



TERMS OF REFERENCE (TOR)

FOR

SUPPORTING THE IMPLEMENTATION OF

COMMUNITY BASED SHRIMP AQUACULTURE SYSTEM

IN SRI LANKA

National Aquaculture Development Authority of Sri Lanka (NAQDA)

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1. Introduction:

Today, the shrimp industry is being managed to an effective level due to continued surveillance and monitoring activities of NAQDA. At present, the industry in Sri Lanka comprises altogether 993 farms owned by 980 farmers with a total of 3048 ponds, with an average pond area of half hectare per pond. The total land extent is 2227 hectares, which was a 50% reduction of the estimated total farming area in the 1990s, in the NWP alone. According to the Ministry of Fisheries, Statistical Division, the industry produced around 8000 metric tons of farm gate shrimp, with an export volume of 1984 metric tons in 2018, with the balance being sold in the local market.

The primary objective of the program is the development of the farmers where the meaning of development is not restricted to physical and economic aspects. The idea behind the central role of the program is to help the farmers to help themselves by discussing a wide range of common matters, helping them to get a clearer insight into their problems and developing capacity to make them decide how to overcome them. Hence, it is a process which continues over a period of time and not a single and one-time activity. It involves changes in the behavior of the clientele, presumably resulting in further improvement in their farming practices, production and income, living conditions, social status and confidence. More importantly under this program, it is imperative to bring about behavioral changes and changes in their attitudes to new technology (such as plastic lining of ponds with Geo-membrane and using new species for farming, (*Litopenaeus vannamei*) and by doing so, to make advances from a static stereotype situation which usually prevails in traditional rural societies of Sri Lanka to be more dynamic. Educating and training rural communities to develop/improve their aquaculture skills and capabilities so as to increase their farming efficiency is another core function of the program. Besides, the program will also assist the farmers by providing necessary information on product development, value addition, food safety issues, credit availability, marketing etc. As and where applicable, it will also help the local communities to organize themselves into formal or informal production/marketing groups. The program will also assist in developing certain guidelines and their implementation for sustainable utilization and management of aquaculture/fisheries resources.

NAQDA proposes to implement this project with 100 beneficiaries. Before commencing this project, 3 pilot scale projects have been planned to carryout in Jaffna, Puttalam and Batticaloa districts. Applications will be called by NAQDA from individuals, based on their ability to contribute the predetermined minimum financial requirement and experience. Once selected, the respective individuals will be requested to produce the necessary documents required to authenticate their qualifications to participate in the program Next after, a physical check of the individuals based on their previous and current experience in shrimp farming after conducting field visits, such authenticated individuals will be requested to commence operations in their farm unit. NAQDA will provide initial funds for construction of 500 MT tank unit with HDPE liners including water pumps, paddlewheel and generator with the maximum limit of Rs. Mn 2.1. All other operational and fixed costs such as, cost for stock and sedimentation tank preparation, cost of post larvae (PL), cost of feed, costs for probiotics, costs for electricity, cost for labour and all other unseen sundry expenses will be borne by the individuals under own contributions. The technical know-how and guidance will also be given by NAQDA.

2. Objectives

The National Aquaculture Development Authority of Sri Lanka has planned to establish three pilot projects named "Round shaped Community Based Shrimp Aquaculture System" in Jaffna, Puttalam and Batticaloa districts with a view to popularizing the Community Based Shrimp Aquaculture in Sri Lanka. Applications are called from the individuals interested in implementing three pilot projects, the technical assistance and initial funds for construction of tanks (approximately Rs Mn 2.1) will be provided by NAQDA

This TOR refers to: Jaffna, Puttalam and Batticaloa districts

Deliverables of the project

The farmers are required to deliver the followings

- i. General information of applicant
- ii. Documentary evidence to proof working capital availability to (Approximate annual operation cost of Rs Mn 4) carryout pilot project
- iii. Experience in Aquaculture activity with minimum one year.
- iv. Availablity of legally owned land close to lagoon or sea area and details of the land and the copy of certified deed or lease agreement.(Active lease Agreement should be with in a project period)
- v. The willingness to exchange technical knowledge, other information of pilot project and extension activities of the relevant project.
- vi. After commencing project it is needed direct support for the implementation ensuring successful operation of the project and monthly report submission.

3. Activities

- a. 500 MT Construction of round shaped tank system with other Associated structure.
- b. Production should be carried out according to instruction given by the NAQDA including procurement of postlarvae, feed and feeding management, water quality management and health management etc.

4. Duration of the assignment:

The Duration of the project should be at least 3 years.

5. Key Personnel requirements: (based on key areas of specialty) and competence of applicants.

Applicant need to maintain proper culture facility. Need responsible person with experience in shrimp farming for look after the project activities, collect the data and information and reporting to NAQDA.

The functions and responsibilities of the applicant (Farmers)

- a) Be responsible for the Implementation of conduct this pilot project, and market arrangement
- b) Manage the flow of the day to day operations
- c) Coordinating with and assisting NAQDA on any relevant activities related to the project
- d) The applicant will be responsible for the overall project operation

6. Clients inputs:

Completely manage the system according the requirement and introduction of NAQDA.

7. Reporting Requirements

Reporting will be used together with regular meetings to assess progress regarding the execution of the project. The farmer will be required to produce and submit the monthly progress reports on all activities.

8. Services

The Farmers will be needed to disseminate technology on relevant project to the interested parties nominated by NAQDA. Farmer should share the experience to prepare common Best Management Practices about the project.

9. Time Schedule

The total duration for completing of construction will be 4 months and followed by project operation for 3 years.

10. Payment Schedule

After signing of the agreement with NAQDA, project cost (Rs Mn. 21) will be paid and after submitting of certified bills and completion of the project, balance of the project cost (Rs Mn. 21) will be paid by NAQDA. Submitted bills will be authorized by the Technical officer of NAQDA.

11. Total Cost share

Total cost for construction of 500 MT tank unit with HDPE liners including water pumps, paddlewheel and generator with the maximum limit of Rs.Mn. 2.1 will be paid by NAQDA. All other operational and fixed costs such as, cost for stock and sedimentation tank preparation, cost of post larvae (PL), cost of feed, costs for probiotics, costs for electricity, cost for labour and all other unseen sundry expenses approximately Rs 4 Mn per year will be borne by the individuals under own contributions.

12. Expected Production and profit

Expected production is 1.2 MT from one culture cycle (70 days) and profit is Rs. 172,600 from one culture cycle. 3-4 cycles can be carried out per year.

