

Disaster Management in Agriculture

(25-29 November 2018)

Course Guideline



National Agriculture Training Academy (NATA)

Ministry of Agriculture

Gazipur-1701

www.nata.gov.bd

Training on Disaster Management in Agriculture

Duration: 25 to 29 November 2018

Course Management

Course Director : Dr. Md. Abu Sayeed Miah

Director Training NATA, Gazipur

Course Coordinator: Md. Zakir Hossain

Deputy Director

(Genetics & Plant Breeding)

NATA, Gazipur Cell: 01715797920

Asst. Course Coordinator

Mohammad Golam Mostafa, PhD Senior Assistant Director (Environment and Agroforestry) NATA, Gazipur Cell: 01712803348

Asst. Course Coordinator

Sharmin Jui
Senior Assistant Director
(Biotechnology)
NATA, Gazipur

Cell: 01670709313

Introduction to National Agriculture Training Academy (NATA)

1. The Academy

National Agriculture Training Academy (NATA) is the apex training institute for human resource development of officers (grade-9 and above) under the Ministry of Agriculture (MoA) for providing training on diversified fields of professional interest in agriculture sector. The Academy organizes various training programmes related to agriculture throughout the year. The academy is established in Gazipur as Central Extension Resources Development Institute (CERDI) on 14 March 1975 with the financial assistance of Japan International Cooperation Agency (JICA). Afterwards, on 27 June 1984, CERDI was undertaken to the Training Wing of Department of Agricultural Extension (DAE). On 03 April 2013, Government of the People's Republic of Bangladesh abolished CERDI and established NATA as an independent organization of MoA and on 07 June 2014, NATA has been started as a training academy.

Initially, the Academy started its functions with only 10 faculty members. Though Government approved strength is 184, at present NATA has 84 staff members including 30 faculty members.

2. Location

The Academy is 25 km away from Dhaka city and 3 km away from *Joydevpur Chandana Chowrasta* towards Gazipur district head quarter. It is located adjacent to Bangladesh Rice Research Institute (BRRI) and occupied 49 acres of land. The academy provides the trainees an ample scope to have free access to the adjacent institutions like Bangladesh Agriculture Research Institute (BARI), Bangladesh Rice Research Institute (BRRI), Seed Certification Agency (SCA), Bangabondhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Telecommunication College, and other government offices in Gazipur.

3. Vision

National Agriculture Training Academy becomes a center of excellence for developing competent human resources in agriculture sector.

4. Mission

We are pledged to achieve the shared vision through:

- i. Develop human resource of all organizations under MoA by imparting quality training, research and development and publications;
- ii. Enhance linkage between education, research and extension to endow agriculture service delivery system;
- iii. Network with reputed institution of home and abroad for organizational capacity building; and
- iv. Foster a culture of continuous learning for development of knowledge-intensive agriculture service.

5. Functions

The NATA has been entrusted to perform the following functions:

- i. Human resource development of the government, semi-government, autonomous organization under MoA through training of modern and sustainable agriculture technology;
- ii. Transfer modern and sustainable agriculture technology developed by the research organizations for the development of socio-economic conditions of farmers;
- iii. Conduct demonstration, adaptive research and research of proven technologies:
- iv. Impart all sorts of in-service training with special emphasis on induction, foundation and senior staff course;
- v. Exchange publications, participants and resource persons in seminars, workshops, conferences and training among the stakeholders;
- vi. Advice government and other organizations on training, achieving food and nutrition security, ICT, transfer of agriculture technology, agro-based industries and conservation environments etc.:
- vii. Help government and policy makers in framing and analyzing agricultural policies;
- viii. Conduct different training activities of academy in consonance with provision of the public administration training policy 2003; and
 - ix. Perform all kinds of duties directed by the government.

6. Sessions

Every day the session will start at 9.00 am in the morning and end at 4:30 pm in the afternoon. There are two breaks started at 11.15 am and 12.30 pm for tea and lunch with prayer respectively. Participants are advised to attain the class in time without fail for avoiding any kinds of disciplinary action.

Daily Schedule

Activities	Duration
Recapitulation	09.00-9.15
1 st Session	9.15-10.30
Health break	10:30-11:00
2 nd Session	11:00-12.00
3 rd Session	12.00-1.00
Lunch and Prayer	1.00-2.15
4 th Session	2.15-3.30
Health break	3.30-4.00
5 th Session	4.00-5.00

7. Facilities

7.1. Physical Facilities

The Academy is well equipped with physical facilities in organizing training programs though it began its journey recently. Existing facilities of the academy are as follows.

- Office building-2
- Class room- 3
- Laboratory (Subject wise technical)
- Plant protection museum- 1
- Conference room- 1
- Auditorium-1
- Dormitory- 4
- Cafeteria- 1
- Greenhouse- 3
- Workshop-1

7.2. Digital Computer cum Language Lab. and IT facilities

There is one Digital Computer cum Language Lab in the Academy. It is located on the 1st floor of the Administrative building. IT facilities include LAN and Wi-Fi and the whole campus under Wi-Fi coverage. To expedite foreign language learning, NATA set up a Digital Computer cum Language Lab. as part of the Academy's drive for capacity building of government officials. Participants can avail the opportunity of learning the foreign language while they stay in NATA.

7.3 Recreational Facilities

The Academy has a recreation room with color T.V in the dormitory. The daily newspapers are available in recreation room for the participants.

7.4. Linkage with other Training Organizations

NATA maintains good relations with other training Academies in the country including BPATC, RPATC, BCS Administration Academy, BIAM and FIMA and so on. NATA has plan to collaborate with international training institutes for improvement its human resources. NATA also collaborate with national research organizations in research in agriculture sector.

Course at a glance

A low-lying country with more than 230 waterways, Bangladesh is one of the most disaster-prone nations in the world. The country is well within the tropics and is the largest delta in the world formed by the mighty rivers namely the Ganges, the Brahamaputra and the Meghna. Bangladesh has special geographical feature. It has the Himalayan range to the north. The Bay of Bengal to the south with its funneling towards Meghna estuary and the vast stretch of Indian land to the west. The combined effects of the role played by this special geographical feature have significant bearing on weather system of Bangladesh. The weather systems are not always favorable. Due to this weather system, Bangladesh becomes the worst victim of natural calamities causing colossal loss of lives and properties. Major disasters that occur in Bangladesh are: tropical cyclone, tidal bore, flood, tornado, river bank erosion, earthquake etc. Most of the people of this country are very poor. It is predominantly an agricultural country. The economy largely depends on weather. Natural disasters disrupt the nation's food supply and decimate the livelihoods of the many Bangladeshis who work in agriculture.

Natural disasters have number of adverse effects on human security. The most obvious immediate negative effect relates to destruction of life and property. There are also implications for livelihood and employment of people in the affected areas, and for the immediate viability of cultivation and other economic activities in the affected areas. Further, floods and cyclones, in particular, give rise to major health hazards, with the threat of epidemic disease resulting from such calamities being ever present. It is an accepted fact that occurrence of the natural disasters cannot be prevented altogether but their adverse impact can be reduced substantially by undertaking various preparedness and mitigation measures. When disaster strikes, the best protection knows what to do. The impact of disaster can only be combated effectively if we have a rational and objective understanding of them. The adverse impacts of all the natural hazards affecting socio-economic condition need to be reduced for sustainable development.

Course objectives

Upon completion of the course on disaster management in agriculture participants will be able to:

- (i) To understand the key concept and principles of disaster management with special reference of Bangladesh;
- (ii) To know about regulatory and institutional framework of disaster management;
- (iii) To co-ordinate and monitor the climate changed disaster management programs in order to rationalize resource utilization and ensure effective adaptations in crop agriculture;
- (iv)To reduce Bangladeshis' vulnerability to disasters in the identified areas of concern (geographical or sectoral);
- (v) To put in place appropriate measures that minimizes the negative effects of climate change and disaster;
- (vi) To develop skills on Constraints/challenges for agricultural development;
- (vii) To design and implement disaster management activities.

Target population: Officers of 9th grade and above of 17 organizations under MoA.

Duration of each Session: 60 minutes

Prerequisite 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; and
- > Cell phone must be kept in silent mode.

Norms to be followed during the training

- No casual leave is allowed during training period.
- Participants living in the dormitory are advised to follow the norms of the dormitory.
- The campus area is a "Non Smoking Zone". Participants are advised to refrain from smoking inside the Academy.
- Participants are not allowed to enter the dormitory after 11:00pm at night

Evaluation

Course Director and other faculty members are given responsibility to evaluate the participants. The course is evaluated during pre and post training situation within 100 marks. On the other hand the participants are also given chance to evaluate the faculties and guest speakers by using a prescribed format.

List of Speakers/Resource Personnel DISASTER MANAGEMENT IN AGRICULTURE

SL	Name of the speakers	Designation and Address	Mobile NO.
No.	•		
01	Dr. Md. Abdul Wazed	Ex. DG, DDM & BBS and Addl.	01715082620
		Secretary (Rtd),	Wazed_73@ymail.com
02	Md. Mahbubul Islam	Joint Secretary(Extension), Ministry	01911010083
		of Agriculture	mahbub4149@gmail.com
03	Dr. Md. HumayunKabir	Professor, Department of Geography	01717711024
		and Environment, Dhaka University	mh_kabir@yahoo.com
04	Dr. Md. Abu Wali	Ex. Director, Planning, Project	01711224573
	Raghib Hassan	Implementation& ICT wing, DAE,	awrhassan@gmail.com
		Khamarbari, Dhaka	
05	Jibon Krishna Biswas	Ex. DG, BRRI, Gazipur	01711960439,01715285096
06	Dr. Md. Abdul Muyeed	Director, Field Service Wing, DAE,	01716940311
	-	Khamarbari, Dhaka	Muyeedbd61@gmail.com
07	Dr. Apurba Kanti	PSO,OFRD, BARI, Gazipur	01819128302
08	Nitai Chandra Dey	Assistant Director (GIS),	01552331433
	Sarkar	Department of Disaster Management,	netai@gmail.com
		Mohakhali, Dhaka.	
09	Md. Shameem Hassan	Meteorology & Project Manager,	01750000456
	Bhuiyan	WIBCI, Bangladesh Meteorological	Shameem_dd@yahoo.com
		Department	
10	Md. Zakir Hossain	DD, NATA, Gazipur	01715797920
		1	Hzakir104@gmail.com
11	Dr. Md. Golam Mostafa	Sr. AD, NATA, Gazipur	01712-803348
			kbdmostafa@gmail.com

TRAINING SCHEDULE

DISASTER MANAGEMENT IN AGRICULTURE

Date: 25/11/2018 Working Day-01 Day: Sunday

Date: 25/11/2010 Working Day 0		Bay: Sunday
Time	Planned sessions and Topics	Lecturer/Facilitator
9.00-9.30	Registration	ACC & Sadiqunnahar, Demonstrator (Lab)
9.30-10.00	Inaugural Session	DG/Directors, Course Coordinator&
		Assistant Course Coordinators
10.00-10.15	Pre-evaluation	Dr. Md. Golam Mostafa, Sr AD & Sharmin
		Jui, Sr AD, NATA
10.15-11.15	Basic concept on disaster, hazard,	Md. Mahbubul Islam, Joint Secretary
	vulnerability, risk and climate change	(Extension), Ministry of Agriculture
11.15-11.40	Tea Break	
11.40-12.40	Interrelation between environment,	Do
	population and development	
12.40-01.45	Prayer & Lunch Break	
01.45-02.45	Present Disaster scenario of Bangladesh	Dr. Md. Humayun Kabir, Professor,
		Department of Geography and
		Environment, Dhaka University
02.50-03.50	Projection of climate change and disaster	Do
	challenges in Bangladesh	
03.55-04.55	Impact of climate change on agriculture in	Do
	Bangladesh	

Date:26/11/2018 Working Day-02Day:Monday

Time	Planned sessions and Topics	Lecturer/Facilitator
9.00-9.20	Review of the previous day	Dr. Md. Golam Mostafa, Sr AD, NATA
9.20-10.20	Flood, flash flood and water logging and	Dr. Md. Abdul Muyeed, Director, Field
	their impacts on agriculture	Service Wing, DAE, Khamarbari, Dhaka
10.20-11.20	Drought Effect on agriculture and crop production	Do
11.20-11.40	Tea Break	
11.40-12.40	Agriculture rehabilitation program planning	Do
	after disaster	
12.40-2.00	Prayer & lunch Break	
2.00-3.00	ICT for disaster Management	Nitai Chandra Dey Sarkar, Assistant
		Director (GIS), Department of Disaster
		Management, Mohakhali, Dhaka.
3.10-4.10	GIS and Remote sensing in disaster	Do
	management	

Date: 27/11/2018 Working Day-03 Day:Tuesday

Time	Planned sessions and Topics	Lecturer/Facilitator
9.00-9.20	Review of the previous day	Dr. Md. Golam Mostafa, Sr AD, NATA
9.20-10.20	Salinity intrusion and agricultural adaptation in coastal areas of Bangladesh	Dr. Md. Abu Wali Raghib Hassan, Ex. Director, Planning, Project Implementation& ICT wing, DAE, Khamarbari, Dhaka

10.20-11.20	Adaptation strategies for disaster and climate risks management in agriculture	Do
11.20-11.40	Tea Break	
Time	Planned sessions and Topics	Lecturer/Facilitator
11.40-12.40	Mitigation strategies for disaster and	Do
	climate risks management in agriculture	
12.40-2.00	Prayer & lunch Break	
2.00-3.00	Meteorology and weather forecasting for	Dr. Md. Shameem Hassan Bhuiyan
	agriculture	Meteorologist & Project Manager, WIBCI,
		Bangladesh Meteorological Department
3.10-4.10	Implication of agro-meteorology for	Do
	agriculture disaster management	

Date: 28/11/2018 Working Day-04 Day: Wednesday

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Time	Planned sessions and Topics	Lecturer/Facilitator
9.00-9.20	Review of the previous day	Dr. Md. Golam Mostafa, Sr AD, NATA
9.20-10.20	National policy, planning and act on disaster management	Dr. Md. Abdul Wazed, Ex. DG, DDM & BBS and Addl. Secretary (Rtd)
10.20-11.20	Bangladesh disaster management planning and future perspective	Do
11.20-11.40	Tea Break	
11.40-12.40	Disaster Management System in	Do
	Bangladesh	
12.40-1.45	Prayer & lunch Break	
1.45-2.45	Updated technologies of BARI in relation	Dr. Apurba Kanti Choudhury, CSO, RARS,
	to disaster management	BARI, Jamalpur
2.50-3.50	Updated technologies of BARI in relation	Do
	to disaster management	
3.55-4.55	Loss assessment after disaster	Do

Date: 29/11/2018 Working Day-05 Day: Thursday

Time	Planned sessions and Topics	Lecturer/Facilitator
9.00-9.20	Review of the previous day	Dr. Md. Golam Mostafa, Sr AD, NATA
9.20-10.20	Updated technologies of BRRI in relation to	Jibon Krishna Biswas, Ex. DG,BRRI, Gazipur
	disaster management	
10.20-11.20	Updated technologies of BRRI in relation	Do
	to disaster management	
11.20-11.40	Tea Break	
11.40-12.40	Make an agriculture rehabilitation plan of	Course Coordinator & Assistant Course
	your working area (eg. Flood, drought,	Coordinator
	salinity)	
12.40-2.00	Prayer & lunch Break	
2.00-3.00	Group presentation and discussion	Course Coordinator & Assistant Course
	(eg. Flood, drought, salinity)	Coordinator
3.00-3.30	Post evaluation and course evaluation	Assistant Course Coordinator
3.30-4.30	Closing ceremony	DG/Directors, Course Coordinator & Assistant
		Course Coordinator

Faculty Members of NATA

Photo	Name & Designation	Phone/Cell/ E-mail
	Dr. Md. Abu Sayeed Miah Director General (In-Charge)	01712-024623 sayeedplp@gmail.com
	Dr. Md. Abdus Salam Director (Administration)	01711-459458 masalam@gmail.com
	Md. Jakir Hossain Deputy Director (Genetics & Plant Breeding)	01715-797920 hzakir104@gmail.com
	Dr. Md. Shariful Islam Deputy Director (Agronomy)	01743-051115 mshariful60@yahoo.com
	Dr. Md. Delwar Hossain Mazumder Deputy Director (Agril. Ext. & Rural Economy)	01552-426576 01815-597304 dhossain1960@yahoo.com
-	Ranjit Kumar Pal Deputy Director (Agril. Machinery & Water Management)	01818-600706 ranjitrkpbd@gmail.com
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	Md. Jamal Uddin Deputy Director (Entomology)	01718-214607 jamaluddin6257@yahoo.co m
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	,	m
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5	Senior Assistant Director	naharkhabirun@yahoo.co
	(Pulse & Oil Crops)	m
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The same of	Senior Assistant Director (Farm	azadipm@gmail.com
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	(
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	Sharmin Jui	01670-709313
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"Disaster Management in Agriculture" বিষয়ক প্রশিক্ষণের প্রশিক্ষণার্থীদের তালিকা সময়কালঃ ২৫-২৯ নভেম্বর ২০১৮ খ্রি:

ক্র. নং	নাম ও পদবী	কর্মস্থল	মোবাইল ও ইমেইল
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50	কাজী শফিউল ইসলাম	উপজেলা কৃষি অফিস , সোনাগাজী, ফেনী	01723595205
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33	জয়নুল আলম তালুকদার	হটিকালচার সেন্টার, শোলাকিয়া, কিশোরগঞ্জ	01676953888
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	প্রশিক্ষক	7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	atifaridpur1973@gmail.com
\$8	মোঃ আবুল খালেক	বীজ প্রক্রিয়াজাত ও সংরক্ষণ বিভাগ, বিএডিসি,	01715218900
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