



GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH

REPORT OF THE

MARTIAL LAW COMMITTEE

ON ORGANISATIONAL SET UP

PHASE II

(DEPARTMENTS DIRECTORATES AND OTHER

ORGANISATIONS UNDER THEM)

VOLUME VII

(MINISTRY OF AGRICULTURE)

PART 1

(AGRICULTURE AND FOREST DIVISION)

CHAPTER IV

(SEED CERTIFICATION AGENCY)

July, 1982

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
CHIEF MARTIAL LAW ADMINISTRATOR'S SECRETARIAT

Martial law and Civil Wing

No.7002/1/Civ-/1,dated Dhaka, the..... 8.12.82.....1983

NOTIFICATION

SUBJECT: Organizational Set Up- Ministries/divisions, Departments and other organisations under them.

Reference:

- A. Chief Martial Law Administrator's Secretariat letter No. 7005/1/Civ/CMLA, dated 18 April, 1982.
- B. Chief Martial Law Administrator's Secretariat letter No. 7002/1/Civ-1, dated 12 July, 1982.

The report of the Martial Law Committee on organisational set up of the Seed Certification Agency, Agriculture and Forest Division, Ministry of Agriculture was submitted to the Chief Martial Law Administrator after consideration by the Review Committee in consultation with the representative of the organisation concerned.

The Chief Martial Law Administrator is pleased to approve the report and the revised organisational set up as printed in this booklet.

By order of the
Chief Martial Law Administrator

sign-

MUZAMMEL HUSSAIN
MAJOR GENERAL
Principal Staff Officer.

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PHASE II, VOLUME VII

PART I, CHAPTER IV

SEED CERTIFICATION AGENCY (AGRICULTURE AND FOREST DIVISION, MINISTRY OF AGRICULTURE)

INTRODUCTION:

1. Created in 1974, the Seed Certification Agency has been working for the last 8 years with the objective of ensuring supply of good quality and high-yielding variety of seeds of different crops. With a Director at the top the Agency with a total number of 208 sanctioned posts out of Development Budget head has at present been temporarily accommodated in a hired house at Testuri Bazar. In about a couple of months it will be shifting to Joydevpur. The organisation was created in pursuance of a Project Proforma duly approved by the Planning Commission in 1974 and continued to be paid from the head 64-Dev. (Agriculture) and 71-Capital outlay on agricultural improvement and research upto 1981-82 and from this year it will be financed from revenue budget. The Seeds Ordinance, promulgated in 1977 and the rules framed there under, give the outlines of its functions.

ALLOCATION OF FUNCTIONS:

2. The Business allocated to the Seed Certification Agency are given below:-
- a. Certifying seeds of any notified kind or variety.
 - b. Outlining the procedure for carrying, processing, storage and labeling of seeds intended for certification and ensuring that the seed lots are true to the variety and conform at least to the minimum limits of germination and purity standards.
 - c. Maintaining a list of varieties of seeds released by the National Seed Board.
 - d. Inspecting of seed processing plants to see that the admixtures and other kind of varieties are not introduced.
 - e. Designing programme to promote production of quality seeds at farmer's level.
 - f. Inspecting fields to ensure that minimum standards for isolation, weeds, varietal mixtures, seed-borne diseases, etc, are followed and maintained.
 - g. Issuing certificates in respect of minimum standards of purity and germination after necessary testing of the seeds in the laboratories.

EXISTING ORGANISATION:

3. Though the Seed Certification Agency has a sanctioned strength of 208 posts, it has actually only 123 posts filled up, with 85 posts lying vacant. Out of the 208 posts, 53 posts are in class I, 2 in class II, 69 in class III and 85 in class IV. Government orders sanctioning the posts have been examined. The Agency works under the guidance of the National Seed Board consisting of 15 *ex-officio* members with the Secretary,

Agriculture and Forest Division, as its *ex-officio* Chairman. Under a Director and a Principal Seed Certification Officer the Agency has 2 broad wings, viz, the Laboratory Wing and the Field Wing.

4. The existing organisation chart is given in Annexure 'A'.

CHARTER OF DUTIES:

5. The revised charter of duties of different officers is given in Annexure 'B'.

WORK-LOAD:

6. The jobs of the Seed Certification Agency is basically experimental in nature and as is inherent in all experimental jobs, the load of works of an office like this can hardly be measured with the help of number of files or correspondences. Be that as it may, in 1976, the Agency had 153 files, which rose to 325 in 1981, indicating a growth of 112%. The number of correspondences, both incoming and outgoing, was 10,984 in 1979 and 10,923 in 1981. During the year 1981-82 alone, the Agency supervised about 43,000 acres of different kinds of seed crops, providing about 3,50,000 maunds of seeds. During the said period, it certified 3,30,000 maunds of seeds.

OTHER DETAILS:

7. **Officers** : State of Class I officers is given in Annexure 'C'.

8. **Transport** : State of transport is given in Annexure 'D'.

OVSERVATIONS AND RECOMMENDATIONS:

9. **Independent Existence:** The close relationship between seeds and agriculture gives rise to a feeling that the Seed Certification Agency should merge with the main Department of Agriculture. But one of the conditions imposed by the donor agency *i.c.* the World Bank, is that the Seed Certification Agency should work independent of control by any other Department. Coupled with this is the fact that a regulatory body should not be part and parcel of any organisation on whose activities restrictions have to be imposed. In this view of the matter, the Seed Certification Agency should be allowed to work independently.

10. **Redesignation of post** : The Ordinance provides for posts of 'Seed Inspector', while the Agency has created posts of 'Field Officers'. This is likely to lead to complications. The Committee, Therefore, recommends that the post of 'Field Officers' be redesignated as posts of 'Seed Inspectors' as provided in the relevant Ordinance.

11. **Reorganisation** : It has been seen that against a sanctioned strength of 208 posts, the Agency has only 123 posts filled up. Despite pressing need the Agency has not yet been able to fill up the remaining posts in the face of a ban on recruitments at the moment. The different units of work is so spread in the country that it appears to have the barest minimum of requirement.

After discussion with the Director it appears that the posts of Librarian and Photographer may be dispensed with.

12. The revised organisation chart is given in Annexure 'E'.

13. **Office Equipments :** The head office of the Agency has 1×Duplicating Machine, 1×Tag Printing Machine and 10×Typewriters, which may be retained.

14. **Transports :** The Agency has 7×Transports,-2 at Dacca and 5 in different areas of the country. It may retain all the transports.

CONCLUSION:

15. The revised organisation will have a reduction of only 2 posts.

ANNEXURE 'B'
Phase II, Volume VII
Part I, Chapter IV

REVISED CHARTER OF DUTIES

**(Seed Certification Agency, Agriculture and
Forest Division, Ministry of Agriculture)**

1. To act as administrative head and is responsible for overall administration of the Department.
2. To act as an adviser to the administrative Ministry on technical matters and on formulation of policies concerning the Department.
3. To act as Principal Accounting Officer of the Department within the budget provision.
4. To be responsible for the administration and execution of function of the Department as per Acts, ordinances, Rules and Regulations and directives issued by the Government from time to time.
5. To be responsible for proper functioning and discipline of the Department.
6. To provide executive and operational guidance to the field staff and exercise control and supervision over them.
7. To be responsible for appointing Class II, III and IV employees of the Department as per existing procedure.
8. To be responsible for issuing clear Standing Orders laying down the maximum extent of delegation of powers to the officers serving under him.
9. To control and supervise the work of the Department.
10. To represent the Department and where personal representation is not possible to select representative on his behalf.
11. To grant earned leave etc. to all Class I Officers under him.
12. To meet all officers under him located in the same station once in a month to review cases pending for disposal for over a month.
13. To inspect his office at least once in a month and field offices at least once in a quarter in addition to annual inspection.
14. To allocate duties of officers as and when required.
15. Ensure revenue collection where applicable and safe guard Government property under his charge.
16. To be responsible for maintaining proper security measures of the Department.
17. Any other duties assigned by the Government.

Principal Seed Certification Officer (P. S. C. O.).

1. To assist the Director, Seed Certification Agency for all works of Seed Certification Agency and administer all rules and regulations of Seed Act.
2. To work very closely with Principal Field Control Officer, Chief Seed Technologist and Quality Control Officer in all matters relating to field inspection and seed testing for ultimate decision of accepting or rejecting a field crop or a lot of seeds.
3. To examine the tour programme and tour diary of BAS-I and BHAS officers.
4. For other business assigned by the authority.

Chief Seed Technologist (C.S.T.)

1. To arrange the testing of seeds of rice, wheat, jute etc. according to Seed Rules and Act.
2. To supervise the functions and performance of Agronomist and Seed Analysts and other staff of Seed Testing Laboratory for testing of seeds as Chief of the National Seed Testing Laboratory.
3. To develop different systems of compilation of seed testing results and arranges training of the Laboratory Staff so that they can perform their jobs smoothly.
4. Immediately after testing the seed, arrange to communicate the results to the seed producing organization keeping the record of the same at the Head Quarter.

Agronomist.

1. Responsible to guide seed testing and evaluate results in Ishurdi Seed Testing Laboratory in consultation with the PSCO and CST when needed and communicate the results to concerned agencies.

Seed Analyst (SA);

1. As per direction of Chief Seed Technologist and Agronomist he tests the Seed sample and evaluate the results according to seed rules and he next prepares the report of the test results and maintains all relevant documents, seed samples and information.

Quality Control Officer (QCO);

1. To Work as assistant to the Principal Seed Certification Officer.
2. Together with Principal Seed Certification Officer will arrange preparation and supplying of certification tags to the Regional Field Officers for ultimate tagging of those in the sealed container/bag of Seed production organisations like Bangladesh Agriculture Development Corporation and Bangladesh Jute Research Institute.

Market Promotion Officer (M.P.O.).

1. To collect information from market and field regarding the demand of local seeds and quality seeds, area covered by local and HYV seeds, price of seeds, etc.

2. Responsible for collection of necessary particulars from the field offices in respect of production and use of improved seed by the Bangladesh Agriculture Development Corporation and Bangladesh Jute Research Institute.
3. Responsible for compilation of annual reports, progress reports and different kinds of reports on budgeting, planning and ensures action on directives.
4. Responsible for checking tour diaries of Field Officers.

Senior Training Officer (S.T.O.).

1. To take care of all matters in respect of seed health tests so that in future he can work and guide the activities of that section in the laboratory.
2. Being acquainted himself with all rules, regulations, procedures and functions of Seed Certification Agency he will arrange training in Bangladesh and abroad of the Seed Certification Agency personnel as per discussion with Director and Principal Seed Certification Officer.
3. Responsible for issuance of stationery articles from the store.
4. He is responsible for maintaining close contact with the Agriculture Information Service, Government Press and the Radio Bangladesh for publication and publicity of Seed Certification matters.

Publication Officer (P.O.).

1. Responsible for all sorts of publication of Seed Certification Agency under the guidance of Senior Training Officer and Market Promotion Officer.
2. He keeps liaison with the farm broadcasting programme of Radio Bangladesh in consultation with STO and MPO.

Administrative Officer (AO):

1. Responsible to the Director, Seed Certification Agency through the Principal Seed Certification Officer for timely action on letters and directives received, sanction of posts and funds, allocation of fund to field officers budgeting, guiding the office staff for timely attendance, maintaining of office records and discipline.

Principal Field Control Officer (P.F.C.O.):

1. Responsible for functioning of the Field Wing in consultation with the Principal Seed Certification Officer.
2. As drawing and disbursing officer is responsible to the Director, Seed Certification Agency.
3. To look after the maintenance and repairing of office vehicles and all sorts of purchases of the office articles being assisted by administrative officer.
4. To act as a member of the Evaluation Committee constituted by the National Seed Board.

Regional Field Officer (R.F.O):

1. To supervise, advise and co-ordinate the work of Field Officers of his region.
2. To extend all facilities to the Field Officers of his region to perform their jobs.
3. To train his Field Officers on the technique of field inspection and drawing of seed sample.
4. To personally inspect necessary crop fields of his region.

Field Officer (F.O):

1. On receipt of application/invitation from seed growers, he inspects the seed plots of rice, wheat and jute twice or thrice in the growing season of the crop. His inspection refers to identification of the varietal admixtures of the crops, admixture by other crop plants; infestation of the crop by weeds and diseases.
2. To keep on watching the seeds when those are harvested, processed and stored by the growers.
3. To accept or reject the seed crop of any grower on the basis of his field inspection and the laboratory test of the seed sample when necessary.
4. The seeds which are acceptable for certification are bagged and tagged under his supervision.

Sample Collection Officer (S. C. O):

1. To draw seed samples from seed grower's storage and arranges to send those to Seed Testing Laboratory for testing the purity, germination etc. of the seed.
2. To maintain portions of collected seed samples for future reference.
3. Being posted at the office of Regional Field Officer, he assists him in some of his official works, as required.

**Annexure ‘C’
Phase II, Volume VII
Part II, Chapter V**

**SEED CERTIFICATION AGENCY, AGRICULTURE AND FOREST DIVISION,
MINISTRY OF AGRICULTURE
STATE OF CLASS I OFFICERS.**

Sl. No.	Name of the Officer (Class-1)	Designation	Date of birth.	Date of appointment as Class-1 Officer	Date of joining in the Present post.	Remarks
1	2	3	4	5	6	7
1	Dr. Amir Uddin Ahmed	Director	1-12-1926	23-12-1960	12-12-1979	
2.	Mr. M. A. Quddus	Principal Seed Certification Officer.	1-1-1935	20-4-1968	10-10-1980	
3.	Mr. K. A. M. M. Farhaduddin	Principal Field Control Officer.	15-11-1935	1-12-1969	1-9-1978	
4.	Mr. Matilal Banik	Market Promotion Officer.	1-3-1945	1-7-1973	7-8-1979	
5.	Mr. Abdul Karim	Sr. Training Officer.	1-7-1944	1-7-1973	23-5-1978	
6.	Md. Abu Isa	Quality Control Officer.	1-2-1948	1-7-1973	31-10-1977	
7.	Mr. M. A. Matin Talukder	Regional Field Officer, Jessore.	1-3-1945	1-7-1973	20-10-1980	
8.	Mr. Md. S. M. Akramuzzaman Khan	Regional Field Officer, Chittagong	1-12-1947	1-7-1973	7-8-1978	
9.	Mr. Md. Moniruddin Khan	Regional Field Officer, Dacca.	12-1-1945	1-7-1973	27-10-1980	
10.	Mr. Md. Abdul Baten	Regional Field Officer, Bogra.	1-7-1948	1-7-1973	16-10-1980	
11.	Mr. Md. Golam Rasul	Agronomist.	1-2-1939	1-7-1973	16-10-1980	
12.	Mr. Md. Abul Basher	Field Officer, Manikganj.	13-1-1953	28-5-1976	7-6-1982	
13.	Mr. Md. Ayaul Hoqus	Field Officer, (Mymensingh)	8-4-1952	1-6-1976	24-10-1981	
14.	Mr. Md. Akhter Hossain Sar.	Field Officer, (RFO's Office) Bogra.	23-12-1951	7-4-1976	27-10-1981	
15.	Mr. Md. Abdus Satter	Seed Analyst, Ishurdi.	31-1-1949	6-10-1976	5-12-1977	
16.	Mr. Md. Humayon Kabir	Sample Collection Officer, Chittagong.	14-11-1952	30-12-1976	7-6-1982	

Sl. No.	Name of the Officer (Class-1)	Designation	Date of birth.	Date of appointment as Class-1 Officer	Date of joining in the Present post.	Remarks
1	2	3	4	5	6	7
17.	Mr. Md. Dewan Naser Ahmed	Field Officer, Rajshahi.	1-3-1954	1-1-1977	11-4-1981	
18.	Mr. A. K. M. Belayutul Alam	Sample Collection Officer, Dacca.	3-7-1952	1-1-1977	6-5-1980	
19.	Mr. Md. Tofazzal Hossain	Field Officer, Kushtia.	1-1-1954	1-1-1977	31-5-1982	
20.	Mr. Md. Shahabuddin	Field Officer, Rajbari.	24-6-1952	1-1-1977	2-6-1982	
21.	Mr. Md. Bazlul Hoq Miah	Field Officer, Jhenaidah.	1-3-1954	1-1-1977	17-1-1977	
22.	Mr. Md. Abdul Latif	Field Officer, Thakurgaon	7-8-1954	1-1-1977	17-1-1977	
23.	Mr. Md. Matiur Rahman	Field Officer, Meherpur.	1-1-1955	1-1-1977	1-12-1977	
24.	Mr. Md. A. Rahim Howlader	Seed Analyst, Joydebpur.	1-1-1954	3-1-1977	13-11-1981	
25.	Mr. Md. Delwar Hossain	Seed Analyst, Ishurdi.	30-1-1953	3-1-1977	6-11-1981	
26.	Mr. Nanda Kumar Sarker	Publication Officer, (H.Q.)	30-9-1951	3-1-1977	3-1-1977	
27.	Mr. Mukul Chandra Roy	Field Officer, Itakhula.	1-1-1955	4-1-1977	6-5-1980	
28.	Mr. Md. Abdul Alim Tarafder	Sample Collection Officer, Jessore.	1-3-1952	5-1-1977	11-4-1979	
29.	Mr. Md. Abdul Jalil	Field Officer, Madhupur.	5-2-1954	5-1-1977	31-5-1982	
30.	Mr. Md. K. M. Lokman	Field Officer, Chittagong	11-4-1952	7-1-1977	20-7-1978	
31.	Mr. Brish Nath Nag	Field Officer, Feni	30-9-1954	7-1-1977	23-1-1980	
32.	Mr. Md. Azizul Hoque	Field Officer, Tangail.	2-1-1954	8-1-1977	24-10-1981	
33.	Mr. Md. Abdullah Mollah	Field Officer, Dinajpur.	10-11-1952	10-1-1977	17-1-1977	
34.	Mr. Md. Ruhul Amin	Seed Analyst, Ishurdi.	10-1-1950	10-1-1977	23-1-1980	
35.	Mr. Md. Quayum Miah	Field Officer, B.Barua.	1-6-1953	10-1-1977	1-10-1977	

Sl. No.	Name of the Officer (Class-1)	Designation	Date of birth.	Date of appointment as Class-1 Officer	Date of joining in the Present post.	Remarks
1	2	3	4	5	6	7
36.	Mr. Md. Rustam Ali Mondal	Field Officer, Jibannagar.	31-12-1952	10-1-1977	17-1-1977	
37.	Mr. Md. A. H. Iqbal Ahmed	Field Officer, Rangpur.	31-12-1954	15-1-1977	17-1-1977	
38.	Mr. Md. Abdul Awal Mollah	Field Officer, RFO's office, Dacca.	1-1-1953	17-1-1977	20-10-1981	
39.	Mr. Md. Shamsul Alam Pro.	Field Officer, Nilphamari.	10-1-1953	26-1-1977	12-11-1977	
40.	Mr. Md. Sakawat Hossain	Seed Analyst, Ishurdi.	24-6-1952	27-1-1977	7-7-1978	
41.	Mr. Md. Liseuddin	Field Officer, Patia	4-1-1954	26-2-1977	22-3-1977	
42.	Mr. Md. Mazedur Rahman Ch.	Field Officer Cox's Bazar.	1-8-1952	28-2-1977	20-10-1981	
43.	Mr. Md. Mohsin Ali	Field Officer, Ullapara.	1-6-1952	7-3-1977	30-1-1979	

44.	Mr. Md. Mofazzal Hossain Dewan	Field Officer (H.Q.)	6-1-1954	23-9-1977	13-11-1981	
45.	Mr. Arun Kumar Biswash	Field Officer, Chapainawabganj-1.	19-9-1953	14-4-1979	21-11-1979	
46	Mr. Md. Mozammal Hoq	Field Officer, Shirajgonj	1-1-1955	29-11-1979	23-1-1980	
47	Mr. Anil Kumar Pal	Field Officer, Jessore	19-6-1955	29-11-1979	2-6-1982	
48	Mr. Md. Abdul Hannan	Field Officer, Chapainawabganj-2	8-12-1952	7-12-1979	23-1-1980	
49	Mr. Shaha Lazmi Kanti	Field Officer, Jessore	14-9-1953	5-5-1980	26-5-1980	
50	Mr. Fanindra Kumar Shah	Sample Collection Officer, Bogra	26-1-1954	6-1-1981	6-1-1981	

Director
Seed Certification Agency

**Annexure ‘D’
Phase II, Volume VII
Part I, Chapter V**

**REVISED CHARTER OF DUTIES
(Seed Certification Agency, Agriculture and Forest Division, Ministry of Agriculture)
State of Transport**

Sl. No.	Registration No.	Type of vehicle	Serviceability	User.	Source,	Detail of whole time use. if any.	Remarks
1	2	3	4	5	6	7	8
1	DACCA-8843	GA (Car)	Running	Director and other officers and occasionally some staff.	Purchased	Part-time	Used for official duties.
2	DACCA-1074	CHA (Microbus)	Do.	Principal Seed Certification Officer, other officers and occasionally some staff.	Do.	Do.	Do.
3	CTG-2365	KHA (Jeep)	Do.	Regional Field Officer, Bogra and other officers and staff.	Do.	Do.	Do.
4	DACCA-6059	GA (Jeep)	Do.	Regional Field Officer, Dacca and other officers and staff.	Do.	Do.	Do.
5	DACCA-8681	GA (Jeep)	Do.	Regional Field Officer, Jessore and other officers and staff.	Do.	Do.	Do.
6	DACCA-8695	GA (Jeep)	Do.	Regional Field Officer, Chittagong and other officers and staff.	Do.	Do.	Do.
7	DACCA-1589	CHA (Land Rover)	Do.	Agronomist and other officers and staff.	Do.	Do.	Do.

(DR. A. AHMED)
Director
Seed Certification Agency.

B.G.P-82-83-2615 D-100-13-9-82

Important Plant Disorders in Bangladesh: Distribution and Effect

'000'

Crop Plant: Black pepper (Piper nigrum)

ha (approx.) 0.01

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
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PATHOGENS

Fungi:

<u>Colletotrichum</u> sp.	Anthracnose	1	2
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Bacteria:

Viruses and MLO:

Algae:

<u>Cephaleuros parasitica</u> Kar	Leaf spot	1	2
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Nematodes:

Insects:

Mites:

Weeds:

<u>Alternanthera sessilis</u> (R.) BC.		2	2
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<u>Cynodon dactylon</u> L. Pers.		2	2
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<u>Cyperus esculentus</u> L.		2	3
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<u>Cyperus rotundus</u> L.		2	3
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<u>Dactyloctenium aegyptium</u> (L.) Beauv.		2	2
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<u>Setaria glauca</u> (L.) P.B		2	1
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<u>Imperata cylindrica</u> (L.) Reusch		1	3
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-
- Seed-borne disorder

X)	XX)
1 - rare	1 - little
2 - common	2 - moderate
3 - very widespread	3 - great

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
PATHOGENS			
<u>Insects:</u>			
<u>Aqrotis ipailon</u> (Hfn.)		3	
<u>Alcides collaris</u> P.		2	
● <u>Callosobruchus chinensis</u> (L.)		3	
<u>Heliothis orniqera</u> (Nubner)		3	
(- <u>Heliothis obsleta</u> Fb.)			
(- <u>Helicoverpa amigera</u> Hb.)			
<u>Mites:</u>			
<u>Weeds:</u>			
● <u>Argemona mexicana</u> L.		2	
● <u>Avena fatua</u> L.		1	
● <u>Chenopodium album</u> L.		2	
<u>Cynodon dactylon</u> (L.) Pers.		2	
<u>Cyperus rotundus</u> L.		2	
<u>Hedytis corymbosa</u> (L.) Lam		2	
● <u>Ipomoea pes-tiqridis</u> L.		1	
<u>Phyllenthus amarus</u> Schum & Thonn.		1	
<u>Solanum nigrum</u> L.		2	
<u>Vicia Hirsuta</u> (L.) S.F. Groy		2	
<u>Vicia sativa</u> L.		2	

- Seed-borne disorder

X)

- 1 - rare
- 2 - common
- 3 - very widespread

XX)

- 1 - little
- 2 - moderate
- 3 - great

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
PATHOGENS			
<u>Bacteria:</u>			
Mycoplasma	Bushy stunt	3	
<u>Varuses and MLO:</u>			
<u>Algae:</u>			
<u>Nematodes:</u>			
<u>Insects:</u>			
<u>Aphis medicaqinis</u> K.		3	
● <u>Callosobruchus chinensis</u> (L.)		3	
<u>Megalurothrips usitatus</u> (Bagnall)		2	
<u>Thrips nigropilosus</u> (Uzel)		2	
<u>Mites:</u>			
<u>Weeds:</u>			
<u>Amaranthus viridis</u> L.		2	
● <u>Chenopodium album</u> L.		3	
<u>Cynodon dactylon</u> (L.) Pers.		2	
<u>Cyperus rotundus</u> L.		1	
● <u>Ipomoea triloba</u> L.		3	
<u>Phyllanthus niruri</u> L.		1	
<u>Solanum nigrum</u> L.		2	
● <u>Vicia hirsuta</u> (L.) S.F. Gray		3	
● <u>Vicia sativa</u> L.		3	

- Seed-borne disorder
- | | |
|---------------------|--------------|
| X) | XX) |
| 1 - rare | 1 - little |
| 2 - common | 2 - moderate |
| 3 - very widespread | 3 - great |

Important Plant Disorders in Bangladesh: Distribution and EffectCrop Plant: Maize (Zea mays)

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
<u>Meloidogyne incognita</u> (Kofoid & White)Chitwood)	Root knot	2	
Syn. <u>M. incognita</u> var. <u>acrita</u> Chitwood			
<u>M. javanica</u> (Trueb) Chitwood	Root knot	2	
Syn. <u>M. javanica bauruensis</u> Lordello			
<u>Pratylenchus zeae</u> <u>Graham</u>	Root lesion	2	
<u>Trichodorus</u> sp.	Stubby root	2	
<u>Tylenchorh ynchus</u> sp.	Stunting	2	
<u>Xiphinema</u> spp.	Root injury	1	
<u>Insects:</u>			
* <u>Cathartus adveno</u> (Linneeus)		1	
<u>Laemophlocus minutus</u>			
* <u>Rhiopertha dominica</u> (Fabricius)		2	
<u>Sesamia uniformis</u> W.		1	
* <u>Sitophilus orqzae</u> (L.)		3	
* <u>Sitophilus zeamais</u> Motsch		2	
Syn. <u>Calandra zeamais</u> M.			
* <u>Sitotroga cerealella</u> (Oliuer)		2	
* <u>Trogoderma granarium</u> (Everts)		2	
<u>Mites:</u>			
<u>Weeds:</u>			
<u>Alternanthera sessilis</u> (L.) DC.		2	
<u>Amaranthus spinosus</u> L.		1	
<u>Amaranthus viridis</u> L.		1	
<u>Cynodon dactylon</u> (L.) Pers.		2	
<u>Dactyloctenium aegyptium</u> (L.) Beauv.		2	
<u>Echinochlon colona</u> (L.) Link		2	
<u>Eleusine indica</u> (L.) Gaertn.		1	
<u>Phyllanthus niruri</u> L.		1	
<u>Solanum nigrum</u> L.		2	

- Seed-borne disorder

X)	XX)
1 - rare	1 - little
2 - common	2 - moderate
3 - very widespread	3 - grea

Important Plant Disorders in Bangladesh: Distribution and Effect
Crop Plant: Maize (*Zea mays*)

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
<u>Meloidogyne incognita</u> (Kofoid & White)Chitwood)	Root knot	2	
Syn. <u>M. incognita</u> var. <u>acrita</u> Chitwood			
<u>M. javanica</u> (Trueb) Chitwood	Root knot	2	
Syn. <u>M. javanica bauruensis</u> Lordello			
<u>Pratylenchus zeae</u> <u>Graham</u>	Root lesion	2	
<u>Trichodorus</u> sp.	Stubby root	2	
<u>Tylenchorh ynchus</u> sp.	Stunting	2	
<u>Xiphinema</u> spp.	Root injury	1	
Insects:			
* <u>Cathartus adveno</u> (Linneus)		1	
<u>Laemophlocus minutus</u>			
* <u>Rhiropertha dominica</u> (Fabricius)		2	
<u>Sesamia uniformis</u> W.		1	
* <u>Sitophilus orqzae</u> (L.)		3	
* <u>Sitophilus zeamais</u> Motsch		2	
Syn. <u>Calandra zeamais</u> M.			
* <u>Sitotroga cerealella</u> (Oliuer)		2	
* <u>Trogoderma granarium</u> (Everts)		2	
Mites:			
Weeds:			
<u>Alternanthera sessilis</u> (L.) DC.		2	
<u>Amaranthus spinosus</u> L.		1	
<u>Amaranthus viridis</u> L.		1	
<u>Cynodon dactylon</u> (L.) Pers.		2	
<u>Dactyloctenium aegyptium</u> (L.) Beauv.		2	
<u>Echinochlon colona</u> (L.) Link		2	
<u>Eleusine indica</u> (L.) Gaertn.		1	
<u>Phyllanthus niruri</u> L.		1	
<u>Solanum nigrum</u> L.		2	

- Seed-borne disorder

X)	XX)
1 - rare	1 - little
2 - common	2 - moderate
3 - very widespread	3 - great

Important Plant Disorders in Bangladesh: Distribution and Effect

Crop Plant: Pea (Pisum sativum)

**'000'
ha (approx.) 19.85**

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
PATHOGENS			
<u>Fungi:</u>			
* <u>Ascochyta pisi</u> Lib.	Leaf & pod spot	2	1
* <u>Erysiphe polygoni</u> DC.	Olight	3	2
<u>Fusarium oxysporum</u>	Foot & root rot	1	2
<u>Peronospora viciue</u> (Berk.) de Bary.	Sowny mildew	1	1
<u>Sclerotium rotfsii</u>	Foot & root rot	2	2
<u>Uromyees fabae</u> (Pers.) de Bary.	Rust	2	1
<u>Bacteria:</u>			
Mycoplasma			
<u>Viruses and MLO:</u>			
<u>Algae:</u>			
<u>Nematodes:</u>			
<u>Melicotylenchus dihystra</u> (Cobb) Sher.	Stunting	2	2
Syn. <u>M. cronstus</u> Das.			
<u>Meloidogyne incognita</u> (Kofoid & White)	Root knot	2	2
Syn. <u>M. incognita</u> var. <u>acrita</u> Chitwood			
<u>Pratylenchus</u> sp.	Lesion	2	2
<u>Insects:</u>			
<u>Aphis craccivora</u> K.		2	3
* <u>Srachus pisorum</u> (L.)		3	3
* <u>Callosobruchus chene is</u> (L.)		3	3
<u>Clavigralla horrens</u> D.		2	3
<u>Mites:</u>			
<u>Weeds:</u>			
<u>Cynodon dactylon</u> (L.) Pers.		2	2
<u>Cyperus esculentus</u> L.		1	2
<u>Cyperus rotundus</u> L.		2	3

Important Plant Disorders in Bangladesh: Distribution and Effect

Crop Plant: Pea (Pisum sativum)

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
<u>Digitaria sanguinalis</u> (L.) Seep.		1	1
<u>Euphorbia hirta</u> L.		2	2
<u>Setaria glauca</u> (L.) P. B.		2	2
<u>Setaria viridis</u> (L.) P. B.		2	1
<u>Vicia hirsuta</u> (L.) S.F. Gray		2	1
<u>Vicia sativa</u> L.		2	1

- Seed-borne disorder

X)

1 - rare

2 - common

3 - very widespread

XX)

1 - little

2 - moderate

3 - great

Danida**Questionnaire 2****Important Plant Disorders in Bangladesh: Distribution and Effect**

‘000’

Crop Plant: Rice (*Oryza sativa*)

ha (approx.) 103

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
PATHOGENS			
Fungi:			
* <u>Alternaria longissima</u>	Grain Dis-colouration	1	
* <u>Alternaria padwickii</u>	Stack burn, pink kernel	2	
* <u>Alternaria tenuis</u>	Grain dis-colouration	1	
* <u>Alternaria sp.</u>			
* <u>Aspergillus candidus</u>	Germination reduction and Grain discolouration	1	
* <u>Aspergillus clavatonanica</u>		1	
* <u>Aspergillus flavus-oryzae</u>		2	
* <u>Aspergillus nidulans</u>		1	
* <u>Aspergillus ruber</u>		2	
* <u>Aspergillus suldhurens</u>		1	
* <u>Aspergillus sydowii</u>		1	
* <u>Bipolaris oryzae</u> (Breda de Haan) Shoem	Brown spot	3	
(Syn. <u>Drechslera oryzae</u> (Van Breda) de Haan) Subramanian & Jain)			
* <u>Cercospora janseans</u> (Racib.) O. Const.	Narrow brown	2	
(Syn. <u>Corcospora oryzae</u> Miyake)	leaf spot		
* <u>Cladosporium cladosporioides</u>	Grain spot	1	
* <u>Cladosporium sp.</u>			
* <u>Curvularia lunata</u>	Grain spot	2	
* <u>Curvularia oryzae</u>	Grain dis-colouration	1	
* <u>Curvularia sp.</u>		1	
* <u>Epicocoum purpurescens</u>	Grain dis-colouration	1	
* <u>Fusarium moniliforme</u> Sheld.	Bakanae	3	
* <u>Fusarium oxysporum</u>	Germination dailure	1	
* <u>Fusarium semitectum</u>		1	

* <u>Microdochium oryzae</u> (Hashioka & Yokogi) Samucls & Hallett.	Leaf scald	2	
(Syn. <u>Gerlachia oryzae</u> (Hashioka & Yokogi)W. Gams			
(<u>Phynchosporium oryzae</u> (Hasshioka & Yokogi)			

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
<u>PATHOGENS</u>			
<u>Weeds:</u>			
<u>Monochoria hastata</u> Solm.		2	
* <u>Monochoria vaginalis</u> (Burm. f.) Presl		3	
<u>Oryza rufipogon</u> Griff.		2	
* <u>Phyllanthus amarus</u> Schum. & Th. Kongl		2	
* <u>Paspalum commersond</u> Lam.		2	
* <u>Paspalum distichum</u> L.		3	3
<u>Parapholis incurva</u> (Linn)		1	1
<u>Sporobolus diander</u> (Retz.) P. B.		1	1
* <u>Setaria glauca</u> (L.) P. B.		2	2
* <u>Seirpus mucronatus</u> L.		3	3
* <u>Seirpus supinus</u> Linn.		3	3
* <u>Setaria viridis</u> (L.) P. B.		2	2
* <u>Sphenoclea zeylanica</u> Gaertn.		1	1

- Seed-borne disorder

X)

1 - rare

2 - common

3 - very widespread

XX)

1 - little

2 - moderate

3 - great

Important Plant Disorders in Bangladesh: Distribution and Effect

‘000’

Crop Plant: Soybean (*Glycine max*)

ha (approx.) 0.80

Disorders (in Latin names except for viruses)	Disease	X) Distribution	Effect
PATHOGENS			
<u>Fungi:</u>			
* <u>Aspergillus flavus</u> LK	Seed decay, germination failure, seed discouration	2	2
* <u>Aspergillus ochraceous</u> Wilhelm		1	1
* <u>Aspergillus repens</u> de Sary		1	1
* <u>Cercospora Kikuchi</u> (Mats. & Tomy) M. W. Gardner	Purple seed stain	3	2
* <u>Collectotrichum dematum</u> Var. <u>truncatum</u> (Schw.) Arx.	Seed rot/ germination failure, anthracnose	3	3
* <u>Collectotrichum liodemuthianum</u> (Sacc &	Seed rot/ germination failure, anthracnose	1	1
* <u>Fusarium equiseti</u> (Corda) Sacc.	Seed rot/ germination failure, root rot	1	1
* <u>Fusarium longipes</u>		1	1
* <u>Fusarium oxysporum</u> Schlecht. ex. Fr.		2	2
* <u>Fusarium semitectum</u> Berk. & Rave		1	1
* <u>Fusarium solani</u> (Mart.) App. & Wr. emend. Snyder & Hassen		1	1
* <u>Fusarium</u> sp.	Wilt	1	1
<u>Deptosphaerulina trifolii</u>	Leptophaveru-lina leaf blight	2	1
* <u>Macrophomina phaseolina</u> (Passi) Goid	Charcoal rot, damping of & seedling blight	2	2
* <u>Myrothecium roridum</u>	Seed rot & infection to the germinating seed ling	1	1
* <u>Penicillium oxalicum</u> Currie and Thom.	Germination reduction & seed dis-colouration	1	1
* <u>Penicillium</u> spp.		2	1
* <u>Pharospora pachyrhizi</u>	Rust	2	1