@gmail.com</p>
	<p>Mousumi Paul</p> <p>Senior Assistant Director (Biotechnology)</p>	<p>01712-680844</p> <p>mplbcsag31@gmail.com</p>
	<p>Lialatul Rokshana Lima</p> <p>Senior Assistant Director (Soil Chemistry & Microbiology)</p>	<p>01714-612029</p> <p>lima1.gcb@gmail.com</p>
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