



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
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Asst. Course Coordinator
Mohammad Golam Mostafa, PhD
Senior Assistant Director
(Environment and Agroforestry)
NATA, Gazipur
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Asst. Course Coordinator
Sharmin Jui
Senior Assistant Director
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NATA, Gazipur
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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 Brahmaputra 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 No.	Name of the speakers	Designation and Address	Mobile NO.
01	Dr. Md. Abdul Wazed	Ex. DG, DDM & BBS and Addl. Secretary (Rtd),	01715082620 Wazed_73@ymail.com
02	Md. Mahbubul Islam	Joint Secretary(Extension), Ministry of Agriculture	01911010083 mahbub4149@gmail.com
03	Dr. Md. HumayunKabir	Professor, Department of Geography and Environment, Dhaka University	01717711024 mh_kabir@yahoo.com
04	Dr. Md. Abu Wali Raghil Hassan	Ex. Director, Planning, Project Implementation& ICT wing, DAE, Khamarbari, Dhaka	01711224573 awrhassan@gmail.com
05	Jibon Krishna Biswas	Ex. DG, BRRI, Gazipur	01711960439,01715285096
06	Dr. Md. Abdul Mueeed	Director, Field Service Wing, DAE, Khamarbari, Dhaka	01716940311 Mueeedbd61@gmail.com
07	Dr. Apurba Kanti	PSO,OFRD, BARI, Gazipur	01819128302
08	Nitai Chandra Dey Sarkar	Assistant Director (GIS), Department of Disaster Management, Mohakhali, Dhaka.	01552331433 netai@gmail.com
09	Md. Shameem Hassan Bhuiyan	Meteorology & Project Manager, WIBCI, Bangladesh Meteorological Department	01750000456 Shameem_dd@yahoo.com
10	Md. Zakir Hossain	DD, NATA, Gazipur	01715797920 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

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, vulnerability, risk and climate change	Md. Mahbulul Islam, Joint Secretary (Extension), Ministry of Agriculture
11.15-11.40	Tea Break	
11.40-12.40	Interrelation between environment, population and development	Do
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 challenges in Bangladesh	Do
03.55-04.55	Impact of climate change on agriculture in Bangladesh	Do

Date: 26/11/2018 Working Day-02 Day: 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 their impacts on agriculture	Dr. Md. Abdul Mueed, Director, Field 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 after disaster	Do
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 management	Do

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 Raghieb 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 climate risks management in agriculture	Do
12.40-2.00	Prayer & lunch Break	
2.00-3.00	Meteorology and weather forecasting for agriculture	Dr. Md. Shameem Hassan Bhuiyan Meteorologist & Project Manager, WIBCI, Bangladesh Meteorological Department
3.10-4.10	Implication of agro-meteorology for agriculture disaster management	Do

Date: 28/11/2018

Working Day-04

Day: Wednesday

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 Bangladesh	Do
12.40-1.45	Prayer & lunch Break	
1.45-2.45	Updated technologies of BARI in relation to disaster management	Dr. Apurba Kanti Choudhury, CSO, RARS, BARI, Jamalpur
2.50-3.50	Updated technologies of BARI in relation to disaster management	Do
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 disaster management	Jibon Krishna Biswas, Ex. DG, BRRI, Gazipur
10.20-11.20	Updated technologies of BRRI in relation to disaster management	Do
11.20-11.40	Tea Break	
11.40-12.40	Make an agriculture rehabilitation plan of your working area (eg. Flood, drought, salinity)	Course Coordinator & Assistant Course Coordinator
12.40-2.00	Prayer & lunch Break	
2.00-3.00	Group presentation and discussion (eg. Flood, drought, salinity)	Course Coordinator & Assistant Course 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
	Md. Mahmud Hasan Deputy Director (Horticulture)	01817-066613 mahamudhassandae@gmail.com
	Md. Jamal Uddin Deputy Director (Entomology)	01718-214607 jamaluddin6257@yahoo.com
	Anowara Akhter Deputy Director (Environment & Agroforestry)	01918-023360 anowaraakhter@yahoo.com
	Mahmudul Hasan Project Director	01715-101818 hasandae@yahoo.com
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	Dr. Md. Abdul Mazed Deputy Director (LR)	01814-849190 mazed13th.dae@gmail.com
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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
০১	ড. মোঃ জামাল হোসেন উর্ধ্বতন বৈজ্ঞানিক কর্মকর্তা	বারটান আঞ্চলিক কেন্দ্র, বরিশাল	01705285390 ssobarishal@gmail.com
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০৯	মো: নূরনবী দেওয়ান প্রশিক্ষক	কৃষি প্রশিক্ষণ ইনস্টিটিউট, আড়াইহাজার, নারায়নগঞ্জ	01676555621 atiaraihazar@gmail.com
১০	কাজী শফিউল ইসলাম কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস , সোনাগাজী, ফেনী	01723595205 kazishuman@gmail.com
১১	জয়নুল আলম তালুকদার উদ্যানতত্ত্ববিদ	হটিকালচার সেন্টার, শোলাকিয়া, কিশোরগঞ্জ	01676953888 Jaynulalam.hstu@gmail.com
১২	মোঃ আব্দুল্লাহ আল নোমান কৃষি সম্প্রসারণ অফিসার	উপজেলা কৃষি অফিস, কালিগঞ্জ, ঝিনাইদহ	01736602631 nomansau69@gmail.com
১৩	আফরিন আক্তার ফারিয়া প্রশিক্ষক	কৃষি প্রশিক্ষণ ইনস্টিটিউট, ফরিদপুর	01686748747 atifaridpur1973@gmail.com
১৪	মোঃ আব্দুল খালেক উপব্যবস্থাপক (বীপ্রস)	বীজ প্রক্রিয়াজাত ও সংরক্ষণ বিভাগ, বিএডিসি, কৃষি ভবন, ঢাকা।	01715218900 makhalequebadc@gmail.com
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১৮	কেয়া কর্মকার বৈজ্ঞানিক কর্মকর্তা	মৃত্তিকা ও ভূমি শ্রেণিবিন্যাস জরিপ শাখা, এসআরডিআই, ঢাকা	01673980646 keyasau20@gmail.com
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২০	মো: ইমদাদুল হক বৈজ্ঞানিক কর্মকর্তা	ফলিত গবেষণা ও সম্প্রসারণ বিভাগ বাংলাদেশ পরমাণু কৃষি গবেষণা ইনস্টিটিউট	01913637815 Apu.pstu@gmail.com
২১	এ.বি.এম শফিউল আলম বৈজ্ঞানিক কর্মকর্তা ও ভারপ্রাপ্ত কর্মকর্তা	বিনা উপকেন্দ্র, চাঁপাইনবাবগঞ্জ	01717268337 shafiulalamshahed@yahoo.com
২২	রুমানা মমতাজ উর্ধ্বতন বৈজ্ঞানিক কর্মকর্তা	প্লান্ট প্যাথলোজি ডিভিশন বিএআরআই, গাজীপুর	01751944573 rumanamtz@yahoo.com
২৩	মো: জাহেদুল হাসান বৈজ্ঞানিক কর্মকর্তা	এইচএআর এস, বিএআরআই, খাগড়াছড়ি	01717755484 zahed_484@yahoo.com
২৪	মো: হাবিবুল বাশার চৌধুরী কৃষি সম্প্রসারণ অফিসার	কালিয়াকৈর, গাজীপুর	01737059455 basharsau@gmail.com

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