



Agricultural Advisory Society, Bangladesh: activities and results 1 March 2007 - 31 March 2008



Md. Harun-Ar-Rashid • *Agricultural Advisory Society*

P L A N T H E A L T H S E R V I C E S I N I T I A T I V E

The initiative began in 2004 with the Agricultural Advisory Society (AAS) and the Rural Development Academy, Bogra. Shushilon, an NGO based in the southwest of Bangladesh, joined in 2006. The three organisations run 19 plant health clinics staffed by plant doctors who work for or are supervised by the three partners. The clinics are the foundation of an emerging plant health system that will link diagnostic laboratories, IPM projects, research institutes and other organisations and individuals who want to provide a regular advisory service to farmers that responds quickly and reliably to their needs. The initiative is managed by Mrs Paula Kelly of CABI.

A G R I C U L T U R A L A D V I S O R Y S O C I E T Y (A A S)

AAS is an NGO and is led by Md. Harun-Ar-Rashid. They work on extension and research projects and were one of a group of organisations who worked on the landmark PETRRA project (Poverty Elimination through Rice Research Assistance), managed by IRRI and funded by DFID.

G L O B A L P L A N T C L I N I C

The **Global Plant Clinic** (GPC) is managed by CABI in alliance with Rothamsted Research and the Central Science Laboratory. The GPC coordinates and provides plant health services in Africa, Asia and Latin America. These include an expert diagnostic centre for all plants and types of problems. We are a leading publisher of new disease records. The GPC trains plant doctors and scientists, establishes and supervises plant health clinics and builds plant health systems. We link extension and research and farmers and work with all sectors to improve regular and reliable access to technical support and advice. Our aim is to create durable plant health services for those who need them most.

The Global Plant Clinic is funded by the **UK Department for International Development**.

C O N T A C T S

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See short videos on www.youtube.com/user/ericboa and [/globalplantclinic](http://globalplantclinic)

Report submitted February 2009.

The cover shows teachers and students at Chandai High School Plant Clinic. AAS has created many new partnerships and ways to deliver regular, reliable and responsive services for farmers.

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Acronyms

AAS	Agricultural Advisory Society
AESP	Agricultural Extension Service Provider
Agric	Agriculture
CABI	Centres for Agriculture and Bioscience
Chem	Chemistry
Comp	Computer
CPD	Community Plant Doctor
DAE	Department of Agricultural Extension
DTW	Deep Tube Well
F	Female
FGD	Focus Group Discussion
GCs	Group Coordinators
GP	Going Public
GPC	Global Plant Clinic
JSUS	Jagoroni Samaj Unnayan Sangstha
KGUK	Karbala Gram Unnayan Kendra
M	Male
MPC	Mobile Plant Clinic
NGOs	Non Government Organizations
Nr.	Number
PC	Plant Clinic
PD	Plant Doctor
PHS	Plant Health Specialist
PHSi	Plant Health Services initiative
SAAOs	Sub-Assistant Agriculture Officers
SCi	Science
UAO	Upazila Agriculture Officer
UK	United Kingdom
UP	Union Parishad

Introduction

Plant health clinic is a new approach for providing effective plant health services on plant health problems to the rural farmers. The approach has been introduced for the farmers in Baraigram upazila of Natore districts of Bangladesh by AAS with assistance from CABI, UK since September 1, 2005. In view of the objectives of Global Plant Clinic (GPC), AAS has established a network of model plant health management permanent clinic to ensure better plant health management services to the farmers in Natore district, so that they can enhance their crop production, reduce cost of crop production by avoiding the frequent use of chemicals, increase their income and remove the risk of crop failure due to the pest and disease infestation and finally, they save the environment from pollution.

Besides operation of permanent plant clinic, piloting has been undertaken on three extension methods such as mobile plant clinic (open), mobile plant clinic (fixed) and going public to ensure better plant health management services to the farmers in Natore district. Assigned plant doctor (Pathologist/Entomologist) is solely responsible in operation of permanent plant clinic and piloting the extension methods for better plant health management services in Baraigram upazila of Natore district. Based on the expected success, AAS later intends to scale up the most effective method(s) in other parts of the country. To achieve the objectives of plant health management clinic network, AAS in collaboration with 15 Agricultural Extension Service Providers (AESPs) has made significant progress in Baraigram upazila of Natore district from 1 March 2007 to 31 March 2008 and the progress is given below in brief under the following sections:

A. Operation of Plant Clinic Network

AGRICULTURAL EXTENSION SERVICE PROVIDERS (AESPs)

From March 2005 to March 2007, AAS has established a 12-plant clinics network with 15 Agricultural Extension Service Providers (AESPs) in Baraigram upazila of Natore district. Among the 15 AESPs, six are from educational institutions, three from NGOs and private sector's agri-input dealers and one each from DAE, Union Parishad (UP) and DTW club. At the early stage of the project cycle, DAE has placed 4 SAAOs (Sub-Assistance Agricultural Officers) with 4 plant clinics. Currently, the involvement of SAAOs, DAE is found minimal due to several reasons including their cash incentives.



Workshop for Agricultural Extension Service Providers (AESPs): (a) Paula Kelly presenting, (b) S.M. Q. Zaman, UAO, Baraigram speaking, (c) UNO, Baraigram speaking, (d) Aftab Ali, AESP speaking at workshop

The primary functions of the AESPs are to play leadership role in operating the plant clinic network in Baraigram upazila of Natore district. The project will also test the efficacy and usefulness of the involved AESPs for future operation of the plant clinic network. The best service provider(s) will be selected at the end of the project cycle for large-scale dissemination of the concept and strategy of plant clinic in the country. Information about 15 AESPs is provided in Table 1a.

PERMANENT PLANT CLINIC

Permanent plant clinic is operated in a permanent place where the farmers are provided with quality services on any plant health problems and their management practices within the command area of the established clinic. Farm families from the surrounding communities can receive these services without any charge. It is, however, a pull and top-down approach to provide plant health-care services to the farmers. Only the motivated farmers are expected to receive these services as the schedule and time are fixed for each venue. Group coordinators need to spend more time to motivate the farmers to ensure their participation in the clinic. The method, nonetheless, is convenient, safe and easily accessible to the Community Plant



Teachers and students at Chandai High School Plant Clinic

Doctors (CPDs), Plant Doctors (PD) and Plant Health Specialists (PHSs) as the venue is fixed. In permanent plant clinics, farmers need to travel to that center which is difficult for women.

During this reporting period, 12 plant clinics established at the permanent centers in Baraigram upazila of Natore district. Mr. Abu Baker, the owner of the Zia Fertilizer at Rayna Varot bazar has taken more responsibility to operate the plant clinic due to less involvement of assigned SAAO of DAE. Mr. Aftab Ali, dealer of Aftab and Brothers has taken more responsibility than involved NGO (SOPAN) to operate the plant clinic at Moukhara bazar. Presently, the plant clinic has been operated at the dealer shop of Aftab and Brothers. Mr. Aftab Ali provides advice to the farmers during selling seeds, fertilizers and pesticides. Information of 12 permanent plant clinics is provided in Table 1b.

Community Plant Doctors (CPDs): Each permanent plant clinic has two-community plant doctors (CPDs) selected from each involved service provider. Thus, there are 24 CPDs with 12 permanent plant clinic networks in Baraigram upazila of Natore district. As the role of CPDs is very crucial to the plant clinic, they need to be skilled and their capacity needs to be developed in delivering quality plant health services to the farmers. They need to train on overall plant health-care services. Such training should be on practical and need basis. In this regard, AAS needs financial support. Information about 24 CPDs is provided in Table 1c.

Day, time, venue and space of permanent plant clinic: Day, time venue and space of the 12 permanent plant clinics were finalized on the basis of matching of the involved AESPs' demand and suggestion. Information about the schedule of 12 permanent plant clinics is provided in Table 1d.

MOBILE PLANT CLINIC (OPEN)

Mobile plant clinic with open problems means a movable place where all clinical facilities are available for any type of plant health problems. It is cost effective for both farmers and their coordinators, but costly and time consuming for Plant Doctor, Community Plant Doctors (CPDs) and Plant Doctor (PD) as they require to travel to the communities. In this case, farmers can receive better services and can have more interactions with PD/CPDs/PHSs. The involved group coordinators are responsible for arranging mobile plant clinic with open plant health problems at their village for large number of farmers (both male and female). In that case, field visit and sample collection are possible for PD/CPDs/PHSs.

MOBILE PLANT CLINIC (FIXED)

Mobile plant clinic with fixed problem(s) means a mobile clinic where all clinical facilities are available for the selective plant health problem(s) at each event. Such mobile plant clinics are conducted at suitable

place of the selected venue of the community. Similar to the open mobile plant clinic, the fixed mobile plant clinic is cost effective for both farmers and group coordinators, but costly and time consuming for PD, CPDs and PHSs, as they require to travel with display materials to the communities. In that case, farmers can receive better services through demonstration and can have more interactions with PD/CPDs/PHSs on a specific plant health problem. PD/CPDs/PHSs can provide better in-field advice, since he/she has strong knowledge on the selected plant health problems through detailed practical study and preparation before implementation of the fixed mobile plant clinics.



Community Plant Doctors (CPDs): (a) Tirail, (b) Jonail, (c) Rajandropur Plant Clinics Community Plant Doctors

GOING PUBLIC

Going public method trains farmers in public places where large gathering of people is possible. The method can be used to demonstrate fixed plant health problem(s) and can be provided with follow-up advice among the interested audiences. It needs less time and less transport costs than a trip to a village. The confident facilitators, who have expertise in selected plant health problems and have experience in community organizing, can provide better services to the farmers on plant health problems by using this method. The method needs prior planning to organize the gathering of the audiences at the market places. The venue for going public should be in an ideal place, as it requires decent display of the selected plant health problem (s). It is a cost effective extension method to train large number of farmers on selected plant health problems.

Technical fact sheets: The content of technical fact sheet should be details based on an individual plant health problem for the use of Community Plant Doctors (CPDs) and Plant Doctor (PD), which will be useful for CPDs and PD during the diagnosis of plant health problems and to recommend their management practices at the plant clinics. This is a robust task since there are more than 50 important crops/plants and could be several hundreds important plant health problems.

Farmers are very much eager to know the diagnosis and management practices of hundreds of plant health problems. As of today, a total of 183 technical draft fact sheets on seventeen (17) different crops have been prepared on demand driven basis. Out of 183 technical fact sheets, 118 are on diseases, 58 on insects, 4 on nematodes and 3 on other plant health problems. In this regard, AAS also needs financial support for preparation, printout, file-up and distribution among the trained CPDs of the involved service providers. Information about technical fact sheet is provided with Table 1e.

Summary of plant clinic network: A total of 12 plant clinics have been established at 12 suitable locations within the 40 surrounding villages of Baraigram upazila of Natore district. One clinic in each location has been established. Assigned Plant Doctor (PD) has been playing vital role in establishing and operation of plant clinic network in Baraigram upazila of Natore district. Each clinic has two Community Plant Doctors (CPDs) selected from each service provider with suitable premises for necessary operations and discussions. Each selected community has two coordinators to facilitate linkage and communication between farmers and the plant clinic. They also play vital role in implementing the other relevant methods and strategies of plant health management service initiative within each involved community. The project staff in collaboration with CPDs has developed awareness among the farmers including group members

and coordinators about the purposes of plant clinic established at the campus of the selected service providers. Signboard of the plant clinics has been fixed at a suitable place in the campus of the involved 12 service providers in Baraigram upazila of Natore district. All the 12 established plant clinics are operating weekly on routine basis.

B. Operation of Permanent Plant Clinics

The purpose of the permanent plant clinics is to provide quality services on plant health problems and their management practices to the farmers of the surrounding villages of 12 plant clinics established at the permanent center of 12 AESPs in Baraigram upazila of Natore district. A total of 306 plant clinic events were implemented at 12 permanent plant clinics during the reporting thirteen (13) months period. These plant clinic events were conducted under several unfavourable circumstances including countrywide educational institutions enjoyed long duration festival holidays during the reporting period. A total of 2383 motivated participants were attended in 306 plant clinic events of 12 permanent plant clinics. Among them (motivated participants), 1397 were farmers and the rest 680 were staff, students, teachers etc. Out of 2383 participants, 1867 were male and only 210 were female.



Permanent Plant Clinics Open: (a) Farmer with samples on Bi-cycle, (b) PD & PHSs with farmer at Parkol Plant Clinic, (c) PHS investigating Garlic health problem with farmer at field, (d) Paula Kelly Snapping at Garlic field

Plant doctor, Community Plant Doctors and Plant health Specialists demonstrated 2517 plant health problems and there were 694 (27.57%) unknown plant health problems. The highest number of prescription was provided against insects (1259) followed by diseases (470), nutritional deficiency (52), physiological problem (21) and soil problem (21). The highest number of recommended management practices was pesticide cum cultural practices (1186) followed by pesticide only (338), balanced fertilizer cum cultural practices (121), resistance variety use (46), cultural practices only (51), and balanced fertilizer application (81). The detailed information about permanent plant clinic operation is provided with Tables 2a-2d.

C. Implementation of Mobile Plant Clinic (Open Problems)

Mobile plant clinics with open problems are provided with any type of plant health problems at the community and the service is available to farmers at that community. A total of 27 mobile plant clinics with open plant health problems were conducted at the communities of 12 plant clinics. A total of 273 participants were participated, of which 251 (91.94%) and 22 (8.06%) were male and female, respectively. PD, CPDs and PHSs diagnosed 375 plant health problems of 31 different types of crops at 27 open mobile plant clinic events during the reporting period. They provided prescription for 276 plant health problems and the rest problems 99 (26.4%) were unknown to them.



Mobile Plant Clinic (Open) Operation: (a) PD and CPDs interacting with female farmer, (b) PD writing prescription for female farmer, (c) Mr. Ali AESP discussing, (d) Mr. Ali interviewing

The highest number of prescriptions was provided against insects (129) followed by diseases (147), physiological problems (15), nutritional deficiency (11) and soil problem (3). The highest number of management practices recommended with pesticide cum cultural practices (198) followed by pesticide only (34), balanced fertilizer cum cultural practices (19), cultural practices only (12), balanced fertilizer application (8) and resistance variety use (5). The major accomplishment of 27 mobile plant clinics with open plant health problems is provided in Tables 3a-3e.

D. Implementation of Mobile Plant Clinic (Fixed Problems)

In such type of clinics, all clinical facilities are available for selective crops with fixed problem at the selected venue of community. It is a push and bottom up approach. The following plant health problems of pointed gourd, mango and country bean crops were demonstrated during 17 fixed mobile plant clinic events:

Crops	Diseases	Insects
Pointed gourd	Root knot	Red mite
Mango	Anthraxnose, Malformation	Mango nut, weevil
Country bean	Anthraxnose	Bean pod borer

The Plant Doctor (PD), Community Plant Doctors (CPDs) and Plant Health Specialists (PHSs) in collaboration with group coordinators conducted 17 fixed mobile plant clinics in selected communities for providing solid advice among the large number of interested farmers. At the beginning of each event, PD/PHSs were provided a short briefing on the demonstrated plant health problem(s). Then, they invited all participated audiences for question and then answer on the diagnosis and management practices of the demonstrated plant health problem(s). Later on, PD/PHSs provided prescriptions on the plant health problem(s) to the desired farmers. The discussion and service delivery continued as long as the participated farmers were responsive. The PD/PHSs also collected and documented the farmer's innovative knowledge on plant health management practices during the implementation of the fixed mobile plant clinics at the community.

A total of 17 fixed mobile plant clinic events were implemented, of which 6 were on pointed gourd, 10 on mango and 1 on country bean. A total of 398 farmers and mango orchard owners were participated in 17 fixed mobile plant clinic events, of which 381 were male (95.73%) and 17 were female (4.27%). Among the 398 participants, 118 were participated at the events of pointed gourd, 250 at the events of mango and 30 at the events of country bean. On the other hand, out of 398 participants, 270 farmers and mango orchard owners willingly collected prescriptions from the PD/PHSs without any fee. The PHSs provided 270 prescriptions, of which 100 were on pointed gourd, 161 on mango and 9 on country bean. In that case, pesticide cum cultural practices recommended with 237 farmers and pesticide cum mechanical

practices recommended with 33 farmers. The detailed information about implemented 17 fixed mobile plant clinic events is provided in the Tables 4a-4j.



Mobile Plant Clinic (fixed) operation: (a) PD demonstrating plant health problem, (b) PD explaining about plant health problem among female farmers, (c) PD presenting on country been pod borer, (d) PHS speaking on pod borer

E. Implementation of Going Public

The implementation approach of going public is very much similar to that of fixed mobile plant clinic. But fixed mobile plant clinics are conducted at suitable place of the selected venue of the community, whereas, going public conducted at public place (market place, hat, bazar etc.). In this method, farmers can receive plant healthcare services without travel other than just to a market place. The following plant health problems were displayed on mungbean, pointed gourd, mango, sugarcane and brinjal during 17 going public events.

Crops	Diseases (nr.) ¹	Insects (nr.) ¹
Mungbean	1	1
Pointed gourd	2	-
Mango	14	7
Sugarcane	-	5
Brinjal	-	2
Total	17	15

Note: ¹ = Diseases and insects names under each crop are available in the respective tables.



Going Public Implementation: (a) Farmers at GP venue, (b) PD explaining on Mango health problem, (c) Interaction between farmer and PHS on Sugarcane health problem, (d) PD writing prescription on Sugarcane plant health problems

The Plant Doctor (PD) and Plant Health Specialists (PHSs) in collaboration with CPDs and staff of the involved service providers were conducted 17 going public events during the reporting period in the selected public places (market, hat, bazar etc.) for providing plant health services among the large number of interested farmers. At the beginning of each going public event, a briefing on the demonstrated plant health problem(s) was provided by PD/PHSs. Then, the PD/PHSs invited all the participated audiences for question and answer on the diagnosis and management practices to the desired farmers. The discussion and service delivery continued as long as participated farmers were responsive. The PD/PHSs also collected and documented the farmer's innovative knowledge on management practices of the plant health problem(s) during the implementation of going public events at public places.

A total of 17 going public events were implemented, of which 1 was on mungbean, 2 on pointed gourd, 7 on mango, 5 on sugarcane and 2 on brinjal. 32 plant health problems of five crops were demonstrated during 17 going public events, of which 17 plant health problems were with diseases and 15 with insects. A total of 1484 audiences were actively participated in 17 going public events, of which 16 were only women. The highest number of participants was participated in mango (686) going public events followed by sugarcane (418), brinjal (160), pointed gourd (158) and mungbean (62).

Out of 1484 participants, 742 participants (50%) received prescription from the PD/PHSs without any fee. Out of 742 prescriptions, highest prescription was provided for mango (381) followed by sugarcane (157), pointed gourd (94), brinjal (76) and mungbean (34). On the other hand, the PD/PHSs recommended pesticide cum cultural practices with 742 interested farmers during 17 going public events. The major achievement of the implemented 17 going public events is provided in **Tables 5a-5n**.

F. Focus Group Discussion

A focus group discussion (FGD) arranged at the event of fixed mobile plant clinic to collect the relevant information of bean pod borer plant health problem of country bean. On November 25, 2007, a focus group discussion was conducted at the event of fixed mobile plant clinic on bean pod borer in Gopalpur upazila of Natore district under the Rajendrapur Plant Clinic. The following relevant information on country bean cultivation and management practices for bean pod borer were collected and documented during open discussion at FGD of the fixed mobile plant clinic event:



FGD on country bean pod borer: (a) Larvae of pod borer, (b) PHS & PD are conducting FGD, (c) Farmers at FGD

In Natore district, the farmers first started bean cultivation in the year of 1990 but large-scale cultivation started from 2000, said participated farmers. For controlling bean pod borer, they used the following 24 types of insecticides:

- | | | | |
|---------------|---------------|---------------|--------------|
| 1. Kartap | 7. Cup | 13. Fisi | 20. Dimecron |
| 2. Ointap | 8. Fedy | 14. Dursban | 21. Vitacil |
| 3. Fenfen | 9. Motar | 15. Tufgar | 22. Ten-up |
| 4. Regent | 10. Fytar | 16. Fensid | 23. Seetap |
| 5. Syrine | 11. Sumi-alfa | 17. Fentox | 24. Furdan |
| 6. Sumisydene | 12. Mimitap | 18. Lebacid | |
| | | 19. Chlorocid | |

Farmers used above-mentioned large number of insecticides for the following three major reasons:

- i. By sharing experiences among the farmers at community
- ii. As per advice of the dealers, they are the only service providers at community in locality. The dealers also advice them for using insecticides to mix one to another
- iii. By the advice of the representatives of the pesticide companies.

The farmers strongly believed that among the 24 insecticides the following three insecticides are the most effective in controlling the bean pod borer of the country bean:

- i. Kartap
- ii. Sumi-alfa
- iii. Syrine

But most of the farmers (about 90% of them) informed that currently not a single insecticide is working well. To protect bean pod borer of country bean, farmers used the pesticides upto almost every day with an average 100 times during nine months crop production cycle. Though they used so many insecticides, they knew that it causes harmful effects to the plants such as leaf dies for using excessive doses, plants die, growth become hampered, more dropping of flowers occurred, caused health problems of the sprayers but they strongly believed that it did not cause any harm to the consumers.

Farmers used the following innovative methods in controlling the bean pod borer:

- i. Hand picking of flowers with immature bean
- ii. Detached the attached matured flower parts (petals)

At the fixed mobile plant clinic, the PHSs suggested the farmers not to use any insecticide twice because it becomes resistance to that insects and hand picking is the best method for controlling bean pod borer. In this focus group discussion of the fixed mobile, about 30 farmers were present and they actively participated in this event.

Finally Dr. Zulfiquar Haider Prodhan, Paula Kelly and Harun-Ar-Rashid concluded the FGD session with whole hearted thanks to the participated country bean growers.

Annex I:

**Establishment of
Plant Clinics Network
(12 Plant Clinics at Permanent Venues)**

Tables. 1a - 1e

Table. 1a: List of agricultural extension service providers (AESPs) of the plant clinics network in Baraigram upazila of Natore district

SL #	Name of Service Provider	Chief Executive (Name, Designation and Mobile)	Name of plant clinic	SAAOs, DAE
1	DAE, Baraigram	S.M. Quamruzzaman, UAO, Baraigram Mob: 01711313964	Involved with 4 plant clinics	4 SAAOs, DAE
2	Ahamadpur College- 2	A.Z.M. Asad-Uz-Zaman, Principal Mob: 01712743742	Ahamadpur	-
3	KGUK (NGO)	A.Z.M. Asarif-Uz-zaman, Executive Director Mob: 01715956587		
4	Ramaigari High School	Khandokar Abdul Mannan, Head Master Mob: 01714569345	Ramaigari	-
5	Zia fertilizer	Md. Abu Bakar, Dealer Mob: 01724427038	Rayna Varot	SAAO, DAE
6	Merigachhi High School	Md. Bashir Uddin, Head Master Mob: 01714928634	Merigachhi	SAAO, DAE
7	Perbagdob Dakhil Madrasa	Md. Nizam Uddin, Superintendent Mob: 01724104724	Parbagdob	-
8	Sopan (NGO)	Mrs. Tasmiara, Executive Director Mob: 01719734782	Moukhara	-
9	Aftab and Brothers	Md. Aftab Ali, Dealer Mob: 01711412759		
10	Tirail DTW Samabay Samity	Abu Bakkar Siddique, President Mob: 01713702480	Tirail	-
11	Chandai High School	Md. Motin Sorkar, Head Master Mob: 01718409105	Chandai	SAAO, DAE
12	Chandai UP	Mr. Zinna Hossain, Chairman Mob: 01718409105	Rajendrapur	-
13	Jagoroni Samaj Unnayan Sangstha (NGO)	Md. Ali Siddique, President Mob: 01715545253	Jonail	SAAO, DAE
14	Sakil Enterprise	Saidur Rahman. Dealer Mob: 01720264601	Parcole	-
15	Kachua High School	Md. Oias Kuruni, Head Master Mob: 01711443816	Kachua	-

Table.1b: Plant clinics name, venue, plant clinic space, service providers and CPDs name

PC #	Plant clinic Name	Venue	Plant clinic space	Service Providers	CPD name
1	Ahamadpur	College-2	Teachers Common room	1) Ahamadpur College- 2 2) KGUK	i) Md. Nuruzzaman ii) Md. Sabanoor Rahaman
2	Ramaigari	High School	Teachers Common room	Ramaigari High School	i) Dijendronath ii) Md. Enamul Haque
3	Rayna Varot	Dealer Shop: Fertilizer & Pesticide	Zia fertilizer shop	Zia fertilizer shop & DAE	i) Md. Mohammad Ali ii) Abu Bakar
4	Merigachhi	High School	Teachers Common room	Merigachhi High School & DAE	i) Md. Aksad Ali ii) Md. Rafiqur Rahman
5	Perbagdob	Madrasa	Teachers Common room	Perbagdob Dakhil Madrasa	i) Md. Mahabub Hasan ii) Md. Mosarraf Hossain
6	Moukhara	Sopan office & Aftab & brothers fertilizer shop	Office room & Aftab and brothers fertilizer shop	Sopan (NGO) & Aftab and brothers fertilizer shop	i) Md. A.H. Kafi ii) Md. Aftab Ali
7	Tirail	Tigon office	Office room	Tigon office	i) Md. Shahjahan Kabiraj ii) Md. Anawar Hossain
8	Chandai	High School	Teachers Common room	Chandai High School and DAE	i) Md. Samsul Islam ii) Md. M. Hossain
9	Rajendrapur	UP office	Conference room	Chandai UP	i) Md. Rofiqul Islam ii) Hadisur Rahman
10	Jonail	Jagoroni office	Office room	Jagoroni Samaj Unnayan Sangsta (NGO) and DAE	i) Asraful Islam (Babul) ii) Didarul Alom (Ripon)
11	Parcole	Mrs. Sakil Enterprise	Mrs. Sakil Enterprise fertilizer Shop	Mrs. Sakil Enterprise	i) Saidur Rahman ii) Md. Nasiruddin (Salim)
12	Kachua	High School	Teachers Common room	Kachua High school	i) S.M. Sohikul Islam ii) Md. Kofil Uddin

Table.1c: Community plant doctors (CPDs), their involved plant clinic, Designation, Organization, Address and mobile phone number

PC #	PC name	Name of CPD	Designation and Organization (CPD)	Address	Mobile #
1	Ahamadpur	i) Md. Nuruzzaman ii) Md. Sabanoor Rahaman	Lecturer (Agric.), Lecturer (Chem.), Ahamadpur College -2	Ahamadpur College -2 UP: Joari	01712743742
2	Ramaigari	i) Dijendronath ii) Md. Enamul Haque	Asst. Teacher (Comp), Asst. Teacher, Ramaigari High School	Ramaigari High School UP: Joari	01712092229
3	Rayna Varot	i) Md. Mohammad Ali ii) Abu Bakar	Fertilizer dealer, Zia fertilizer shop	Zia fertilizer shop UP: Baraigram	01724427038
4	Merigachhi	i) Md. Aksad Ali ii) Md. Rafiqur Rahman	Asst. Teacher (Sci), Asst. Teacher (Agri), Merigachhi High School	Merigachhi High School UP: Nogor	01715841479 01714864526
5	Perbagdob	i) Md. Mahabub Hasan ii) Md. Mosarraf Hossain	Asst. Teachers, Perbagdob Dhakhil Madrasa	Perbagdob Dhakhil Madrasa UP: Baraigram	01724791304 01724104724
6	Moukhara	i) Md. A.H. Kafi ii) Md. Aftab Ali	Coordinator, SOPAN & dealer, Aftab and Brothers	Sopan office & Aftab & Brothers UP: Baraigram	01719734782 01711412759
7	Tirail	i) Md. Shahjahan Kabiraj ii) Md. Anawar Hossain	Cashier & Member Tigon office	Tigon office, Tirail bazar UP: Mazgram	01713702480
8	Chandai	i) Md. Samsul Islam ii) Md. M. Hossain	Asst. Teacher, Asst. Head Teacher, Chandai High School	Chandai High School UP: Chandai	01720989491
9	Rajendrapur	i) Md. Rofiqul Islam ii) Hadisur Rahman	UP Member, Chandai UP & Asst. Teacher, Rajendrapur Non govt. Primary School	Rajendrapur UP office UP: Chandai	01713707387
10	Jonail	i) Asraful Islam (Babul) ii) Didarul Alom (Ripon)	Asst. Director, Field officer Jagoroni Samaj Unnayan Sangsta (JSUS)	Jagoroni Somaj Unnion Sogosta (JSUS) Jonail Bazar, Baraigram	01718684103 01715545253
11	Parcole	i) Saidur Rahman ii) Md. Nasiruddin (Salim)	Dealer and Asst. dealer, Mrs. Sakil Enterprise	Mrs. Sakil Enterprise UP: Mazgram	01720264601 01721664605
12	Kachua	i) S.M. Sohiful Islam ii) Md. Kofil Uddin	Asst. Teachers, Kachua High School	Kachua High School UP: Gopalpur	01711443816

Table.1d: Clinic day, time, space and venue of 12 plant clinics

PC. #	Name of plant clinic	Venue	Space	Day	Time	
					Start	End
1	Ahamadpur	Ahamadpur College-2	Teachers Common room	Thursday	10:00 am	12:00 am
2	Ramaigari	Ramaigari High School	Teachers Common room	Thursday	1:30 pm	5:00 pm
3	Rayna Varot	Zia fertilizer shop	Zia fertilizer shop	Sunday	2:00pm	5:00 pm
4	Merigachhi	Merigachhi High School	Teachers Common room	Wednesday	1:00 pm	4:00 pm
5	Perbagdob	Perbagdob Dakhil Madrasa	Teachers Common room	Tuesday	2:00 am	4:00 pm
6	Moukhara	Aftab and Brothers	Fertilizer shop	Monday	2:00 pm	5:00 pm
7	Tirail	Tigon Office	Office room	Monday	10:00 am	12:00 pm
8	Chandai	Chandai High School	Teachers Common room	Saturday	01:00 pm	4:00 pm
9	Rajendrapur	UP office	Conference room	Saturday	10:00 am	12:00 pm
10	Jonail	Jagoroni office	Office room	Tuesday	09:00 pm	1:00 pm
11	Parcole	Mrs. Sakil Enterprise	Fertilizer Shop	Sunday	10:00 am	12:00 pm
12	Kachua	Kachua High School	Teachers Common room	Wednesday	10:00 am	12:00 pm

Table. 1e: Status of draft scientific fact sheets preparation on plant health problems

SI #	Crop Name	Disease	Insect	Nematode	Nutrient deficiency	Others	Total Problems
1	Banana	8	3	1	-	-	12
2	Brinjal	10	12	1	-	-	23
3	Jute	4	4	-	-	-	8
4	Mango	12	11	-	-	1	24
5	Pointed gourd	1	1	1	-	-	3
6	Sugarcane	23	17	-	-	1	41
7	Country bean	4	4	-	-	1	9
8	Ber / Jujube	5	5	-	-	-	10
9	Tomato	14	-	1	-	-	15
10	Onion	10	-	-	-	-	10
11	Cabbage & Cauliflower	4	-	-	-	-	4
12	Chick Pea-Gram	4	-	-	-	-	4
13	Beetle leaf	6	-	-	-	-	6
14	Okra	4	-	-	-	-	4
15	Chilli	8	-	-	-	-	8
16	Sex pheromone	-	1	-	-	-	1
17	Solarization	1	-	-	-	-	1
Total		118	58	4		3	183

Annex. II:

**Operation of Plant Clinics
(12 Plant Clinics at Permanent Venue)**

Tables. 2a - 2d

Table. 2a: Plant clinic wise number of events, participants, CPDs, crops, problems, prescriptions and unknown problems of 12 plant clinics (permanent) during March, 2007 to March, 2008 at 306 plant clinic (permanent) events

PLANT CLINIC AND NUMBERS	PC EVENT	PARTICIPANTS (NR.)					CPDs	CROPS	PROBLEMS	PRE-SCRIPTIONS	UNKNOWN PROBLEMS
		FARMERS	OTHER *	TOTAL	M	F					
Ahamadpur (1)	28	105	97	230	160	42	36	37	239	139	100
Ramaigari (2)	25	103	92	220	168	27	34	34	216	158	58
Rayna Varot (3)	26	126	39	191	145	20	35	33	211	150	61
Merigachhi (4)	25	104	80	209	172	12	37	26	203	142	61
Perbagdob (5)	24	91	51	166	135	7	35	28	184	150	34
Moukhara (6)	25	106	76	207	181	1	30	29	205	150	55
Tirail (7)	28	135	44	207	167	12	42	38	231	174	57
Chandai (8)	27	108	86	221	170	24	42	30	219	155	64
Rajendrapur (9)	22	102	20	144	99	23	28	22	187	142	45
Jonail (10)	29	188	24	241	199	13	43	34	251	195	56
Parcole (11)	24	80	20	124	94	6	29	26	163	129	34
Kachua (12)	23	149	51	223	177	23	34	31	208	139	69
Total	306	1397	680	2383	1867	210	425	368	2517	1823	694

* Others-Students, teachers, doctors, businessman, government and non-government employees

Table. 2b: Type of plant health problems diagnosed and recommended management practices of 12 plant clinics (permanent) March-December, 2007 at 224 plant clinic (permanent) events

	PROBLEMS/MANAGEMENT	TOTAL	AVERAGE/PERMANENT PC (NR.)
A: Plant health problems			
1.	Insect	1259	105
2	Disease		
(a)	Fungi	304	25
(b)	Bacteria	40	3
(c)	Virus	67	6
(d)	Nematode	35	3
(e)	Mycoplasma	24	2
3	Soil Problem	21	2
4	Nutritional deficiency	52	4
5	Physiological Problem	21	2
6	Unknown Cases	694	58
Total:		2517	210
B. Management Practices			
1	Pesticide only	338	28
2	Cultural practices only	51	4
3	Pesticide cum cultural practices	1186	99
4	Balance fertilizer application	81	7
5	Balance fertilizer cum cultural practices	121	10
6	Resistant variety use	46	4
7	No advice	694	58
Total:		2517	210

Table. 2c: Plant clinic-wise involved crops/plants of 12 plant clinics (permanent) during March, 2007 to March, 2008 at 306 plant clinic (permanent) events

PC name & (Nr.)	Crops/plants name	Total
Ahamadpur (1)	Mango, Taro,, Litchi, Coconut, Rice, Sugarcane, Chilli, Ber, Okra, Pointed gourd, Sapota, Guava, Papaya, Bamboo, Jackfruit, Banana, Datashak, Sweet gourd, Brinjal, Lemon, Knolkhol, Wheat, Carrot, Country bean, Tomato, Betel leaf, Bael, Garlic	28
Ramaigari (2)	Mango, Banana, Bottle gourd, Lemon, Coconut, Betel nut, Bamboo, Papaya, Guava, Turmeric, Ber, Potato, Rice, Okra, Pointed gourd, Sugarcane, Bitter gourd, Indian Spinach, Sweet gourd, Brinjal, Country bean, Jackfruit, Kamranga, Wheat, Litchi, Onion, Garlic, Tomato, Chilli	29
Rayna Varot (3)	Onion, Garlic, Mango, Coconut, Jackfruit, Papaya, Turmeric, Betel vine, Brinjal, Tomato, Potato, Banana, Cucumber, Wood apple, Pomegranate, Lentil, Guava, Rice, Country bean, Ber, Okra, Sweet gourd, Wheat	23
Merigachhi (4)	Mango, Jackfruit, Garlic, Tomato, Lentil, Banana, Pointed gourd, Ber, Okra, Mustard, Litchi, Betel leaf, Bottle gourd, Rice, Coriander, Country bean, Carrot, Taro, Wheat, Chilli	20
Perbagdob (5)	Pointed gourd, Brinjal, Mango, Jackfruit, Lentil, Betel leaf, Chili, Bale, Taro, Mustard, Rice, Turmeric, Sugarcane, Coriander, Pomegranate, Spinach, Papaya, Guava, Bottle gourd, Bamboo, Potato, Litchi, Wheat, Garlic	24
Moukhara (6)	Country bean, Litchi, Onion, Garlic, Mango, Bottle Gourd, Rice Wheat, Banana, Jack fruit, Bamboo, Mahogany, Betel leaf, Betel nut, Tomato, Lemon, Chilli, Brinjal, Khesari	19
Tirail (7)	Papaya, Guava, Turmeric, Sopata, Mango, Country bean, Banana, betel nut, Rice, Litchi, Okra, Coconut, Cabbage, Cauliflower, Betel leaf, Lemon, Grass pea, Coriander, Mahogany, Datashak, Black berry, Okra, Ber, Brinjal, Chilli, Bottle gourd, Jackfruit, Wheat, Garlic	29
Chandai (8)	Sweet gourd, Ber, Okra, Country bean, Rice, Guava, Pomegranate, Wood apple, Banana, Cucumber, Lemon, Mango, Litchi, Turmeric, Jackfruit, Pointed gourd, Spinach, Taro, Bottle gourd, Brinjal, Wheat, Garlic, Onion	23
Rajendrapur (9)	Taro, Mango, Onion, Garlic, Rice, Okra, Tomato, Bottle gourd, Litchi, Ber, Banana, Jackfruit, Sweet gourd, Country bean, Pomegranate, Wheat	16
Jonail (10)	Lemon, Sweet gourd Data, Bael, Banana, Jackfruit, Papaya, Bamboo, Guava, Turmeric, Betel leaf, Coconut, Betel nut, Mango, Taro, Spinach, Rice, Litchi, Wheat, Country bean, Tomato, Pomegranate, Ber, Garlic, Onion, Chilli, Bottle gourd	27
Parcole (11)	Mango, Onion Garlic, Turmeric, Brinjal, Knolkhol, Potato, Tomato, Bamboo, Pomegranate, Betel leaf, Papaya, Lentil, Banana, Litchi, Chilli, Rice, Jackfruit, Country bean, Wheat	20
Kachua (12)	Rice, Turmeric, Pointed gourd, Bitter gourd, Mango, Okra, Bottle gourd, Litchi, Coconut, Jackfruit, Ber, Sugarcane, Tomato, Bamboo, Papaya, Coriander, Betel leaf, Betel nut, Banana, Guava, Garlic, Pomegranate, Brinjal, Groundnut, Onion, Wheat	26
Total		284

Table.2d: List of crops/plants investigated and their frequency for their health problems diagnosis of 12 plant clinics (permanent) during March, 2007 to March, 2008 at 224 plant clinic (permanent) events

SL #	Crop/Plant	Frequency	SL #	Crop/Plant	Frequency
1	Mango	39	26	Carrot	1
2	Banana	16	27	Betel leaf	13
3	Litchi	24	28	Bael	1
4	Coconut	26	29	Betel nut	5
5	Rice	35	30	Turmeric	14
6	Sugarcane	11	31	Potato	15
7	Chilli	12	32	Bitter gourd	7
8	Ber	16	33	Indian spinach	6
9	Jackfruit	23	34	Kamranga	1
10	Tomato	16	35	Onion	18
11	Papaya	17	36	Garlic	27
12	Guava	12	37	Cucumber	5
13	Bottle gourd	11	38	Wood apple	8
14	Sweet gourd	6	39	Pomegranate	12
15	Pointed gourd	11	40	Lentil	5
16	Country bean	21	41	Mustard	4
17	Taro	6	42	Coriander	2
18	Okra	28	43	Mahogany	1
19	Sapota	9	44	Cabbage	6
20	Bamboo	7	45	Cauliflower	8
21	Datashak	5	46	Grass pea	3
22	Brinjal	19	47	Black berry	2
23	Lemon	6	48	Groundnut	4
24	Knolkhol	3	49	Spinach	10
25	Wheat	17	50	Kheshari	1

Annex. III:

**Implementation of Mobile Plant Clinic
with Open Plant Health Problems at
Communities**

Tables. 3a – 3e

Table. 3a: Plant clinic wise number of open Mobile Plant Clinics (MPCs), participants, Group Coordinators (GCs), Community Plant Doctor (CPDs), crops, problems, prescriptions and unknown problems at 27 open mobile plant clinic events

PC name & (Nr.)	MPC (Nr.)	Participants (Nr.)			GCs (Nr.)	CPDs (Nr.)	Crops (Nr.)	Problems (Nr.)	Prescription Provided (Nr.)	Unknown problems (Nr.)
		M	F	Total						
Ahamadpur (1)	3	25	5	30	3	2	16	28	18	10
Ramaigari (2)	4	30	4	34	5	4	12	42	28	14
Rayna Varot (3)	2	16	1	17	3	2	14	31	23	8
Merigachhi (4)	2	17	1	18	3	2	11	30	22	8
Perbagdob (5)	1	10	-	10	2	1	5	13	10	3
Moukhara (6)	2	24	3	27	1	3	13	25	19	6
Tirail (7)	3	36	-	36	2	3	15	43	34	9
Chandai (8)	2	15	-	15	1	3	10	28	19	9
Rajendrapur (9)	1	11	1	12	2	1	6	16	11	5
Jonail (10)	3	30	2	32	2	2	13	43	32	11
Parcole (11)	2	20	4	24	3	2	8	33	26	7
Kachua (12)	2	17	1	18	2	3	9	43	34	9
Total	27	251	22	273	29	28	132	375	276	99

Table. 3b: Type of plant health problems diagnosed and recommended management practices at 27 open mobile plant clinic events

SL #	Problems/Management	Total	Average/PC (Nr.)
A: Plant health problems			
1	Insect	129	5
2	Disease		
(a)	Fungi	74	2
(b)	Bacteria	3	-
(c)	Virus	15	1
(d)	Nematode	16	1
(e)	Phytoplasma/ Mycoplasma	10	-
3	Nutritional deficiency	11	-
4	Soil Problem	3	-
	Physiological Problem	15	1
5	Unknown Cases	99	3
Total:		375	13
B. Management Practices			
1	Pesticide only	34	1
2	Cultural practices only	12	1
3	Pesticide cum cultural practices	198	7
4	Balance fertilizer application	8	-
5	Balance fertilizer cum cultural practices	19	1
6	Resistant variety use	5	-
7	No advice	99	3
Total:		375	13

Table. 3c: Plant clinic-wise involved crops/plants at 27 open mobile plant clinic events with 12 permanent plant clinic

PC name & (Nr)	Crops/plants name	Total
Ahamadpur (1)	Mango, Taro, Coconut, Lemon, Bitter gourd, Bottle gourd, Litchi, Brinjal, Betel nut, Sugarcane, Country bean, Cabbage, Cauliflower, Rice, Papaya, Tomato	16
Ramaigari (2)	Mango, Coconut, Lemon, Bitter gourd, Bottle gourd, Litchi, Brinjal, Betel nut, Sugarcane, Country bean, Cabbage, Potato	12
Rayna Varot (3)	Mango, Turmeric, Brinjal, Pomegranate, Okra, Jackfruit, Bottle gourd, Sweet gourd, Taro, Papaya, Ber, Tomato, Banana, Rice	14
Merigachhi (4)	Lemon, Betel Leaf, Jackfruit, Mango, Banana, Chilli, Garlic, Okra, Rice, Country bean, Litchi	11
Perbagdob (5)	Pointed gourd, Mango, Brinjal, Jackfruit, Coconut	5
Moukhara (6)	Mango, Coconut, Bitter gourd, Brinjal, Lemon, Jackfruit, Banana, Guava, Bottle gourd, Tomato, Rice, Onion, Garlic	13
Tirail (7)	Mango, Papaya, Guava, Rice, Coconut, Litchi, Banana, Pointed gourd, Jackfruit, Sweet gourd, Garlic, Ber, Brinjal, Country bean, Onion	15
Chandai (8)	Mango, Coconut, Garlic, Jackfruit, Okra, Mungbean, Ber, Country bean, Litchi, Betel leaf	10
Rajendrapur (9)	Mango, Coconut, Garlic, Jackfruit, Country bean, Litchi	6
Jonail (10)	Mango, Coconut, Jackfruit, Okra, Mungbean, Tomato, Ber, Garlic, Country bean, Sugarcane, Pomegranate, Chilli, Betel leaf	13
Parcole (11)	Mango, Coconut, Garlic, Jackfruit, Okra, Mungbean, Bananan, Litchi	8
Kachua (12)	Mango, Garlic, Okra, Jackfruit, mungbean, Coconut, Country bean, Bitter gourd, Sugarcane	9
Total		132

Table. 3d: List of crops/plants investigated for plant health problems at 27 open mobile plant clinic events

SL #	Crop/Plant	Frequency	SL #	Crop/Plant	Frequency
1	Mango	12	17	Papaya	3
2	Coconut	10	18	Banana	6
3	Lemon	4	19	Chilli	2
4	Bitter gourd	4	20	Betel leaf	4
5	Bottle gourd	6	21	Pointed gourd	3
6	Litchi	8	22	Garlic	7
7	Brinjal	9	23	Guava	2
8	Betel nut	3	24	Rice	8
9	Sugarcane	4	25	Country bean	6
10	Turmeric	2	26	Tomato	3
11	Pomegranate	2	27	Ber	5
12	Okra	8	28	Cabbage	1
13	Mungbean	6	29	Cauliflower	3
14	Jackfruit	12	30	Potato	2
15	Sweet gourd	4	31	Onion	2
16	Taro	1	32		

Table.3e: Date wise plant clinic, venue, number of crops, problems, prescription, unknown problems, GCs and CPDs at 27 open mobile plant clinic events

Date	PC name (Nr.)	MPC venue (Village)	Crops (Nr.)	Problems (Nr.)	Prescription Provided (Nr.)	Unknown problems (Nr.)	GCs (Nr.)	CPDs (Nr.)
04.03.07	Ahamadpur (1)	Kamardha	4	8	5	3	1	1
12.04.07	"	Kumrul	5	13	9	4	2	-
31.07.07	"	Balia	3	7	4	3	-	1
09.03.07	Ramaigari (2)	Atghoria	3	12	8	4	2	1
15.04.07	"	Vobanipur	3	13	8	5	2	1
28.06.07	"	Ramagarua	4	9	6	3	1	1
13.09.07	"	Chondrokhair	2	8	6	2	-	1
19.03.07	Rayna Varot (3)	Manikpur	9	21	16	5	2	1
19.08.07	"	Rayna	5	10	7	3	1	1
23.03.07	Merigachhi (4)	Merigachhi	6	17	13	4	2	1
26.09.07	"	Mesinoda	5	13	9	4	1	1
29.03.07	Perbagdob (5)	Perbagdob	5	13	10	3	2	1
01.04.07	Moukhara (6)	Moukhara	8	15	13	2	1	2
24.09.07	"	Chapila	5	10	6	4	-	1
03.04.07	Tirail (7)	Kalla	4	18	15	3	1	1
27.08.07	"	Tirail	7	13	10	3	1	1
12.11.07	"	Notabaria	4	12	9	3	-	1
13.04.07	Chandai (8)	Chandai Uttar Para	6	17	12	5	1	2
17.07.07	"	Chandai Sordar Para	4	11	7	4	-	1
15.04.07	Rajendrapur (9)	Rajendrapur (Pub Para)	6	16	11	5	2	1
22.04.07	Jonail (10)	Borni	5	19	14	5	1	1
26.08.07	"	Kushmail	4	14	11	3	-	1
20.09.07	"	Jonail	4	10	7	3	1	-
25.04.07	Parcole (11)	Parkol Khapara	4	16	13	3	2	1
21.06.07	"	Agran	4	17	13	4	1	1
29.04.07	Kachua (12)	Aurjunpur	5	23	18	5	1	2
17.06.07	"	Kashempur	4	20	16	4	1	1
Total			128	375	276	99	29	28

Annex. IV:

**Implementation of Mobile Plant Clinic
with Fixed Plant Health Problem(s) at
Communities**

Tables. 4a – 4j

Table. 4a: List of plant health problems of 17 fixed mobile plant clinic events of Pointed gourd, Mango and Country bean

SL #	Crop	Disease	Insects
1	Pointed gourd	Root knot	Red mite
2	Mango	Anthracnose Malformation	Mango nut weevil
3	Country bean	Anthracnose	Bean pod borer

Table. 4b: Crop wise summary table at 17 fixed mobile plant clinic events of Pointed gourd, Mango and Country bean

SL #	Crop	MPC (fixed problem) (Nr.)	Problem demonstrated (Nr.)			Participants (Nr.)			Prescription (Nr.)	CPDs (Nr.)	GCs (Nr.)
			Disease (Nr.)	Insect (Nr.)	Total	M	F	Total			
1	Pointed gourd	6	6	6	12	116	2	118	100	3	9
2	Mango	10	20	10	30	235	15	250	161	7	13
3	Country bean	1	1	1	2	30	-	30	9	-	1
Total		17	27	17	44	381	17	398	270	10	23

Table. 4c: Summary table on Seven (7) plant health problems demonstrated and recommended management practices at 17 MPC (fixed problem) events

SL #	Problems/Management	Total (Nr.)	Average/MPC (fixed problem) Nr.
A. Plant health problem			
1	Disease		
(a)	Fungi (3)	21	1
(b)	Nematode (1)	6	-
2	Insect (3)	17	1
Total		44	2
B. Management Practices (Prescription)			
1	Pesticide cum cultural practices	237	14
2	Pesticide cum mechanical practices	33	2
Total		270	16

Table. 4d: Crop wise plant health problems and recommended management practices at 17 fixed mobile plant clinic events of Mango, Pointed gourd and Country bean

SL #	Crop	Plant health problems (Nr.)				
		Fungi	Nematode	Total	Insect	Total
1	Pointed gourd	-	6	6	6	6
2	Mango	20	-	20	10	10
3	Country bean	1	-	1	1	1
Total		21	6	27	17	17
SL #	Crop	Management practices				Remarks
		Pesticide cum cultural practices	Pesticide cum mechanical practices	Total		
1	Pointed gourd	100	-	100		
2	Mango	134	27	161		
3	Country bean	3	6	9		
Total		237	33	270		

Table.4e: Date, PC name/others, venue, health problems, participants, prescriptions, CPDs and GCs of 6 mobile plant clinic (fixed problems) events of Pointed gourd

SL #	Date	PC name (Nr.)/others	Venue	Crop name	Problems (Nr.)	Participants (Nr.)			Prescription (Nr.)	CPDs (Nr.)	GCs (Nr.)
						M	F	Total			
1	16.03.07	Perbagdob (5)	panguin	Pointed gourd	2	21	-	21	16	1	2
2	04.04.07	"	Perbagdob	"	2	20	-	20	20	-	2
3	07.04.07	"	Tulsho	"	2	24	-	24	19	-	1
4	08.04.07	"	Bagdob	"	2	18	1	19	17	1	1
5	17.04.07	Ahamadpur (1)	Joari bazar	"	2	15	1	16	15	-	1
6	20.04.07	Tirail (7)	Mondolpara	"	2	18	-	18	13	1	2
Total					12	116	2	118	100	3	9

Table. 4f: Date wise 6 events of mobile plant clinic (fixed problems) of Pointed gourd

Date	PC name & (Nr.)	Venue	Plant health problems demonstrated	
			Disease	Insect
16.03.07	Perbagdob (5)	Panguin	Root Knot	Red mite
04.04.07	"	Perbagdob	"	-
07.04.07	"	Tulsho	"	-
08.04.07	"	Bagdob	"	-
17.04.07	Ahamadpur (1)	Joari bazar	"	-
20.04.07	Tirail (5)	Mondol para	"	-

Table. 4g: Date, PC name, venue, plant health problems, participants, prescriptions, CPDs and GCs at 10 mobile plant clinic (fixed problems) events of Mango

SL #	Date	PC name (Nr.) / others	Venue	Crop name	Problems (Nr.)	Participants (Nr.)			Prescription (Nr.)	CPDs (Nr.)	GCs (Nr.)
						M	F	Total			
1	23.03.07	Ahamadpur (1)	Rachuakara	Mango	3	24	2	26	15	1	2
2	28.03.07	"	Karbala	Mango	3	18	1	19	11	1	1
3	02.04.07	"	Balia	Mango	3	21	-	21	14	-	1
4	05.04.07	"	Kamardha	Mango	3	23	1	24	16	-	1
5	06.04.07	Tirail (7)	Tirail	Mango	3	28	3	31	20	1	2
6	10.04.07	"	Joari	Mango	3	23	1	24	17	1	1
7	11.04.07	"	Notabaria	Mango	3	32	3	35	23	1	1
8	13.04.07	"	Mondolpara	Mango	3	27	1	28	19	-	1
9	24.04.07	Percole (11)	Agran	Mango	3	18	2	20	12	1	2
10	28.04.07	"	Khapara	Mango	3	20	1	21	14	1	1
Total					30	234	15	249	161	7	13

Table. 4h: Date wise mobile plant clinic (fixed problems) at 10 events of Mango

Date	PC name & (Nr.)	Venue	Plant health problems demonstrated	
23.03.07	Ahamadpur (1)	Rachuakara	1. Anthracnose 2. Malformation	1. Mango Nut weevil
28.03.07	"	Karbala	"	"
02.04.07	"	Balia	"	"
05.04.07	"	Kamardha	"	"
06.04.07	Tirail (7)	Tirail	"	"
10.04.07	"	Joari	"	"
11.04.07	"	Notabaria	"	"
13.04.07	"	Mondolpara	"	"
24.04.07	Percole (11)	Agran	"	"
28.04.07	"	Khapara	"	"

Table. 4i: Date, PC name, venue, plant health problems, participants, prescriptions, CPDs and GCs at 1 mobile plant clinic (fixed problems) event of Country bean

SL #	Date	PC name & (Nr.)	Venue	Crop name	Problems (Nr.)	Participants (Nr.)			Prescription (Nr.)	CPDs (Nr.)	GCs (Nr.)
						M	F	Total			
1	25.11.07	Rajendrapur (1)	Gopalpur	Country bean	2	30	-	30	9	-	1
Total					2	30	-	30	9	-	1

Table. 4j: Date wise mobile plant clinic (fixed problems) at 1 event of Country bean

Date	PC names (Nr.)	Venue	Plant health problems demonstrated	
			Disease	Insect
25.11.07	Rajendrapur (9)	Gopalpur	1. Anthracnose	Bean pod borer

Annex. V:

**Implementation of Going Public with
Fixed Plant Health Problem(s) at
Public Places**

Tables. 5a – 5n

Table. 5a: A Going public event on two Plant health problems of Mung bean

Date	PC name (Nr.) / Others	Venue	Plant health problems demonstrated	
			Disease	Insect
21.04.2007	Ahamadpur (1)	Kamardha	Bean mosaic	Leaf feeding caterpillar

Table. 5b: Date, PC name, venue, health problems, participants, prescriptions, CPDs, GCs and specialists of a going public event of Mung bean

Date	PC name (Nr.)	Venue	Crop name	Problems (Nr.)	Participants (Nr.)			Prescription (Nr.)	CPDs (Nr.)	GCs (Nr.)	Specialists (Nr.)
					M	F	Total				
21.04.07	Ahamadpur (1)	kamardha	Mung bean	2	62	-	62	34	-	2	-
Total				2	62	-	62	34	-	2	-

Table. 5c: Two events of going public on a plant health problem of pointed gourd

Date	PC name (Nr.)	Venue	Plant health problems demonstrated	
			Disease	Insect
11.04.2007	Ahamadpur (1)	Joari bazar	Root knot	-
25.04.2007	Perbagdob (5)	Perbagdob bazar	Root knot	-

Table.5d: Date, PC name, venue, health problems, participants, prescriptions, GCs, CPDs and specialists at 2 going public events of Pointed gourd

Date	PC name (Nr.)	Venue	Crop name	Problems (Nr.)	Participants (Nr.)			Prescription (Nr.)	CPDs (Nr.)	GCs (Nr.)	Specialists (Nr.)
					M	F	Total				
11.04.07	Ahamadpur (1)	Joari	Pointed gourd	1	83	-	83	51	1	1	-
25.04.07	Perbagdob (5)	Perbagdob bazar	Pointed gourd	1	75	-	75	43	2	2	-
Total				2	158	-	158	94	3	3	-

Table. 5e: Seven events of going public on three plant health problems of Mango

Date	PC name & (Nr.)	Venue	Plant health problems demonstrated	
			Disease	Insect
03.03.07	Ahamadpur (1)	Ahamadpur bazar	1.Anthracnose 2. Malformation	1. Fruit weevil
15.03.07	Ramaigari (2)	Ramaigari bazar	“	“
23.03.07	Ahamadpur (1)	Ahamadpur bazar	“	“
28.03.07	Percole (11)	Percole bazar	‘	“
10.04.07	Jonail (10)	Jonail bazar	“	“
13.04.07	Tirail (7)	Tirail bazar	“	“
19.04.07	Moukhara (6)	Moukhara bazar	“	“

Table. 5f: Date, PC name, venue, health problems, participants, prescriptions, CPDs, GCs and specialists of 7 going public events of Mango

Date	PC name (Nr.)	Venue	Crop name	Problems (Nr.)	Participants (Nr.)			Prescriptions (Nr.)	CPDs (Nr.)	GCs (Nr.)	Specialists (Nr.)
					M	F	Total				
03.03.07	Ahamadpur (1)	Ahamadpur bazar	Mango	3	93	-	93	51	1	2	-
15.03.07	Ramaigari (2)	Ramaigari bazar	“	3	101	2	103	46	1	1	-
23.03.07	Ahamadpur (1)	Ahamadpur bazar	“	3	86	-	86	41	1	2	-
28.03.07	Percole (11)	Percole bazar	“	3	84	1	85	49	1	2	-
10.04.07	Jonail (10)	Jonail bazar	“	3	117	-	117	68	2	2	-
13.04.07	Tirail (7)	Tirail bazar	“	3	82	-	82	52	2	-	-
19.04.07	Moukhara (6)	Moukhara bazar	“	3	120	-	120	74	1	1	-
Total				21	683	3	686	381	9	10	-

Table. 5g: Five events of going public on a plant health problem of Sugarcane

Date	PC name & (Nr.)	Venue	Plant health problems demonstrated	
			Disease	Insect
06.09.07	Ramaigari (2)	Baimaly	-	Sugarcane top shoot borer
11.09.07	“	Vobanipur	-	“
18.09.07	“	Atghoria	-	“
19.09.07	Merigachhi (4)	Mosinda	-	“
23.09.07		Gormaty bazar	-	“

Table. 5h: Date, PC name, venue health problems, participants, prescriptions, CPDs, GCs and specialists at 5 going public events of Sugarcane

Date	PC name (Nr.) / others	Venue	Crop name	Problems (Nr.)	Participants (Nr.)			Prescriptions (Nr.)	CPDs (Nr.)	GCs (Nr.)	Specialists (Nr.)
					M	F	Total				
06.09.07	Ramaigari (2)	Baimaly	Sugarcane	1	56	3	59	25	1	1	-
11.09.07	"	Vobanipur	"	1	91	-	91	31	2	2	-
18.09.-7	"	Atghoria	"	1	99	-	99	39	1	2	-
19.09.07	Merigachhi (4)	Mosinda	"	1	95	2	97	35	1	1	-
23.09.07		Gormaty bazar	"	1	72	-	72	27	-	1	-
Total				5	413	5	418	157	5	7	-

Table. 5i: Two going public events on two plant health problems of Brinjal

Date	PC name & (Nr.)	Venue	Plant health problems demonstrated	
			Disease	Insect
19.09.2007	Moukhara (6)	Moukhara Bazar	-	Brinjal shoot & Fruit borer
26.11.2007	Jonail (10)	Jonail Bazar	-	Epilachna beetle

Table. 5j: Date, PC name, venue, health problems, participants, prescriptions, CPDs, GCs and specialists at two going public events of Brinjal

Date	PC name & (Nr.)	Venue	Problems (Nr.)	Participants (Nr.)			Prescriptions (Nr.)	CPDs (Nr.)	GCs (Nr.)	Specialists (Nr.)
				M	F	Total				
19.09.07	Moukhara (6)	Moukhara Bazar	1	64	-	64	31	1	1	-
26.11.07	Jonail (10)	Jonail Bazar	1	88	8	96	45	2	1	1
Total			2	152	8	160	76	3	2	1

Table. 5k: Crop wise plant health problems of 17 going public events

SL #	Crop	Plant health problem (Nr.)				
		Fungi	Virus	Nematode	Total	Insect
1	Mung bean	-	1	-	1	1
2	Pointed gourd	-	-	2	2	-
3	Mango	14	-	-	14	7
4	Sugarcane	-	-	-	-	5
5	Brinjal	-	-	-	-	2
Total		14	1	2	17	15

Table. 5l: Crop wise recommended management practices at 17 going public events

SL #	Crop	Management Practices
		Pesticide cum cultural practices
1	Mung bean	34
2	Pointed gourd	94
3	Mango	381
4	Sugarcane	157
5	Brinjal	76
Total		742

Table. 5m: Crops, GP events, plant health problems, participants, prescriptions, CPDs GCs and specialists at 17 going public events

SL #	Crop	GP events (Nr.)	Problems demonstrated (Nr.)			Participants			Prescriptions (nr.)	CPDs (Nr.)	GCs (Nr.)	Specialist (Nr.)
			Disease	Insect	Total	M	F	Total				
1	Mung bean	1	1	1	2	62	-	62	34	-	2	-
2	Pointed gourd	2	2	-	2	158	-	158	94	3	3	-
3	Mango	7	2	1	3	683	3	686	381	9	10	-
4	Sugarcane	5	-	1	1	413	5	418	157	5	7	-
5	Brinjal	2	-	2	2	152	8	160	76	3	2	1
Total		17	5	5	10	1468	16	1484	742	20	14	1

Table. 5n: Summary table on 10 plant health problems demonstrated and recommended management practices at 17 going public events

SL #	Problems / Management	Total (Nr.)	Average / GP (Nr.)
A. Plant health problem			
1	Disease		
	(a) Fungi	14	1
	(b) Virus	1	-
	(c) Nematode	2	-
2	Insect	15	1
Total		32	2
B. Management practices			
1	Pesticide cum cultural practices	742	46
Total		742	46