



Bangladesh Water Development Board (BWDB)



Kingdom of the Netherlands



Department of Agricultural Extension (DAE)

Embassy of the Kingdom of the Netherlands (EKN) Dhaka, Bangladesh



**Training Report
Community Animal Health workers (CLW)
Blue Gold from 22 to 27 February, 2018**



Training report

Community Livestock Workers

February, 2018

Blue Gold Program

BWDB Office

23/1 Motijheel Commercial Area, Hasan Court, 8th Floor, Dhaka
1000

(T) +88 02 711 15 25; +88 02 956 98 43

DAE Office

502, Middle Building, Khamarbai, Farmgate, Dhaka-1215

(M) +88 01534006158

Gulshan Office

Karim Manjil, Ground Floor, House 19, Road 118, Gulshan, Dhaka
1212

(T) +88 02 989 45 53



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Issue and revision record

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1. Introduction

The concept of community-based animal health workers (CAHWs) probably arose from experiences in the human health sectors. The terminology “barefoot vets” seems to derive from china’s successful and on-going use of “barefoot doctors” to bring basic services to the masses.

Growing interest in CAHW systems is largely related to the high impact on animal health and human livelihoods resulting from improved basic veterinary care in polder communities.

The Blue Gold Program has been implementing Farmers Field School (FFS) in different polders using specific curriculum of livestock, fisheries and agriculture. Farmers need different technical supports to take care of their animals and birds. However, they do not have access to control or treat parasitism and many communicable diseases. But they have got knowledge from FFS on animal rearing which can effectively enhance income and food security. Furthermore, in order to ensure safe food supply from food-borne hazards and protecting farmers against transfer of novel diseases from animal to human, CAHW can play a vital role in these issues with the assistant of livestock department. Based on recommendations made by the Annual Review Mission (2016) Blue Gold is aiming to withdraw FO’s role in conducting fish/livestock FFS. For the 10 new polders, we will therefore have to develop new facilitators who can run these FFSs while still maintaining quality of the FFS. In order to sustain Blue Gold livestock activities in the WMG, management has decided to develop some of the FTs into CAHWs in 10 new polders. Six days long training program has been organized for capacity building of FTs on CAHW service system. The training was inaugurated by District Livestock Officer of Khulna and Focal Point of DLS at CSS Ava centre. As there is a shortage of manpower in the livestock department, these CAHW would be playing an excellent role to assist livestock production in the polders. They are not only servicing the WMG members but also securing their livelihood. For sustainable BGP activities in the polders, CAHW will be one of the significant pillars for WMG.

Day 01

Training was started with pre-evaluation of the FTs on testing their knowledge on vaccines and vaccination services then went for the opening session. It was inaugurated by Dr. Sayed Anwerul Islam, District Livestock Officer of Khulna. In his inaugural speech he said that FTs would be acting as a community member of Department of Livestock Services (DLS). They will earn by vaccination services. He told them, “You learn and give the services to the WMG peoples”. Cattles are valuable assets of a farmer and it helps to maintain ones livelihood also. FTs are going to get another professional training which is very much needed for our country. DLS have shortage of manpower, so they can act as an assistant of the department for the improvement of livestock in the country. He advised the FTs to provide quality services so that farmer can get proper service and there would be no fraudulent behavior with them. This will be their halal income and take money by serving the farmers. They are young and energetic, and will have more time to give service to the community. Communicate with respective local offices and if needed, they may ask him/her any time. DLS is very good partner of Blue Gold and always support to its activities.

The focal point admired DLO of Khulna for his involvement in BGP program and very much supportive to BGP activities. He welcomed Satkhira and Patuakhali FTs to this course also. He emphasized rapport build up with respective upazila offices and suggested them to make strong linkage with officers. As most of the cattle vaccines are available in the DLS, so that FTs should be good communicator in this regards for getting better support from ULOs.

Mr. Zahangir mentioned that zonal coordinator Mr. Matior Rahman was involved in another training in Kustia and he would come in the training later on. He appraised the trainers and said that they were skilled and they knew how to develop a person. Furthermore, he requested new CAHWs to be attentive in the training and go back to respective residential areas as a resource person for the polder community.



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The course objective was narrated by Dr. Munir Ahmed. He said that FTs would become animal health service provider. The course was designed with whole practical activities by hands on, dummy vaccination practice, practice on real animal, and finally field practice in the WMG level.

The Whole inauguration session facilitated by Mr. Golam Murtuza, Training Coordinator, BGP.

Then Mr. Murtuza took session on training norms and participants' expectation from the training of the participants. The main expectations were;

- Wanted to know vaccines
- Wanted to know about animal diseases
- Wanted to know about animal feed and fodder requirements
- Wanted to know where and how the can get the vaccines

Facilitators: Dr. Munir Ahmed, Livestock Expert, BGP, Dr. Sayed Anwerul Islam, DLO Khulna, Dr. Md. Lutfor Rahman, Focal Point DLS, Dr.Md. Shariful Islam, ULO Dumuria and Biswas Ali Mortoza, Training Coordinator, BGP

Method: Participatory discussion and practical

The topics were facilitated like training norms, participants' expectation, working strategy of CLW, Different breed of cattle and its characteristics, handling and restraining methods of cattle and concept and process of artificial insemination and its implication on vaccination services.

Day 02

Facilitators: Dr. Md. Lutfor Rahman, Focal Point DLS, Dr. Swapan kumer Ray ULO Batiaghata, Dr. Munir Ahmed, Livestock Expert, BGP and Biswas Ali Mortoza, Training Coordinator, BGP

Methods: Practical, group work and Interactive discussion

The day two started with recap session by Host Team leader (HTL), questions, answer and participatory discussion was taken to fill up the gap of the sessions. The sessions were taken place on Common Parasitic diseases, types of parasites, internal helminths (roundworms, tapeworms and flukes) as well as external arthropods (mites, lice, ticks, and flies). Protozoal disease, common symptoms, treatment, control method of parasitic diseases and common nutritional diseases like Bloat, Grass tetany, Hypocalcaemia (milk fever), Ketosis (pregnancy toxemia) and its symptoms, treatments, vaccines and vaccination, method of vaccines, types of vaccines like FMD, Anthrax, BQ, HS, and management of vaccines cold chain etc. were discussed at the sessions. The purpose of the vaccine “cold chain” is to maintain product quality from the time of manufacture until the point of administration by ensuring that vaccines are stored and transported within WHO recommended temperature ranges.

In the evening time, Mr. Md. Aminul Islam PCD, BWDB, Mr. Md. Mator Rahman, ZC, Khulna Mr. Md. Shorab Hossain ZC Patukhali and Mr. Md. Awolad Hossain institutional advisor BGP attended in the training. In the session, Mr. Awolad said that FTs should use the training knowledge and take it as profession. Besides, they might expand their knowledge by horizontal learning approach. He suggested them to be linked with UP where they can get sitting arrangement and their business will be more door step to the farmers.

Mr. Shorab Hossain expected that CLWs would learn properly, attentive in the training, use kit materials properly and play effective role in the WMG. Mr. Mator Rahman also expected from CLWs that they would emphasize on practical works, be a skilled vaccinator, and showed an effective role in polder level so that WMG members might get benefit from them. PCD showed his satisfaction observing the training and advised them that the CLWs would continue making good relation with government agencies after finishing Blue Gold. Play effective role for the improvement of livestock production, food security and economic activity.

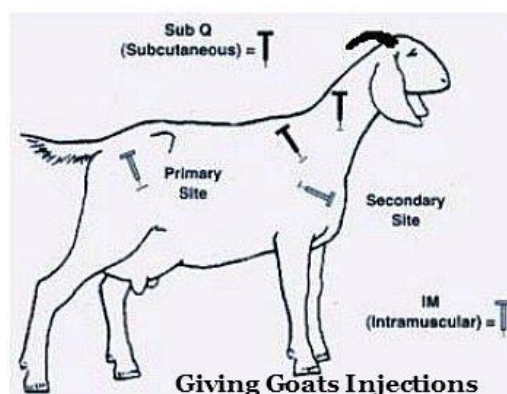
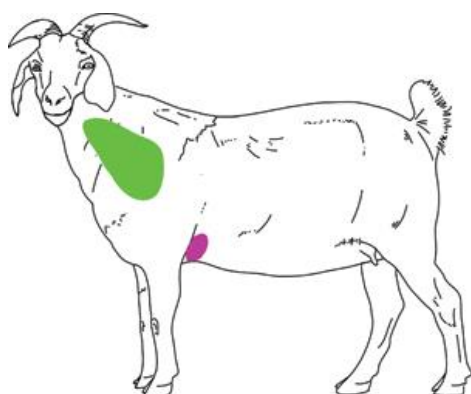


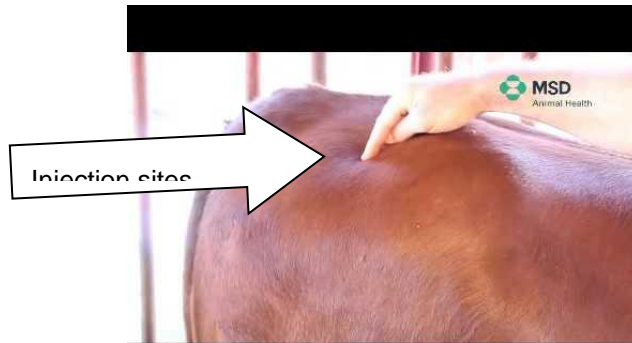
Day 03

Facilitators: Dr. Shusen Kumer Halder, ULO, Fultala, Dr. Bangkim Kumer Halder, VS, Batiaghata, Dr. Munir Ahmed, Livestock Expert, BGP and Biswas Ali Mortoza, Training Coordinator, BGP

Method: Practical, group work and Interactive discussion

The session covers on this day on different type of feeding technology and feeding system for beef fattening and dairy cattle, thump role feeding practices, introducing different feed ingredient and its practical demonstration, hands on practice on one kg ration formulation, UMS preparation. Cultivation method of high yielding fodder crops like Napier, Para, Jamboo and local variety. Practical demonstration of vaccination process, vaccination and injection sites of animals are also covered in the sessions.





Day 04

Facilitators: Dr. Munir Ahmed, Livestock Expert, BGP and Biswas Ali Mortoza, Training Coordinator, BGP

Method: Practical, and Interactive discussion

The whole day was occupied with practical activities on identification of vaccines and vaccine equipment and its functions (Kit box), Firstly, dummy practice was done on banana tree and then on real animal body. All participants practiced vaccine application until their hands become free and the session makes them confident.





Day 05

Field vaccination campaign has been arranged for real situation practice at Tonla WMG in polder 25. After arriving in the WMG, the EC members of Tolna WMG welcomed the participants and then started the vaccination program. A travis has been set up by WMG members for controlling the animals during vaccination time at Tolna high school playground. Four types of vaccines like FMD, anthrax, HS and PPR had been practiced there. Around two hundred cattle and ninety goats were being vaccinated from 7.30 to 10.30 AM. A participant learned how to organize vaccination campaign, handling and controlling the animals, deal with client and registration procedures of animals in the field. All participants became more confident from this vaccination campaign. In the afternoon, an interaction



discussion held on to analyze what went wrong during vaccinations in the real field situation. Then, discussed on what precautionary measurement to be taken during pre and post vaccination campaign, etc.

Day 06

Day six started with recap by HTL. Then a session was started on record keeping for vaccination registration and role and responsibility of community livestock workers. Under this session they learned on vaccination register, vaccination card's management, monthly demand plan preparation and report writing. Another session was on how to develop them as private entrepreneurs in the local community (Business Plan). On this session they learned about business issues. The closing session was organized in the afternoon where District Livestock Officer, Zonal Coordinator Khulna, Civil Engineer, Senior Socio Economist of Blue Gold were present. DLO said that CLWs are very important person and become a professional for the livestock department and they would be acting as extension agents on behalf of respective upzaila livestock offices. He advised them to make strong linkage and be a good professional. In this session, participants said that they were satisfied and being confident from the training. They committed for their new role and responsibility as a CLW to BGP. They thanked to Blue Gold for



Blue Gold Program



organizing the training and creating new avenue for their livelihood and improvement of livestock production of WMG.

1. Annexure 01

Day	Time	Topics	Methods	Facilitator/Resource Persons
1st day (22.02.18)	09.00-09.30 AM	Registration		
	09.30-10.00 AM	Introduction and objective of the course <ul style="list-style-type: none"> • Inauguration • Introduction/ice breaking • Objectives of the course , Goal and importance • raining norms 	PPT, white board, Poster papers	Guy-TL, Alamgir-DTL, DLO-Khulna, FC, Zonal Team Khulna and Munir-LE
	10.00-11.00 AM	Pre-evaluation	Written test	Munir/TC
	11.00-11.15 AM	Tea Break		
	11.15-12.00 PM	Expectation of CAHWs from this course <ul style="list-style-type: none"> • What is their anticipation? • Sharing experiences 	Interactive discussions, poster paper	Munir/TC
	12.00-01.00 PM	The Role of CAHW & working strategy in the Community <ul style="list-style-type: none"> • Role of Blue Gold .How to improve livelihood of rural farmers through livestock rearing in Blue Gold Area? • Department of Livestock Services, • WMG and CDF for making sustainable program in the polder area 	Interactive discussion, PPT, Group Work	DLO/Munir
	01.00-02.00 PM	Lunch and prayer Break		
	02.00-03.00 PM	Economic importance of small scale farming and Cattle breeds available in Bangladesh with their characteristics <ul style="list-style-type: none"> • What is farming? • Why farming is important for the rural poor community to improve their livelihood? • How to do small scale farming? 	PPT, interactive discussion	Munir/ULO

		<ul style="list-style-type: none"> • What is cattle breed? • What are the types of available breed in Bangladesh? • Brief discussion on characteristics of common breed in Bangladesh. 		
	03.00-04.00 PM	Artificial Insemination (AI) <ul style="list-style-type: none"> • What is AI? • Why is it important for cattle improvement? • Advantage of AI • When do you perform AI? • How do you detect AI? • Present AI situation in Bangladesh. • Can I be an AI worker and how? • What types of semen are used in Bangladesh? • Vaccination effect on AI? 	PPT, Group work	ULO Dumuria
	04.00-4.45 PM	Handling & Restraining of Livestock <ul style="list-style-type: none"> • Casting and its methods • What is casting? • Types of casting? • Simple techniques for cattle and buffalo handling • Simple techniques for sheep and goat handling 	PPT, Practical	Focal point (FC)
	04.45-.05.00	Tea Break		
2 nd day (23.02.18)	09.00-09.30 AM	Recap		Munir/TC
	09.30-11.00 PM	Feeding management for cattle (Concentrate and fodder) <ul style="list-style-type: none"> • Introduction to different type of feeding technology and feeding system for beef fattening and dairy cattle • Thumb role feeding practices for beef fattening and dairy cattle • Demonstration of various types of concentrate feed ingredients • One Kg ration (balance) formulation (Practical) • Hands on practice of Urea Molasses Straw (UMS) preparation • Cultivation pattern of fodder • Precaution of UMS and urea feeding • Daily care and management of Cattle. 	Group work, Practical work, Live demonstration	ULO Fultala
	11.00-11.15 AM	Tea Break		
	11.15- 12.00 PM	Identification of different parts of the body and its function with Practical <ul style="list-style-type: none"> • Surface anatomy • Vaccination sites identifications for cattle/Goat/Sheep 	Group Work. PPT, Practical	Focal point
	12.00-01.00 PM	Common Diseases of ruminants and its causes <ul style="list-style-type: none"> • What is disease? What are the causes of diseases? 	PPT, Interactive discussion	ULO-Batiaghat a

		<ul style="list-style-type: none"> Identify healthy and unhealthy animals. What are the common diseases of livestock on the basis of species 		
	01.00-02.00 PM	Lunch and prayer Break		
	02.00-03.00 PM	Common Bacterial diseases-Anthrax, Tetanus (Cause, symptoms and prevention)	PPT, Poster paper, interactive discussion	VS-Dumuria
	03.00- 04.30 PM	Common Bacterial diseases-BQ & HS, Botulism (Cause, symptoms and prevention)	PPT, Poster paper, interactive discussion	Focal point
	04.30-05.00 PM	Tea Break		
3 rd day (24.02.18)	09.00-09.30 AM	Recap		Munir
	09.30-11.00 AM	Common Viral diseases-FMD, EFV, PPR, viral diarrhoea (Cause, symptoms and prevention)	PPT, Poster paper, interactive discussion	Munir
	11.00-11.15 AM	Tea Break		
	11.15-01.00 PM	Discussion on Common Parasitic diseases and Common nutritional diseases (Cause, symptoms and prevention)	PPT, Poster paper, interactive discussion	Focal point
	01.00-02.00 PM	Lunch and prayer Break		
	02.00-4.00 PM	Discussion on vaccines <ul style="list-style-type: none"> What is vaccine and vaccination? What are the Types of vaccines? How do vaccines work in living being? Importance of vaccines Methods of vaccinations 	PPT, Poster paper, interactive discussion, Practical	VS, Batiyaghta
	04.00-05.00 PM	Discussion of management of vaccines cold chain <ul style="list-style-type: none"> What is preservation of vaccines? Generals rules for Vaccines preservation, Preservation technique, Temperatures and preservation time, why is it important? Safe handling and storage of vaccines Why transportation is responsible for vaccination failure? Technique of vaccine transportations Vaccination schedules for livestock 	Poster paper, Interactive discussion	Focal Point

		<ul style="list-style-type: none"> Cautions of vaccination 		
4 th day (25.02.18)	09.00-09.30 AM	Recap		Munir
	09.30-11.00 AM	Identification of vaccine and vaccine equipments and its functions (Kit box) <ul style="list-style-type: none"> What is kit box? Identifying vaccines ,vaccination equipments and its functions How to use vaccines tools? Hands on practice of identifying various vaccination equipments How to sterilize the vaccine equipments? 	Poster paper, Practical	Munir
	11.00-11.30 AM	Tea Break		
	11.30-01.00 PM	In house Practical class on vaccination of large/small ruminants.	Practical	Munir/Focal Point/VFA-Dumuria
	01.00-02.00 PM	Lunch and prayer Break		Munir
	02.00-05.00 PM	Vaccination practices		
5 th day (26.02.18)	06.00-11.30 AM	Field vaccination campaign <ul style="list-style-type: none"> Group formation Site selection Transportation Complete vaccination campaign 	Practical	Munir and Zonal Team
	01.00-02.00 PM	Lunch and prayer Break		
	02.00-03.00 PM	Sharing and feedback of field practice (group work) and Organize a successful campaign for vaccination	Group work, Interactive discussion	Munir
	03.00-05.00 PM	Castration methods of kids & bull calf with practical <ul style="list-style-type: none"> What is castration? Methods of castration? Cautions for castration Post management of castration 	Interactive discussion and Practical	ULO Dumuria
6 th day (27.02.18)	09.00-09.30 PM	Recap		
	09.30-10.30 AM	Common zoonotic diseases and Control measurements in Bangladesh (Anthrax, Rabies etc) <ul style="list-style-type: none"> What is zoonotic disease? Causes and symptoms of Rabies and Anthrax 	PPT, Interactive discussion	Focal Point
	10.30-10.45 AM	Tea Break		

10.45-11.30	Record keeping (VC & Register)and work plan for CLW <ul style="list-style-type: none"> • Vaccine register preparation • Using Vaccination cards (VC) • Report preparation • Monthly demand plan preparation • Work plan preparation 	Group Work, Practical,	Munir
11.30-01.30 PM	Develop as private entrepreneurs in the local community (Business Plan)	PPT, Group work, interactive discussion	Shahidul
01.30-02.30 PM	Lunch and prayer Break		
02.30-03.30 PM	Post-evaluation	Written test	Munir
03.30-04.40	Evaluation of expectation of CLWs from this course	Interactive discussion	Munir
04.30 -05.00	Tea Break		
07.00-08.00 PM	Closing of the course and certificate and kit box distribution <ul style="list-style-type: none"> • Closing address • Certificates and kit box distribution 		Guy-TL, Alamgir-DTL,Foca I Point, Munir, DLO and Zonal Team

1. Annexure 02

**List FT cum
 Community
 Livestock
 worker**

SL	Name	Polder No.	Sex	Education	Village	Union	Mobile No.
1	Nuton Biswas 1	28/01//	M	BA	Lota	Gutudia	1965889908
2	Shekh Ismail Hossain 5	27//02	M	HSC	Gutudia	Gutudia	1918720215
3	Pankaj Kumar Mollick 4	28/01//	M	HSC	Porchim bil Pabla	Gutudia	1729365362
4	Tanmoy Mollick 6	25	M	BA	Ghona Mather danga	Rangpur	1915827725
5	Md. Abdus Sattar Shekh 11	27//1	M	BA	Dumuria	Dumuria	1938604395
6	Himangshu Boiragi 18	25	M	HSC	Krisna nagar	Raghunathpur	1740651125
7	Md. Azizul Haque Golder 25	34/2 part	M	BSS	Birat	6 No. Baliadanga	1967550288
8	Md. Monirul Islam 31	25	M	HSC	Kharsanga	Rudaghara	1928857085

9	Mohammad Mamun Islam 34	25	M	HSC	Chechuri	1 No. Dhamalia	1912742136
10	Taposh Kumar Biswas-29	25	M	BSS	Damudar	2 No. Damudar	1726844386
11	Md. Yousuf Ali 1	47/3	M	BA	Purba Maddhakhali	4 No. Mirjagonj	1724412530
12	Rasel Hawlader	47/4	M	HSC	Baishakhola	Mithagonj	1746248658
13	Md. Rasel 9	47/4	M	BA	Musullabad	Baliatali	1718276983
14	Md. Harun-or- Rashid 17	55/2C	M	Kamil/MA	Bashbaria	Kalagachhia	1721186120
15	Md. Nazrul Islam 19	55/2C	M	BA	Lamna	Bakulabaria	1735648177
16	Md. Sujan Ghorami 23	55/2A	M	HSC	Batachar Balaikathi	Kamalapur	1710501308
17	Md. Al-Amin 32	55/2A	M	MA	Chhankhola	8 No. Bakulbaria	1738952336
18	Rashed Ali	2	M	HSC	Chelar Beeler Khal	Brahmarajpur	1742457474
19	Emdadul Haque	2	M	MSS	Ghosh Khali Khal	Fingri	1743387709
20	Abdus Salek Mali	2	M	HSC	Gobindopur Uttor	8 No. Dhulihar	1778106826

