

EXPRESSION OF INTEREST TO HIRE A CONSULTANT FOR SETTING UP OF GIFT HATCHERY UNITS IN KARNATAKA

1. Introduction

Tilapia, the omnivore cichlids are becoming a natural choice as a candidate species for aquaculture throughout the world. Tilapia is native to Africa and Middle East, and has emerged from mere obscurity to one of the most productive and internationally traded food fish in the world. The farming of tilapias, especially of Nile tilapia (*Oreochromis niloticus*) in its crudest form is believed to have originated more than 4000 years ago from Egypt. The first recorded scientific method of culture of tilapia was reported in Kenya during 1924. Tilapia was later transplanted and became established as a potential farmed species by the 1940s in the Far East and a decade later spread in Americas. The culture of tilapia has become commercially popular in many parts of the world and the fishery experts have dubbed the tilapia as “aquatic chicken” due to its quick growth and low maintenance cultivation. Tilapia is not only the second most important farmed fish globally, but also described as the most important aquaculture species of the 21st century (Shelton, 2002). The fish is reported to being grown in about 85 countries around the world (FAO 2008). Today, if any fish that could be named as global fish, no better name can be thought of than tilapia. It has emerged as a strong aquaculture species from the land of Africa and Middle East. However, the development of hormonal sex-reversal techniques in the 1970s, followed with research on nutrition and culture systems, along with market development and processing advances, led to rapid expansion of the industry since the mid-1980s. Though several species of tilapia are cultured commercially Nile tilapia is the predominant cultured species worldwide.

In India, tilapia (*Oreochromis mossambicus*) was introduced in 1952, with a view to filling up unoccupied niches, such as ponds and reservoirs. The species spread all across the country within a few years due to its prolific breeding and adaptability to wide range of environmental condition. Studies carried out at CIFA for a period of three years during 1998 to 2000 with GIFT tilapia had demonstrated production levels of 5-6 MT per crop of 4-6 months duration. Further, the study also showed the possibility of tilapia farming under polyculture with the three Indian major carps showing higher growth over rohu and mrigal at similar stocking levels. Monosex population (all male) is also produced with provision of 17 α Methyl Testosterone treated feed for four weeks.

In order to facilitate the culture of Tilapia in India in a responsible manner, the Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India has framed the Guidelines for Tilapia Culture, Establishment of Hatchery for Breeding/Seed Production in India. Government of India vide its letter No. 35029/14/2019-Fy (Trade) dated 23rd April 2020 has empowered respective State/Union Territory to issue permission for establishment and operation of Tilapia hatcheries in their respective State/Union Territory.

2. Purpose of this EoI

Department of Fisheries, Government of Karnataka envisages setting up two Genetically Improved Farmed Tilapia (GIFT) hatchery units in Karnataka in order to promote responsible tilapia culture in Karnataka. Accordingly Department invites expression of interest (EOI) from consultants (Individuals/Enterprises/Agencies) to set up 2 GIFT hatchery units with a production capacity of 2 million fingerlings each subjected to the conditions specified in the terms of reference (ToR)

3. TERMS OF REFERENCE (ToR)

2.1 Application Terms:

1. EoI is invited purely on consultancy basis to execute the scope of works as specified in Annexure - I.
2. EoI consists of two parts namely;
 - a) **TECHNICAL PROFILE:** The aspiring consultant shall submit Technical profile in Annexure – II along with relevant certificates/documents
 - b) **FINANCIAL BID:** The financial Bid shall be quoted in the prescribed format as per Annexure – III
 - c) The technical profile and financial bid shall be submitted in separate sealed covers.
3. Aspiring consultant shall submit a Demand Draft (DD) for Rs. **20000/-** (Rupees: **Twenty thousand** only) towards Earnest Money Deposit (EMD) drawn from any nationalized bank in the name of Director of Fisheries, Bengaluru along with the technical profile.
4. The consultant shall submit self declaration in Annexure - IV
5. Incomplete technical profile without EMD will be summarily rejected.

2.2 Eligibility Criteria:

1. The consultant must possess academic qualification of Master of Fisheries (M.F.Sc) with a specialization in Aquaculture
2. Consultant shall have a minimum experience of 15 years in the field of Aquaculture.
3. The consultant should have executed similar such projects to any of the Government Departments/Agencies in India or abroad.

2.3 Selection Criteria:

1. Consultant is selected by a State steering cum monitoring committee formed for the purpose of regulating responsible tilapia culture in Karnataka. The steering committee constituted will evaluate the applications submitted by the consultants and shortlisted consultants will be considered for next stage of evaluation.
2. Shortlisted consultants will be invited to make detailed presentations before the committee for further evaluation.
3. Based on the committee report, the selected consultant shall submit “Request for Proposal” (RFP) for actual implementation of the project.
4. The decision of the committee will be final in the selection process.

2.4 General Terms and Conditions

1. Technical profiles are evaluated by a committee based on the Marks obtained by the consultants. Minimum of 80 marks out of 100 shall be obtained by the consultant in order to qualify for the Financial Bid evaluation. Technical Evaluation is based on the following matrix
 - a) Qualification and Past Experience :

Number of projects executed/managed – Maximum 50 Marks

b) Presentation - Maximum 50 Marks

Creativity: 20 Marks

Concept: 20 Marks

Managerial Ability: 10 Marks

2. The consultancy charges quoted or tendered would be valid up to 31/03/2021 or for extended period as decided by Dept. of Fisheries.
3. The Department will not entertain any price revision during the validity period of tender or extended period thereof.
4. If any information provided by the consultant in Technical profile is found to be factually false or misleading, such bids will be summarily rejected at any time during the period of evaluation and liable for penalties as applicable.
5. The charges quoted by the consultants shall be most competitive and subject to further negotiations if found suitable. The charges quoted should be inclusive of all taxes (GST) duties, cess etc.
6. After opening of the financial Bid, the eligible and qualified consultant will be selected and the consultant shall execute Memorandum of Understanding (MoU) in Rs 200/- Non-Judicial e-Stamp Paper or as per the existing procedure at his own cost with Director of Fisheries, Bangalore. The format of MoU is specified in Annexure – V.
7. The opening of Technical profile will be done in the presence of the consultants or their authorized representatives who choose to be present.
8. On executing the MoU, if the consultant does not perform his obligations as per the agreed terms and conditions Director of Fisheries shall have all rights to make alternative arrangements.
9. Violation of any of the terms and conditions specified in MoU the consultant's EMD amount will be forfeited.
10. In respect of any dispute arising out of implementation of the project, the decision of the Director of Fisheries shall be final.
11. For any legal remedies, the courts at Bangalore city shall only have the jurisdiction.
12. The Director of Fisheries, Bengaluru reserves the right to reject the tender even after opening of Technical bid or Commercial Bid without assigning any reasons whatsoever.
13. Payment of the quoted consultancy charges is linked to progress of scheduled works

Director of Fisheries

ANNEXURE – I

SCOPE OF WORKS

1. The consultant shall undertake field visit to the following fish seed farms to assess onsite availability of infrastructure facilities for setting up 2 GIFT hatchery units with a production capacity of 2 million fingerlings each. The details of farms where GIFT hatchery units is proposed to be set up are as below
 - a) Fish Seed Farm, Hesaraghatta, Hesaraghatta Lake Post., Bengaluru 560089
 - b) Fish Seed Farm, Karimuddanahalli, Hunsur Taluk, Mysore District
2. The consultant shall assess the suitability of soil and water for setting up of GIFT hatchery units. The Department of Fisheries will pay the prescribed charges for testing soil and water quality parameters if required.
3. The consultant shall prepare detailed project report (DPR) inclusive of
 - Layout plan, drawings for preparation of detailed estimates
 - Plants and machineries, equipments with technical specifications
 - Bio-security measures to be followed
 - Effluent treatment process (especially water discharge from sex reversal tanks)
4. The consultant shall provide information with respect to
 - Strain and source of tilapia of genetically improved variety
 - Number of breeder seeds required
 - Action Plan for development of brood stock in hatchery
 - Periodic procurement of breeder seeds to avail the benefit of genetic improvement and to avoid inbreeding
 - Maintenance of essential records
5. The consultant shall prepare standard operating procedure (SOP) with special reference to
 - Management of brood stock, Stocking density and Feeding schedules to be followed
 - Water quality issues and mitigation measures
 - Selection of breeders and Breeding protocols to be followed
 - Egg collection, hatching techniques and operation of incubation chamber
 - Production of all male seeds including preparation of hormone incorporated feed, hormone dosage and feeding rate etc.
 - Seed rearing methods and Disease management
 - Precautions; do's and don'ts
 - Record maintenance
6. Any other relevant work entrusted in writing

ANNEXURE II
TECNICAL PROFILE

Sl. No.	Particulars	Information furnished
1.	Name and address of the Consultant	
2.	Contact phone number and E-mail address	
3.	Date of Birth	
4.	Nationality	
5.	Educational qualifications	
6.	Academic trainings undergone	
7.	Key skills and strengths of consultant	
6.	Projects handled in India and abroad (If required separate sheet may be used)	
7.	Professional experience (If required separate sheet may be used)	
8.	Details of Research publications	
9.	Awards/recognitions	
10.	Testimonials	
11.	Any other relevant information	

Place
Date:

Signature of the consultant
Authorized signatory

Note: The consultant may provide his/her Curriculum Vitae

ANNEXURE – III

FINANCIAL BID

**Name of the Tender: EXPRESSION OF INTEREST TO HIRE A CONSULTANT FOR
SETTING UP OF GIFT HATCHERY UNITS IN KARNATAKA**

Sl No	Particulars	Amount in Rs	Amount in words
1	Site visit and onsite assessment		
2	Report preparation and draft presentation		
3	Submission of detailed plan and design		
4	Hand holding for one hatchery cycle operation		
Total			

Place

Date:

**Signature of the consultant /
Authorized signatory**

ANNEXURE – IV

DECLARATION BY THE CONSULTANT

❖ I have read and understood the relevant Terms and Conditions of Tender Notification No.

_____ dated _____ and I have submitted the Technical profile in accordance with the Terms and Conditions of the above notification and tender document.

❖ The information furnished in the Technical profile are true and factual and I clearly understand that our rates are liable for rejection if any information furnished is found to be not true and not factual at any point of time.

❖ I have gone through the scope of work as detailed in Annexure-I. The Technical profile and the commercial Bid are submitted separately in accordance with the Terms and Conditions of the above notification and tender document.

❖ I have gone through the Terms and Conditions governing this tender and rates have been quoted without any ambiguity in my mind and would abide by the terms and conditions governing this tender

Place

Date:

**Signature of the consultant /
Authorized signatory**