



COCHIN PORT TRUST

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**E-QUOTATION DOCUMENT FOR PROVIDING HANDRAIL, ALUMINIUM
DOOR, MS GATE, 2 NOS. CATWALKS & STAIR PAINTING AT OTB**

Website:www.tenderwizard.com/CPT

EXE. ENGINEER(CM-I)'S OFFICE

COCHIN PORT TRUST

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QUOTATION No.T1/Q-11/2020-C

1.GENERAL CONDITIONS

1. The work consists of “**Providing handrail, Aluminium door, MS gate, 2 Nos. catwalks & stair painting at OTB**” and includes the following:
 - i) Structural Steel work.
 - ii) Painting work with Iron primer & Epoxy paint.
 - iii) Providing and fixing glazing in Aluminium door.
 - iv) Supplying and fixing Mechanical Anchor Bolt,
 - v) Cement plastering work

2. The bidders need to obtain the one time User ID & password for log-in to e-tendering Portal 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/Net banking or DD in favour of “KSEDCL, Bangalore”.
3. The intending bidder must have valid Class-II or III digital signature certificate to submit the bid. For further details, please contact e-Tender Help Desk No. 080-40482000/ 080-49352000/ 9746118529/ 9605557738.
4. The quotationer shall have experience in taking up installation of DRDO Technology Bio- Digesters. Scanned copy of relevant certificate shall be submitted along with the quotation.
5. e-Quotations are invited only from the Registered contractors of Cochin Port.
6. The Quotation document will be available as two separate files in the e-quotation Portal; containing the following:
 - i. Quotation Notice & General Conditions.
 - ii. Schedule of Quantities of Work.
7. Both 5(i) & filled in 5(ii) above shall be submitted “Online” only. The name and address of the quotationer shall be necessarily entered in the space provided in the Schedule of Quantities of Work.
8. The Quotationer shall inspect the site before submitting the quotation in order to make them fully aware of the site and its conditions.
9. Clarifications if any required can be obtained by contacting the Asst. Exe. Engineer/ Asst. Engineer of concerned Civil section.
10. The work shall be completed within 60 Days from the date of receipt of work order.
11. The Engineer-in-Charge of the work (Engineer’s Nominee/ Nominee) shall be Exe. Engineer (CM-I).
12. Payments will be made online after completing the work to the entire satisfaction of the Engineer-in-Charge and also after deducting the taxes prevailing in force at the time of payment of bills.
13. Water & Electricity

Water: Water, if required for the work, shall be arranged by the Quotationer at his own cost.

Electricity: The Quotationer shall make his own arrangements for the temporary connection for electricity required, if any, and make necessary payment for it

direct to the Department concerned. No payment will be made by the Employer on this account.

14. The rate/percentage quoted shall be excluding Goods & Service Tax (GST).
15. The Quotationer 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 Quotationer by the Board along with the bills, for which the Quotationer shall hold valid GST Registration number.
16. All materials, tools, plants and equipments required for completing the work shall be provided by the Quotationer at his own cost. All materials required for the work shall be got approved by the Engineer-in-Charge before using in the work. Any fittings or accessories which may not be specifically mentioned in the specification but are usual or necessary as per good industry practice, shall be provided by the Quotationer without extra cost to the Port. All works shall be carried out as per relevant ISS.
17. All labour, skilled or unskilled for the work shall be provided by the Quotationer at his own cost and settling any disputes with the labour shall be, Quotationer's responsibility.
18. All care and precautionary measures for avoiding any kind of damage/ accidents in the work site shall be taken by the Quotationer. All safety precautions shall be taken while carrying out the work. The Quotationer shall supply the necessary safety equipments to the workers employed by him and also ensure that they use it, while carrying out the work. The Quotationer shall be solely liable and responsible for accidents if any, occurring during the period of Contract.
19. The work shall be completed without causing any damage to the existing structures/cables etc. In case any damage is caused, the same has to be rectified at Quotationer's risk and cost.
20. The Port will in no way be responsible for any loss/damages caused in connection with the work.
21. The quantities specified in the schedule of quantities of work are only approximate and shall be increased or decreased at the discretion of the Engineer-in-Charge according to actual requirements. Payment will be made as per actual measurements, according to the percentage quoted.
22. Quotations shall be valid for a period of 60 days from the due date of submission of quotation.
23. Completion Period: The whole work shall be completed within 60 days from the date of receipt of work order. In case the Quotationer is not permitted to carry out the work due to some problem from Employer's side, he should maintain a record of such time lost, duly counter signed by the Engineer-in-Charge and this period will not be included while determining the delay in completion period. In case the works are not completed within the specified completion periods due to any fault of the Quotationer, it will be considered as a breach of contract and the Quotationer will not be considered for any other work in future.

24. 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 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 Quotationer.
25. Defects Liability Period: The defects liability period for the work shall be 12 months from the date of completion of the work. In the event of any defect/ deficiency being noticed during the period, which is attributable to the defective materials/design/ workmanship, the Quotationer shall make good the same at his cost.
26. Security Deposit: Security deposit @ 5% of Contract Price shall be recovered from the Quotationer's bill. The amount towards Security Deposit so deducted will be released only after successful completion of the defect liability period, subject to certification from the Engineer-in-Charge.
27. Execution of Agreement: The successful Quotationer will be required to execute within 14 days from the date of receipt of work order, an agreement at his expense on proper value Kerala State Stamp Paper in the prescribed departmental form, consisting of the work order issued to the Quotationer, together with the Quotation submitted by him including General Conditions, for the due and proper fulfilment of the contract.
28. Till signing of agreement, the Quotation together with the acceptance letter shall constitute a binding contract between the Quotationer and Cochin Port.
29. The Contractor shall comply with all the provisions of the Indian Workmen's Compensations Act, Public Liability Policy, Provident Fund Regulations, Employees Provident Fund and ESI Act etc. amended from time to time and rules framed there under and other laws affecting the Contract labour that may be brought in to force from time to time.
30. The Contractor shall be registered under EPF and ESI act and the employees employed under them shall be covered in the EPF and ESI Scheme, if required as per applicable rules. The Contractors shall regularly remit, the Employer & Employee contribution to the authorities in such cases. If not, the Dept. would be required to remit the same and the amount so remitted shall be deducted from the part/ final bill of Contractors.

SIGNATURE OF QUOTATIONER

2.SPECIFICATIONS FOR MATERIALS

1. GENERAL

- 1.1 Except where otherwise specified or authorized by the Engineer-in-Charge, materials supplied by the contractor shall conform to the latest edition of the Indian Standard Specifications and code of practices published by the Indian Standard Institution. Samples of materials to be supplied by the contractor shall be shown to the Engineer-in-Charge sufficiently in advance for approval of its quality for use on the work.
- 1.2 All materials supplied shall be stored appropriately to prevent deterioration/ damage from any cause what so ever and to the entire satisfaction of the Engineer-in Charge.
- 1.3 The materials required for the work shall be brought to the site and stacked at the places shown by the Engineer-in-Charge and the same shall be got approved for use in work sufficiently advance so that the progress of the work is not affected by the supply of materials.
- 1.4 Payment for the materials supplied, shall be given only after they are used on the work.
- 1.5 Tolls are payable by the contractor as per rules for vehicles using the Port's road for supplying the materials.

2. STRUCTURAL STEEL

- 2.1 The mild steel tubes/ plates used for the work shall conform to I.S. 2062. The material shall be free from visible as well as hidden defects such as pitting cracks, laminations, twists etc. and excessive rusting.
- 2.2 It is not necessary for the Contractor to obtain separate approval in case mild steel tube is purchased from Steel Authority of India Ltd. For purchase from other sources, the contractor shall apply sufficiently in advance and obtain written permission of the Engineer-in-Charge for making purchase from such sources.
- 2.3 Mild Steel Rectangular Hollow Sections used shall be of Yst 240 grade conforming to IS 4923. Tubes shall be designated by their outer dimension and weight per metre. It shall be free from visible as well as manufacturing defects such as pitting, cracks, laminations, twists etc. and excessive rusting.

3 RED OXIDE ZINC CHROMATE PRIMER

- 3.1 Red Oxide/ Zinc chromate Primer shall be conforming to IS 2074.

4 CEMENT

- 4.1 Quality of cement used for the work shall be 43 grade ordinary Portland cement conforming to I.S. 8112 or 53 grade ordinary Portland cement conforming to I.S. 12269 or Pozzolona cement conforming to I.S. 1489 unless otherwise approved by the Engineer-in-Charge.
- 4.2 The cement required for the work will have to be procured by the contractor and shall comply with the relevant IS. As far as possible, the cement required for the work will have to be procured from the government agencies. The cement shall, if required by the Chief Engineer / Engineer-in-Charge, be tested and analyzed by an independent analyst at the Contractor's cost and result produced to the Engineer-in-Charge.
- 4.3 Supply of cement shall be taken in 50kg bags bearing manufacture's name and ISI marking. Samples of cement arranged by the Contractor shall be taken by the

Engineer-in-Charge and got tested in accordance with provisions of relevant B.I.S codes. In case, test results indicate that the cement arranged by the Contractor does not conform to the relevant B.I.S codes, the same shall stand rejected and shall be removed from the site by the Contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.

- 4.4 A cement godown of adequate capacity as directed by the Engineer-in-Charge shall be constructed by the Contractors at the site of the work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement godown. The key of one lock shall remain with the Engineer-in-Charge or his authorized representative and the key of the other lock shall remain with the Contractor. The Contractor shall be responsible for the watch and ward and safety of the cement godown. The Contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge.
- 4.5 The cement brought to the site and cement remaining unused after completion of work shall not be removed from the site without written permission from /of the Engineer-in-Charge.
- 4.6 The cement shall be stored in a weather proof building with facilities for inspection.
- 4.7 The Contractor shall maintain a cement register showing dates of receipt and issue, quantities used daily and balance which shall be accessible to the Engineer-in-Charge.

5 WATER

- 5.1 Clean fresh water free from oils, acids, alkalies, salt, sugar, organic materials or other harmful materials shall be used for washing aggregates, mixing and curing of concrete. The water used shall comply with clause 5.4 of I.S. 456-2000. Potable water is generally considered good for mixing concrete.
- 5.2 Cochin Port Trust will not provide/supply water for the work. Water has to be arranged by the Contractor himself for the cleaning, painting and construction works including curing work at his own risk and cost.
- 5.3 Samples of water arranged by the Contractor shall be taken by the Engineer in Charge and got tested in accordance with the provisions of relevant BIS codes. In case test results indicate that the water arranged by the Contractor does not conform to the relevant BIS codes, the same shall not be used for any works. The cost of tests shall be borne by the Contractor.

6 SAND FOR MAKING MORTAR FOR MASONRY WORK/ PLASTERING WORK

- 6.1 Sand used for masonry mortar shall conform to IS: 2116. Sand used for plastering shall conform to IS: 1542.

7 MATERIALS NOT SPECIFIED

- 7.1 All materials not herein detailed and fully specified but which may be required for use on works, shall be subjected to the approval of the Engineer-in-Charge without which they shall not be used anywhere in the permanent works

8 SAMPLING AND TESTING OF MATERIALS

- 8.1 Sampling and testing of the material supplied by the contractor for use on the Work shall be done as per the provisions of the relevant BIS codes/specifications. In the absence of BIS specification in a particular case, the sampling and testing

shall be done as directed by the Engineer-in-Charge as per sound engineering practice. Material conforming to the specifications and approved by the Engineer-in-Charge shall only be used by the Contractor.

- 8.2 All the sampling and testing shall be done at the Contractor's cost.

SIGNATURE OF QUOTATIONER

3.DETAILED SPECIFICATIONS FOR ITEMS OF WORKS

GENERAL

- 1.1 Except where otherwise specified or authorized by the Engineer-in-Charge, materials supplied by the contractor shall conform to the latest edition of the Indian Standard Specifications and code of practices published by the Indian Standard Institution. Samples of materials to be supplied by the contractor shall be shown to the Engineer-in-Charge sufficiently in advance for approval of its quality for use on the work.
- 1.2 All materials supplied shall be stored appropriately to prevent deterioration/damage from any cause whatsoever and to the entire satisfaction of the Engineer-in-Charge.
- 1.3 The materials required for the work shall be brought to the site and stacked at the places shown by the Engineer-in-Charge and the same shall be got approved for use in work sufficiently in advance so that the progress of the work is not affected by the supply of materials.
- 1.4 Payment for the materials supplied, shall be given only after they are used on the work.
- 1.5 Tolls are payable by the contractor as per rules for vehicles using the Port's road for supplying the materials.

2. STEEL FABRICATION WORK

- 2.1 The steel sections as specified shall be cut square accurately to correct lengths. The cut edges should be dressed to a neat and workmanship finish and be free from distortion where parts are to be in contact metal to metal. All materials shall be straight and if necessary, before being worked shall be straightened and/ or flattened and shall be free from twists.
- 2.2 The component parts shall be assembled and aligned in such a manner that they are neither twisted nor otherwise damaged and shall be so prepared that the specified camber, if any, is provided. Proper clamps, clips, jigs and other fasteners (bolts & welds) shall be placed in a balance pattern to avoid any distortion in the members and to ensure their correct positioning.
- 2.3 Welded connections shall be provided for joints except for the joints specially provided for erection purposes. For joints provided for erection purposes bolted connections shall be used.
- 2.4 All bolts shall be provided with washers of sufficient thickness. The threaded portion of each bolt shall project through the nuts at least one thread.
- 2.5 Welding shall be done in accordance with the specifications laid down in IS 816 and as per detailed working drawing. Welding edges and the adjacent areas of the members (extending up to 20mm) shall be thoroughly cleaned of all oil, grease, scale and rust and made completely dry. Gaps between the members to be welded shall be kept free from all foreign matters. The welding procedure adopted and consumables used shall be got specifically approved by the Engineer-in-charge. Excessive convexity, shrinkage, cracks, under cutting, improperly fitted / misaligned parts, members distorted by the heat of welding etc. due to faulty welds shall be corrected- whole or portion- as directed by the Engineer-in-charge.

- 2.6 The steel sections as specified shall be straightened and cut square to correct lengths. The steel work shall be hoisted and placed in position carefully without any damage to itself and other building work and injury to workmen.
- 2.7 The suitability and capacity of all plants and equipments used for the work shall be to the complete satisfaction of the Engineer-in-charge.
- 2.8 Proper safety arrangements shall be provided for working and inspection at no extra cost wherever required.
- 2.9 If the fabrication is done outside the worksite premises the structurals and fabrication should be subject to the inspection by the departmental officials. Suitable transport facilities shall be provided for the inspection staff.
- 2.10 The electrodes required for the welding work shall be got approved before use. The electrodes should be stored properly without exposing them to atmospheric action. Proper protection should be given for site fabrication. The welding must be carried out under a covered roof.
- 2.11 The contractor should possess plant and equipments, derricks. Lifting tackles, wire ropes, chain pulleys, jacks, welding sets etc. that may be required for fabrication and erection. The equipment being used shall be kept in good condition throughout.
- 2.12 Fabrication and erection of steel work shall be in accordance with the provision of IS 800.
- 2.13 All damages to steel works caused during the transit or otherwise at the time of fabrication or erection and after erection shall be made good at no extra cost.
- 2.14 All steel work shall be provided with one coat of iron primer Zinc Chromate. Before applying primer, all rust & scale shall be removed by scrapping or brushing with steel wire brushes. All dust & dirt shall be thoroughly wiped away from the surface. If the surface is wet, it shall be dried before priming coat is applied.
- 2.15 After completion of the required fabrication of gate/posts/ trusses/ purlins, the surface shall be well cleaned with wire brush and sandpapering as directed by the Engineer-in-charge and one coat of Zinc Chromate primer shall be applied. Before application of the primer coat all the welded joints shall be got inspected and approved by the Engineer in charge. Immediately after applying the primer, two coats of synthetic enamel/Aluminium paint as required shall be applied to all the steel works. All painting work shall be done after the erection of gate/ truss in position. Any damage to the painted surface during the course of erection shall be rectified as directed by the Engineer In charge after fixing the members in position. The fasteners like bolts, nuts etc. used during erection shall also be painted with a coat of primer and two coats of Synthetic enamel/Aluminium paint.
- 2.16 Sequence of erection of posts/ trusses/ purlins shall be so arranged that the structural stability is fully ensured.
- 2.17 Prior to the positioning of the post all laitance and loose materials shall be removed by wire brushing and chipping and bearing surfaces cleaned and made

thoroughly wet and cement grout shall be applied or as directed by the Engineer in charge.

- 2.18 The rates given shall be for the finished items of work including fabricating, erecting and alignment with appropriate materials, all connections, welding, rectification wherever necessary, transporting and handling charges, all accessories equipments, scaffolding, all lifts etc. including cost of labour, materials other than those supplied by the department free of cost .
- 2.19 The finished post work including erection shall be measured in Kilogram inclusive of the weight of posts, M.S plate stiffeners, M.S base plates, foundation bolts, nuts, washers but no allowance shall be made for the welded material. The measurement for plates used on the work shall be made for the actual quantity used in work. The rate quoted per Kilogram shall be inclusive of cost of all materials & labour applying iron primer, erection in position, scaffolding, all transportation, lifts etc.
- 2.20 The finished truss work/ frame work including erection shall be measured in Kilogram inclusive of the weight of cleats, brackets, bolts, nuts, washers, distance pieces, separators, gusset plates etc. but no allowance shall be made for the welded material. The measurement for plates used on the work shall be made for the actual quantity used in work. The rate quoted per Kilogram shall be inclusive of cost of all materials, labour applying iron primer, erection in position, scaffolding, all lifts etc.

3. APPLYING PRIMING COAT

All surfaces which are to be painted shall be dry and thoroughly cleaned to remove all loose scale and loose rust. Surfaces not in contact but inaccessible after shop assembly, shall receive the full specified priming coat before assembly. This does not apply to the interior of sealed hollow sections. Part to be encased in concrete shall not be painted. Approved steel primer such as Red Oxide/ Zinc Chromate primer shall be conforming to IS 2074.

4. FINISHING WITH EPOXY PAINT

Epoxy paints shall be applied as per the manufacturers specification.

5. CEMENT PLASTERING

- 5.1 Cement plastering shall be with the grade of mortar and of thickness specified in the schedule. The surface to be plastered shall be thoroughly cleaned and kept wet for 4 hours before plastering.
- 5.2 All the corners shall be rounded off to a radius of 25 mm unless otherwise specified.
- 5.3 Where smooth finishing is specified in the schedule the plastering shall be floated over with neat cement slurry using 2.2 kg of cement per square metre immediately after the final coat of plastering and rate quoted for plastering shall include cost of this finishing work.

- 5.4 The plastered surface on which glazed tiles or other similar type of finishing are to be provided subsequently shall not be finished smooth but shall be scarified for forming a base for providing the final surface finish as required.
- 5.5 The surface shall be cured for 7 days.
- 5.6 The rate shall include all labour and materials including scaffolding, curing etc. complete required for completion of work. Measurement of the work under this head shall be made on the basis of the area of work done.

SIGNATURE OF QUOTATIONER