

*“Quality Seed for Better Yield”*

# Course Guideline

on

## Seed Technology Training Course



**National Agriculture Training Academy (NATA)**

Gazipur-1701

[www.nata.gov.bd](http://www.nata.gov.bd)

**Training Course**  
**On**  
**Seed Technology**

28 November – 07 December 2021

**Course Management Team**

- Course Advisor** : Dr. A K M Najmul Haque  
Director General (In-charge)  
NATA, Gazipur
- Course Director** : Md. Mahmud Hasan  
Director (Training)  
NATA, Gazipur
- Course Coordinator** : Md. Eskandar Hossain  
Deputy Director (Agronomy)  
NATA, Gazipur
- Asst. Course Coordinator** : Md. Aklimuzzaman  
Senior Assistant Director  
NATA, Gazipur
- &
- Mousumi Paul  
Senior Assistant Director  
NATA, Gazipur

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# **Introduction to National Agriculture Training Academy (NATA)**

## **1.1 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 programs related to modern agricultural technologies and office management issues 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 its journey as a training academy.

After emergence as NATA, the Academy began its training functions with only 10 faculty members. Though Government approved strength is 184, at present NATA has 84 staff members including 30 faculty members.

## **1.2 Vision**

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

## **1.3 Mission**

We are pledged to achieve the shared vision through:

- i. Development of skilled human resources of all organizations under MOA by imparting quality training, research and development and publications;
- ii. Enhancement of linkage between education, research and extension to endow agriculture service delivery system;
- iii. Building a network with reputed institutions of home and abroad for organizational capacity development; and
- iv. Fostering a culture of continuous learning for development of knowledge-intensive agriculture service.

## **1.4 Functions**

NATA has been entrusted to perform the following functions:

- i. Develop skilled human resources of the government, semi-government, autonomous organizations under MOA through imparting training program on modern and sustainable agriculture technology and office management topics;
- ii. Transfer modern and sustainable agriculture technology developed by the research organizations obtaining higher yield of crops of the 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.

## **1.5 Location of the Academy**

The Academy is about 25 km away from the capital city Dhaka 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 get 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.

## **1.6 Facilities**

### **1.6.1 Physical Facilities**

The Academy is well equipped with some physical facilities to run the training programs successful though it began its voyage recently. Existing facilities of the academy are as follows.

- Office building-4
- Training Complex-1
- Residential Building-15
- Class room- 7
- Laboratory (Subject wise technical)-4
- Plant protection museum- 1
- Conference room- 2
- Auditorium-1
- Library- 2
- Dormitory- 6
- Cafeteria- 2
- Greenhouse- 3
- Workshop-1
- Store-1
- Mosque-1

### **1.6.2. Digital Computer cum Language Lab. and IT facilities**

There is two Digital Computer cum Language Lab in the Academy. It is located on the 1<sup>st</sup> floor of the Administrative building. IT facilities available 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.

### **1.6.3 Recreational Facilities**

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

### **1.6.4 Linkage with other Training Organizations**

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

### **1.7 Evaluation**

Course coordinator and assistant course coordinators are given the responsibility to evaluate the participants. The course is evaluated during pre and post training situation. Furthermore, the participants are given the chance to evaluate the resource speakers by using a prescribed format.

### **1.8 Sessions**

Every day the session is started at 9.30 am in the morning and ends at 5:00 pm in the afternoon. There are two refreshment breaks started at 11.30 am for snacks and 5.00 pm for tea as well as lunch with prayer-break at 1.00-2.30 pm respectively. Participants are advised to attend the class in time without fail for avoiding any kinds of disciplinary action.

#### **Daily Schedule**

<b>Activities</b>	<b>Duration</b>
<b>1<sup>st</sup> Session</b>	<b>9.30-10.30</b>
<b>2<sup>nd</sup> Session</b>	<b>10.30-11.30</b>
<b>Tea Break</b>	<b>11.30-12.00</b>
<b>3<sup>rd</sup> Session</b>	<b>12.00-1.00</b>
<b>Prayer and Lunch Break</b>	<b>1.00-2.30</b>
<b>4<sup>th</sup> Session</b>	<b>2.30-3.30</b>
<b>5<sup>th</sup> Session</b>	<b>3.30-4.30</b>
<b>6<sup>th</sup> Session</b>	<b>4.30-5.00</b>
<b>Evening Tea</b>	<b>5.00-5.30</b>

### **1.9 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; and
- Participants are not allowed to enter the dormitory after 10:00pm at night.

# Course at a glance

## Introduction

National Agriculture Training Academy (NATA) is the apex training academy under Ministry of Agriculture. NATA is organized training programs on the basis of the needs of 17 organizations under the MoA. At the pace of progress in agricultural productivity, it has become necessary to ensure that seeds of good quality reach every farmer at the right time, at the right place and at affordable price. To achieve this we need as soon as possible a large number of seed technologists who are conversant with all aspects of seed industry. Therefore, the officers of different organizations under the MoA need skills on different activities regarding quality seeds and the training on seed technology will help them to perform efficiently their jobs with seed related activities in order to achieve quality seeds.

## Course Objectives:

After completion of training course, the participants will be able to:

- a) state the concept of seed quality and seed technology;
- b) explain the quality control mechanism of seed in Bangladesh;
- c) perform the production, processing and storage of seed properly;
- d) test the seed purity, moisture and germination in laboratory;
- e) illustrate the marketing system and planning of seed business for an entrepreneur;
- f) comply the seed acts, rules and regulations of Bangladesh in their job area.

**Target population:** Officers (Grade-9 and above) 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

## Course Content

Sl.	Subject
1.	<b>Module - 1: Seed Technology and Quality Aspects</b>
2.	Lesson 1: Seed technology: Conceptual issues of seed and seed quality
3.	Lesson 2: Concept on quality seeds, dormancy and seed quality enhancement
4.	Lesson 3: Seed supply system and status of quality seed in Bangladesh & abroad
5.	<b>Module - 2: Seed Quality Control and Assurance</b>
6.	Lesson 1: Seed quality control mechanism in Bangladesh
7.	Lesson 2: Seed generation and seed certification system in Bangladesh
8.	Lesson 3: Field inspection and certification standard of notified crops
9.	Lesson 4: Field counting in rice seed crop
10.	<b>Module - 3: Varietal Development and Maintenance breeding</b>
11.	Lesson 1: Varietal types and methods of their development
12.	Lesson 2: Maintenance of nucleus and breeder seed production of rice
13.	Lesson 3: Variety release and registration procedures in Bangladesh
14.	Lesson 4: Identifying characters of important varieties of notified crops
15.	<b>Module - 4: Seed Multiplication and Processing</b>
16.	Lesson 1: General principles of seed production and review of seed research
17.	Lesson 2: Seed production techniques of open pollinated vegetable crops
18.	Lesson 3: Hybrid seed production technology of important vegetables
19.	Lesson 4: Seed production technology of hybrid rice
20.	Lesson 5: Harvesting and seed extraction methods of different vegetables
21.	Lesson 6: Management principles of major insects of important crops
22.	Lesson 7: Management principles of major diseases of important crops
23.	Lesson 8: Processing and post-harvest technology of seeds
24.	Lesson 9: Seed preservation and storage management
25.	Lesson 10: Control measures of pests in seed storage
26.	<b>Module - 5: Seed Sampling and Quality Testing</b>
27.	Lesson 1: Seed sampling and sample preparation
28.	Lesson 2: Seed sample registration and purity analysis
29.	Lesson 3: Seed moisture content, vigour and viability test
30.	Lesson 4: Seed germination test and seedling evaluation
31.	Lesson 5: Seed health test: Materials and testing procedure
32.	Lesson 6: Seed purity analysis (practical)
33.	Lesson 7: Seed moisture content, vigour and viability test (practical)
34.	Lesson 8: Seed setting for germination test and seedling evaluation (practical)
35.	Lesson 9: Identification of seed borne pathogens of major crops (practical)
36.	<b>Module - 6: Seed Marketing and Seed Business</b>
37.	Lesson 1: Seed marketing: Structure, sales promotional activities, pricing and planning
38.	Lesson 2: Seed enterprises development and seed business
39.	Lesson 3: Supply chain and value chain management in quality seed business
40.	<b>Module - 7: Seed Policy and Seed Legislation/Law</b>
41.	Lesson 1: Overview of the national seed policy and the nursery guidelines
42.	Lesson 2: The seed act, 1918 of Bangladesh
43.	Lesson 3: Salient features of the seed rules
44.	Lesson 4: Overview of the plant quarantine act and rules
45.	Lesson 5: Seed market monitoring and mobile court enforcement
46.	<b>Field visit:</b> Visit to seed organizations/industries/companies.

## List of Resource Speaker

Sl. No.	Name and Designation	Address	Mobile No. & E-mail
1	Dr. M. Moynul Haque Professor & Dean	Faculty of Agriculture BSMRAU, Gazipur	01711908640 moynul60@yahoo.com
2	Dr. Abu Ashraf Khan Professor	Dept. of Plant Pathology BSMRAU, Gazipur	01552479521 ashraf@bsmrau.edu.bd
3	Md. Shahjahan Ali Managing Director (Ret.)	BSFIC & Seed Technologist and Regulation Specialist	01730013391 alliedmsali@yahoo.com
4	Dr. Md. Akhter Hossain Khan CST	Seed Wing, MoA	cst@moa.gov.bd/ dahkhan70@gmail.com 01745041415
5	Md. Farhad Hossain General Manager	Veg. Prodn. & Processing Supreme Seed Co., Dhaka	farhad@supreemeseed.net 01713014174
6	Dr. Nirmol. Kumar Datta, CSO, Entomology Division	.BARI, Gazipur	01794714560
7	Prof. Dr. Md. Abu Ashraf Khan Dept. of Plant Pathology	BSMRAU, Gazipur	01711193457
8	Prof. Dr. Shawpon, Dept. of Entomology	BSMRAU, Gazipur	01711972521
	Dr. Md. Mahmud Hasan Ex. Director (Training)	NATA, Gazipur	01817066613 mahmudhassandae@gmail.com
9	Dr. Md. Jamil Hasan Principal Scientific Officer	Hybrid Division, BRRI, Gazipur	01718289331 tusher_01@yahoo.com
10	Md. Safi PD, SCA	SCA, Gazipur	01710945477
11	Dr. Md. Abu Taher Masud Principal Scientific Officer	HRC, BARI, Gazipur	01708527415 abt_masud@yahoo.com
12	Dr. Md. Ashik Iqbal Principal Scientific Officer	Pathology Division, BRRI, Gazipur	01711146324 ashikjp@gmail.com
13	Dr. Md Shariful Islam DD (Rtd)	DAE, Dhaka	01743051115 kdbsharif@gmail.com
14	Md. Hasan Kabir DD (Rtd)	DAE, Dhaka	01625805717 mhasankabir@yahoo.com
15	Dr. Shukdev Kumar Das, PRL DD (Planning & Evaluation)	SCA, Gazipur	01720078274 shukdeb62@yahoo.com
16	Md. Shahidul Islam Khan Chief Seed Technologist	NST Lab., SCA, Gazipur	01924084994 cst@sca.gov.bd
17	Dr. Md. Harunur Rashid Senior Scientific Officer	GRS Division, BRRI, Gazipur	01718289331 esmhrashid74@gmail.com
18	Dr. Md. Mahfujul Hoque PSO	BWMRI, Gazipur	01716986457
19	Dr. Dellower Hossain DD (Rtd)	DAE, Dhaka	01815597304
20	Dr. Md. Hasanul Kabir Kamali CST, NST Lab.	SCA, Gazipur	01711379231
21	Nilufa Akhtar Deputy Director (Planning & Publication)	NATA, Gazipur	01719174775 nilufaa@yahoo.com
22	Md. Farhad Hossain, GM, Veg. Prodn. & Processing,	Supreme Seed Co.	01713014174
23	Md. Eskandar Hossain DD(Agronomy)	NATA, Gazipur	01938615225
24	Md. Aklimuzzaman Sr. AD	NATA, Gazipur	01719303797 akzaman237@yahoo.com
25	Rabeka Parvin, ADD, SCA	SCA, Gazipur	01742413244
26	Mousumi Paul Sr. AD	NATA, Gazipur	01712680844 mplbcsag31@gmail.com

**National Agriculture Training Academy  
(NATA), Gazipur**

***Training Course on “Seed Technology”***

**Training Schedule**

**Day-1**

**28/11/2021 (Sunday)**

<b>Time</b>	<b>Topic/Session</b>	<b>Speaker/Facilitator</b>
08:45 - 09:00	Registration	Sr.AD, NATA
09:15 - 09:30	Pre-evaluation	Do
09:30 - 09:35	About training norms & formation of PMC	DD (Agronomy), NATA
09:35 - 09:55	Inaugural ceremony	DG/Directors, CC, ACC & Faculty Members
09:55 - 10:55	Seed science and technology: Conceptual issues of seed, seed development physiology and seed quality	Prof. Dr. M. Moynul Haque Depart of Agronomy, BSMRAU, Gazipur
10:55 - 11:15	<b>Tea Break</b>	
11:15 - 12:15	Concept on quality seed, seed dormancy and seed quality enhancement	Prof. Dr. M. Moynul Haque Depart of Agronomy, BSMRAU, Gazipur
12:15 - 01:15	Seed system and status of quality seed in Bangladesh & abroad	Md. Shahjahan Ali, MD (Ret.), BSFIC & Seed Technologist and Regulation Specialist
01:15 - 02:00	<b>Prayer &amp; Lunch</b>	
02:00 - 03:00	General principles of seed production and review & scope of seed research	Prof. Dr. M. Moynul Haque, Faculty of Agriculture, BSMRAU
03:00 - 04:00	Seed quality control mechanism in Bangladesh	Md. Shahjahan Ali, MD (Ret.), BSFIC & Seed Technologist and Regulation Specialist
04:00 - 05:00	Seed classes and seed certification system in Bangladesh	Dr. Md Shariful Islam Ret. DD (LR), DAE, Dhaka

**Day-2**

**29/11/2021 (Monday)**

<b>Time</b>	<b>Topic/Session</b>	<b>Speaker/Facilitator</b>
09:20 - 09:30	Review of previous day	Sr.AD, NATA
09:30 - 10:30	Field inspection of cereal crops and field & seed standard of notified crops	Dr. Md Shariful Islam Ret. DD (LR), DAE, Dhaka
10:30 - 11:00	<b>Tea Break</b>	
11:00 - 12:00	Field counting methods in rice seed crop (practical)	Dr. Md Shariful Islam Ret. DD (LR), DAE, Dhaka
12:00 - 01:00	Variety release and registration mechanism in Bangladesh	Rabeka Parvin, ADD, SCA
01:00 - 02:00	<b>Prayer &amp; Lunch</b>	
02:00 - 03:00	Identifying characters of important varieties of notified crops	Do
03:00 - 05:00	Varietal types, maintenance of nucleus seed and breeder seed production of rice	Dr. Md. Harunur Rashid, SSO GRS Division, BRRI, Gazipur/ Mousumi

**Day-3**

**30/11/2021 (Tuesday)**

<b>Time</b>	<b>Topic/Session</b>	<b>Speaker/Facilitator</b>
09:20 - 09:35	Review of previous day	Sr.AD, NATA
09:35 - 10:35	Seed production technology of hybrid rice	Dr. Md. Jamil Hasan, PSO & Head, Hybrid Division, BRRI, Gazipur
10:35 - 10:55	<b>Tea Break</b>	
11:00 - 12:00	Seed production technology of hybrid maize	Dr. Md. Mahfujul Hoque PSO, BWMRI, Gazipur 01716986457
12:10 - 01:10	Principles of insect pest management in seed production with biorational	Dr. Nirmol. Kumar Datta, CSO Entomology Div. BARI 01794714560
01:10 - 02:30	<b>Prayer &amp; Lunch</b>	
02:30 - 03:30	Management principles of diseases of important seed crops	Prof. Dr. Md. Abu Ashraf Khan Dept. of Plant Pathology, BSMRAU, Gazipur
03:40 - 04:40	Seed health and testing procedure	Do

**Day-4** **01/12/2021 (Wednesday)**

Time	Topic/Session	Speaker/Facilitator
09:20 - 09:35	Review of previous day	Sr.AD, NATA
09:35 - 10:35	Special seed production technology of wheat and jute	Md. Aklimuzzaman, Sr. AD, NATA
10:35 - 10:55	<b>Tea Break</b>	
11:00 - 12:00	Special seed production techniques of important open pollinated vegetables	Dr. Md. Mahmud Hasan Ex. Director (Training), NATA
12:10 - 01:10	Harvesting and seed extraction methods of different vegetables	Dr. Md. Mahmud Hasan Ex. Director (Training), NATA
01:10 - 02:10	<b>Prayer &amp; Lunch</b>	
02:10 - 03:10	Hybrid seed production technology of important vegetables	Dr. Md. Abu Taher Masud PSO, HRC, BARI, Gazipur
03:10 - 04:10	Online seed technology services/apps of different organizations	Mousumi Paul, Sr. AD, NATA

**Day-5** **02/12/2021 (Thursday)**

Time	Topic/Session	Speaker/Facilitator
09:20 - 09:35	Review of previous day	Sr.AD, NATA
09:35 - 10:35	Control measures of pests in seed storage	Prof. Dr. Shawpon, Dept. of Entomology, BSMRAU, Gazipur
10:35 - 10:55	<b>Tea Break</b>	
11:00 - 12:00	Processing and post-harvest technology of seeds	Md. Farhad Hossain, GM, Veg. Prodn. & Processing, Supreme Seed Co.
12:10 - 01:10	Seed preservation and storage management	Do
01:10 - 02:10	<b>Prayer &amp; Lunch</b>	
02:10 - 03:10	Seed sampling and sample preparation for testing	Dr. Md Shariful Islam Ret. DD (LR), DAE, Dhaka
03:10 - 04:10	Seed sample registration and purity analysis	Nilufa Akhtar DD (Planning & Publication), NATA

<b>Day-6</b>	<b>03/12/2021 (Friday): Weekly Holiday</b>
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**Day-7** **04/12/2021 (Saturday)**

Time	Topic/Session	Speaker/Facilitator
09:20 - 09:35	Review of previous day	Sr.AD, NATA
09:35 - 10:35	Seed moisture content, vigor and viability test	Md. Hasan Kabir DD (Ret.), SCA, Gazipur
10:35 - 10:55	<b>Tea Break</b>	
11:00 - 12:00	Seed germination test and seedling evaluation	Do
12:10 - 01:10	Seed marketing: Structure, pricing and planning	Dr. Dellow Hossain Ret. DD, DAE, Dhaka
01:10 - 02:30	<b>Prayer &amp; Lunch</b>	
02:30 - 03:30	Seed enterprises development and seed business	Md. Shahjahan Ali, MD (Ret.), BSFIC & Seed Technologist and Regulation Specialist
03:40 - 04:40	Overview of the seed act and the plant variety protection act	Dr. Md. Akhter Hossain Khan CST, Seed Wing, MoA

**Day-8****05/12/2021 (Sunday)**

<b>Time</b>	<b>Topic/Session</b>	<b>Speaker/Facilitator</b>
09:00 - 10:00	Visit to seed processing centre, BADC, Gazipur	Representative Officers, BADC
10:00- 10:20	<b>Tea Break</b>	
10:50 - 01:00	Visit to R & D Farm, Lal Teer Seed Ltd., Bason, Gazipur	Representative Officers, LTSL
01:00 - 02:00	<b>Prayer &amp; Lunch</b>	
02:00 - 03:00	Visit to R & D Farm, Lal Teer Seed Ltd., Bason, Gazipur	Do
03:30 - 04:30	Preparation and presentation on visit (individual/group)	All participants

**Day-9****06/12/2021 (Monday)**

<b>Time</b>	<b>Topic/Session</b>	<b>Speaker/Facilitator</b>
09:20 - 09:35	Review of previous day	Sr.AD, NATA
09:35-10:35	Seed purity analysis (practical)	Dr. Md. Hasanul Kabir Kamali CST, NST Lab., SCA, Gazipur
10:35 - 10:55	<b>Tea Break</b>	
*11:00 - 12:00	Seed moisture content, vigour and viability test (practical)	Do
12:10 - 01:10	Seed setting for germination test and seedling evaluation (practical)	Do
01:10 - 02:30	<b>Prayer &amp; Lunch</b>	
02:30 - 03:30	Identification of seed borne pathogens of major crops (practical)	Dr. Md. Ashik Iqbal, PSO, BRRI, Gazipur
03:40 - 04:40	Salient features of the seed rules, 2020	Md. Safi, PD , SCA, Gazipur

**Day-10****07/12/2021 (Tuesday)**

<b>Time</b>	<b>Topic/Session</b>	<b>Speaker/Facilitator</b>
09:00 - 10:00	Overview of the Plant Quarantine Act and the nursery guidelines	Md. Eskandar Hossain DD(Agronomy),NATA
10:05 - 11:05	Seed market monitoring and mobile court enforcement	Dr. Shukdev Kumar Das, DD (Planning & Evaluation), SCA, Gazipur.
11:05 - 11:30	<b>Tea Break</b>	
11:30 - 12:30	Presentation on group assignment/visit	Sr. AD, NATA
12:30 - 01:15	Presentation on group assignment/visit	DG/Directors, CC and ACC
01:15 - 02:15	<b>Prayer &amp; Lunch</b>	
02:15- 03:30	Post-evaluation test and course evaluation	Course Coordinator and ACC
03:30- 04:30	Closing Ceremony	DG/Directors, CC, ACC & Faculty Members

\*This schedule is subject to change.

**Md. Eskandar Hossain**  
**DD (Agronomy)**  
**&**  
**Course Coordinator**  
**NATA, Gazipur.**

## NATA FACULTY MEMBERS

Photo	Name & Designation	Phone/Cell/ E-mail
	Dr. A K M Najmul Haque Director General (In-charge)	02-49272104 01819277114 <a href="mailto:dgnata14@gmail.com">dgnata14@gmail.com</a>
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	Md. Eskandar Hossain Deputy Director (Agronomy)	01938-615225 eskandarhossain@yahoo.com
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	<p>Shamsun Nahar Senior Assistant Director (Field Crop Diseases)</p>	<p>01717-376172 shamsun27@gmail.com</p>
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