

## Completion Report

of

## Workshop on Perch Method of Local Breed Goat Rearing



## **Background and Rationale**

WAVE Foundation, a Civil Society Organization emerged in 1990 in Bangladesh. WAVE launched its development pursuits aiming at integrated development emphasizing economic, human and skill development of organized women. In its relentless effort since the last 29 years in the development field, the organization has been implementing multifaceted interventions on various pressing issues like basic rights together with right to food and rights of the poor and marginalized communities with emphasis on women-youths-children, access to justice, democratic decentralization and local-self-government, responsiveness of public service and institutions, election observation, economic empowerment and employment through microfinance, agriculture and livestock development with focus on Black Bengal Goat-BBG, value chain, holistic community development, health and education service, renewable energy, human resource and productive skill development and so on. At present WAVE is working in 3 sectors as follow; 1. Rights and Governance, 2. Community Finance and 3. Livelihood and Human Resource Development. Networking at various levels and policy advocacy are significant areas of WAVE's program implementation approach.

Uplifting the lives and livelihood of its development participants is the prime focus of WAVE's *Livelihood and Human Resource Development Sector*. Food Security and Nutrition, Agriculture (Crop & Aquaculture), Livestock (Black Bengal Goat, Sheep & Cow Rearing), Value Chain, Disaster Risk Reduction and Climate Adaptation, Health & Educational Services, Holistic Community Development, Human Development Training, Skill Development Training and Employment etc. are some of the key issues of this sector. *Food Security and Agriculture Program* is one of the major programs under this sector where perch method of Black Bengal Goat-BBG rearing is playing a vital role in transforming the economic condition of the extreme poor and poor people. Introducing perch method of BBG rearing for poverty alleviation is considered as one of the key innovations of WAVE Foundation. Black Bengal Goat farming as the flagship program of WAVE Foundation was initiated in 2008 in Chuadanga district.

WAVE Foundation enriches its development pursuits through an interactive learning process with its partners, participants and other stakeholders. As the continuity of the process, WAVE has undertaken a knowledge exchange program supported by FK Norway. Under this project, WAVE Foundation in Bangladesh and DHAN Foundation in India have been facilitating the process of exchanging personnel for professional development. The project is titled 'Small Farming a Viable Business' beginning from November, 2017. As a part of the process, WAVE aims at attaining knowledge, skill and experience on Farmers Producers organization (FPO) while DHAN is focusing on Black Bengal Goat (BBG) rearing especially in the area of gene conservation, breeding and farm management. The exchange program aims at enhancing the capacity of professionals from both WAVE Foundation and DHAN Foundation in the area of advance level interventions in agriculture and livestock. The project contributes to increase the scope of sharing knowledge, expertise and experience at organizational and beneficiaries level. It will also contribute in livelihood and entrepreneurship development and eventually promote small farming as viable business.

Just after the completion of first round of the project, it is revealed that the professional relationship between two partner organizations (WAVE Foundation and DHAN Foundation) are more closer and stronger than at the initial stage. Through this process, both the organizations are trying to find out more scope and opportunities to enhance knowledge, skills and capacity beyond the project. As part of 1<sup>st</sup> initiative to address the DHAN Foundation's requirement, WAVE Foundation is going to organize and facilitate a 03 days residential Workshop on **Perch Method of Local Breed Goat Rearing** in June 2019 by support of ABC (Agricultural Bio-diversity Committee), India facilitated by DHAN Foundation, India. DHAN Foundation relevant professionals of Balasore and Mayurbhanj, Orissa, India along with WAVE professionals would participate in the workshop. A total of 18 professionals would participate in the workshop and along with 04 Facilitators and Organizers.

## Objectives

- Understanding the scientific management of goat rearing
- Conceptualizing and practicing the technical know-how on local breed for replication

## Expected Outputs

- Enhanced relationship between the professionals of the two organizations
- Increased understanding on the importance and advantage of perch method of goat rearing
- Conceptualized the various types of local breed of goat especially the BBG including the pros and cons of various breeds
- Enhanced practical knowledge of participants on low-cost and model housing for goat
- Enhanced understanding on the scientific method of breed management
- Got sound practical knowledge on feeding management and cost-effective feed for goat
- Got appropriate practical knowledge on gene conservation
- Gained knowledge on BBG rearing at the community level
- Enhanced knowledge on preventive and curative measures of goat disease
- Sound knowledge on marketing approach for producers
- Enhanced understanding on the host country
- Consolidated understanding on the entire workshop objective and way forward

## Description in Brief

### Session-01: Welcome & Introduction

The honorable Deputy Executive Director of WAVE Foundation, **Mr. Anwar Hossain** warmly welcomed the participants and briefly discussed the background and objectives of the workshop and opened the workshop formally by expecting active participation of all the participants from DHAN & WAVE as well asked the Facilitators to facilitate the sessions lively and effectively for easy understanding.



Later the Deputy Director-Livelihood of WAVE Foundation **Mr. Abdus Shukur** gave brief presentation on WAVE Foundation and the Regional Coordinator of DHAN Foundation **Mr. Birajaprashad Singh** also gave brief presentation on DHAN Foundation. Through these sessions, the participants were oriented on the objectives of the workshop and basic of the both organizations that inspired them to actively participate in 03 days long workshop.

And then the Coordinator of Livelihood Program of WAVE Foundation **Mr. Anisur Rahman** facilitated a session to collect expectation of each participant by using VIPP card and the expectations were as follows:

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### Participants Expectation

- Food conservation ratio of Goat
- Production cost of meat

- What will be the breakeven point for goat rearing
- What are the common diseases and mechanism to control (practice currently)
- Difference between scientific method and conventional method
- To know the Orysha's goat variety
- What is local goat breed
- To know the goat disease calendar
- To know the model entrepreneurship building for small & marginal farmers
- Detail on Goat rearing
- To know the shelter management & disease control
- To know about DHAN Foundation
- Clear understanding on the gaps between technical issues and community practices
- Social activities of Bangladesh

At the end of first session, one Video Documentary on BBG was presented which showed the brief picture of overall management of Black Bengal Goat initiated by WAVE Foundation since 2002 . By watching the video, the participants were clearly known about the scientific method of goat rearing in both the organization and household level including breed selection, shelter/housing management, food & fodder management, breed management/reproductive management & gene conservation, bio-security management, health & disease management, marketing etc.

## Session-02: Basic Concept of Goat Rearing

One of the key Facilitator **Mr. Masud Rana**, Project Coordinator (Bsc. Honors, Animal Husbandry) facilitated the session. The contents were as follows; Importance and purpose of goat rearing; Management System of Goat Rearing and Scientific Explanation of Perch Method. He focused on the comparative advantages of goat rearing as the most adaptable domestic animal. The advantages he mentioned are given below;

- Small space is required to rearing
- Suitable for landless people
- Management is very easy
- Productivity rate is higher than the other animal in a short time and considered as liquid assets
- Its skin, meat and milk has high demand
- It can create opportunity to empower the women & aged people who ultimately contribute to reduce the poverty of poor & marginalized family.



The Facilitator also explained 3 types of management system like

- Open or traditional method
  - Semi Intensive method
  - Intensive method or stall feeding method
- He highlighted the merits of scientific/perch method
- Feeding management is efficient and hygienic
  - Attacks of predator is less likely due to the raised platform
  - Low kids mortality
  - High growth rate and low infertility
  - Skin diseases are less likely

As a result the participants conceptualized on the various types of local breed of goat especially the BBG including the pros & cons of various breeds. The session also increased their understanding level on the importance and advantages of the perch method of goat rearing.

### Session-03: Goat Breeds

**Dr. Tuhin Miah** (Doctor of Veterinary Medicine) facilitated the session on **Goat Breeds** in detail. The key features were;

- Introduction to different goat breeds
- Goat selection criteria;
- Comparative advantages of BBG rearing
- Special characteristics of BBG
- Age and weight determination

He defined breed as 'a group of organisms having common ancestors and certain traits that are not common with other members of the same species as. He mentioned the major name of goat breeds;

- (i) **Dairy Breed** namely Saanen, Toggenburg, Barbari, Jamunapari
- (ii) **Meat breed** namely Boer, Mato, Black Bengal;
- (iii) **Meat & Skin Producing Breed** namely Black Bengal, Maradi
- (iv) **Meat & Milk Producing breed** namely Mehsana, Marwari, Sirohi

He also pointed out the key characteristics of an ideal Doe as follow;

- 10-14 months or 8-15 months with 20 kg weight
- Eyes should be bright without discharge
- Both teeth of female goat should be uniform
- Ears of goat should be alert without discharge
- Goat should chew cud (rumination)
- Appetite of the goat should be good and pinpoint sweating found in the nozzle.
- Then the Facilitator discussed the key selection criteria of a Buck;
- Age- 12 to 18 months
- Average weight- 25 kg in 12 month of age
- Robust body with broad chest
- Large and rounded testicle and straight and strong legs etc.
- Latter he mentioned the main reasons of choosing BBG for rearing as follow;
- It is popularly known as "Poor Man's Cow"
- High income generating potentials
- Comparatively requires less investment
- High quality meat
- Early maturing
- Small in size and requires less space
- Disease prevalence is comparatively less
- Good FCR helps to gain heavy weight in short time
- High productivity rate; gives 4 to 6 kids in a year



- Excellent adaptation capacity
- Effective in reducing unemployment in rural areas

As a result, the participants clearly understood characteristics of different goat breeds; Goat selection criteria for both in farm & household level rearing; comparative advantage of choosing BBG etc. Participants are expected to replicate those learning in their respective working areas.

#### **Session-04: Introduction to Different Goat Breeds and Goat Farm Management System and Practices in Odisha, India**

**Mr. Birajprashad Singh**, Regional Coordinator of DHAN Foundation facilitated the session. He discussed on different goat breeds and goat farm management system & practice in Odisha, India. The key contents were as follow;

- Goat status in Odisha
- Different Breeds of Odisha
- General Goat Rearing Practices
- Issue and challenges of DHAN's Intervention



Mr. Singh said the main Goat Breeds of Odisha are; BBG; Ghumsari; Badavihan; Raighar and Maraguda. Later he discussed **General Practices of Goat Rearing**. The key points were as follow;

- Traditional method of rearing
- Using locally available vaccination
- Goat rearing specially for meat
- Practicing conventional method of breeding
- Use locally available fodder
- Sells at local market etc.

In this regards he also discussed the major **Challenges faced DHAN Foundation**. The challenges he mentioned were as follow;

- Lack of awareness on goat health and hygiene management
- shelter management
- Lack of vaccination practices
- Lack of awareness on balance diet
- Lack of entrepreneurship skills on goat farming

Then he discussed major interventions of DHAN Foundation. The interventions were as follow;

- Deworming
- Vaccination (PPR & FMD)
- Awareness Programme (Management)
- Livestock Development Training and Fodder Cultivation

Finally he also discussed their **Plan for BBG**. The planned initiatives were as follow;

- Promoting one BBG FPO in Balasore
- Creating Perch method of BBG farming in 500 HHs
- Training on BBG Rearing will given to 145 field functionaries

- A campaign will be organised to make BBG rearing popular
- Create a fund of 25 Lakh Rupees for BBG farming
- 500 Family will provide technical assistance on BBG Management
- Establish a Buck Service Centre at block level etc.

As a result, the participants especially the WAVE Foundation participants clearly understood the mentioned topic and DHAN interventions and future plan for promotion of BBG in Odisha.

## Session-05: Housing Management

This session was facilitated by **Dr. Tuhin Miah** (Doctor of Veterinary Medicine). The key points he discussed he mentioned below;

- Types of goat housing
- Ideal shed features
- Considerations for building a shed
- Shed maintenance and dipping

**Ideal Goat Shed Features** are mentioned below;

- Located far away from main city
- Set up east-west and faced south
- Always kept in dry condition
- Good ventilation
- Entrance for sufficient amount of light

He also discussed the key characteristics of the roof, floor, door, foot path and internal partition wall of an ideal goat shed.

Later, the Facilitator discussed **Proper Shed Maintenance Criteria** highlighting ventilation, light, temperature, humidity, cleanliness, manure disposal, shed mending and regular spray with antibiotics. Finally he discussed the **Dipping Method** and mentioned chemical should be added with proper amount of water. Goats should be submerged in the solution and special attention should be given to kids. Latter he mentioned few Dipping **Precautions as follow;**

- Follow the chemical manufacturing instructions
- Bathing the goat before dipping
- Dipping on a bright sunny day
- Avoiding dipping in the advanced stage of pregnancy
- Avoiding dipping of sick animals.

As a result, the participants clearly understood the fundamental and details of housing management.

## Session-06: Practical Session & On The Job Training in WAVE's BBG Breeding Farm

**Dr. Tuhin Miah** (Doctor of Veterinary Medicine) facilitated this practical session through visiting the Black Bengal Goat Breeding Farm physically in the premises of Center for Development and Capacity at Koshaghata, Damurhuda in Chuadanga district. During the visit, Dr. Tuhin focused on special criteria of BBG, housing system, feeding & breeding system, dipping, bio-security etc. This session was very interesting and lively and the participants asked different question to cross-check their learning from theoretical session. Through this session, the



participants acquired sound knowledge on the overall management system of breeding farm at the organizational level. This learning would be very helpful for them to play pro-active role in their home organization to implement such initiative.

### **Session-07: Review of the day-1 and BBG and Bangladesh Perspective**

The first part of the session was **Review of the day-1** facilitated by Mr. **Masud Rana**, Project Coordinator (Bsc. Honors, Animal Husbandry) in a participatory process. He developed a set of basic question on different topics which discussed first day and asked open question to the house and participants answered spontaneously.

The second part of the session was **BBG and Bangladesh Perspective** facilitated by Dr. Golam Mostafa, District Livestock Officer-DLO (Livestock Department, Govt. of Bangladesh), Chuadanga. He discussed overall status of livestock in Bangladesh; the historical ground of BBG in Bangladesh; Characteristics of BBG; Farming system of BBG; Scientific method of BBG farming; How the BBG contribute to reduce poverty as income generating activity; How the rural women can be involved in economic activities through BBG rearing etc. Through this session, the participants got clear idea on the socio-economic prospect of BBG in Bangladesh.

### **Session-08: Feeding Management**

**Dr. Tuhin Miah** (Doctor of Veterinary Medicine) facilitated the session focused on the sub-topics as follow;

- Feeding Techniques
- Goat Feeds and its nutritional value
- Different types of feed management
- Ration formulation & feed processing
- The Importance of fodder production for goat rearing

Later he explained **different Types of Feed Management as follow;**

**(i) Extensive Grazing:** means allowing goats to graze in the entire pasture land. This incurs minimum feeding cost through making the best use of the whole grasses

**(ii) Rotational grazing:** The pasture land should be divided into several sections by temporary fences

**(iii) Semi-intensive System:** This is useful where the farm having limited grazing; animals are allowed to graze 3 to 5 hours in pasture land using stall feeding method

**(iv) Intensive System or Zero Grazing System:** Goats are continuously kept in confinement; limited access to grazing and fed only with stall feeding

Then he discussed on **Different Types of Feed & Management Techniques as follows:**

**Roughage:** A feed ingredient that has a high concentration of slowly degradable fiber

- **Dry Roughages:** hay, husk and straw
- **Green Roughages:** cultivated fodder crops, grasses, legumes and different tree leaves
- 3% DM of Fodder is needed according to animal's body weight

#### **Concentrated Feed**

- Contain a high density of total digestible nutrients usually low in CF (less than 18% of dry matter)
- High in protein as protein concentrates
- High in energy as energy concentrates egg-cereals and milling by-products
- Helps It the animal for body growth, meat production and efficient breeding



## **Feed Management Techniques**

**Stall Feeding:** Feeding the goat with feeders for reducing wastage

**Separate feeding:** In open grazing goats receive similar feeds for getting the required nutrient. Concentrate or roughage should be given separately to the buck, lactating doe, pregnant doe and kids.

Finally the Facilitator discussed on **Goat Fodder Production and Advantages of Consuming Fresh Fodder** as follows:

**Fodder**, a type of animal feed used specifically to feed domesticated livestock, such as cattle, rabbits, sheep, goat and horses. There are two types of fodder available such as: Annual fodder - Ex: Cowpea, Maize, Sorghum and Perennial fodder - Ex: Sesbania, Hybrid Napier, Guinea grass. The advantages of fodder are as

- Faster weight gain
- Better quality meat
- High-grade fiber
- Improved quality milk production
- Improved hoof health and Improved fertility

## **Session-09: Reproductive Management**

**Mr. Masud Rana**, Project Coordinator (Bsc. Honors, Animal Husbandry) facilitated the session. The key contents were as follow;

- Genetic importance and ONBS for genetic conservation
- Breed development & expansion
- Selection criteria for ideal Buck & Doe
- Estrous Cycle & breeding system
- Preserve the native breed
- Avoiding cross breeding through establishing Buck Service Centre at the community level
- Monitoring the whole procedure closely
- Avoiding inbreeding strictly and continuing the process generation to generation.

As a result, the participants clearly understood the basic and details of reproductive management.

## **Session-10: Bio-security Management**

**Dr. Tuhin Miah** (Doctor of Veterinary Medicine) facilitated the session. The key content were as follow;

- Ways of diseases spread in farm
- Conceptual Bio-security
- Structural Bio-security
- Operational Bio-security
- Bio-security Measures
- Farm Planning considering housing, sanitation, isolation of Goat and Human & Vehicles Management
- Waste Management and Fertilization Techniques

As a result, the participants clearly conceptualized and understood the fundamental and details of Bio-security management.

## Session-11: Practical Session & On the job training in WAVE's Working Area

Under the leadership of **Dr. Tuhin Miah** (Doctor of Veterinary Medicine), Mr. Masud Rana, Project Coordinator (Bsc. Honors, Animal Husbandry) and Abdul Latif, Assistant Coordinator, BBG Scale-up Project facilitated this practical session through visiting three villages in the working area of WAVE Foundation. During the visit, the Facilitators focused on household level Goat Shed and Fodder Cultivation & Hydroponic System and Community Level Buck Service Center.

Through the practical session, the participants observed & acquired knowledge on the best practices and management system of goat farming at the household level. It is expected that these learning would help the participants to replicate scientific goat farming at their respective working areas.



## Session-12: Review of the day-2

**Review of the day-2** facilitated by Mr. **Masud Rana**, Project Coordinator (Bsc. Honors, Animal Husbandry) in a participatory process. He developed a set of basic questions on different topics of the previous day to cross-check the level of understanding of the participants. The session was very alive with the spontaneous participation of the participants.

## Session-13: Health Management

Mr. Masud Rana, Project Coordinator (Bsc. Honors, Animal Husbandry) facilitated the session focused on the sub-topics as follow;

- Parasites prevention & control
- De-worming
- Vaccination
- Different types of parasite
- Effects of External & Internal Parasites
- Prevention of External & Internal Parasites
- Controlling Measures of Internal Parasites
- General Instruction for De-worming & Vaccination
- Reasons for Failure of vaccination

As a result, the participants clearly understood the fundamental as well as details of Health Management of Goats.

## Session-14: Disease Management

**Dr. Tuhin Miah** (Doctor of Veterinary Medicine) facilitated the session focused on the sub-topics as follow;

- Types of goat diseases
- Discuss on fetal diseases & its treatment
- Disease and Symptoms of Healthy and Unhealthy Goat
- Details about few Goat diseases (Symptoms, Prevention & Treatment)
  - PPR
  - Goat Pox

- FMD
- Contagious Etyma
- Pneumonia/CCP

The participants clearly understood the fundamental as well as details of Goat Disease Management.

### Session-15: Goat Marketing Strategy & Cost-Benefit Analysis

Abdul Latif, Assistant Coordinator of BBG Scale-up Project facilitated this session focused on the sub-topics as follow;

- Definition of Marketing
- Marketing Criteria
- Analyze the Goat Marketing Scenario
- Goat Market Structure
- How to develop a marketing plan
- Goat Marketing Tips
- Risk Management
- Detail Cost Benefit Analysis of 25 Does and 25 Castrated Male Goats

### Session-16: Key Learning and Way Forward (Organization-wise Action Plan)

This session was facilitated by Mr. Birajaprashad Singh, Regional Coordinator & Sumit Suman Kar, Project Executive of DHAN Foundation. The participants were divided into two groups and performed the tasks within the stipulated time guided by two co-facilitators. The completed tasks are as follow;

#### WAVE Foundation participants

##### Key Learning

- Perch method
- Feeding management
- Health management
- Breeding management

##### Follow-up Action Plan

Key Learning	Activities to be done	Target & Expected Outcomes	Timeline
Perch method	<ul style="list-style-type: none"> <li>● Motivating goat farmers to make perch for goat rearing</li> <li>● Ensure to make perch in each targeted household</li> </ul>	<ul style="list-style-type: none"> <li>● 40 Households will be prepared for goat rearing in perch method</li> <li>● All the targeted households are practicing perch method of goat rearing</li> <li>● Goat mortality rate are reduced</li> </ul>	By December 2019
Feeding management	<ul style="list-style-type: none"> <li>● Ensure high breed fodder cultivation by selected goat farmers</li> <li>● Introduce &amp; practice UMS (Urea Molasses Block)</li> <li>● Ensure hydroponic</li> </ul>	<ul style="list-style-type: none"> <li>● 16 selected farmers are cultivating high breed fodder</li> <li>● All the households (40 HHs) are practicing UMS for goat feeding</li> <li>● 16 selected farmers are cultivating hydroponic fodder</li> <li>● Food scarcity will be reduced and</li> </ul>	July'19 to June'20

Key Learning	Activities to be done	Target & Expected Outcomes	Timeline
	fodder cultivation by selected goat farmers	goats are healthy	
Health management	<ul style="list-style-type: none"> <li>Organize &amp; facilitate vaccination camps at the community level as per schedule time</li> <li>Providing de-worming tablets among targeted HHs in time</li> </ul>	<ul style="list-style-type: none"> <li>A total of 32 vaccination camps are organized at the community level so that the goats are PPR free</li> <li>Goat mortality rates are decreased day by day in the working area</li> </ul>	July'19 to June'20
Breeding management	<ul style="list-style-type: none"> <li>Select potential farmers and establish buck center at the community level</li> <li>Pure BBG buck will be ensured for quality kids production in regards to gene conservation</li> </ul>	<ul style="list-style-type: none"> <li>08 Buck Service Centers are established at the community level</li> <li>Create awareness at the community level to get breeding services from the center so that the quality of BBG will be increased day by day.</li> </ul>	July'19 to June'20

### DHAN Foundation Participants

#### Key Learning

- Identification of pure BBG breed
- Importance of perch method (housing)
- Characteristics of Goat (BBG)
- Various diseases of Goats
- Vaccinations
- Bio-security
- Feeding Management (fodder, FCR, Concentrated)
- Breeding Management (breed development, genetics)
- Importance of Artificial Insemination (AI)
- Health Management of Goats (infant/kids; doe & buck)
- Cost-benefit analysis of goat rearing
- Age classification of goats
- Parasites measures (inside & outside)

#### Follow-up action plan

Sl.#	Activities to be done	Timeline
1.	Baseline data collection (Identification of breed and scope to introduce & practicing perch method for goat rearing)	Within 02 months
2.	Organize & facilitate training for field staff and selected goat farmers	In the 1 <sup>st</sup> month
3.	Campaign for BBG promotion through organizing & facilitating vaccination & de-worming camps at the community level	In the 2 <sup>nd</sup> month
4.	Setting model farm at the household level with reviewing fund	In the 3 <sup>rd</sup> month
5.	Allocate special fund for 500 potential farmers from revolving fund	In the 1 <sup>st</sup> month
6.	Establishing buck center at the BLOCK level	In the 6 <sup>th</sup> month
7.	Promote FPGs (Farmers Producer Groups) and then FPO (Farmers Producer Organization)	In the 6 <sup>th</sup> month

## **Session-17: Visit one Microfinance Unit Office and Sheep Breeding Farm of WAVE Foundation**

A team consisting of Mr. Zillur Rahman, Regional Coordinator, Microfinance Program, Region-1, Dr. Tuhin Miah, Mr. Masud Rana and Mr Abdul Latif jointly facilitated this session. Mr. Zillur Rahman, Regional Coordinator, Microfinance Program, Region-1 facilitated a meeting with Microfinance Unit Office team Maherpur District through a question & answer session. The idea was to provide the participants a glimpse on the basic area of WAVE Microfinance Program Operational System. On the other hand Dr. Tuhin Miah, Mr. Masud Rana and Mr Abdul Latif jointly facilitated the visit at WAVEs Sheep Breeding Farm in Meherpur District.

Through this session the participants especially the participants of DHAN Foundation, India had got clear idea on mentioned WAVE's initiative.

## **Recreation & Closing: Visit Historical Place Mujibnagar, Meherpur and De-Briefing, Closing & Cultural Event**

As the pleasure trip, the whole team visited a historical place of Bangladesh namely Mujibnagar, Meherpur located very close to Indian Boarder (West Bengal) which was directed by Mr. Johir Rayhan, Deputy Director & Head of WAVE's Training Division. The De-Briefing & Closing session was facilitated jointly by Mr. Abdus Shukur, Deputy Director-Livelihood of WAVE Foundation and Mr. Birajaprashad Singha, Regional Coordinator of DHAN Foundation. At the end, a cultural program was facilitated by Israil Hossain Khan Titu, Loak Theater Unit of WAVE Foundation.

The workshop ended with the speech of honorable Executive Director of WAVE Foundation, **Mr. Mohsin Ali** through a video clip. The speech was as follows;

**“Dear All,**

My heartfelt greetings from WAVE Foundation for participating in this workshop. It's our pleasure to host DHAN Foundation participants here at WAVE Foundation. You may know that this collaboration between WAVE Foundation and DHAN Foundation began with FK Norway Knowledge Exchange Program. Now our relationship is even deeper and has gone beyond the project. This workshop is just the beginning. I hope, this process will continue in the future. This learning process will enrich each other and help build a better society. Thanks to DHAN Foundation participants coming all the way from India. Thanks to all the participants, facilitators and the colleagues associated with the arrangements. Wish you all the best!”

Annex-1



Workshop on Perch Method of Local Breed Goat Rearing

Detail Schedule

Time	Name of the Content/Tasks	Responsibility
<b>DAY-1: 22.06.2019</b>		
15 Minutes	<ul style="list-style-type: none"> <li>Registration</li> </ul>	Ms. Hosneara, Program Officer, WAVE Trg Division
01 Hour	<ul style="list-style-type: none"> <li>Welcome &amp; Introduction</li> <li>Presentation on WAVE Foundation</li> <li>Presentation on DHAN Foundation</li> <li>Participants expectation</li> <li>Screening of Documentary on BBG</li> </ul>	Anwar Hossain, Deputy Executive Director Abdus Shukur, Deputy Director, Livelihood Sector Birajaprashad Singh, Regional Coordinator of DHAN Foundation Anisur Rahman, Coordinator, Livelihood Sector
30 Minutes	<b>Basic Concept of Goat Rearing</b> <ul style="list-style-type: none"> <li>Importance and purpose of goat rearing</li> <li>Management system of goat rearing</li> <li>Scientific explanation of Perch Method</li> </ul>	Masud Rana, Project Coordinator (Bsc. Honors, Animal Husbandry)
15 Minutes	<ul style="list-style-type: none"> <li>Tea Break</li> </ul>	Ms. Hosneara
01 Hour	<b>Goat Breeds</b> <ul style="list-style-type: none"> <li>Introduction to different goat breeds</li> <li>Goat selection criteria</li> <li>Why do we choose BBG for farming?</li> <li>Special characteristics of BBG</li> <li>Age &amp; weight determination</li> </ul>	Dr. Tuhin Miah, Doctor of Veterinary Medicine
45 minutes	<ul style="list-style-type: none"> <li>Introduction to different goat breeds and Goat farm management system &amp; practice in Odissa, India</li> </ul>	Birajaprashad Singh, Regional Coordinator of DHAN Foundation
45 minutes	<b>Housing Management</b> <ul style="list-style-type: none"> <li>Types of goat housing</li> <li>Ideal shed features</li> <li>Considerations for building a shed</li> <li>Shed maintenance &amp; dipping</li> </ul>	Dr. Tuhin Miah, Doctor of Veterinary Medicine
01 Hour	<ul style="list-style-type: none"> <li>Lunch Break</li> </ul>	Ms. Hosneara Anowar Hossain (Accounts & Admin Officer)
01 Hour & 45 Minutes	<ul style="list-style-type: none"> <li>Practical Session &amp; On the job training in WAVE's BBG Breeding Farm</li> </ul>	Dr. Tuhin Miah, Doctor of Veterinary Medicine

	<ul style="list-style-type: none"> <li>special criteria of BBG, housing system, feeding &amp; breeding system, dipping, bio-security etc.</li> </ul>	
30 Minutes	<ul style="list-style-type: none"> <li>Tea-Break</li> <li>Review of the day</li> </ul>	Ms. Hosneara Anowar Hossain
<b>DAY-2: 23.06.2019</b>		
01 hour	<ul style="list-style-type: none"> <li>Review of the day-1</li> <li>BBG and Bangladesh perspective</li> </ul>	Masud Rana Dr. Golam Mostafa, District Livestock Officer-DLO (Govt), Chuadanga
01 Hour	<b>Feeding Management</b> <ul style="list-style-type: none"> <li>Feeding Techniques</li> <li>Goat Feeds &amp; its nutritional value</li> <li>Different types of feed management</li> <li>Ration formulation &amp; feed processing etc.</li> <li>Importance of fodder production</li> </ul>	Dr. Tuhin Miah, Doctor of Veterinary Medicine
15 Minutes	<ul style="list-style-type: none"> <li>Tea Break</li> </ul>	Ms. Hosneara
01 Hour	<b>Reproductive Management</b> <ul style="list-style-type: none"> <li>Genetic importance</li> <li>ONBS for genetic conservation</li> <li>Breed development &amp; expansion</li> <li>Selection criteria for ideal Buck &amp; Doe</li> <li>Estrous Cycle &amp; breeding system</li> </ul>	Masud Rana, Project Coordinator (Bsc. Honors, Animal Husbandry)
45 Minutes	<b>Bio-security Management</b>	Dr. Tuhin Miah, Doctor of Veterinary Medicine
01 Hour 15 Minutes	<ul style="list-style-type: none"> <li>Lunch Break</li> </ul>	Ms. Hosneara
01 Hour and 45 Minutes	Practical Session & On the job training in WAVE's Working area i.e household level BBG farming <ul style="list-style-type: none"> <li>- Goat shed</li> <li>- Buck center</li> <li>- Fodder cultivation &amp; hydroponic system</li> </ul>	Dr. Tuhin Miah, Doctor of Veterinary Medicine Masud Rana, Project Coordinator (Bsc. Honors, Animal Husbandry) Abdul Latif, Assistant Coordinator, BBG Scale-up Project
30 Minutes	<ul style="list-style-type: none"> <li>Tea-Break</li> <li>Review of the day</li> </ul>	Ms. Hosneara Anowar Hossain
<b>DAY-3: 24.06.2019</b>		
15 Minutes	<ul style="list-style-type: none"> <li>Review of the day-2</li> </ul>	Masud Rana, Project Coordinator
01 Hour	<b>Health Management</b> <ul style="list-style-type: none"> <li>Parasites prevention &amp; control</li> <li>De-worming</li> <li>Vaccination</li> </ul>	Masud Rana, Project Coordinator (Bsc. Honors, Animal Husbandry)
15 Minutes	<ul style="list-style-type: none"> <li>Tea Break</li> </ul>	Ms. Hosneara Anowar Hossain

01 Hour	<b>Disease Management</b> <ul style="list-style-type: none"> <li>Types of goat diseases</li> <li>Discuss on fetal diseases &amp; its treatment</li> </ul>	Dr. Tuhin Miah, Doctor of Veterinary Medicine
30 Minutes	<ul style="list-style-type: none"> <li>Goat Marketing Strategy</li> <li>Cost-Benefit Analysis</li> </ul>	Abdul Latif, Assistant Coordinator, BBG Scale-up Project
1 Hour	<ul style="list-style-type: none"> <li>Key learning and Way forward (Action plan) in home organization</li> </ul>	Birajaprasad Singh, Regional Coordinator & Sumit Suman Kar, Project Executive of DHAN Foundation
01 Hour	<ul style="list-style-type: none"> <li>Lunch Break</li> </ul>	Ms. Hosneara Anowar Hossain (Accounts & Admin Officer)
01 Hour	<ul style="list-style-type: none"> <li>Visit one Microfinance Unit Office of WAVE Foundation</li> <li>Visit WAVE's Sheep Breeding Farm, Baradi, Meherpur</li> </ul>	Zillur Rahman, Regional Coordinator, Microfinance Program, Region-1 Dr. Tuhin Miah Masud Rana Abdul Latif
02 Hours	Visit Historical Place Mujibnagar, Meherpur	Johir Rayhan, Deputy Director, WAVE Training Division
01 Hour & 30 Minutes	<ul style="list-style-type: none"> <li>De-Briefing</li> <li>Closing</li> <li>Cultural Event</li> </ul>	Mohsin Ali, Executive Director Abdus Shukur, Deputy Director-Livelihood Sector Titu Khan & Mamun-Al-Razi (WAVE Theater Unit)

NB:

- Miraj, Saiful & Rakib will provide necessary support (Video documentation, Still photography, practical field arrangement etc) to conduct a successful workshop.
- Handouts & other logistics (Banner, bag, folder, pad, pen, WAVE publications etc.) provided by the Facilitators & WAVE Training Center in consultation with management.

## Annex-2

### Participants Detail (DHAN Foundation)

Sl.#	Name	Present Position in DHAN	Qualification	Experience in DHAN	Age	Sex
1	Birajaprasad Singh	Regional coordinator	PGDDM	5yr	30	Male
2	Sumit Suman Kar	Project Executive	B.Tech (Technical Graduate)	5yr	29	Male
3	Abhishek Singha	Project Executive	B.Tech (Technical Graduate)	5 years yr	29	Male



Sl.#	Name	Present Position in DHAN	Qualification	Experience in DHAN	Age	Sex
4	Charan Hasda	Project Executive	PGDDM	4 Years	27	Male
5	Purusottam Kundu	Project Executive (trainee)	B.Tech (Technical Graduate)	6 Months	37	Male
6	Karthikeyan Sivakumar	FK Participant, FK Knowledge Exchange Program	Bachelor of Civil Engineering	2 years	26	Male
7	Lokesh Sinram	FK Participant, FK Knowledge Exchange Program	Masters of Environmental Engineering	2 years	26	Male

#### Participants Detail (WAVE Foundation)

Sl.#	Name	Present Position in WAVE Foundation	Qualification	Experience in WAVE	Age	Sex
1	Abdul Latif	Assistant Coordinator-LIFT (Learning & Innovation Fund for Test new ideas) Project	Masters in Social Science	19 Years	42	Male
2	Md. Zahangir Alam	Assistant Coordinator, BBG Value Chain Project	Masters in Social Science	14 Years	39	Male
3	Nahid Fatima Tamanna	Senior Program Officer, Microfinance Program	Masters in Social Science	9 Years	32	Female
4	Alamgir Hossain	Farm Manager, BBG Breeding Farm	Masters in Social Science	6 Years	31	Male
5	Nazrul Islam	Technical Officer-LIFT Project	B Masters in Arts	8 Months	30	Male
6	Sumon Miah	Technical Officer-LIFT Project	Diploma-in-Agriculture	2 Years	23	Male
7	Ariful Islam	Technical Officer-LIFT Project	Diploma-in-Agriculture	08 Months	25	Male

Sl.#	Name	Present Position in WAVE Foundation	Qualification	Experience in WAVE	Age	Sex
8	Emdadul Haque	Technical Officer-LIFT Project	Bachelor of Arts	8 Years	29	Male
9	Badsha Miah	Technical Officer-LIFT Project	Bachelor in Social Science	14 Years	35	Male
10	Momirul Islam	Technical Officer-LIFT Project	Bachelor in Social Science	13 Years	35	Male
11	Ujjol Hossain	Technical Officer-LIFT Project	Bachelor of Arts	10 Years	32	Male



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