

Project Completion Report

Prepared and Submitted by
United Agro Fisheries

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Chapter 1: Introduction

1.1 Background of the project

Bangladesh is a big name in fish production in the world, holding fifth highest position. Almost 11% of total people engaged in this sector directly or indirectly. Numbers of private sector, companies in Bangladesh are working to enhance the fish sector. Nevertheless, in one aspects where Bangladesh is falling apart is supply of natural pituitary gland to produce more fishes in short span of time. Pituitary gland is a hormone that is injected into female fishes so that they can lay eggs quicker. UAF is the only company in Bangladesh who processed and supply CPG locally to the national buyers and exports. United Agro Fisheries (UAF) established in 1984 and received government quality license in 2013. Their current office started in 2015. UAF is the only enterprise of Bangladesh dealing with “Carp Pituitary Gland”. UAF has wide ranges CPG collection groups in different Fish markets of Bangladesh. The markets are: Dhaka (Mirpur, Thatary bazar, Rayer bazar, Mohammadpur Krishi Bazar, Uttara BGB market and Abdullahpur, Kawran bazar,),Gazipur, Jashore (Jashore Boro Bazar and Chuadanga Stand bazar, railway bazar), Bogra (Fateh Ali Bazar), Jhikargacha (Jhikargacha Bazar), Khustia (Pouro Bazar), Faridpur (Hazi Soriwatullah Bazar), Barishal (Choumatha Bazar), Khulna (Khulna Boro Mach Bazar), Rangpur.

Agreement Period	Start Date: 01 April 2019	End Date: October 31, 2020	
Duration	Total of 18 months		
Agreement Amount (currency and amount)	US Dollar	84,152	
Feed the Future Bangladesh Aquaculture Activity Contribution	US Dollar	59,999	
Contribution by Sub-grantee	US Dollar	24,153	
Project Title	Strengthening quality Carp Pituitary Gland (CPG) production domestically to ensure quality fish seed production at hatchery level		
WorldFish Contact Person:	Chief of Party and Country Director	Dr. Gareth Johnstone	
Sub-grantee Contact Person	Proprietor	Md. Liaquat Ali	uaf.cpg@gmail.com

1.2 Proposed Concept by UAF

UAF has 270 CPG harvesters in those above-mentioned areas under the supervision of five commissioning agents. Inside Bangladesh UAF are trading their products through traders/buyers (95%) and directly to the hatchery owners (5%). Currently we are producing on an average 6 kg of dry CPG among which around 1 kg is exporting in Russia, Brazil, Ukraine, Iraq, Venezuela, Malaysia, Portugal, Kazakhstan, Egypt, UAE-Dubai, USA, Togo, China, Japan, Singapore, Germany, Poland, India, Colombia, Ecuador, Iran, Argentina, Jordan, Bulgaria and UK.

The harvesters collect raw CPG during cutting processing of consumer's fishes at retail fish markets, conserve in a vial containing ethanol, and delivered it to the collectors (commissioning agents). After collecting in a bulk amount of CPG, commissioning agents delivered the PGs to UAF periodically. At the processing plant of UAF, raw PGs goes through a series of activities to find the final products ready for trading.

The processing sequence of CPG involves-

- a) Receiving of Raw Materials,
- b) Initial grading-Washing (by pure acetone),
- c) Drying,
- d) Moisture test,
- e) Final grading,
- f) Weighing,
- g) Packing and labeling,
- h) Storage and
- i) Marketing of the product inside Bangladesh and in abroad.

In the export market, the premium standard products have high demand (around 3 mg sized PGs). On an average 5 kg of CPGs are trading nationally which are about 10% of total national demand. Trading modality is advance payment systems for exporting products and conditional delivery systems for national buyers and traders (cash on delivery system through courier services and direct on cash sell to hatchery owners). Price of dry CPG varies from BDT 4,000 to BDT 4,600 per gram depending on seasonality and for export quality; it is around BDT 6000 for 1gram of dry CPG. UAF have one CPG processing and business center only in Jashore and there is no other outlet in any corner of Bangladesh.

United Agro Fisheries will conduct a market survey to identify potential market and identify commissioning agents and sub-agents to develop their capacity toward technical and business aspects of CPG harvesting, processing and marketing. With the assistance of agents & sub-agents, they will select potential CPG harvesters and will form groups of CPG harvesters and they will facilitate to develop capacity of the harvesters groups on CPG harvesting and primary processing. UAF will also develop their staffs capacity by formal and hands on training, meeting and mentoring. They will do different awareness and motivational activities for the consumers and PG harvesters. Beside these, UAF will do online/offline campaign, market promotion and communication activities and capacity development training for the hatchery owners and technicians, Linkage development program with the buyers and hatcheries. UAF will also conduct a comparative performance testing of dry CPG with the wet & powder formed PG through BFRI and University.

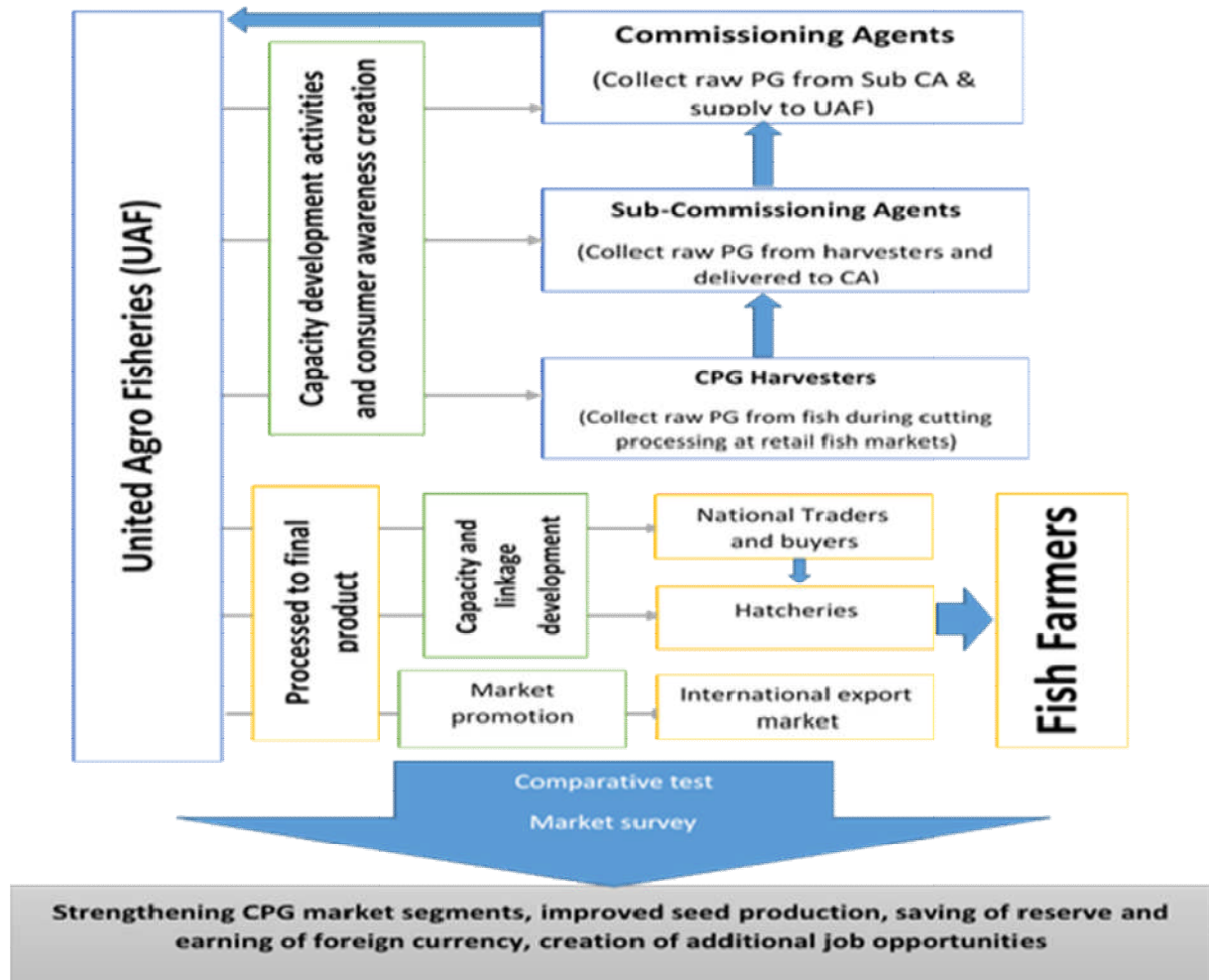


Figure 1: Business Model of United Agro Fisheries

1.3 The Value Chain Actors

The business model is expected to establish strong relationship among the value chain actors of CPG. In both backward and forward market actors will affect due to this business model. Though business model will not have any direct activity with farmers but they will benefit to get quality fish seed from hatcheries.

CPG Harvesters:

CPG harvesters will get access to better technical skills and information regarding collection of raw PG. Raw PG harvesters will have additional income by collecting and serving to commissioning and sub-commissioning agents. One of the main challenges of CPG harvesters is to maintain the quality of raw PG, which will be minimized by providing tube to the harvesters. UAF is currently contain 270 PG harvesters and planned to expand this number to 500 with this business model.

Commissioning Agents:

Under this business idea UAF select additional 5 commissioning agents who are actually collecting raw PG from the harvesters/sub commissioning agents and supply to company. After collecting raw PG from harvesters CA preserve those raw PGs and when the amount become bulk then they supply it to the company. Company paid a commission to the agents. By earning commission, CAs again invest to collect raw PGs from the harvesters. With the proposed business model, commissioning agents will have access to better information on proper collection method of Raw PGs and opportunities to sell to the company. This will be open opportunities to generate additional income.

Sub-Commissioning Agents:

On average, each of the commissioning agents will have 3-5 sub agents. 15 sub agents will collect CPG from the harvesters directly and supply to their specific commissioning agents. Like commissioning agents, sub-commissioning agents will also get incentives from their commissioning agents. Business model will also have access to the improved information and techniques of collecting raw PG form harvesters and will have opportunity to earn additional income.

Hatcheries:

Concerned hatcheries will get access to improve quality of dry CPG so that they can ensure the production of quality fish fries and reduce the mortality rate of their brood fishes, which generally occurred due to the after effect of induced breeding. Besides, through capacity development training, hatcheries will get more information on quality CPG, importance of using quality CPG and right dose and application of CPG for artificial breeding and fry production.

National Buyers:

Most of the time in Bangladesh, buyers import PG from other countries, which are mostly synthetic in types. Concerned buyers will have access to nationally produce natural dry CPG form UAF. This will open the opportunity to have access to better information on the application of improved natural PG for brood production. UAF will facilitate to conduct linkage development program with the potential and current buyers.

Farmers:

Last of all farmers will get opportunity to have quality fish seeds for fish productions from nurseries and fingerling traders.

1.4 Goal & Objectives of the Business Idea

The goal of the business idea is to increase domestic production and supply of quality CPG by capacity building of commission agents and CPG harvesters.

The specific objectives are:

- To identify and develop the capacity of commission agents and sub-agents for strengthening the procurement channel of raw CPG.
- To develop at least 300 skilled PG harvesters through group formation, training and providing regular technical support.
- To increase the awareness of Hatchery owners and hatchery technicians on the benefit of using dry CPG to improve the quality and increase the productivity of fish seed.
- To find-out the performance of dry CPG and wet PG through conducting research in collaboration with BFRI and/or Universities.

1.5 Geographical Coverage

Raw CPG Processing (washing, drying, moisture testing, grading), weighing, packaging, labelling and storage will be done at Jashore UAF processing unit and the Raw CPG harvesting will be conducted by harvesters at different region of Bangladesh especially divisional and district level fish retail markets.

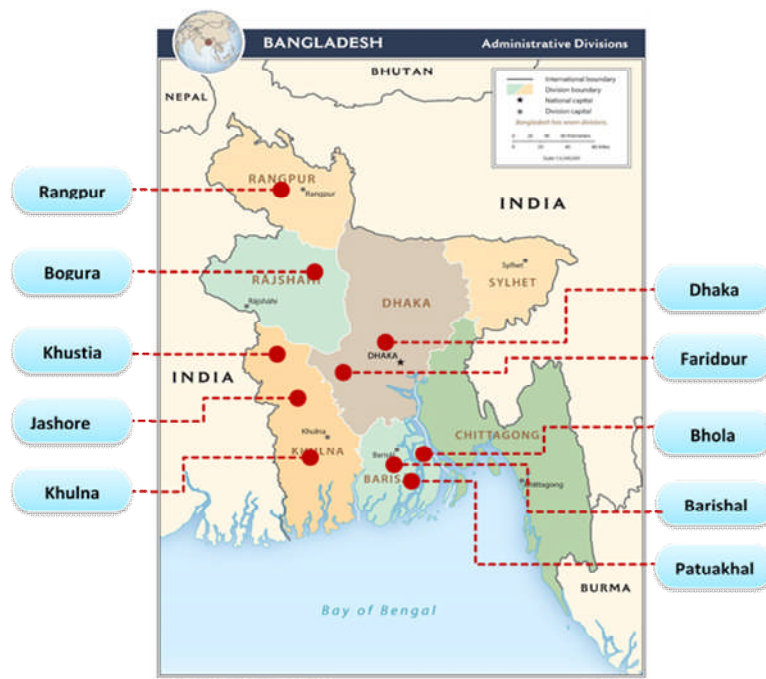


Figure: Geographical Coverage of UAF

Chapter 2: Activity Performance

2.1 Staff orientation on project, activities and mode of operation system

It was the introductory part of the project. In this part, people were introduced with each other. It was held in the UAF office. 12 people joined this meeting. In this part, we discussed the training activities, mode and operation system. This part is the most important part in the project.



2.2 Project coordination meeting (bi-monthly)

In this activity part every month, we have followed up the work. Total 4 Bi-monthly meeting occurred in this section. We talked about the development, problem of the project. Meeting was held in the UAF office.



2.3 Identification and finalization of Agents & Sub-Agents

Commissioning agents who are actually collecting raw PG from the harvesters and supply to company. After collecting raw PG from harvesters CA preserve those raw PGs and when the amount become bulks then they supply it to the company. Company paid a commission to the agents. By earning commission, CAs again invest to collect raw PGs from the harvesters. With the proposed business model, commissioning agents will have access to better information on proper collection method of Raw PGs and opportunities to sell to the company. This will be open opportunities to generate additional income.

2.4 Technical and business capacity development training for Commission agents-Basic

Total two days training occurs in the Jashore. Around 16 Commission agents joined this program. They come from many different districts. They are very interest to collect the PG and then they supply it to the UAF. The role-play they realized the situation in the market how they can convince the PG harvesters to extract PG by them. It also provide them good money.



2.5 Technical and business capacity development training for Commission agents-Refresher

It is one of the repeated part of the project. In this repeated part, we observed the outcome of the previous trainings. We also arranged a survey about the Basic capacity development training for Commission agents. In this training session, agent and sub-agents are the participants. Total 21 people joined this training. In addition, this training occurs in the Jashore. This training are the linked up the harvesters and the company.



2.6 CPG harvesters' communication and group formation

CPG harvesters group formation program happened in Satkhira, Rangpur, Patuakhali, Mirpur-6, Mirput-1, Kushtia, Khulna, Jashore, Gabtoli bus stand, Faridpur, Bogura, Bhola, Barishal and 242 botiwalas data collected & group formed.

2.7 Capacity development training for CPG harvesters-Basic

CPG harvesters will get access to use better technical skills and information regarding collection of raw PG. Raw PG harvesters will have additional income by collecting PG and serving the commissioning and sub-commissioning agents. One of the main challenges of CPG harvesters is to maintain the quality of raw PG. On this topic, we have arranged 17 trainings in different places. On this topic, total 386 people were trained. We discussed about PG collection procedure, Location of PG, how to cut head, how to divide head, how to remove fat, brain and film and how to extract PG from the grove without breaking the PG and how to keep it in acetone vial and lastly preservation in fridge at normal temperature. Then we showed PG extraction procedure practically. Most of the CPG harvester practiced it and was successful to extract PG.



2.8 Capacity development training for CPG harvesters-Refresher

In this training session, CPG harvesters have to know the full collection procedure of raw PG. It is one of the repeated part of the project. In this repeated part, we observed the outcome of the previous trainings. We also arranged a survey about how the PG harvesters are using the methods taught in the previous training and how they are being benefited by using these methods. In this part, we have arranged 15 trainings in different places. On this topic, total 316 people were trained.



2.9 Capacity development for Hatchery owners and technicians

In this training session, Hatchery owners and technicians were included. On this topic, we arranged 10 trainings in different places. On this topic, 208 people were trained. In these trainings, the trainees are gathered knowledge about dry PG. They also gained knowledge about the longevity of dry PG. In these trainings, these points were discussed such as- Present situation of induced breeding, Carp hatchery infrastructure and Brood management, feeding of brood, maturity of brood and selection of brood for breeding, breeding of carp, spawn production technique, and open discussion etc. During open discussion, the participants expressed their interest to use dry PG and they will use dry PG for experimental purpose and observe the result. If the results are in good from then they will use dry PG instead of wet PG. Some materials- info book, pen, leaflet, travel bag etc. were provided by UAF.



2.10 Linkage development program with the buyers

Hatcheries will get access to use improved quality of dry CPG so that they can ensure the production of quality fish fries and reduce the mortality rate of their brood fishes, which generally occurs due to the after effect of induced breeding. Besides, through the linkage development program with the buyers, hatcheries will get more information on quality CPG, importance of using quality CPG and right dose and application of CPG for artificial breeding and fry production. In this part, we completed total 4 trainings in three different districts. We visited Jashore, Barisal and Bhola. In this part, total 71 people were trained.



2.11 Performance testing of dry CPG compared to wet PG

Artificial breeding trials of Catla *Catla catla* using dry PG, wet PG and the synthetic hormone, Ovaprim.

The hatching result as well as the survival rate was the best at dry PG medium dose (91%) followed by low dose (86.5%) and high dose (79%). The survival of the hatchlings by wet PG was the highest (89%) at medium dose followed by low dose (84%) and ovaprim (71%).



Fig: PG injection in Catla

Artificial breeding trials of Rui *Labeo rohita* using dry PG, wet PG and the synthetic hormone, Ovaprim.

The hatching result as well as the survival rate was the best at dry PG medium dose (94.43%) followed by high dose (91.77%) and low dose (82.24%). The survival of the hatchlings by wet PG was the highest (93%) at medium dose followed by high dose (85.37%) and low dose (79.56%). The survival of the hatchlings by Ovaprim was 88.16%.



Fig: PG injection in rui.

Artificial breeding trials of Silver carp *Hypophthalmichthys molitrix* using dry PG, wet PG and the synthetic hormone, Ovaprim.

The hatching result as well as the survival rate was the best at dry PG medium dose. The survival of the hatchlings by wet PG was the highest (93%) at high dose followed by medium dose (92%) and low dose (87%).



Fig: PG injection in silver carp.

2.12 Redesign, Content development, and preparation of promotional materials

With proper communication, the redesign, content development and preparation of Promotional materials (leaflet, info book and awareness festoon) was successfully completed.

2.13 CPG processing & operational video preparation

In this project, one CPG processing & operational video prepared. Some are the footage of shooting-



2.14 Print and distribution of leaflets

In this part, we had printed and distributed of leaflets. We had printed 5000 leaflets. We distributed it in many people and many places. It helps people to gather the knowledge about PG. PG is very important hormone in fisheries sector.

ইউনাইটেড এগ্রো ফিশারীজ সরবরাহকৃত পিঙ্গি ব্যবহার করে দেশের বিভিন্ন হ্যাচারি এ পর্যন্ত ৬৩ ম্যাট্রিক টন বেগু উৎপাদন করেছে যা কিনা ৭ থেকে ৮ নাক মেট্রিক টন মাত্র উৎপাদনে সরাসরি তুলিকা রেখেছে।

বিকল্প উপাদান উৎপাদনে জনগণকে সচেতনকরণ এ
আমাদের দেশ থেকে হিমায়িত মাছ বিশেষে রক্তাণী বহু অংশ থেকেই শুরু হয়েছে। কিন্তু মাছ থেকে স্বাভাবিক ভাবে পাওয়া অতিরিক্ত উপাদান (by product) এর আশে পাশে রক্তাণী হ্রাস। আমাদের প্রাকৃতিক পিঙ্গি প্রক্রিয়াকারকরণ ও রক্তাণী হ্রাস থেকে দেশের অনেক উদ্যোগী মাছ থেকে প্রাকৃতিক পিঙ্গি প্রক্রিয়াকারকরণ ও রক্তাণী হ্রাস উৎপাদিত হবেন। তবে দেশে প্রাকৃতিক পিঙ্গি উৎপাদনের ব্যাপারে বর্ষাব্যয় প্রশিক্ষণ ও পুষ্টিসামগ্রী সরবরাহ করা দান করলে এই পিঙ্গির মাধ্যমে প্রক্রিয়াকারকৃত প্রাকৃতিক পিঙ্গি দেশের চাহিদা মিটিয়ে রক্তাণী হ্রাসে সহায়তা করা যাবে। ইউনাইটেড এগ্রো ফিশারীজ কার্পাস থেকে প্রাকৃতিক পিঙ্গি উৎপাদনে যথেষ্ট সাফল্য লাভ করেছে যাতে জনগণকে দেশের মতস্য হ্যাচারীগুলিতে উন্নত মানের বেগু পোনা উৎপাদন হচ্ছে যা কিনা বেগু উৎপাদনে আমাদের বিশেষ নির্ভরতা কমিয়ে দেশে হ্যাচারী পিঙ্গির বিকাশ সাধন, সার্বোপরি যথন উৎপাদনে সমৃদ্ধি শক্তিও ব্যাপক তুলিকা রাখবে।

অন্যে পরিচালিত আনী, স্বত্বাধিকারী এ ইউনাইটেড এগ্রো ফিশারীজ যোগে ৭১ এর হ্যাচার মুক্তিযুদ্ধে রক্তাণী হ্রাসে নীর মুক্তিযোদ্ধা। তিনিই এ জাতীয় স্বাক্ষর পিঙ্গি উৎপাদনের আবিষ্কারী তিনি এই প্রাকৃতিক পিঙ্গি উৎপাদন ও সরবরাহের মধ্য দিয়ে আমাদের স্নিহ মাতৃভূমি বাংলাদেশকে সব দিক দিয়ে সেবা করতে আস্তী।

নিম্নত ভাবে পিঙ্গি সমগ্র

ব্রহ্ম মাছের রক্তাণী পিঙ্গির হ্রাসে পুষ্টিকরণ

মাননীয় মন্ত্রণামন্ত্রী কর্তৃক অফিস ও ল্যান্ড উদ্বোধন

পিঙ্গি সমগ্র প্রক্রিয়া হাতে কলমে প্রশিক্ষণ

আইএনও সনদ গ্রহণ

যশোর জেলা কল্যাণ অফিসের প্রথম আর্থীক সত্য নথী-২০১৬ এর পুরস্কার প্রদান।

ইউনাইটেড এগ্রো ফিশারীজ
বেগু প্রক্রিয়াকারকরণ অনুমোদিত কার্পাস পিঙ্গি প্রক্রিয়াকারকরণ কার্পাস

মাননীয় প্রধানমন্ত্রী শেখ হাসিনার হাত থেকে জাতীয় স্বাক্ষর পুরস্কার-২০১৭ গ্রহণ

CERTIFIED ISO 9001:2015 COMPANY

জেলা মুক্তিযোদ্ধা কমন্ডের জনন, মুক্তি সেরেস্তাঘর সড়ক, যশোর।
ফোন : ৮৮৮০ ৪২১-৬২২৮৮, মোবাইল : ০১৫৪০-০৫৮১৯২

e-mail : uaf.cpg@gmail.com
web : www.uaf-cpg.com

2.15 Print and distribution of info book/notebook

In this part, we had printed and distributed of info book/notebook.

We had printed 1000 info book. It would help people to increase the business of PG. Info book is represent the UAF business.

ইউনাইটেড এগ্রো ফিশারীজ সরবরাহকৃত পিঙ্গি ব্যবহার করে দেশের বিভিন্ন হ্যাচারি এ পর্যন্ত ৬৩ ম্যাট্রিক টন বেগু উৎপাদন করেছে যা কিনা ৭ থেকে ৮ নাক মেট্রিক টন মাত্র উৎপাদনে সরাসরি তুলিকা রেখেছে।

বিকল্প উপাদান উৎপাদনে জনগণকে সচেতনকরণ এ
আমাদের দেশ থেকে হিমায়িত মাছ বিশেষে রক্তাণী বহু অংশ থেকেই শুরু হয়েছে। কিন্তু মাছ থেকে স্বাভাবিক ভাবে পাওয়া অতিরিক্ত উপাদান (by product) এর আশে পাশে রক্তাণী হ্রাস। আমাদের প্রাকৃতিক পিঙ্গি প্রক্রিয়াকারকরণ ও রক্তাণী হ্রাস থেকে দেশের অনেক উদ্যোগী মাছ থেকে প্রাকৃতিক পিঙ্গি প্রক্রিয়াকারকরণ ও রক্তাণী হ্রাস উৎপাদিত হবেন। তবে দেশে প্রাকৃতিক পিঙ্গি উৎপাদনের ব্যাপারে বর্ষাব্যয় প্রশিক্ষণ ও পুষ্টিসামগ্রী সরবরাহ করা দান করলে এই পিঙ্গির মাধ্যমে প্রক্রিয়াকারকৃত প্রাকৃতিক পিঙ্গি দেশের চাহিদা মিটিয়ে রক্তাণী হ্রাসে সহায়তা করা যাবে। ইউনাইটেড এগ্রো ফিশারীজ কার্পাস থেকে প্রাকৃতিক পিঙ্গি উৎপাদনে যথেষ্ট সাফল্য লাভ করেছে যাতে জনগণকে দেশের মতস্য হ্যাচারীগুলিতে উন্নত মানের বেগু পোনা উৎপাদন হচ্ছে যা কিনা বেগু উৎপাদনে আমাদের বিশেষ নির্ভরতা কমিয়ে দেশে হ্যাচারী পিঙ্গির বিকাশ সাধন, সার্বোপরি যথন উৎপাদনে সমৃদ্ধি শক্তিও ব্যাপক তুলিকা রাখবে।

অন্যে পরিচালিত আনী, স্বত্বাধিকারী এ ইউনাইটেড এগ্রো ফিশারীজ যোগে ৭১ এর হ্যাচার মুক্তিযুদ্ধে রক্তাণী হ্রাসে নীর মুক্তিযোদ্ধা। তিনিই এ জাতীয় স্বাক্ষর পিঙ্গি উৎপাদনের আবিষ্কারী তিনি এই প্রাকৃতিক পিঙ্গি উৎপাদন ও সরবরাহের মধ্য দিয়ে আমাদের স্নিহ মাতৃভূমি বাংলাদেশকে সব দিক দিয়ে সেবা করতে আস্তী।

নিম্নত ভাবে পিঙ্গি সমগ্র

ব্রহ্ম মাছের রক্তাণী পিঙ্গির হ্রাসে পুষ্টিকরণ

মাননীয় মন্ত্রণামন্ত্রী কর্তৃক অফিস ও ল্যান্ড উদ্বোধন

পিঙ্গি সমগ্র প্রক্রিয়া হাতে কলমে প্রশিক্ষণ

আইএনও সনদ গ্রহণ

যশোর জেলা কল্যাণ অফিসের প্রথম আর্থীক সত্য নথী-২০১৬ এর পুরস্কার প্রদান।

ইউনাইটেড এগ্রো ফিশারীজ
বেগু প্রক্রিয়াকারকরণ অনুমোদিত কার্পাস পিঙ্গি প্রক্রিয়াকারকরণ কার্পাস

মাননীয় প্রধানমন্ত্রী শেখ হাসিনার হাত থেকে জাতীয় স্বাক্ষর পুরস্কার-২০১৭ গ্রহণ

CERTIFIED ISO 9001:2015 COMPANY

জেলা মুক্তিযোদ্ধা কমন্ডের জনন, মুক্তি সেরেস্তাঘর সড়ক, যশোর।
ফোন : ৮৮৮০ ৪২১-৬২২৮৮, মোবাইল : ০১৫৪০-০৫৮১৯২

e-mail : uaf.cpg@gmail.com
web : www.uaf-cpg.com

2.16 Print and hanging of consumer awareness festoons

In this part, we had printed and hanged many consumer awareness festoons in many places. We had printed 200 festoons. It would help people to know about the PG. It would increase the business of PG.



2.17 National day observation

Bangladeshis at home and abroad is celebrating Bangladesh's 49th Victory Day paying deep homage to the martyrs who laid down their lives for the country during the Liberation War. Bangladesh is now also the fifth biggest aquaculture producer in the world said the report titled "The State of World Fisheries and Aquaculture 2018". The country was ranked third in producing fish from inland water-bodies, behind China and India, according to a report of Food and Agriculture Organization (FAO).



This year's National Fisheries Week's slogan:

'Build country with fish farming, Bangabandhu's Bangladesh'

Therefore, The United Agro Fisheries, through holding the slogan and celebrating the Great Victory Day, have pledged to play a leading role in taking the Bangladesh's position number one, among the world in fish farming by producing quality fish seeds with natural dry PG. In this part, 20 freedom fighter and 7 Botiwalas participated.

We also observed the National Fish Week -2019 in this project session. The main slogan of this program are-

***“MacchChasheGorboDesh
Bongobondhur Bangladesh”***

In this part we handover leaflets, info book to the students, fish farm and masa people etc. Many visitors were very curious about our PG and its drying process. In this part, 10 Botiwalas participated.



Chapter 3: Lessons Learned & Recommendation

3.1 Key Lessons Learned

- New participants are very curious about the PG
- They are very interested to know the process of PG extraction
- Timing of different fish markets are different-morning, evening/night
- Difficult to adjust training timing with different fish markets
- Some buyers are not agreed to cut fish head for PG extraction
- Botiwalas are asking about fish scale marketing (bi-product)
- Women Botiwalas are not getting big fish for cutting, only small fishes.
- Fish markets are not clean, not well constructed (only Bhola, tiles made fish market)
- Carp hatchery owners from Jashore are not using dry PG

3.2 Challenges

- Fish purchasers (consumer) are reluctant in maximum level to contribute PG to harvester. Mass awareness activity may enhance their willingness to contribute PG.
- Hatchery owners purchase raw PG direct from CPG harvesters, which hampers quality fish seed production in hatcheries as well as interrupt raw PG collection and organic PG production process.

3.3 Monitoring and Reporting

From the beginning of this project, United Agro Fisheries kept all the documents and follow working methodology as decided with WorldFish (BANA). Time to time reporting happened as well a monitoring get support from us

3.4 Business Risk and Intervention Strategy

United Agro Fisheries faces a crisis where they trained CPG harvesters who extract PG but sold to another people or hatchery owners. After notifying this matter, we set a plan for expanding this PG collection activity all over the country.

3.5 Sustainability of the business/ intervention model

To avoid risk and continuation of business entity our new plan of giving training to CPG harvesters all over the country will be fruitful.

3.6 Key Innovation of the project

United Agro Fisheries came to know several potential facts respectively-

- Hatchery technicians must be educated at least diploma degree holder (vaterian agro)
- Targeted number (300) of PG extractors' training is given perfectly and many of them responds by extracting PG.

- Artificial breeding trials of Catla (*Catla catla*), Rui (*Labeo rohita*) & Silver carp (*Hypophthalmichthys molitrix*) using dry PG, wet PG and the synthetic hormone, Ovaprim established that our product. Organic PG is one of the best in performance.

3.7 Areas of Improvement/Recommendation

- Agents should be select from CPG harvester for strong supply chain management (raw PG) establishment.
- A mobile device with memory chips, containing PG extracting video may be given to agent for generate more perfectionist PG harvesters.
- Training all over the country is essential.
- Each hatchery technicians should diploma (voluntary, Agro) certificate holder.
- CPG harvesters should be given fish cutting instrument, popularly known in Bangladesh Boti.
- Safety instruments should be given to avoid Covid-19 pandemic situation.
- CPG harvesters may get mini icebox for PG preserving.
- Each market should establish PG collection booth, which contain also a refrigerator.
- To discourage hatchery owners' purchase of raw PG, this type of purchase hamper organic PG production.
- Raw PG purchase price & organic PG sales price should be fixed with the counselling of CPG harvesters, hatchery owners along with government body.
- Another 24 months training activity with method, that is more effective.

3.8 Conclusion

UAF goes ahead with the partnership cooperation of World Fish's technical support. During this project, UAF gained different kind of experiences. Besides low-income people of our society who are involved with fish market, they are getting chances to earn more by collecting raw CPG from fish head. There are some unemployed educated person also involve with UAF and solve their economic problem by attaching several work tasks of this project. Hatchery owners also learned to use dry CPG correctly and harvest fish breeding in great percentage. This project is a pioneer in playing a leading role in aquaculture development in Bangladesh.

Annex 1: Target vs Achievement

SL No	Activity name	Total Target	Total Achieved
01	Staff orientation on project, activities and mode of operation system	1	1
02	Project coordination meeting (bi-monthly)	4	4
03	Identification and finalization of Agents & Sub-Agents	1	1
04	Technical and business capacity development training for Commission agents-Basic	1	1
05	Technical and business capacity development training for Commission agents-Refresh	1	1
06	CPG harvesters' communication and group formation	15	15
07	Capacity development training for CPG harvesters-Basic	15	17
08	Capacity development training for CPG harvesters-Refresh	15	15
09	Capacity development for Hatchery owners and technicians	8	10
10	Hatchery farmers' tracking	1	0
11	Linkage development program with the buyers	4	4
12	Performance testing of dry CPG compared to wet PG	2	2
13	Redesign, Content development, and preparation of promotional materials (Leaflet, Info book and Awareness festoon)	1	1
14	CPG processing & operational video preparation	1	1
15	Print and distribution of leaflets	5000	5000
16	Print and distribution of info book/notebook	1000	1000
17	Print and hanging of consumer awareness festoons	200	200
18	National day observation (Fish week, development fair etc.)	2	2

Annex 2: Participants versus Activities

SL No	Activity name	Date	Venue	Participants Type	No. of Participants			Supporting Documents
					Male	Female	Total	
01	Staff orientation on project, activities and mode of operation system	29-04-2019	UAF office	staff	8	4	12	<ul style="list-style-type: none"> ➤ Event Register ➤ Event Report ➤ Photos
02	Project coordination meeting (bi-monthly)	01-07-2019	UAF office	Staff	4	0	4	<ul style="list-style-type: none"> ➤ Event Register ➤ Event Report ➤ Photos
		21-08-2019	UAF office	Staff	7	0	7	
		28-10-2019	UAF office	Staff	7	0	7	
		21-10-2020	UAF office	Staff	6	2	8	
03	Technical and business capacity development training for Commission agents-Basic	19-05-2019	Bachte Shekha Training Hall, Jashore	Agents & Sub-Agents	16	0	16	<ul style="list-style-type: none"> ➤ Event Register ➤ Event Report ➤ Photos
		20-05-2019						
04	Technical and business capacity development training for Commission agents-Refresh	27-11-2019	Bachte Shekha Training Hall, Jashore	Agents & Sub-Agents	21	0	21	<ul style="list-style-type: none"> ➤ Event Register ➤ Event Report ➤ Photos
05	Capacity development training for CPG harvesters-Basic	11-6-2019	Police Community Center, Rangpur	Fish Cutter/Botiwala	19	02	21	<ul style="list-style-type: none"> ➤ Event Register ➤ Event Report ➤ Photos
		12-6-2019	Tonmoy Community Center, Bogra	Fish Cutter/Botiwala	31	0	31	
		30-6-2019	United Agro Fisheries Office, Jashore	Fish Cutter/Botiwala	24	0	24	
		21-7-2019	District Fisheries Office, Kushtia	Fish Cutter/Botiwala	21	0	21	
		24-7-2019	Abc Foundation, Barishal	Fish Cutter/Botiwala	23	0	23	
		29-7-2019	District Fisheries Office, Faridpur	Fish Cutter/Botiwala	25	0	25	
		07-8-2019	Mirpur-1, Dhaka	Fish Cutter/Botiwala	46	0	46	
		08-8-2019	Bondhon Community Center, Abdullahpur	Fish Cutter/Botiwala	43	0	43	
22-8-2019	Purnima Kabab & Restrora, Mirpur-2	Fish Cutter/Botiwala	43	0	43			

SL No	Activity name	Date	Venue	Participants Type	No. of Participants			Supporting Documents
					Male	Female	Total	
		25-8-2019	District Fisheries Office, Khulna	Fish Cutter/Botiwala	32	0	32	
		02-9-2019	Zilla Muktijoddha Complex, Jashore	Fish Cutter/Botiwala	10	0	10	
		03-9-2019	Zilla Muktijoddha Complex, Jashore	Fish Cutter/Botiwala	10	0	10	
		04-9-2019	Zilla Muktijoddha Complex, Jashore	Fish Cutter/Botiwala	10	0	10	
		08-9-2019	Uno Office, Jhikargacha	Fish Cutter/Botiwala	11	0	11	
		17-9-2019	76/51 Bibir-Bagicha, Jatrabari	Fish Cutter/Botiwala	10	0	10	
		18-9-2019	Thai Park Chinese Restaurant, Jatrabari	Fish Cutter/Botiwala	14	0	14	
		19-9-2019	Charulota Restora, Karwan Bazar	Fish Cutter/Botiwala	12	0	12	
		06	Capacity development training for CPG harvesters-Refresh	15-01-2020	Mirpur-1, Dhaka	Fish Cutter/Botiwala	20	
16-01-2020	Mirpur-2, Dhaka			Fish Cutter/Botiwala	20	0	20	
19-01-2020	Chuadanga Bus stand, Jashore			Fish Cutter/Botiwala	19	1	20	
20-01-2020	Jashore Boro Mach Bazar			Fish Cutter/Botiwala	30	0	30	
21-01-2020	Jashore Rail Bazar			Fish Cutter/Botiwala	16	4	20	
22-01-2020	Jhikargacha Bazar			Fish Cutter/Botiwala	21	0	21	
23-01-2020	Khulna Boro Mach Bazar			Fish Cutter/Botiwala	20	0	20	
26-01-2020	Zamrul Tala Bazar, Jashore			Fish Cutter/Botiwala	17	3	20	
29-01-2020	Pouro Bazar, Kushtia			Fish Cutter/Botiwala	20	0	20	
30-01-2020	Hazi Soriwatullah Bazar, Faridpur			Fish Cutter/Botiwala	20	0	20	
16-02-2020	Choumatha Bazar, Barishal			Fish Cutter/Botiwala	19	1	20	
23-02-2020	Karwan Bazar, Dhaka			Fish Cutter/Botiwala	20	0	20	
24-02-2020	Thathari Bazar, Dhaka			Fish Cutter/Botiwala	22	0	22	

SL No	Activity name	Date	Venue	Participants Type	No. of Participants			Supporting Documents
					Male	Female	Total	
		25-02-2020	Abdullahpur Bazar, Dhaka	Fish Cutter/Botiwala	22	0	22	
		27-02-2020	Fateh Ali Bazar, Bogra	Fish Cutter/Botiwala	21	0	21	
07	Capacity development for Hatchery owners and technicians	11-05-2019	Zilla Muktijoddha Complex, Jashore	Hatchery owners and technicians	15	0	15	<ul style="list-style-type: none"> ➤ Event Register ➤ Event Report ➤ Photos
		18-05-2019	Chai Pai Chines Restaurant, Jashore	Hatchery owners and technicians	27	0	27	
		22-07-2019	District Fisheries Office, Kushtia	Hatchery owners and technicians	26	0	26	
		25-07-2019	Kasipur Fisheries Office, Barishal	Hatchery owners and technicians	21	0	21	
		30-07-2019	District Fisheries Office, Faridpur	Hatchery owners and technicians	22	0	22	
		31-07-2019	Zilla Muktijoddha Complex, Jashore	Hatchery owners and technicians	22	0	22	
		26-08-2019	Fisheries Farm, Khulna	Hatchery owners and technicians	14	1	15	
		27-08-2019	Fisheries Farm, Patuakhali	Hatchery owners and technicians	18	0	18	
		16-09-2019	Zilla Muktijoddha Complex, Jashore	Hatchery owners and technicians	22	0	22	
		22-09-2019	Kasipur Fisheries Farm, Barishal	Hatchery owners and technicians	20	0	20	
08	Linkage development program with the buyers	23-12-2019	Ma Fatema Fish Hatchery, Jashore	CPG buyers	17	0	17	<ul style="list-style-type: none"> ➤ Event Register ➤ Event Report ➤ Photos
		24-12-2019	Lulu Fish Hatchery, Jashore	CPG buyers	31	0	31	
		07-09-2020	Government fish farm, Barishal	CPG buyers	12	0	12	
		08-09-2020	Government fish farm, Bhola	CPG buyers	11	0	11	
09	National day observation (Fish week, development fair etc.)	18-23 June 2019	Deputy Commissioner's office premises, Jashore	Botiwalas	10	0	10	<ul style="list-style-type: none"> ➤ Event Register ➤ Event Report ➤ Photos
		16-12-2019	Upazilla Conference	Botiwalas &	27	0	27	

SL No	Activity name	Date	Venue	Participants Type	No. of Participants			Supporting Documents
					Male	Female	Total	
			room, Jhikargachha, Jashore	Freedom Fighters				

Annex 3: Sales Performance

UNITED AGRO FISHERIES (JULY 2019-OCTOBER 2020)

Sales amount (Dry export)

No.	Date	Client	Country	Quantity (gm)	Received TK
1	4/1/2019	ALEX	RUSSIA	20	148000.00
2	4/7/2019	ALEX	RUSSIA	20	148400.00
3	4/14/2019	YURI	UK	1	9600.00
4	4/16/2019	PISCICULTURE	BRAZIL	50	382000.00
5	4/21/2019	ALEX	RUSSIA	20	148700.00
APRIL Total:			Gram	111	836700.00
6	5/19/2019	YULIYA	UKRAINE	10	82700.00
7	5/5/2019	PAVLINA	BULGARIA	10	123600.00
8	5/15/2019	WALEED	USA	10	75444.00
9	5/30/2019	TINEO	ECUADOR	5	45685.00
MAY Total:			Gram	35	327429.00
10	6/20/2019	ALEX	RUSSIA	20	158020.00
JUNE Total:			Gram	20	158020.00
11	7/14/2019	JARMISION	BRAZIL	5	45610.00
12	7/18/2019	MARTINHO	BRAZIL	5	45641.00
13	7/28/2019	ALEX	RUSSIA	20	152539.00
JULY Total:			Gram	30	243790.00
14	8/1/2019	THALES	BRAZIL	35	257560.00
15	8/25/2019	ALEX	RUSSIA	20	152539.00
AUGUST Total:			Gram	55	410099.00
16	9/25/2019	ALEX	RUSSIA	20	152400.00
SEPTEMBER Total:			Gram	20	152400.00
17	10/27/2019	ALEX	RUSSIA	20	165100.00
18	10/27/2019	IZABEL	BRAZIL	15	118289.00
OCTOBER Total:			Gram	35	283389.00
19	11/10/2019	YULIYA	UKRAINE	10	82600.00
20	11/12/2019	SALMAN	RUSSIA	105	688800.00
21	11/14/2019	ESMAEILI	IRAN	10	268400.00
22	11/6/2019	ALEX	RUSSIA	40	284100.00
23	11/26/2019	THALES	BRAZIL	25	186533.00
24	11/12/2019	SALMAN	RUSSIA	50	339000.00
25	11/14/2019	PISCICULTURE	BRAZIL	50	382000.00
NOVEMBER Total:			Gram	290	2231433.00

26	12/4/2019	MARTINHO	BRAZIL	5	45641.00
27	12/29/2019	AL-TALIBI	IRAQ	200	1428000.00
DECEMBER Total:			Gram	205	1473641.00
28	1/5/2020	MARTINHO	BRAZIL	5	41350.00
29	1/6/2020	YURI	UK	10	81872.00
30	1/12/2020	BABU	JORDAN	4	30500.00
31	1/12/2020	YULIYA	UKRAINE	10	80000.00
32	1/5/2020	MARTINHO	BRAZIL	5	40000.00
33	1/21/2020	ALEX	RUSSIA	20	152850.00
34	1/30/2020	MARTINHO	BRAZIL	5	39500.00
JANUARY Total:			Gram	59	466072.00
35	2/13/2020	ALEX	RUSSIA	20	153095.00
36	2/19/2020	ALEX	RUSSIA	20	153060.00
37	2/25/2020	TINEO	VENEZUELA	6	53188.00
FEBRUARY Total:			Gram	46	359343.00
38	3/1/2020	ALEX	RUSSIA	20	152829.00
39	3/1/2020	MARTINHO	BRAZIL	5	37834.00
40	3/4/2020	FRANCISCO	COLOMBIA	5	48000.00
41	3/1/2020	ALEX	RUSSIA	20	153007.00
42	3/19/2020	MOLDIR	KAZAKHSTAN	11	91650.00
43	3/24/2020	PAVLINA	BULGARIA	10	86100.00
44	3/23/2020	ELDAHAB	EGYPT	20	150000.00
45	3/19/2020	AL-TALIBI	IRAQ	25	178000.00
MARCH Total:			Gram	116	897420.00
46	4/2/2020	YULIYA	UKRAINE	10	80000.00
APRIL Total:			Gram	10	80000.00
47	9/17/2020	ANAS	JORDAN	4	46531.00
SEPTEMBER Total:			Gram	4	46531.00
48	10/3/2020	PINTO	BRAZIL	10	119000.00
49	10/19/2020	MARTINHO	BRAZIL	5	50133.00
OCTOBER Total:			Gram	15	169133.00
Total:			Gram	1051	8135400.00

UNITED AGRO FISHERIES (JULY 2019-OCTOBER 2020)

Sales amount (Dry local)

No.	Date	Client	District	Quantity (gm)	Received TK
1	4/1/2019	BIMOL	BORISAL	20	76000.00
2	4/1/2019	MUSTAFIZUR	JASHORE	30	114000.00
3	4/2/2019	MANIK	MYMENSINGH	100	380000.00
4	4/11/2019	GOV HATCHERY	NORAIL	10	40000.00
5	4/11/2019	JUWEL	KISHORGONJ	50	200000.00
6	4/12/2019	MONJURUL	MYMENSINGH	100	400000.00
7	4/15/2019	MEGA FEED	BAGHARPARA	2	8000.00
8	4/15/2019	NIRMOL CHUHAN	MYMENSINGH	300	1260000.00
9	4/19/2019	MANIK	MYMENSINGH	50	210000.00
10	4/20/2019	SANGKAR	MYMENSINGH	100	420000.00
11	4/21/2019	HAZI TRADERS	MYMENSINGH	40	168000.00
12	4/21/2019	NIRMOL CHUHAN	MYMENSINGH	300	1260000.00
13	4/21/2019	HOSSAIN ALI	MYMENSINGH	50	210000.00
14	4/21/2019	SOHEL	MYMENSINGH	10	42000.00
15	4/22/2019	SHOHAG	CUMILLA	20	84000.00
16	4/26/2019	RASHEL	MYMENSINGH	50	210000.00
17	4/26/2019	SHOHAG	CUMILLA	20	80000.00
18	4/26/2019	MUSTAFIZUR	JASHORE	400	1400000.00
APRIL Total:			Gram	1652	6562000.00
19	5/3/2019	SHOHAG	CUMILLA	20	84000.00
20	5/3/2019	MANIK	MYMENSINGH	200	760000.00
21	5/6/2019	ABDUR ROUF	SATKHIRA	40	168000.00
22	5/9/2019	BIMOL	BORISAL	10	42000.00
23	5/12/2019	SHOHAG	CUMILLA	50	210000.00
24	5/12/2019	MANIK	MYMENSINGH	300	1200000.00
25	5/12/2019	NIRMOL CHUHAN	MYMENSINGH	200	840000.00
26	5/13/2019	NASER	RAJBARI	20	84000.00
27	5/15/2019	HAZI MEJBAHUDDIN	JASHORE	1	4500.00
28	5/17/2019	NAZRUL ISLAM	BORISAL	10	42000.00
29	5/27/2019	MAMUN	BHOLA	10	45000.00
30	5/27/2019	PARVEZ	RAJSHAHI	1	4500.00
31	5/27/2019	ABDUR ROB	DHAKA	1	4800.00
32	5/27/2019	MANIK	MYMENSINGH	200	840000.00
MAY Total:			Gram	1063	4328800.00
33	6/10/2019	GOV HATCHERY	KHULNA	10	42000.00
34	6/16/2019	SHOHAG	CUMILLA	40	180000.00
35	6/20/2019	BIMOL	BORISAL	100	460000.00

36	6/23/2019	MANIK	MYMENSINGH	100	450000.00
37	6/28/2019	WORLD FISH	JASHORE	1	4600.00
38	6/30/2019	SHOHAG	CUMILLA	40	184000.00
JUNE Total:			Gram	291	1320600.00
39	7/1/2019	GOV HATCHERY	KUSTIA	10	50000.00
40	7/1/2019	NASER	RAJBARI	20	100000.00
41	7/2/2019	SPECTRA	JASHORE	20	100000.00
42	7/5/2019	MANIK	MYMENSINGH	40	208000.00
43	7/7/2019	SHOHAG	CUMILLA	40	208000.00
44	7/13/2019	JOGODISH	KUSTIA	10	52000.00
45	7/16/2019	MANIK	MYMENSINGH	50	265000.00
46	7/22/2019	SHOHAG	CUMILLA	30	159000.00
47	7/23/2019	SPECTRA	JASHORE	10	53000.00
48	7/27/2019	MONJURUL	MYMENSINGH	5	27500.00
49	7/27/2019	NASER	RAJBARI	10	55000.00
JULY Total:			Gram	245	1277500.00
50	8/2/2019	ARIFUL	SHARIYATPUR	10	55000.00
51	8/12/2019	BABLU	MYMENSINGH	10	55000.00
52	8/20/2019	ZOHA	COXBAZAR	100	540000.00
AUGUST Total:			Gram	120	650000.00
53	9/2/2019	JUWEL	KISHORGONJ	10	50000.00
54	9/16/2019	SPECTRA	JASHORE	10	50000.00
SEPTEMBER Total:			Gram	20	100000.00
55	10/1/2019	MEGA FEED	JASHORE	10	55000.00
OCTOBER Total:			Gram	10	55000.00
56	11/15/2019	BOISHAKHI HATCHERY	NORAIL	10	53000.00
NOVEMBER Total:			Gram	10	53000.00
57	1/19/2020	HAZI TRADERS	MYMENSINGH	50	250000.00
58	1/22/2020	WORLD FISH	DHAKA	1	5000.00
JANUARY Total:			Gram	51	255000.00
59	2/4/2020	AKRAM HOSSAIN	MYMENSINGH	50	280000.00
60	2/4/2020	JUWEL	KISHORGONJ	10	56000.00
61	2/8/2020	NIRMOL CHUHAN	MYMENSINGH	50	280000.00
62	2/11/2020	NIRMOL CHUHAN	MYMENSINGH	50	280000.00
63	2/11/2020	SABITRI	MYMENSINGH	100	560000.00
64	2/11/2020	MANIK	MYMENSINGH	50	280000.00
FEBRUARY Total:			Gram	310	1736000.00
65	3/2/2020	NAJMUL	CUMILLA	10	120000.00
66	3/3/2020	SHAFIKUL	MYMENSINGH	150	1725000.00
67	3/3/2020	SURAYA F H	RAJBARI	15	180000.00
68	3/5/2020	SHOHAG	CUMILLA	10	120000.00

69	3/7/2020	BOISHAKHI HATCHERY	NORAIL	10	120000.00
70	3/11/2020	SHAMONTO	MYMENSINGH	200	2200000.00
71	3/12/2020	RASHEL	MYMENSINGH	20	240000.00
72	3/13/2020	MANIK	MYMENSINGH	50	590000.00
73	3/19/2020	NIRMOL CHUHAN	MYMENSINGH	200	2400000.00
74	3/21/2020	NASER	RAJBARI	20	240000.00
75	3/27/2020	SHAFIKUL	MYMENSINGH	100	110000.00
76	3/27/2020	HOSSAIN ALI	MYMENSINGH	50	575000.00
77	3/29/2020	SHAFIKUL	MYMENSINGH	50	575000.00
78	3/29/2020	NASER	RAJBARI	40	460000.00
MARCH Total:			Gram	925	9655000.00
79	4/4/2020	HOSSAIN ALI	MYMENSINGH	15	195000.00
80	4/4/2020	AKRAM HOSSAIN	MYMENSINGH	35	437500.00
81	4/11/2020	NASER	RAJBARI	30	375000.00
82	4/12/2020	RASHEL	MYMENSINGH	10	128000.00
APRIL Total:			Gram	90	1135500.00
83	5/7/2020	HOSSAIN ALI	MYMENSINGH	40	520000.00
84	5/17/2020	HOSSAIN ALI	MYMENSINGH	30	396000.00
85	5/20/2020	HOSSAIN ALI	MYMENSINGH	50	650000.00
MAY Total:			Gram	120	1566000.00
86	7/15/2020	SURAYA F H	RAJBARI	15	150000.00
87	7/27/2020	MAMUN	BHOLA	50	490000.00
88	7/30/2020	NURUZZAMAN	CHITTAGONG	20	200000.00
89	7/31/2020	HOSSAIN ALI	MYMENSINGH	40	380000.00
JULY Total:			Gram	125	1220000.00
90	8/7/2020	SURAYA F H	RAJBARI	50	450000.00
91	8/10/2020	SHAMONTO	MYMENSINGH	30	270000.00
AUGUST Total:			Gram	80	720000.00
Total:			Gram	5112	30634400.00

UNITED AGRO FISHERIES (JULY 2019-OCTOBER 2020)

Sales amount (Raw local)

No.	Date	Client	District	Quantity (pcs)	Received TK
1	6/7/2019	ABUL KASHEM	NOAKHALI	1000	10000.00
JUNE Total:			Piece	1000	10000.00
2	7/8/2019	ABUL KASHEM	NOAKHALI	1000	10000.00
3	7/9/2019	GOLAM ROSUL	CHUADANGA	100	1000.00
JULY Total:			Piece	1100	11000.00
4	12/12/2019	ABUL KASHEM	NOAKHALI	500	5000.00
DECEMBER Total:			Piece	500	5000.00
5	1/30/2020	ABUL KASHEM	NOAKHALI	500	5000.00
JANUARY Total:			Piece	500	5000.00
6	4/10/2020	MUNIR	MANIKGONJ	2000	24000.00
7	4/17/2020	GOV FISH FIRM	KUSTIA	2000	25000.00
8	4/24/2020	GOV FISH FIRM	KUSTIA	1000	12500.00
9	4/24/2020	ZAKIR HOSSAIN	KUSTIA	1000	12500.00
APRIL Total:			Piece	6000	74000.00
10	5/11/2020	RAJIB BONIK	TANGAIL	1000	20000.00
MAY Total:			Piece	1000	20000.00
11	6/15/2020	FM ASHRAF	COTCHADPUR	4500	60000.00
JUNE Total:			Piece	4500	60000.00
12	7/1/2020	GOV HATCHERY	KUSTIA	4400	60000.00
JULY Total:			Piece	4400	60000.00
13	8/4/2020	CENTRAL HATCHERY	JHINAIDAH	4200	58800.00
14	8/8/2020	FM MANAGER	KUSTIA	400	3500.00
15	8/17/2020	GOV FISH FIRM	COTCHADPUR	3000	42000.00
16	8/20/2020	CENTRAL HATCHERY	COTCHADPUR	3000	42000.00
AUGUST Total:			Gram	10600	146300.00
Total:			Gram	29600	391300.00

TOTAL SOLD		AMOUNT (BDT)	
DRY	6163 Gram	38769800.00	39161100.00
WET	29600 Piece	391300.00	

Annex 4: Project Budget Summary

#	Field of tasks	Units /QTY	BANA %	Grantee %	Total cost in BDT	BANA Contribution in	Grantee Investment in	Total cost in USD	BANA Contributio	Grantee Investment
A	Staff orientation, project coordination									
1	Staff orientation on project, activities and mode of operation system (Total participants-15 nos)	1	66%	34%	71,850	47,500	24,350	862	570	292
2	Project coordination meeting (Bi-monthly)	4	67%	33%	105,500	72,000	33,500	1,265	863	402
B	Identification and finalization of Agents & Sub-Agents									
3	Information collection, visit and meeting with potential Agent & sub-agent points and finalize the agents & sub-agents	1	80%	20%	150,000	120,000	30,000	1,801	1,441	360
4	Capacity building for Commission Sub/Agents on CPG extraction, preservation and handling and business (1 batch, 2 days basic training; 27 persons)	1	82%	18%	232,000	190,200	41,800	2,785	2,283	502
5	Capacity building for Commission Sub/Agents on CPG extraction, preservation and handling and business(1 batch, 1 days refreshers training; 27 persons)	1	85%	15%	158,800	135,600	23,200	1,905	1,627	278
6	CPG harvester's Communication, Selection and Group formation (Meeting & communications for 15 groups formation)	1	69%	31%	455,000	315,000	140,000	5,463	3,782	1,681
7	Capacity development training for CPG harvestors (for 300 harvestors/ Botiwala; 15 batch basic, 1 days training)	15	71%	29%	2,074,500	1,470,000	604,500	24,905	17,648	7,257
8	Capacity development training for CPG harvestors (for 300 harvestors; 15 batch refreshers, 1 days training)	15	76%	24%	1,249,500	948,000	301,500	14,960	11,351	3,609
9	Capacity development for Hatchery owners and technicians (200 persons from 100 Hatchery, 1 days training)	8	77%	23%	866,400	663,200	203,200	10,400	7,961	2,439
10	Linkage development program with the CPG Agents/buyers, Hatchery for brand promotion (4 programs at Zone of Influence-ZOI)	4	57%	43%	296,000	168,200	127,800	3,538	2,009	1,529
C	Communications, promotion and marketing									
11	Performance testing of dry CPG compared to wet PG (with University/DoF)	1	69%	31%	400,000	275,000	125,000	4,801	3,301	1,500
12	Designing, printing and distribution of communication materials	6	63%	38%	960,000	600,000	360,000	11,467	7,163	4,304
	Total-		71%	29%	7,019,550	5,004,700	2,014,850	84,152	59,999	24,153