

**COCHIN PORT TRUST**  
COCHIN-682009, KERALA, INDIA

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GSTIN: **32AAALC1134F1ZZ**



**E-Quotation No. FIN/EDP/Web GIS/2022 Dated:27/01/2022**

**E-QUOTATION DOCUMENT FOR THE DEVELOPMENT AND  
DEPLOYMENT OF WEB GIS APPLICATION USING OPEN  
SOURCE TECHNOLOGIES**

Website: [www.tenderwizard.com/](http://www.tenderwizard.com/) CPT; [www.cochinport.gov.in](http://www.cochinport.gov.in)

**FA & CAO'S OFFICE, FIFTH FLOOR  
NEW ADMINISTRATIVE BUILDING  
COCHIN PORT TRUST  
WILLINGDON ISLAND, COCHIN-682009**

Due Date & Time for submission : **14.30 Hrs. on 18/02/2022**

Date & Time of Opening : **15.00 Hrs. on 18/02/2022**



**COCHIN PORT TRUST**

**FA & CAO's Office,  
Cochin Port Trust,  
Willingdon Island, Cochin - 682009,  
TELE: 91-0484 -258 2602  
website : [www.cochinport.gov.in](http://www.cochinport.gov.in)**

No. FIN/EDP/Web GIS/2022

Dated: 27/01/2022

**1. e-QUOTATION NOTICE**

1. Electronic Quotations (e-Quotations) are invited in two cover system by the Financial Adviser and Chief Accounts Officer of Cochin Port Trust for the “**Development and Deployment of a Web GIS Application using Open source Technologies**” with one year warranty.
2. The bidder should have experience in development & deployment of **Web GIS Application using Open source Technologies** in the last 5 years as on 31/12/2021 and shall submit scanned copy of Purchase Order/ Work order and Completion Certificate issued by the Client for those previous experiences. Bidders who do not fulfill the experience stipulated above shall not be eligible for evaluation.
3. Quotation documents including Price bid can be downloaded from the e-Tendering portal [www.tenderwizard.com/COPT](http://www.tenderwizard.com/COPT) by making online requisition. Quotation document will also be available in Cochin Port website [www.cochinport.gov.in](http://www.cochinport.gov.in)
4. Schedule of Activities:-

| Sl. No. | Item Description   | Details   |
|---------|--|---|
| 1.      | e-Quotation no.& date  | No. FIN/EDP/Web GIS/2022<br>dt:27/01/2022                   |
| 2.      | Download period of quotation documents                       | <b>15.00 Hrs. on 27/01/2022 to 14.00 Hrs. on 16/02/2022</b> |
| 3       | Last date of submission of Queries/Clarifications            | <b>15.00 Hrs on 03/02/2022</b>                              |
| 4.      | Publishing of Clarifications/Replies and Amendments, if any. | <b>15.00 Hrs on 10/02/2022</b>                              |
| 5.      | Last date and time of submission of bid                      | <b>18/02/2022 at 14.30 Hrs.</b>                             |
| 6.      | Date and time of opening                                     | <b>18/02/2022 at 15.00hrs.</b>                              |

|    |                              |  |
|----|------------------------------|--|
|    | the bid                      |  |
| 7. | EMD/ Cost of document        | Nil  |
| 8. | Validity period of quotation | 60 days from the last date for receipt of quotation  |
| 9. | Period of Contract           | Deployment : 60 days from the date of Work Order<br>Warranty : 1 year from the date of Operational Acceptance. |

5. The bidders are to obtain the one time User ID & password for log-in to the e-tendering Portal [www.tenderwizard.com/CoPT](http://www.tenderwizard.com/CoPT) from the service provider M/s.KEONICS by paying registration amount of Rs.1124/- through online Payment using Credit/Debit Card/Netbanking or DD in favour of “KSEDCL, Bangalore”.
6. The intending bidder must have valid Class-II or III digital signature certificate to submit the quotation. For further details, please contact e-Tender Help Desk No. 080-40482000/ 080- 49352000/ 9746118529/ 9605557738.
7. Bids shall be submitted “online” strictly in accordance with the Instructions to Bidders and Terms & Conditions given in the quotation document. The bidders should submit scanned copy of all the Signed Quotation Document , Eligibility Criteria document and other details required as per bid document etc. through the e-tendering portal.
8. The Bidders shall quote the cost, item wise in the price bid and submit the same ONLINE in the e-tender portal [www.tenderwizard.com/CPT](http://www.tenderwizard.com/CPT) strictly in accordance with the Instructions to Bidders and Terms & Conditions given in the quotation document. Name and address of the Bidder shall necessarily be entered in the space provided in the price bid.
9. The scope of work includes:
  - Design, Development, testing, training and deployment of Web GIS application with functionalities of plotting of various layers including Land, Plot, Building, landmarks, etc., for Cochin Port using open-source technologies from top to bottom, conforming to OGC standards and should be based on a client-server model for expandability, robustness.
  - Install the necessary software in the server provided by Cochin Port Trust as per the technical specifications submitted by the bidder.
  - The application should be under one year warranty.
  - Enhancements including adding/updating of layers are to be done on requirement.

The detailed scope of work and terms and conditions are available in the Quotation document.

10. The Eligibility Criteria for participating in the quotation :

| <b>Sl. No</b> | <b>Criteria</b>  | <b>Documents required</b>  |
|---------------|--|--|
| (i)           | The bidder should have valid GST Regn. certificate, TIN & PAN details  | Copy of the certificates   |
| (ii)          | The bidder should have experience in development & deployment of Web GIS Application using Open source Technologies in the last 5 years as on 31/12/2021 | Copy of Work order/ Project completion certificate with details of the work done issued from the clients shall be submitted. |
| (iii)         | Ability to work & support remotely for the developed Web GIS Application   | An undertaking shall be submitted  |

Bidders who do not fulfill the Eligibility Criteria stipulated above shall not be eligible for further evaluation.

11. The bidders, who fulfil the above eligibility criteria will be called for a demo on the proposed solution. Based on the suitability of the solution, the bidders will be considered for further evaluation.
12. An undertaking shall be submitted on the ability to work & support remotely for the developed Web GIS Application. Details of the expertise for executing the work should also be submitted.
13. Schedule of Activities outlines the estimated schedule for important action dates and times. If Cochin Port Trust finds it necessary to change any of the dates prior to the Quotation closing date, these changes will be reflected in an Addendum to this quotation and posted on the above sites mentioned above.
14. The Bidder shall discuss/clear any doubts before submitting the quotation in order to make them fully aware of the Scope of Work. The bidder should check the usability of the existing shape files with CoPT for the work.
15. The undersigned reserves the right to reject/cancel/postpone any one or all Quotations at any stage of the quotation, which will be binding on all bidders.
16. **Address for communication:** The SR.DY. DIRECTOR (EDP), Finance Department, Cochin Port Trust, Willingdon Island, Kochi – 682009. Ph 0484 2582602, Fax: 0484 2666512, E-mail: [directoredp@cochinport.gov.in](mailto:directoredp@cochinport.gov.in)
17. **Project-in-Charge:** The Project-in-Charge of the work is the Sr.Dy. Director (EDP), CoPT. Clarifications, if any required, can be obtained by contacting the Sr.Dy. Director (EDP), CoPT. Ph: (0484-2582602).

**FINANCIAL ADVISER &  
CHIEF ACCOUNTS OFFICER**

2. FORM OF QUOTATION

To

F.A & C.A.O,  
Cochin Port Trust,  
Willingdon Island,  
Cochin -9.

Sir,

Having seen the Notice Inviting Quotation in the website, examined the Conditions of Contract, specifications and price bid including the bill of quantities for the work of **“Development and Deployment of a Web GIS Application using Open source Technologies”** vide quotation No. FIN/EDP/Web GIS/2022 Dated: 27/01/2022 we offer to execute the Work.

In conformance to the above and the said Conditions of Contract, Specifications, Schedules and Bill of Quantities for the rates mentioned in the Price Bid submitted along with this form

2. We undertake, if our Quotation is accepted, to achieve completion of the various sections of the development within the timeframe specified.
3. We agree to abide by the terms and conditions, rates and purpose of this Quotation.
4. Unless and until a formal Agreement is prepared and executed, this quotation together with your written acceptance thereof shall constitute a binding Contract between us.
5. We understand and agree that you are not bound to accept the lowest or any quotation you may receive.
6. If our quotation is accepted we understand and agree that we will be held fully responsible for the due performance of the Contract.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2022 Signature  
\_\_\_\_\_ in the capacity of \_\_\_\_\_ duly  
authorised to sign Quotation for and on behalf of  
\_\_\_\_\_ (Firm/Agency Name) ( IN  
BLOCK LETTERS ).

Address: \_\_\_\_\_  
\_\_\_\_\_

Witnesses

1. Signature : \_\_\_\_\_  
Name & Address \_\_\_\_\_
2. Signature : \_\_\_\_\_  
Name : \_\_\_\_\_

### 3. INSTRUCTIONS TO BIDDERS

#### 3.1 Scope of Work:

The scope of work includes:

- Design, Development, testing, training and deployment of Web GIS application with functionalities of plotting of various layers including Land, Plot, Building, landmarks, etc., for Cochin Port using open-source technologies from top to bottom, conforming to OGC standards and should be based on a client-server model for expandability, robustness.
- Install the necessary software in the server provided by Cochin Port Trust as per the technical specifications submitted by the bidder.
- The application should be under one year warranty.
- Enhancements including adding/updating of layers are to be done on requirement.

#### **Technology Stack.**

The application should be built using the open-source software's like PostGIS, a robust spatial extension for PostgreSQL; GeoServer, a spatial data server; OpenLayers, a browser-based map renderer. QGIS should be used for Parcel layer editing. The application should be hosted in IIS. The application will be developed at the vendors environment and deployed to the Cochin Port Trust's server after the QA. The web application is supposed to work on the latest versions of Chrome and Mozilla browsers. The web application should have basic UI with initial deployment and User Interface/User Experience (UI/UX) enhancements as part of enhancements.

| <b>Components</b>     | <b>Framework / Tools</b> |
|-----------------------|--------------------------|
| Database              | PostgreSQL + PostGIS     |
| GIS Server            | GeoServer                |
| Web Map Visualization | OpenLayers               |
| Map Editing           | QGIS                     |
| Deployment            | IIS                      |

#### **Bidder - Role**

- Submit the infrastructure requirement for the deployment of application.
- Install the necessary software, database, etc. in the server provided by Cochin Port Trust
- Install QGIS installation in client machine and train the users on editing the parcels layer.

- Publish the parcels layer to the GeoServer, and use the same in a basic MapViewer for viewing.
- The existing shape files available with CoPT have to be checked by the contractor for use.
- Maintain the application during one year warranty
- Enhancements based on the business requirements as Change Request.
- Basic functionalities of the MapViewer
  - Web based application which can be integrated with the website
  - Basic map navigation features like pan, zoom in, zoom out
  - Parcel layer displayed on top of OpenStreetMap, with on/off functionality
  - Option to view the selected parcel's details in a popup
  - Option for end users to request plot details which will trigger an email to the application administrator
- Provision to exchange data using API with external softwares.

***Cochin Port - Role***

- Provide the required infrastructure viz., Server for Database and GIS Server, Desktop for QGIS and remote access facility to deploy the application.
- The existing Enterprise GeoDatabase will be shared. Cochin Port Trust will provide the parcels data as shape file format with proper geo-referencing.
- Ensure a Public IP is configured to the server, so that the Web Application and the GeoServer will be publicly available.

***Deliverables***

- Deployment of Web GIS application with Parcel / Plot layer in the Cochin Port Trust server.
- Creation of new layer/updation of existing layers are to be done on requirement
- Training to Cochin Port Trust staff about editing the plot details using QGIS
- User Manual, System manual including installation guide and any other document required to maintain the system
- Generation of KML file of layers by the contractor once the work of layers is completed based on the request from CoPT.

**3.2 Implementation Schedule**

The timeline for the application development and deployment is 8 weeks, which includes the design, development, testing, training and deployment. Activity based Implementation Schedule should be submitted by the bidder along with the quotation. The table given below shows the draft activity list. The Bidder may make necessary changes (addition/deletion/updation) in the activities in order to complete the entire activities within 8 weeks.

| Sl. No | Activity   | Role          | Days/Date/Period |
|--------|--|---------------|------------------|
| 1      | Requirement Study  | Bidder        |                  |
| 2      | Submission of specification of the required Infrastructure | Bidder        |                  |
| 3      | Submission of Requirement Specification Document (RSD)     | Bidder        |                  |
| 4      | Sign Off RSD   | CoPT          |                  |
| 5      | Development  | Bidder        |                  |
| 6      | Demonstration  | Bidder        |                  |
| 7      | UAT  | CoPT & Bidder |                  |
| 8      | UAT Sign Off   | CoPT          |                  |
| 9      | Server and Client Configuration                            | Bidder        |                  |
| 10     | Training to the QGIS users                                 | Bidder        |                  |
| 11     | Deployment   | Bidder        |                  |

The implementation schedule should be finalized mutually within a week from the date of acceptance of work order.

### 3.3 e-quotation Process

- i. The quotation document can be down loaded from the e-tendering portal [www.tenderwizard.com/COPT](http://www.tenderwizard.com/COPT) from 27/01/2022 to 16/02/2022.
- ii. The quotation shall be submitted by an individual or by a registered Partnership firm or by a Limited Company. The duly authorized person should submit the quotation documents online. Joint Venture is not allowed in the quotation.
- iii. The quotations shall be submitted “on line” in accordance with instructions to Bidders and Terms & Conditions given in the quotation document.
- iv. The intending bidder must have valid Class-II or III digital signature certificate to submit the quotation. For further details, please contact to e-Tender Help Desk No. 080 – 40482000 / 9746118529.

### 3.4 Opening of quotation

The quotation documents and Eligibility Criteria Documents submitted by the bidders online shall be opened in the office of the FA&CAO, Cochin Port Trust at the time and date stipulated in the NIT. The price bids of the technically eligible bidders shall be opened at the time and date published by the employer. No hardcopies of price bids are to be submitted by the bidder. Notice will be given to the qualified bidders for participating in the price bid opening electronically.

### 3.5 Amendments

Cochin Port Trust reserves the right to modify any terms, conditions and specifications of the quotation document. Amendments if any, shall be part of the quotation documents and will be notified in Cochin Port website. The same will be binding to bidders. FA&CAO may, at his discretion, extend the deadline for the submission of the quotation. Bidders are advised to view the Cochin Port Website



regularly to ensure that the bidder has not missed any amendment issued by Cochin Port Trust.

### **3.6 Clarification on the quotation**

The bidders are advised to examine the quotation document carefully and if there be or appear to be any ambiguity or discrepancy in the documents, or any clarifications needed in filling the quotation documents, these shall be referred to the Sr.Dy.Director(EDP), well in advance by way of email or by any other communication so as to reach him before the last date of submission of queries mentioned in the quotation schedule. It is to be noted that no queries seeking clarifications will be entertained after the specified last date of submission. Regardless of the statements made at the meeting, bidders are cautioned that the requirements will only be changed if the change is notified in Cochin Ports web site.

### **3.7 Alteration of Quotation Documents:**

The forms of quotation, schedules, conditions of contract, etc., shall not be defaced or detached from the Quotation documents. No alteration shall be made in any of the Quotation documents and the bidders shall comply strictly with the terms and conditions contained in the Quotation document.

All communications concerning this quotation must be directed only to the Sr.Dy.Director(EDP) Cochin Port Trust. Any oral communications will be considered unofficial and non-binding. Bidder should rely only on written statements or mails issued by the Sr.Dy.Director(EDP) of the Cochin Port Trust.

### **3.8 Change Request & Implementation Procedure**

#### ***a) Change Request***

If the Employer proposes a Change, it shall send to the Contractor as a "Change Request".

#### ***b) Change Proposal***

The Contractor or any other nominated person should submit the change proposal on his own or in response to the Change Request from the Employer and the supporting information with detailed breakup.

The Change proposal shall include the following:

- (a) Proposer (Contractor / Employer)
- (b) Brief description of the Change;
- (c) Impact on the Time for Achieving Operational Acceptance;
- (d) Detailed effort estimate of the Change;
- (e) Effect on Functional Guarantees (if any);

(f) Effect on any other provisions of the Contract.

The pricing of any Change shall be calculated as per the rates available in the contract.

Upon receipt of the Contractor's Change Proposal, the Employer shall decide whether to proceed with the change or not.

***c) Change Order & Valuation***

CoPT in consultation with the contractor will arrive at a consensus in the mandays requirement for the change. CoPT will obtain a management approval for the financial implication to carry out the changes and issue a change order (Form -IV) to contractor with the financial implication as per the man day costs for the Change Request.

It is contractor's sole responsibility to ensure that there is no adverse impacts occurred in the application due to the changes if any, made in the system. Proper impact analysis has to be conducted by the contractor.

The changes on account of CR implementation should be tested by the contractor and UAT will be carried out by the end users with the support of the contractors before they are deployed.

***d) Operational Acceptance***

The contractor shall request for Operational Acceptance with respect to Change Order along with necessary documentation. Necessary documentation for the changes has to be submitted by the Contractor.

**3.9 Contract Acceptance**

A quotation submitted in response to this quotation document shall be considered a binding offer. Acknowledgement of this condition shall be indicated by signature of an officer of the bidder legally authorized to execute contractual obligations and shall be conveyed by submitting a signed Form of quotation document as per the enclosed format.

**3.10 Agreement**

The successful bidder shall enter into and execute the Contract Agreement, to be prepared and completed at the cost of the Contractor, in the form annexed to these Conditions with such modification as may be necessary within 15 days from the date of issuance of the Work order. The Contractor shall prepare the agreement on stamp

paper for value of Rs.200/- (Rupees Two Hundred Only). The duly signed original will be with the Employer and the selected bidder shall execute the agreement for the full period mentioned in the quotation.

### **3.11 Validity**

All prices and any other significant factors contained in the quotation shall be valid for acceptance for a period of 90 calendar days from the date of opening of quotations. Notwithstanding the above, it is obligatory for the bidder to keep the validity for another 90 days for which request in writing by the FA & CAO before the expiry of the original validity period would be sufficient intimation and shall be acknowledged by the bidder.

### **3.12 Exit Clause**

CoPT shall have the option to terminate the contract at any time during the tenure of the contract without assigning any reasons whatsoever and/or without payment of compensation to the successful bidder by giving notice of THIRTY (30) days, in writing to the successful bidder of its intention to do so. The decision of CoPT in terminating the contract will be final and binding on the contractor. Eligible payment till the date of termination will be made to the contractor.

On exit, the bidder has to give the knowledge transfer to the CoPT officials/or CoPT assigned other agencies. The bidder has to submit the revised system manual, user manual, etc. as part of the knowledge transfer. All related credentials including OS, database and applications should be handed over at the time of exit by the bidder.

### **3.13 Rejection of any or all quotation**

Any bidder not conforming to the foregoing instructions will not be considered. It is not obligatory on the part of the Cochin Port Trust to accept the lowest quotation. They reserve the right to accept a quotation in full or in part and /or reject any or all quotes(s) without assigning any reason without any liability. No representation whatsoever will be entertained on this account.

### **3.14 Confidentiality:**

All recipients of the quotation documents for the purpose of submitting a bid shall treat the contents of the document as private and confidential. The "Instructions to Bidder" shall form part of the Contract.

**3.15 Evaluation Process & Eligibility Criteria:**

**3.15.1 Evaluation Process**

Cochin Port Trust will scrutinize the quotations received in terms of the criteria set out in the quotation documents. The quotations of those who successfully fulfil the criteria will be evaluated. The eligibility of each bidder will be evaluated based on the information furnished in the quotation document.

Bidders must remain available during the evaluation period to respond to requests for clarifications, if any. The request for clarification and the response shall be in writing and no change in the price or substance of the quotation shall be sought, offered or permitted. If Bidder receives a request for clarification, he shall provide a written response to the Cochin Port Trust within the time frame specified therein. Failure to respond within this timeframe may render the quotation liable for rejection.

Cochin Port Trust will conduct an exercise of verification of information provided by the bidder. During such exercise, if the ground realities are found to be inconsistent with claims made by the bidder, or in case, discrepancies are found in the information submitted, the quotation will be rejected. Cochin Port Trust will not enter into any correspondence with the bidder except to seek clarification when necessary. The decision of the Cochin Port Trust to accept or reject any quote will be final.

Cochin Port Trust reserves the right to investigate the references and the past performance of any bidder with respect to its successful performance of similar projects, compliance with specifications and contractual obligations, its completion of service on schedule, and its lawful payment of Suppliers, sub-contractors, and workers.

Any attempt by a bidder to improperly influence the Employer during the evaluation process will result in the rejection of the quotation.

**Eligibility Criteria**

| Sl. No | Criteria   | Documents to be submitted  |
|--------|--|--|
| (i)    | The bidder should have valid GST Regn. certificate, TIN & PAN details  | Copy of the certificates   |
| (ii)   | The bidder should have experience in development & deployment of Web GIS Application using Open source Technologies in the last 5 years as on 31/12/2021 | Copy of Work order/ Project completion certificate with details of the work done issued from the firms shall be submitted. |
| (iii)  | Ability to work & support remotely for the developed Web GIS Application   | An undertaking shall be submitted.   |

The bidders should comply with the above eligibility criteria for further evaluation.

**Demo**

The bidders, who fulfil the above eligibility criteria, will be called for a demo on the proposed solution. The demo shall cover the following areas:

- i. Web GIS application with at least two layers with a minimum two parcels
- ii. Navigation features like pan, zoom in/out, etc.
- iii. Display parcel details
- iv. User friendliness

The suitability of the proposed solution of the bidders will be evaluated by CoPT. Based on the suitability of the solution, the bidders will be considered for further evaluation.

**3.15.2 Price Bid**

- i. It is assumed that Bidders shall have read the Quotation Documents to ascertain the full scope of the requirements associated with all areas prior to filling in the rates and prices.
- ii. Prices must correspond to items of the scope and quality defined in the Technical Requirements or elsewhere in the quotation documents.
- iii. If Bidders are unclear or uncertain as to the scope of any area / line item, they shall seek clarification in accordance with the Instructions to Bidders in the quotation documents prior to submitting their bid.
- iv. The quoted rates and prices shall be comprehensive and shall be deemed to cover the full scope of the Requirements complete in all respect, as well as overhead, profit and shall include all incidental and contingent expenses and risks of every kind necessary to complete and maintain the whole of the works in accordance with the Contract.
- v. Prices shall be fixed and firm for the duration of the Contract. No price variation/ adjustment or any other escalation will be entertained. The basic rate quoted in the quotation shall hold good and shall be binding on the bidder, notwithstanding any increase in the prices of services, materials and labour or in the freights or levy of other charges whatsoever and the bidder shall not be entitled to claim any increase over the rates quoted by him during the period of currency of the contract except taxes and duties as introduced / modified by Govt. from time to time.
- vi. Prices shall be quoted in Indian Rupee to a maximum of two significant places of decimals.
- vii. The bidder shall be entirely responsible for payment of all taxes, duties and other such levies arising out of this contract. Cochin Port Trust will not issue any Sales Tax Declaration Forms.
- viii. Deduction shall be made from payments to the bidder towards Income Tax/Work Contract tax, if applicable, as per the law and rules of the Government in force at the time of payment(s).

- ix. The bidder shall submit the price bid only through the e-tender portal.

### **3.15.3 Price Bid Evaluation**

The bidder has to quote the cost item wise in the price bid strictly in accordance with the Instructions to Bidders and Terms & Conditions given in the quotation document. Name and address of the Bidder shall necessarily be entered in the space provided in the price bid.

#### **Award of the work**

The technically eligible bidder, who quoted the overall lowest shall be considered for awarding the work.

#### **4. GENERAL CONDITIONS**

1. **Validity of Quotation:** The Quotations shall be valid for a period of 90 days from the due date of submission of quotation.
2. **Completion Period:** The whole work shall be completed within 8 weeks from the date of receipt of work order. In case the works are not completed within the specified completion periods due to any fault of the Bidder, liquidated damages (L.D.) may be levied as per Clause 4 below.
3. **Payment Terms :** 90% of the total payment will be made after achieving Operational Acceptance of the application from the Sr.Dy. Director (EDP) and the rest 10% after warranty period, deducting the taxes prevailing in force at the time of payment of bills. The 10% retention amount will be kept as SD and released only after successful completion of the warranty period, subject to certification from the Sr.Dy.Director (EDP).
4. **Liquidated Damages:** In case of delay in completion of the contract, liquidated damages (L.D.) may be levied at the rate of half percent (½%) of the total Contract Price per week of delay, subject to a maximum of 10% of the Contract Price. The amount of Liquidated Damages can be adjusted or set-off against any sum payable to the Bidder.
5. **Defect Liability Period:** (also referred to as the “Warranty Period”) means the period of one year warranty given by the Contractor commencing from the date of issue of the Operational Acceptance Certificate of the developed Web GIS Application during which the Contractor is responsible for defects with respect to the developed Web GIS Application and for remedying it at the cost and risk of the Contractor.
6. **Execution of Agreement:** The successful Bidder will be required to execute, within 15 days from the date of receipt of work order, an agreement at his expense on Rs. 200/- Kerala State Stamp Paper in the prescribed departmental form attached with this quotation document, consisting of the work order issued to the Bidder, together with the Quotation submitted by him including General Conditions, Scope of Work and Technical Specifications, for the due and proper fulfillment of the contract. Till signing of agreement, the Quotation together with the acceptance letter shall constitute a binding contract between the Bidder and Cochin Port.
7. **Project-in-Charge:** The Project-in-Charge of the work is the Sr.Dy.Director (EDP), CoPT. Clarifications if any required can be obtained by contacting the Sr.Dy.Director (EDP), CoPT. Ph: (0484-2582602).
8. **Supplementary Instructions/ specifications:** The Project Manager shall have authority to issue to the Contractor, from time to time, such supplementary

instructions/ specifications as shall be necessary for the purpose of the proper and adequate execution and completion of the Works and the remedying of any defects therein. The Contractor shall carryout and be bound by the same.

**9. Contractor's General Responsibilities**

The Contractor shall, with due care and diligence, design (to the extent provided for by the Contract), execute and complete the works during the technical support period and remedy any defects therein in accordance with the provisions of the Contract and with the skill and care expected of a competent provider of information technologies, information systems, support, maintenance, training, and other related services in accordance with the best industry practices. The Contractor shall provide all superintendence, resources required and all other things, whether of a temporary or permanent nature, required in and for such design, execution, completion and remedying of any defects, so far as the necessity for providing the same is specified in or is reasonably to be inferred from the Contract. In particular, the Contractor shall provide and employ only technical personnel who are skilled and experienced in their respective callings and supervisory staff who are competent to adequately supervise the work at hand.

The Contractor shall acquire in its name all permits, approvals, and/or licenses from all local, state, or national government authorities or public service undertakings that are necessary for the performance of the Contract.

The Contractor shall comply with all laws in force in the Country. The Contractor shall indemnify and hold harmless the Employer from and against any and all liabilities, damages, claims, fines, penalties, and expenses of whatever nature arising or resulting from the violation of such laws by the Contractor or its personnel, including the Subcontractors and their personnel.

**10. Co-ordination of the Project Team:**

The Contractor's Representative and staff are obliged to work closely with the Employer's Project Manager and staff, act within their own authority, and abide by directives issued by the Employer that are consistent with the terms of the Contract. The Contractor's Representative is responsible for managing the activities of its personnel and any subcontracted personnel.

**11. Escalation Matrix**

On commencement of the contract the bidder shall submit an escalation matrix with the details including official name, address, phone number, e-mail address, etc.

12. The Bidder shall have valid GST Registration number. GST as applicable for the work will be paid extra by the Port. The GST applicable as per law can be billed on the Port Trust, which will be paid to the Bidder by CoPT along with the bills,



for which the Bidder shall hold valid GST Registration number.

13. All manpower for the work shall be provided by the Contractor at his own cost and settling any disputes with the labour shall be the Contractor's responsibility.
14. The work shall be completed at Bidder's risk and cost. Cochin Port will in no way be responsible for any loss/damages caused in connection with the work.

**SIGNATURE OF THE  
BIDDER**

**ORGANISATION PARTICULARS**

| <b>I. Organisation</b>     |  |
|----------------------------|--|
| Name of the Organisation   |  |
| Address                    |  |
| City                       |  |
| Phone                      |  |
| e-mail                     |  |
| <b>II. Contact Details</b> |  |
| Person Name & Designation  |  |
| Address                    |  |
| Phone                      |  |
| Mobile                     |  |
| e-mail                     |  |
| <b>III. Other Details</b>  |  |
| GST No                     |  |
| PAN No                     |  |
| TAN No                     |  |

**Authorised Signature**

**Date** :  
**Place** :  
**Seal** :

**CLIENT REFERENCE**

| <b>I. Organisation</b>           |  |
|----------------------------------|--|
| Name of the Organisation         |  |
| Address                          |  |
| City                             |  |
| Phone                            |  |
| e-mail                           |  |
| <b>II. Contact Details</b>       |  |
| Person Name & Designation        |  |
| Address                          |  |
| Phone                            |  |
| Mobile                           |  |
| e-mail                           |  |
| <b>III. Supporting Documents</b> |  |
| 1.                               |  |
| 2.                               |  |

**Authorised Signature:**

**Date** :  
**Place** :  
**Seal** :

**Implementation Schedule Form III**

| Sl. No | Activity | (From Date - To Date) / No. Of Days |
|--------|----------|-------------------------------------|
| 1      |          |                                     |
| 2      |          |                                     |
| 3      |          |                                     |
| 4      |          |                                     |
| 5      |          |                                     |
| 6      |          |                                     |
| 7      |          |                                     |
| 8      |          |                                     |
| 9      |          |                                     |

**Form - IV  
COCHIN PORT TRUST**

**Change Order**

To:

.

Sir,

We hereby approve the Change Order for the work specified in .....

1. Title of Change: .....
2. Change Request No. ....
3. Change Order No.: .....
4. Man days : .....
5. Authorized Price for the Change: .....
6. Time for Achieving Operational Acceptance: .....
7. Other effects, if any: .....

For and on behalf of the Employer

Date:

**FORM OF AGREEMENT  
(TO BE EXECUTED ON KERALA STAMP PAPER OF Rs.200/-)**

**AGREEMENT NO. .... OF 2022-23**

This agreement is made at Cochin this the-----day of -----, Two Thousand Twenty Two between **M/s**....., represented by Sri. ----- aged -----years, son of Sri. ----- residing at ----- (House name and No.) ----- District ----- State ----- (hereinafter referred to as “The Contractor” which expression shall include their successors, assignees and administrators) of the one part AND the Board of Trustees of Port of Cochin, Willingdon Island, Cochin-9, a body formed under “Major Port Trust Act 1963” represented by -----aged ----- residing at ----- -- (hereinafter referred to as “The Employer” which expression shall include their successors, assignees and administrators in the office) of the other part.

WHEREAS the “Employer” had called for e-quotations for **“Development and Deployment of a Web GIS Application using Open source Technologies for Cochin Port”** vide e-QUOTATION Notice No. E-Quotation No. FIN/EDP/Web GIS/2022 Dated: 27/01/2022 and the contractor had submitted a quotation for the same giving the rates subject to the terms and conditions etc.

**AND WHEREAS the said quotation of the contractor has been accepted by the employer and a work order No. FIN/EDP/Web GIS/2022 Dated: 27/01/2022 has been issued to the contractor accepting their quotation subject to the “General Conditions”and “Scope of Work” and such other contract documents. And as per one of the terms of the above work order, an agreement will have to be executed between the contractor and the employer.**

NOW THESE PRESENT WITNESSES AS FOLLOWS:

1. The contractor hereby agrees to execute the work **“Development and Deployment of a Web GIS Application using Open source Technologies for Cochin Port”** as described in the “General Conditions of Contract”, ‘Scope of work’, and all hereunto annexed within **8 weeks** from the date of issue of work order or in default to forfeit and pay to the employer the sum of money mentioned in the said conditions.

Security deposit @10% of Contract Price shall be recovered from the Contractor’s bill. The amount towards Security Deposit so deducted will be released only after successful completion of the defect liability period of 12 months, subject to certification from the Sr.Dy.Dir(EDP). The contractor also agrees that 10% cost of

any additional items/works that may be required for the proper completion of the contract can be deducted towards Security Deposit, from the Contractor's bills.

2. The following documents shall be deemed to form and be read and construed as part of this agreement viz:
  - a) CoPT's e-QUOTATION Notice No. FIN/EDP/Web GIS/2022 Dated: 27/01/2022.
  - b) Offer from M/s.....dated.
  - c) CoPT's work order No....., including General Conditions of Contract, Scope of work.
  - d) CoPT's e-mail dated ....., requesting undertaking from the firm.
  - e) Undertaking submitted by the firm vide reply e-mail dated .....
3. The Conditions given in the Work Order dated ..... shall over-ride the general conditions given in the quotation document, wherever they differ. Any of the counter terms and conditions of the contractor shall not be taken as terms and conditions of this contract/ agreement unless the Trustees in writing specifically agree to it.

IN WITNESS WHEREOF THE CONTRACTOR hereunto set his hand and seal on behalf of M/s..... And on behalf of the Board of Trustees of Port of Cochin, the F.A&C.A.O has set his hand and seal and common seal of Trustees as has been hereunto affixed the day and year first written above.

Signed, sealed and delivered  
by Shri. -----

**CONTRACTOR**

(COMMON SEAL OF THE FIRM)

Signed and affixed seal in the presence of:

Witness 1) Signature with address:

Witness 2) Signature with address:

Signed, sealed and delivered by  
The F.A&CAO  
Cochin Port Trust on behalf of  
Board of Trustees of Port of Cochin.

EMPLOYER

Signed and affixed the common  
seal of Board of Trustees of the

Port of Cochin in the presence of

1)

2)



## Price Bid

| COCHIN PORT TRUST  |  |                   |                       |         |                            |
|--|--|-------------------|-----------------------|---------|----------------------------|
| e-QUOTATION FOR THE DEVELOPMENT AND DEPLOYMENT OF WEB GIS APPLICATION USING OPEN SOURCE TECHNOLOGIES |  |                   |                       |         |                            |
| Quotation No. FIN/EDP/Web GIS/2022 Dated: 27/01/2022   |  |                   |                       |         |                            |
| Sl No.   | Tasks  | Effort (Man Days) | Cost (Rs) (Excl. tax) | GST (%) | Total Cost(Rs) (Excl. tax) |
| 1  | Installation and configuration of GIS Server, Web Server, Database and other Extensions  |                   |                       |         |                            |
| 2  | Loading, Publishing and Configuring GIS data with Server (for single layer)  |                   |                       |         |                            |
| 3  | GIS Web application development (for single layer)<br>- Standard toolbar with Drag/Pan, zoom to initial extent, zoom in/out<br>- Option to turn on/off the layers<br>- Option for end user to request the details about the plot, which will send email to the configured email id<br>- Tool to identify the plots and display the result in a popup |                   |                       |         |                            |
| 4  | Testing (Developer & Integration)  |                   |                       |         |                            |
| 5  | Production Deployment  |                   |                       |         |                            |
| 6  | GIS Desktop (QGIS) installation & Configuration & Training   |                   |                       |         |                            |
| 7  | Enhancement (additional configuration per layer)   |                   |                       |         |                            |
|  | <b>Grand Total</b>   |                   |                       |         |                            |

| <b>CHECK LIST OF DOCUMENTS (To be uploaded by the Bidder)</b> |   |                  |                           |
|---|---|------------------|---------------------------|
| <b>E-Quotation No. FIN/EDP/Web GIS/2022 Dated:27/01/2022</b>  |   |                  |                           |
| <b>Sl No</b>  | <b>Description of Documents</b>   | <b>Reference</b> | <b>Submitted (Yes/No)</b> |
| 1   | Bidder's Particulars  | Form- I          |                           |
| 2   | Form of Quotation   |                  |                           |
| 3   | Client Reference Form   | Form - II        |                           |
| 4   | Quotation document duly filled in except price schedule signed and stamped on all the pages |                  |                           |
| 5   | Copy of Work order/ Project completion certificate with details of the work done            | MQC (I)          |                           |
| 6   | Undertaking on ability to work & support remotely for the developed Web GIS Application     | MQC (II)         |                           |
| 7   | 1. Copy of GST Regn. certificate.   |                  |                           |
|   | 2. Copy of TIN  |                  |                           |
|   | 3. Copy of PAN  |                  |                           |
| 8   | Implementation Schedule   | Form III         |                           |