

TENDER FOR
DEVELOPMENT OF SOFTWARE FOR AQF - RGCA



RAJIV GANDHI CENTRE FOR AQUACULTURE (RGCA)
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Ref. No: RGCA/AQF/Tech/2020

30/07/2020

RGCA invites open tenders for design, development of Cubicle booking software for AQF. The details of requirements and terms & conditions are available in RGCA Website: <http://www.rgca.org.in>. Dead line for submission of bid: **17.30 Hrs on 13/08/2020**.

Project Director

DEVELOPMENT OF SLOT BOOKING SOFTWARE FOR RGCA

Brief introduction about RGCA-Aquatic Quarantine Facility (AQF)

Rajiv Gandhi Centre for Aquaculture (RGCA) is the R & D arm of MPEDA, and is dedicated to augment the Indian seafood exports through sustainable culture technologies. The organization which functions as a society under MPEDA, with no profit no loss motto has made breakthroughs not only in culture technologies of Shrimps, but also in diversified species such as Sea Bass, Cobia, Pompano, Tilapia, Groupers, Mud Crab etc. With the implementation of projects such as the Pilot Scale Marine Finfish hatchery Project at Pozhiyur, Kerala, Grouper Project at A & N islands and Seabass hatchery and Mud Crab hatchery projects at Thoduvaai, Tamil Nadu, RGCA is fully geared up to change the existing trend of restricted species culture practices, which is prevalent in our country. So far, the coastal aquaculture has been mainly shrimp centric and the export revenue was mainly contributed by the exotic shrimps *L. vannamei*. Since the NBC for *L. vannamei* is located at overseas mainly in USA, the brood stocks have been supplied by the 9 numbers of overseas suppliers approved by CAA, as of now. All the imported brood stocks are subject to quarantine to avoid the trans-boundary pathogen entry into our country. Hence, MPEDA was entrusted to establish the Aquatic Quarantine Facility (AQF) for *L. vannamei* at Chennai by Govt. of India and it is operated by MPEDA - RGCA

The facility was established in 2009 in the leased land of Dept. of Fisheries, Govt. of Tamil Nadu, when the Govt. of India permitted the culture of the exotic shrimp *L. vannamei* in India. AQF started its operation with 4 quarantine cubicles, sufficient to quarantine the brooders permitted for the mere 24 *L.vannamei* hatcheries, which were existent, at its inception. Further, the infrastructure of the facility was expanded, realizing the importance of the need for sustaining the industry when a greater number of *L.vannamei* hatcheries were established.

The existing facility has 3 phases, with a total number of 20 quarantine cubicles

- Phase I housing 4 cubicles, inaugurated on 28th June 2009
- Phase II with 3 cubicles, inaugurated on 9th Jan 2013, &
- Phase III with 13 cubicles commissioned on 4th September 2013.

AQF is a state- of the art quarantine facility in par with the international standards required for a quarantine unit and has high end bio security to facilitate the quarantine services of *L.vannamei* brood stock. It facilitates quarantine of imported *L.vannamei* brooders under the Animal Quarantine & Certification Services (AQ & CS), DADF, Ministry of Agriculture & FW. The facility ensures that the imported *L. vannamei* brooders are free from the 7 OIE listed and non-OIE listed pathogens. The AQF operates under a strict SOP framed by a consortium of Govt. organizations, involving CAA, NFDB, CIBA, DADF, AQ& CS and MPEDA.

The existing facility has an annual quarantine capacity of 4, 12, 500 nos. of *L.vannamei* brooders and it is expected to commission an additional 6 more cubicles as Phase-IV which will enhance the capacity in total to 5, 36, 250 nos. of brooders/annum.

All the importation of *L. vannamei* brood stocks by the hatchery operators are being regulated through a software developed by MPEDA-RGCA, as Aquatic Quarantine Monitoring System (AQMS) to ensure for hassle free and transparent mode of modus operandi. So far, 16 Lakhs of brood stocks have been imported by the hatchery operators till March, 2020 through this system.

Software Proposal:

The Competent Authority of RGCA decided to develop a dynamic AQMS software to reserve the quarantine cubicle space available at the Aquatic Quarantine Facility (AQF) for *L. vannamei*, *P. monodon* and Parental Post-Larvae (PPL), by the hatchery operators of our Country. Also, it is proposed to have an online platform with AQF – Dashboard 24 x 7, which will be monitored by the authorized authority and other Govt. institutions who are in consortium with MPEDA - RGCA. Hence, RGCA is looking for a solution provider to build a software platform for the above mentioned, which would bring the transparency for hatchery owners to book slots online. This will also build an effective communication channel between RCGA, hatchery owners and other institutions.

Key Events and Dates:

Tender Notice No	RGCA/AQF/Tech/2020
Tender publishing Date	30.07.2020
Last date of submission of tender	13.08.2020
Date and time of opening of the tender	19.08.2020 at 11.00 Hrs.
Security Deposit	Rs. 25,000/-
Pre-bid meeting	03.08.2020 between 15.00-18.00 hrs.

The Tender is to be submitted in two parts. Part I shall be marked as "TB" (Technical Bid) and Part II shall be marked as "FB" (Financial Bid) on the different envelope.

1. Part I – TB (Technical Bid) Envelope: To contain signed copy of

- a. Notice inviting Tender,
- b. Pre-Qualification Form,
- c. Earnest Money Deposit (EMD), Rs.25,000 (Rupees Twenty-Five thousand only)
- d. Tender document fee of Rs.5,000 (Rupees Five thousand only)

2. Part II – FB (Financial Bid) Envelope: To contain signed copy of

- a. Cost of the Tender. The rates to be filled in both figures and words
- b. Concept Model.

Both Covers 'Part - I' & 'Part - II' duly sealed properly and super scribed with the name of the work, should be kept in a Master Envelope. Master Envelope should have name of the work as mentioned in the tender documents, the name and complete address of the Tenderer.

- 3. The cost of Tender document is Rs.5,000/- (Rupees Five Thousand Only)** (which is non-refundable) should be paid by Demand Draft drawn in favour of "Rajiv Gandhi Centre for Aquaculture payable at Mayiladuthurai" along with tender documents.
- 4. The tender form must accompany the Security Deposit of Rs.25,000/-(Rupees Twenty-Five Thousand Only) as earnest money** by demand draft in favour of "Rajiv Gandhi Centre for Aquaculture" payable at Mayiladuthurai. The tender form submitted without earnest money will not be considered. The earnest money of the unsuccessful bidder will be returned after finalization of the award to successful bidder without interest.

5. In the event of acceptance of tender, the successful bidder is required to submit **Bank Guarantee for an amount equal to 15% of the project value** quoted by the successful bidder. The Bank Guarantee shall be in favour of "Rajiv Gandhi Centre for Aquaculture" payable at Mayiladuthurai. The Bank Guarantee should be provided to RGCA within 7 days from the issue of order, failing which the Work order shall be cancelled and EMD / Security Deposit will be forfeited accordingly. BG will be revoked once after the selected bidder completes the described milestones successfully.
6. The person authorized by bidder will be allowed to take the general visit /participation of Tender. The bidders are required to produce any of documents as documentary evidence for proof of their address.
7. Bidder/s should quote the price in INR, in exceptional cases quoting in currency other than Indian Rupee (INR) should explicitly mention the currency in which tender quoted wherever applicable in Technical Bid along the tender documents.

A. PRE-QUALIFICATION CRITERIA

Eligibility Criteria: Bidder should qualify the following eligibility conditions

- i. Bidder should be a Legal entity (Company) Registered under the Companies Act 1956/2013 and should be operating in India.
- ii. Bidder should have at least 5 active clients.
- iii. Bidder should not be blacklisted by any Central/State Government/PSU agency.
- iv. The bidder must have GST registration, PAN.
- v. The bidder should have experience in developing IT solutions using Node Js, React.

Relevant documents supporting eligibility criteria are to be submitted along with the bid. The work completed / satisfactory report of the concerned Department / Organizations is mandatory.

B. SCOPE OFWORK

Project Overview

RGCA is looking for a vendor to build a platform that brings the transparency to hatchery owners to book slots online. Also, to build an effective communication channel between RCGA and Hatchery owners.

Basic Needs

- Mobile App (Android & iOS) for Hatchery Owners, Management and Website for RGCA.
- RGCA Dashboard
- APIs for easy integration with other applications
- Data Migration

Major Modules

- Cubicle Management
- Scheduling
- Booking the cubicles available
- Hatchery Owners' Management
- Reports Management
- Tests Management
- Role Management

Prime Roles

- Hatchery Owners

1. SINGLE TYPE OF LOGIN FOR HATCHERY OWNERS AND RGCA USERS WITH DROP DOWN MENU IN HOME PAGE

- *L. vannamei* BROODSTOCK
- *P. monodon* BROODSTOCK
- Parental Post Larvae (PPL)

Scope in Detail

- Mobile App for Hatchery Owners both Android and iOS Application.
- Aadhaar and OTP based Login System
- Desktop option should be there for using web camera for face login
- Third party Integration of Facial recognition feature
- System Architecture for Entire RGCA Application
- Wireframes and UI/UX for Mobile app and Web App
- Website Design for RGCA - AQF

2. RGCA Dashboard Includes:

Role Management:

- Add/Edit/Remove roles
- Add/Edit/Remove permissions

Admin module should be capable to create new roles and requirements and provide access to them, based on their requirement. They will share the credentials with the concerned.

3. Cubicle Management:

- List of all available cubicles - ID, capacity- available for General booking/Emergency booking.

- Edit cubicle details - Currently, RGCA is serving with 20 cubicles and planning to work on 6 new cubicles.

- i. **Book cubicles** - Every Booking should go for Admin approval. Once the admin approves, it will be allocated to the Hatchery owner. Admin should have an option to cancel the booking for various reasons.

Approval/ Rejection for the following (Admin)

- a) Cubicle Booking
- b) New Hatchery Registration with three documents (CAA Annual Allocation Letter, SIP & Declaration letter)
- c) New SIP Registration
- d) SIP Changes and SIP Supplier Changes or to be amended
- e) Every Five years One-time New CAA Annual Allocation Letter for renewal hatcheries
- f) All payments -date wise generate settlement file and refund file (Format will be given)

- ii. **Payment (Online payment / Gateway payment):**

- a) Cubicle Booking
- b) One day Buffer fee
- c) Beyond Buffer period fee
- d) Normal to Premium Conversion Fee
- e) SIP Changes fee

- iii. **Cancel booked cubicles** - Process refund with policies in place

- iv. **Notifications**

- a. Receive a notification when shrimp are loaded into the cubicles via SMS and Email.
- b. Receive notification once reports are ready via SMS and Email.
- c. View lab reports in the Mobile App. Options for Admin/Scientists to upload the reports.
- d. Receive notification once shrimps are collected from the lab.
- e. All hatchery owners should receive notifications while there is a cancellation in the booking from any other hatchery owner and they can start the process to rebook in the next working day.
- f. Mail receiving notification for the followings
 - a) Hatcheries Registration Confirmation/Rejection
 - b) Booking Confirmation/Rejection

- c) Booking Cancellation goes to all hatcheries for next working day booking
- d) SIP Confirmation/Rejection
- e) Shipment Documents Confirmation/Rejection
- f) Normal to Premium Conversion Confirmation/Rejection
- g) Delay arrival payment alerts
- h) Arrival Report
- i) Dispatch Report

4. **Scheduling:** Admin should have an option to prepare the one financial year schedule based on the cubicles available. He should also be able to set the release of the same to Hatchery owners, it can be monthly, quarterly or on Annual Basis.

Creating Indian Government Approved Suppliers List (based on supplier only government to be given SIP-Sanitary Import Permit)

5. Hatchery Owners Management:

- a. List of all owners
- b. Activate/deactivate owners
- c. Documents Upload
- d. SIP Upload
- e. Normal to Premium Conversion & payment
- f. Delay arrival & payment
- g. Change of SIP and payment
- h. Booking
- i. Cancellation
- j. Getting Arrival report with document & photos
- k. Getting Dispatch report with document copies
- l. All payments generate to computerized Receipt
- m. Quarantine Clearance Certificate issued by AQCS

6. Tests Management:

- a. List of all tests
- b. Add/Edit/Remove tests

i. Test Parameters Management:

List of all environmental parameters with their unit of measurement

Add/Edit/Remove parameters

ii. Test Pathology Reports Management:

View list of all test reports

Add/Edit/Remove parameters

iii. Lab Technician/Scientist Dashboard:

Login/Register/Forgot Password

Admin should have an option to register the Lab Technician as and when required.

Test Reports Management:

Enter values against tests

8.AQCS Dashboard

Verification of quarantine test reports, of AQF

Issue of Quarantine Clearance certificate (to be generated within a time limit of maximum 2 weeks)

9. Data Migration: -

Migrating the existing data from the current application to the newly developed application.

10. Online / Gateway Payment integration should also be a part of this application.

11. AQF DASHBOARD:

Online update details on daily/weekly/fortnightly/monthly/quarterly/half-yearly/annually basis will be displayed including revenue generated for viewing by authorized authority officials only.

C.SUBMISSION OF BIDS

Bidders are advised to study the bid document carefully. The bid along with the necessary documents should be submitted preferably by India speed post / reputed courier service not later than the date and time specified in the Schedule. Prospective Bidders are advised to follow the instructions provided in the "General Instruction to Bidders".

D.PRE-BID CONFERENCE:

- Pre bid meeting will be held online through RGCA Online Meeting Platform.
- Bidder to submit a maximum of 2 participant's names, contact numbers, designations and e-mail IDs to rgcasoftw@gmail.com on 03/08/2020 between 15.00 – 18.00 hrs along with pre-bid clarification.
- Meeting invite Link will be sent by the RGCA to bidder's provided email IDs to join the online meeting as per the schedule mentioned above.

- Bidder representatives will have to click the RGCA provided link (provided in the e-mail) to join the on line Pre-bid meeting.

E. BIDDING PROCESS

Technical Bids of all Bidders shall be evaluated to determine as to whether they meet the Minimum Eligibility Criteria of the tender document for undertaking the Project. Once it is determined that the Bidder fulfils the Minimum Eligibility Criteria and the Bid is responsive, those bidders have to make a presentation before the Evaluation Committee in virtual mode. The evaluation shall be based on the technical and financial parameters. The weightage for the technical parameters shall be 70% and the financial parameters shall be 30%.

F. BIDDING EVALUATION

Technical Weight age (St): The marks scored by the bidder in technical evaluation shall be calculated to 70 points as below:

$St = T * 0.70$ where T is the Technical score awarded to the bidder as per Technical Evaluation Criteria.

Financial Weight age (Sf): The marks scored by the bidder in financial evaluation shall be calculated to 30 points as below:

The Commercial scores of all the other proposals will be determined by

$Sf = 30 * Fm/F$ (Fm = Lowest evaluated tender cost, F = value of Commercial proposal under consideration).

Final Selection: Proposals will be ranked according to their combined technical (St) and Commercial (Sf) scores. The combined technical and Commercial score shall be calculated as $S = St + Sf$.

The **technical evaluation criteria** are broadly defined as under.

S.NO	Evaluation Criteria	Maximum marks
1	Bidder should have at least 5 active clients providing IT services	>5 clients - 10 marks >6 clients – 12 marks >7 clients - 15 marks (maximum) (work order to be submitted)
2	Bidder should have delivered IT/ITES based services to at least one	10 marks

	Central/State Government/PSU.	(work order to be submitted)
3	The bidder should have experience in developing IT solutions using Node Js, React.	15 marks (work order to be submitted)
4	Bidder should have delivered IT/ITES based services to at least one international entity	10 marks (work order to be submitted)
5	Detailed presentation which covers the entire scope of project.	50 marks
	Total	100

The bidders who got 80 marks or above will only be considered for further evaluation

G. THE OTHER TERMS AND CONDITIONS OF EVALUATION CRITERIA ARE AS UNDER:

- a) If deemed necessary, RGCA in its sole discretion can make required variations in the cut off points for technical evaluation including criteria for technical evaluation.
- b) Mode of presentation will be virtual and through a platform suggested by RGCA, further details will be communicated later on by RGCA.
- c) The Tender Evaluation Committee may choose to conduct technical negotiation or discussion with any or all the Bidders. The decision of the Evaluation Committee in the evaluation of the Technical and Commercial bids shall be final and binding on all the parties.
- d) Any effort by a Bidder to influence the Tender Evaluation Committee's processing of Bids or award decisions may result in the rejection of the Bid.

Failure of the Bidder to agree with the Terms & Conditions of the tender/Contract shall constitute sufficient grounds for the annulment of the award of contract, in which event the contract may be awarded to the next most responsive bidder.

- e) Please note:
 - There should be no mention of prices in any part of the bid other than the financial bids.
 - Unit prices for each component of the financial proposal should be mentioned. Any spelling mistakes or incomplete information furnished would invite for a disqualification of the bid
 - In the commercial bid if there is any discrepancy between the prices mentioned in figures and in words, the prices mentioned in words/figures whichever is lower will prevail.

- Basic price and GST should be shown separately in the commercial bid. If no segregation is given, it will be presumed that the price includes the applicable GST element.
- Substantially Responsible Bids: A substantially responsive Bid is one, which conforms to all the requirements, terms, conditions and specifications of the Request for Proposal.

H. AWARD OF CONTRACT

The contract will be awarded to the bidder whose bid has been determined to be eligible and to be substantially responsive to the bid documents and who has offered the highest scored bidder with lowest financial bid. The contract period is 36 months, includes 24 months under AMC (12 months making warranty period and 24 months under AMC).

I. PAYMENT

1. Payment will be made based on the milestones completed by the selected bidder.
2. The AMC payment will be on quarterly basis at the end of every quarter on submission of invoice and report on the work done during the previous quarter for the AMC.
3. No interest will be paid for delayed payments
4. Payments will be made after deducting TDS on Income tax, GST as applicable.

J. TRAINING

1. RGCA will assign a team to provide the necessary data/information to the selected bidder for executing the project , the selected bidder should also assign a team to coordinate with the RGCA assigned team to collect the required data. (if required the team should travel to RGCA).
2. The successful bidder should train the RGCA team on the usage of the developed application, along with the training the necessary documents, user manuals should be provided to RGCA.

K. MILESTONES

Milestones	Tasks	Duration	Payment %
M - 1	Delivering the design screens for AQF Mobile, web application and website.	T+28 days	45%
M - 2	Delivering the 1. Signup, sign in, forgot password pages for Mobile App, AQF dashboard, AQCS dashboard, 2. AQF dashboard - cubical management 3. Mobile App - Hatchery management module.	M1+28 days	25%

M- 3	Delivering the 1.Mobile App - Cubical management 2. AQF dashboard - Hatchery management 3. AQF dashboard - Payment gateway integration 4. AQF dashboard tests management module 5. AQCS dashboard 6.360* AQF Dashboard with financial aspects 7. Notifications in all modules.	M2+35 days	15%
M- 4	Data Migration Reports	M3+14 days	15%

*T - is the date on which contract has been signed by successful bidder.

L. TERMS AND CONDITIONS

1. All content should be stored and kept confidential and should not reuse/ replicate/ transfer to anyone else.
2. Hosting of the solution should be done in Tier 4 data center with both DC & DR in place.
3. **The selected bidder (agency)** shall execute, comply and organize the function, in accordance with the contract to the complete satisfaction of RGCA.
4. In case of default on the part of the Agency in carrying out any order, RGCA shall be entitled to get the work done by any other persons and all expenses consequent thereon or incidental thereto shall be borne by RGCA and will be deducted by the RGCA from any money due or it may become due to the Agency.
5. The decision of the RGCA in the matter arising out of this contract shall be final and binding in regard to all matters relating to the contract.
6. All cases/proceedings relating to any dispute or claim arising out of or any case of performance of this contract shall be dealt with by courts having jurisdiction in Sirkazhi, Nagapattinam District, Tamil Nadu.
7. In the event of the Agency committing breach of any of the above terms and conditions or the services of the Agency being found to be unsatisfactory, the contract can be terminated by RGCA even before the expiry of the period of agreement by giving 15 days' notice to the Agency. Even otherwise the RGCA will have the right to terminate the engagement of Agency by giving one month's notice.
8. The RGCA shall have right to issue addendum to tendered documents to clarify, amend, modify supplement or delete any of the condition, clause or items stated therein. Each addendum shall form a part of the original invitation to tender.

9. The successful bidder will have to sign a contract agreement with the authorized official of the RGCA on a non-judicial stamp paper for a minimum amount of Rs.200/-and a maximum of Rs. 500/- depending upon the tender value of the project. All the terms and conditions, scope of work etc. contained in the tender documents shall form part of and shall be taken as if they were included in contract agreement to be executed with the Agency.
10. The RGCA reserves the right to accept or reject tender without assigning any reason thereof. The RGCA in this regard will entertain no claim or complaint.
11. The agreement should be signed in all the pages by the Authorized signatory along with seal of the firm. In the event of the Agency committing a breach of the contract the RGCA is entitled to receive from the Agency compensation to the extent of loss incurred as determined by the RGCA for any loss or damage caused to the RGCA. The Maintenance contract shall be awarded for a period of 3 year and upon satisfactory performance at the end of the term, the RGCA may renew the same for further year / (s) up to a maximum of 2 years with the same terms and conditions. During the warranty period any updates required in the software as per the need it will be carried out by the bidder without extra cost.
12. The bidder should reserve a minimum qualified dedicated team (offsite) for the maintenance to carry out the work smoothly.
13. The software should be handed over to RGCA with source code and all password to the Project Director, RGCA.

M. LIQUIDATED DAMAGES FOR DELAY

If the selected bidder fails to execute the work properly in time, shall pay liquidated damages to RGCA at the rate of the 0.5 % of contract value for per week of delay or part thereof subject to maximum of 5% of the contract value. RGCA may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the selected bidder. The payment or deduction of such damages shall not relieve the selected bidder from his obligation to complete the Works, or from any other of his obligations and liabilities under the contract.

N. INDEMNITY

The bidder shall indemnify and keep indemnified RGCA against all losses and claims, including statutory claims which may accrue in relation to the execution of contract or in respect of the personnel involved thereon.

Technical bid format

S.No.	Description	Yes / No
1	Copy of Registration	
2	Copy of GST	
3	Copy of PAN	
4	Work order showing experience in developing IT solutions using NodeJs, React.	
5	Work order/Work completion / Satisfactory to show IT/ ITES services are delivered to State/Central Government or PSU	
6	Work order/Work completion / Satisfactory to show IT/ITES based services are delivered to International entities	
7	EMD details / Document for EMD exemption	
8	Work order showing active clients	
9	Complete set of Tender document duly signed by the Bidder or his authorized	

Financial/ Commercial bid

S.NO	Description	Amount (Rs)	Taxes (%)	Total
1	Design and development of AQF Cubicle booking software			
2	AMC charges for second year			
3	AMC charges for third year			
	Total			

Price has to be quoted in Indian Rupees only.

Flowchart

Proposed AQMS Software for AQF – user friendly through computer and mobile app

Login Page with drop down menu

Proposed OTP/ Aadhaar/facial recognition and Mobile App (Android & iOS) for Hatchery Owners, Management and Website for AQF. Wireframes and UI/UX for Mobile app and WebApp

New SSL (Secure Sockets Layer) Certified web pages

To proposed for secured, insured online cloud server for safely purpose

Hatchery Owners Management

Notification

Cubicles booking

Quarantine Operation and Lab test Activities

Other Software proposal

Final Output - Report:

1. A final report with technical aspects will be generated and delivered through e-mail / mobile app to the hatchery operators and other institutions concerned of AQF.
2. Daily /weekly/ fortnightly/ monthly /quarterly/ half yearly / annual details of brood stocks imported and quarantined details with financial aspects (user fee collected) will be displayed in the AQF- Dashboard to the authorized authority.