



KERALA SHIPPING AND INLAND NAVIGATION
CORPORATION LTD

(A Government of Kerala Undertaking)

38/924 A, Udaya Nagar Road, Gandhi Nagar, Kochi -682020.

Tel: 0484 2203614/2206232, Fax 2206848 www.ksinc.in

VARIOUS CIVIL AND ELECTRICAL WORKS

AT CUSTOMS JETTY, WILLINGDON ISLAND

Tender No	CE-413/Customs jetty/2018
Cost of Tender documents	Rs. 2,500/- + 12% GST
Last date of tender submission	29.10.2018, 03.00 PM
EMD	Rs. 50,000 /-
Date of tender opening	29.10.2018, 03.30 PM

Notes:-

Interested contractors / construction firms may register themselves with us by sending an email to ceksinc@gmail.com. This will help us to communicate any changes/ extensions / amendments in the tender.

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No. CE-413/Customs jetty/2018

Dated 13.10.2018

TENDER FOR VARIOUS CIVIL AND ELECTRICAL WORKS
AT CUSTOMS JETTY, WILLINGDON ISLAND, COCHIN

Sealed tenders are invited in two bid system, from reputed and experienced contractors / construction firms for the work "Various Civil and Electrical Works At Customs Jetty, Willingdon Island, Cochin. Tender document can be downloaded from the website of the Company, www.ksinc.in. The bidders have to pay the cost of tender documents, Rs. 2,500/- +12% GST by DD in favor of K.S.I.N.C Ltd., payable at Ernakulam, along with the tender. Last date of submission of Bids is 03.00 P.M on 29.10.2018.

Sd/-
Managing Director

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SUMMARY

- | | |
|--|---|
| 1. Name of work | Various Civil And Electrical Works at Customs Jetty, Willingdon Island, Kochi. |
| 2. Defects Liability Period | 6 (Six) Months from the date of work completion. |
| 3. Date of Commencement | 5 th NOVEMBER 2018. |
| 4. Time / Duration of work | 30 days from the date of issue of work order. |
| 5. Liquidated damage | 0.5 % of the estimated amount per week subject the Maximum of 10% of accepted contract value. |
| 6. Earnest Money Deposit | Rs. 50,000 /- as demand draft payable to <i>K.S.I.N.C Ltd.</i> Payable at Ernakulum. |
| 7. Security Deposit | 10% of gross value of contract value |
| 8. Mobilization Advance | Nil |
| 9. Value of Works for Interim Payment | 50% of the contract value |
| 10. Insurance Policy | Fully covered by the Contractor |
| 11. Cost of Tender Documents | Rs.2,500/- + 12 %GST |
| 12. The Tender shall be valid for 6 months from the date of opening | |

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GENERAL CONDITIONS OF TENDER

- 1) The tender document for the “Various Civil and Electrical works at Customs Jetty” is available in the website of the Company. www.ksinc.in. Bidders are requested to download this tender document from the company website. Those who are submitting downloaded documents; are required to furnish the cost of the tender document as a separate DD for Rs. 2,500.00 + GST @ 12%.
- 2) Before the deadline for submission of Bids, the K.S.I.N.C may modify any of the specifications or the bidding documents by using addenda. Such modifications will be posted in the website of K.S.I.N.C. Bidders shall prepare their quotation / offer based on the modifications / addenda.
- 3) The bids shall be submitted under two bid system, Part I, the “Technical bid” containing all details about the bidder, work completion certificates of similar civil/marine works, details of machineries/equipments etc. and Part II - “Price Bid” in the same format as given in the Price Schedule attached here to.
- 4) The **Part I -Technical bid** shall contain:
 - a) Personal and contact details of the bidder.
 - b) Details of the list of machineries and other facilities.
 - c) Details proving the eligibility criteria of the contractor.
 - d) Satisfaction reports from previous customers.
 - e) Certificate from the main banker of the party certifying that the party is of sound financial position to execute projects of Rs. 30 lakhs.
 - f) Registration details like valid A or B or C Class contract license from PWD /CPWD/MES / Irrigation Department /previous experience in similar works including GST, PAN No, ESI and PF registration etc
- 5) The **Part II - Price bid** shall be in the same format as given in the price schedule annexed hereto. Any additions, omissions or conditions there to be not acceptable. Any deviation from the given format will make the price bid invalid.
- 6) Both the bids shall be placed in separate sealed covers indicating/ super scribing the name of the work and “Technical bid / Price bid” as the case may be. Both covers thus sealed shall be placed in a third sealed cover, super scribing name of the work.

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- 7) The bidder shall sign all pages of the tender document and the Annexures and attachments in acceptance of the Conditions of tender.
- 8) The rates shall be inclusive of all taxes, levies, cess, octroi or any other local, state or central taxes as applicable/ charged by local, state or Central Government. All. The company shall not allow any other payment or enhancement in rates for any reason.
- 9) Duly filled and signed tender documents shall be submitted before 29.10.2018, 03.00 P.M at the following address super scribing the name of the work:

**The Managing Director,
Kerala Shipping and Inland Navigation Corporation Ltd
38/924-A, Udaya Nagar Road,
Gandhi Nagar,
Kochi - 682 020**
- 10) Tender(s) received late on account of any reason, whatsoever may be the case and telegraphic tender(s) shall not be entertained.
- 11) **Validity:** The Offers shall remain valid for a period of **six months** from the date of opening of the Financial /Price bid.
- 12) **Signatory to the Offer:** The Tender should be signed only by a duly authorized representative of the contractor / contracting firms, whose name and designation shall appear in Capital letters below the signature.
- 13) Received tenders will be opened on 29.10.2018 at 03.30 P.M. The Technical bids also will be opened on the same time. The financial bids of the qualified bidders will be opened later. The date and time of the opening will be intimated to the qualified bidders separately.
- 14) E.M.D for this tender is Rs. 50,000/-, which is to be submitted along with the tender in form of Demand draft drawn in favour of "K.S.I.N.C Ltd" payable at Ernakulam. EMD carries no interest.
- 15) The (pre)qualification criteria in the technical stage will be as follows. Bids by parties not matching these criteria will be summarily rejected.
 - a) For considering the work, the bidder should have completed similar civil works for value not less than 30 lakhs during the last five years.
 - b) The Company is not bound to accept the lowest bid and may reject it without assigning any reasons. K.S.I.N.C also reserves the right to reject any/all the tenders without assigning any reason thereof. K.S.I.N.C also reserves the right to select the eligible bidder on the basis of the satisfactory of the managing authority of KSINC. Priority will be given to those having similar work experience.
- 16) The successful bidder, within seven days of receipt of the work order have to furnish a **security deposit cum performance guarantee equal to 10% of the value of the contract**

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in the form of an unconditional and irrevocable bank guarantee / DD for a period not less than 6 months

- 17) The successful bidder also may require to execute agreement with the company in stamp paper worth Rs.200/- within 15 days receipt of the work order.
- 18) The work to be completed within the period agreed to by the Company and indicated in the work order. **Details of the work schedule and the expected date of completion shall be submitted to the company along with the Technical Bid.**
- 19) The contractor shall use only quality materials for the work, List of approved items and after approval from both the consultant and KSINC.
- 20) If the works are not completed within the stipulated time, fine will be imposed at the rate of 0.5% of the contract value for each week of delay for the first three months and thereafter at the rate of 1% of contract value per week subject to a maximum of 10% of contract value.
- 21) KSINC shall not be responsible for any accident/theft or other damages occurred while the construction. The contractor must take adequate insurance to cover the risks. Contractor should also meet all the regulations and labour welfare measures such as ESI, PF etc. and necessary documents to be provided for verification.
- 22) The KSINC requires that Bidder/Suppliers/Contractors under this contract, observe the highest standard of ethics during the bidding process and execution of this contract. Any effort by the Bidder to influence the KSINC's bid evaluation, bid comparison or contract award decisions, may result in the rejection of this bid.
- 23) The jurisdiction for all disputes arising out of this tender, subsequent work order, agreement or any other matter related thereto shall be the Courts in Ernakulam, irrespective of the location of the bidders.
- 24) If any of the bidders have any doubt / queries to be clarified, it shall be sent to the following email: ceksinc@gmail.com or faxed to 0484-2206848. The decisions taken or clarifications issued will be posted in the website of the Company and will be applicable to all bidders.
- 25) The contractor shall execute the work continuously and good progress throughout the contract period. **The Contract is liable to be terminated**, if proportionate progress of the work is not achieved during the Contract period.
- 26) No idle time charges will be paid to contractor any account.
- 27) Payment shall be made based on the measurement of completed works by Engineer- in-Charge and part payment shall be given only as per the below given conditions:

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- a) The contractor shall be eligible for first stage payment only after the completion of 50% of the total works; either by quantity achieved or by the completed work value.
 - b) The contractor shall be eligible for final payments, only after fully and satisfactorily completing the entire work.
- 28) Payment shall be made only after obtaining a good and satisfactory certificate from the unit head/Engineer in Charge.



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TECHNICAL SPECIFICATION

I. All materials used in the works shall be of the best quality of their respective kinds and as specified herein, obtained from sources and suppliers approved by the Engineer in Charge (EIC) or his authorized representative and shall conform to the latest edition of Indian Standards issued by the Bureau of Indian Standards.

II. All materials used in the works shall be subjected to inspection and tests. **Samples of all materials proposed to be employed in the permanent works shall be submitted to the EIC for approval before they are brought to the site.** Samples required for approval and testing must be supplied in sufficient time to allow for testing and approval, due allowance being made for the fact that if the first samples are rejected, further samples may be required. Delay to the works arising from the late submission of samples will not be acceptable as a reason for delay in the completion of the works. Materials shall be tested before leaving the manufacturer's premises, quarry or source, where possible. Materials shall also be tested on the site and they may be rejected if found not suitable or not in accordance with the specifications. The contractor shall provide all assistance, instruments, machinery, labour and materials as are normally required for examining, measuring and testing any work.

III. No material shall be used in the works unless they have first been approved by the EIC.

IV. Before ordering any materials of any description for the works, the Contractor shall submit for the approval of the EIC, the names of the makers and suppliers proposed and any other detail required by the EIC.

V. All materials used in the works shall be stored on racks, supports, in bins, under cover, etc. as appropriate to prevent deterioration or damage from any cause whatsoever; without affecting day to day activities of the yard and to the entire satisfaction of the EIC or his representatives.

VI. **Materials** for the temporary works shall not be used for permanent works unless otherwise approved in writing by the EIC. Granting of such permission shall not prejudice the right of the EIC to reject materials so used, which have become unfit for use in the permanent works.

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VII. Sampling of materials for approval and testing as called for under the appropriate Indian Standard or other relevant standard specification, and sampling and testing referred to in this specification, is to be done without charge and unless otherwise specified, the cost of all such tests and sampling shall be deemed to be included in the rates and prices quoted in the Bill of Quantities.

VIII. A high standard of workmanship in all trades will be required. The Contractor shall ensure that only skilled and experienced tradesmen are employed.

IX. The Contractor shall be responsible for supply, use and maintenance of all construction plant and equipment and he shall ensure that it is suitable for the work and is maintained in such a manner as to ensure its efficient working. The EIC may direct that plant, which is not efficient and is prejudicial to the quality of the work, be removed from the site and replaced by plant to his/her satisfaction. The plant and machinery deployed for the work shall not be removed from the site till completion of work in all aspects and equipment shall not be taken out from site without approval of the Engineer-in-charge or his representative.

X. The Contractor's supervisory staff shall be men fully experienced in the types of work being carried out under their supervision and capable of ensuring that it is done well and efficiently.

XI. Where required, the Contractor shall furnish details of his temporary works as may be called for by the EIC and the Contractor shall satisfy the EIC as to their safety and efficiency. The EIC may direct that temporary works which he considers unsafe or inefficient shall be removed and replaced in satisfactory manner.

XII. All materials not herein fully specified and which may be offered for use in the works shall be subject to the approval of the EIC without which they shall not be used anywhere in the Permanent Works.

XIII. On completion of each work, the space to be cleaned and no waste material to be dumped in yard space.

XIV. The contractor shall ensure that all workers engaged at site use safety items like safety shoe, safety helmets, coveralls etc. (no dothis allowed inside yard).

XV. ID proof/PF/ESI details of all workers to be submitted well in advance for allowing entry inside yard and separate register to be maintained for the same.

XVI. Aggregates

a) Aggregates shall comply with the requirements of IS: 383 'Coarse and Fine Aggregates from Natural Sources for Concrete' (20mm broken stone to be used).

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b) The aggregate shall be hard, strong, durable, clean and free from any adherent coatings or other deleterious matter and shall be obtained from an approved source. Aggregates which are chemically reactive with alkalis of cement shall not be used. Aggregates which are not clean shall be washed in clean fresh water to the satisfaction of the EIC.

c) Aggregates shall be stored at the site on clean, well-paved and drained areas which are not liable to flooding. The various sizes and types of aggregates shall be well separated and the layout and sitting of the storage areas shall be submitted to the EIC for approval prior to the starting of construction.

d) Any aggregate brought to the site which is not approved by the EIC shall be immediately removed from the site.

e) Storage of all materials/ aggregates to be done without affecting day to day activities of yard/pathway.

XVII. Cement

a) *Generally*, ordinary Portland Cement complying with the requirements of IS: 269 shall be used in all works.

b) The contractor shall be responsible for keeping the cement in sound and acceptable condition till it is used in the works. Any cement which deteriorates while in the stock and is rejected as unsuitable by the EIC shall be removed from the Site and replaced by the Contractor at his own expense.

c) In order to ensure due progress, the Contractor shall at all times maintain on his site at least such a stock of cement as the EIC may from time to time consider necessary. No cement shall be used upon the works until it has been accepted as satisfactory by the EIC.

d) Cement in bags shall be unloaded under cover and stored in a perfectly watertight and well ventilated building having a floor raised not less than 30 cm. from the ground. An air space shall be left between the floor and the bottom layer of the bags. Each consignment shall be stacked separately therein to permit easy access for inspection and a record shall be kept so that each consignment may be identified by a serial number and date of delivery. Cement shall be issued from the store in the order in which it is received on site, commencing with the consignment which has been in the store for the longest period of time, also without affecting the activities of yard/pathway.

e) Procurement is included in Contractor's scope of work.

f) The EIC may reject any cement which found not acceptable due to any cause such as bad storage, inadequate protection, caking etc. such rejected cement should be removed by the Contractor forth with at his cost and ensure that these never mixed-up.

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XVIII. Water

a) The contractor shall make his own arrangements for supply of water at no extra cost to the employer. Water used for cement concrete, mortar plaster, grout, curing, cooling or, washing of aggregates shall be potable water. The deleterious materials and its quantity should be within the permissible limits as per IS: 456 when tested as per IS: 3025. In case of doubt the EIC may required the contractor to get the water tested from an approved laboratory at contractor's expense.

XIX. Concrete

a) Concrete used for all piles, footings, beams, slabs, anchor slabs, capping beams should have a Cube strength corresponding to the grade of concrete after 28 days of curing. The no. of samples to be taken for testing is as per the following chart (each sample should contain 6 number of cubes).

Quantity of Concrete in work, m ³	No. of Sample
1 - 5	1
6 - 15	2
16 - 30	3
31 - 50	4
51 and above	4 plus one additional sample for each additional 50 m ³ of part thereafter.

b) The concrete tested as per specified procedure herein shall be deemed to comply with the strength requirement if the criteria specified in Clause 15.1 of IS: 456 is met with. The concrete shall be deemed not to comply with the strength requirements if the concrete has strength less than that required by Clause 15.2 of IS: 456 and consequential action i.e. testing of structures shall be undertaken as directed by the EIC.

c) The arrangements for depositing concrete shall be subject to the approval of the EIC. In no case shall concrete be dropped or thrown from a height of more than 1.0 m. Concreting of piles, beams, slabs, and similar members shall be carried out in one continuous operation to the full depth of the member and the sequence of placing shall be arranged as to avoid disturbance of partially set concrete. The concrete shall be deposited as close to its final position as practicable in order to prevent segregation, tremie pipe to be used in pile concreting. Freshly laid concrete shall not be wheeled over or otherwise disturbed. When depositing concrete adjacent to a construction joint, special care shall be taken not to disturb the dowels or other reinforcing bars projecting from the existing concrete. In foundations, walls, and columns where the full height is not being poured in one continuous operation the surface of each lift shall be finished horizontal and any laitance removed between the period of initial and final set. For wall concrete shall be placed in horizontal layers approximately 150 to 200 mm in thickness. Not more than half an hour should elapse between the placing of successive layers of concrete in any portion of the slip form. This is

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to ensure that each pour is thoroughly, worked into and made homogeneous with the preceding pour.

d) The Contractor shall agitate the placed concrete thoroughly into place by means of a sufficient number of mechanical vibrators complying with IS: 2505, IS: 2506 and IS: 4656. The vibrator shall be allowed to sink freely of its own weight until it enters the previous lift. It shall be withdrawn immediately at the same rate and used at a new location. Concrete once vibrated shall not be vibrated again.

e) Curing of concrete shall be in accordance with IS:456. Concrete shall be cured by keeping it moist for the period of time specified herein to ensure that complete hydration and hardening takes place. All concrete shall be cured by use of water which shall be continuously (not periodically) maintained on all exposed surfaces. Curing shall be assured by use of an ample water supply under pressure in pipes, with all necessary appliances of hose, sprinklers and spraying devices. Continuous fine- mist spraying or sprinkling shall be used, unless otherwise specified or approved by the EIC. Wherever, in the judgment of the EIC it may be necessary, the continuous spray method may be omitted and a covering of sand or other approved material such as burlap which will hold moisture for long periods and prevent loss of moisture from the concrete shall be used. Type of covering which would stain, disfigure, or damage the concrete during and after the curing period will not be approved. Approved covering shall be kept continuously wet during the specified curing period. Concrete shall be maintained in moist condition for at least the first 7 days after placing. Other curing period may be used with the permission of the EIC, if the specified strengths are obtained. The Contractor shall have all equipment and materials required for curing on hand and ready to use before concrete is placed. For curing of concrete in pavements, side walls, floors, flat roofs or other level surfaces the ponding method of curing is preferred. The method of containing the ponded water shall be approved by the EIC. Special attention shall be given to edges and corners of the slabs to ensure complete and proper protection to these areas. The ponded area shall be kept continuously filled with water and leaks shall be promptly repaired. Curing of concrete shall start after 8 hours of placement and in hot weather within 4 hours of placement for exposed faces. During the first 24 hours, the concrete shall be cured by use of wet burlap or such other means to cover the concrete surfaces. In very hot weather precaution shall be taken to see that the temperature of wet concrete does not exceed 38°C while placing.

f) Newly placed concrete shall be protected by approved means from rain, sun and wind. Concrete placed below the ground level shall be protected from falling earth during and after placing, surface shall be kept free from contact with such ground or with water draining from such ground during placing of concrete and for a period of at least 3 days unless otherwise directed by the EIC. The ground water around newly poured concrete shall be kept to an approved level by pumping or other approved means of drainage and adequate steps shall be taken to prevent flotation and flooding. Steps shall be taken to protect immature concrete from damage by debris, loading, vibration, abrasion, mixing with deleterious materials that may in the opinion of the EIC impair the strength and/or

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durability of the concrete. Approved curing compounds may be used in lieu of moist curing with the permission of EIC. Such compounds shall be applied to all exposed surfaces of the concrete as soon as possible after the concrete has set.

XX. Shuttering

- a) All shuttering and supports included under the contract shall be designed by the Contractor and relevant drawings together with calculations for strength and deflection shall be submitted to the EIC for approval before commencement of the work.
- b) Material for shuttering shall be of timber, plywood, steel or any other material as agreed or directed by the EIC. Timber used for shuttering shall be easily workable with nails without splitting and of lightweight. It shall be stiff and strong enough to avoid undue deflection when loaded, be stable and not liable to warp when exposed to sun and rain or wetted during concreting. It shall not be so soft as to get damaged easily on the contact faces under normal condition or erecting forms, fixing steel and pouring concrete. All forms shall be fixed in perfect alignment and adequately be roped by ballies, steel posts and fixed in their correct position and shall be sufficiently strong to withstand the dead or live loads and forces caused by ramming and vibrations of concrete and other incidental loads imposed upon it during and after casting of concrete. Particular care shall be taken to maintain alignment of plane and uniformity of profile with glove tight forms at the junctions between columns, beams, walls and slabs and between lifts or joints in the work. All open joints are to be covered with building paper of approved quality.
- c) Wedges and clamps shall be used wherever possible instead of nails. Wire ties to shuttering through concrete shall not be permitted. If internal ties are necessary then bolts or rods shall be used through metal sleeves so that such metal sleeves shall be left within 40 mm of finished concrete surface. On the removal of such bolts or rods, the holes left shall be thoroughly filled with a stiff paste comprising of one part of cement to one part of sand. No ties whatsoever shall pass through any concrete members designed to be part of a watertight structure.
- d) The Contractor shall be responsible for properly supporting all concrete until it is sufficiently strong for the removal of the formwork including the props. No formwork shall be removed without the prior consent of the EIC. All formwork shall be so constructed as to permit easing and removal without jarring the concrete. Particular care shall be taken to avoid damaging the concrete when removing formwork from concrete surfaces which are required to be left with an 'as struck' finish. When props are to be left in position under beam and slabs the formwork shall be constructed in such a way that the props are in no way disturbed when the remainder of the formwork is removed. No patchwork or repairing of concrete surface shall be done without the notice of the EIC. All surfaces of concrete after stripping of formwork shall be got approved by the EIC before they are touched. The EIC's decision shall be final regarding the acceptance of the quality of concrete surface. Before removal of props and formwork, it shall be

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ensured that the concrete has attained the minimum strength required to avoid any unacceptable deflection due to shrinkage creeps etc. and the minimum striking period should follow as per provision of IS:456.

- e) The following clauses shall be read in conjunction with the section pertaining to concrete. All RCC work shall comply with IS: 456.

XXI. Steel

- a) Steel shall comply with IS: 456-2000, IS: 2911 (relevant parts and sections)
- b) All reinforcements should be free from rusts, damages etc.
- c) Bent up of steel to be done by as per instruction of EIC.
- d) HYSD bars to be used. (Fe 500)
- e) Cover to be provided as per IS: 456-2000 code provisions.
- f) Steel should be properly stacked and covered with polythene sheet to avoid corrosion.

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Part-I Technical Bid

(To be filled and attached with part I- Technical bid. Details required as per tender conditions to be attached separately)

1	Name of the bidder	
2	Address for Communication	
3.	Contact person and phone numbers	
4	Constitution and registration numbers if any	
5	PF Registration no.	
6	ESI registration No	
7	PAN No.	
8	GST Registration no	
9	Details of turn over	Use separate sheet / Attach copies
10	Details of previous experiences	Use separate sheet / Attach copies of work completion certificates
11	List of key personnel	Use separate sheet
12	Other details if any	Use separate sheets
13	Details of infrastructure	Use separate sheets
14	Clause under which eligibility claimed	
15	Details of bankers	

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17.	Details of EMD furnished	
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Summary of financial data:

		2017-18	2016-17	2015-16
1.	Total turnover			
2	Turn over for the last 5 years			
3	Turnover of last year			
5	Total liabilities			
6	Net worth			
7	Net profit			
8	Unpaid / contested statutory liabilities (if any)			

DECLARATION

1. I/We hereby undertake that all the information furnished above are correct and true to the best of my knowledge.
2. I/we further undertake that the work of Various Civil and Electrical Works at Customs Jetty, Willingdon Island and shall be carried out as per the terms and conditions stated in the tender and at the rates specified in the price bid.

Place:.....

Signature:

Date:

Name:

Address:

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PART - 2 PRICE BID

The scope of work includes:

1. Boring, installation and casting of 2 numbers RCC piles having 12mm thick ms pipe casing, 30 meters length (with inbuilt bollard cross bar).
2. Protection handrails of 1.2 meters height and having access gate.
3. Lighting arrangements for providing street lights.

Sl No	Description of work	Unit	Approx Quantity	Rate	Amount
1	<p>Providing driven cast-in-situ pile of 500mm diameter, as specified in IS: 2911 (part1), driven/bored to true plumb up to a depth of 25metres into sea bed. Permanent casing of 12mm thick MS pipe, welded, jointed and lapped with same thick MS plate and 500mm width to the perimeter of pipe, 2 coat epoxy primer on outside etc. for length of 30meters. Casing is provided with end tapered/pointed for easy penetration and the same to be sealed / concreted. Flushing the casing bore with fresh bentonite slurry before concreting (if need), placing the reinforcement cage in position using appropriate equipments and concreting with M20 grade concrete by tremmie pipe method to the top of the bore hole and allowing for an overflow of minimum 0.25 m3 of concrete and wherever required, carting the muck/slurry away from site, including cost, conveyance, hire charges, labour charges for all equipments, materials, water, electricity etc including charges for the extra efforts for driving/boring through all strata to reach the required depth and for the removal of any obstacles met with during driving/boring etc. A 32/40mm dia MS rod of 1metre length to be placed 500mm below the top of casing in such a way that the rod passes through the casing and RCC.</p> <p>Reinforcement (Fe 500) Cage to be provided as given below:</p> <p>a) Main bars: 12mm dia, 8 nos</p>	nos	2		

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	<p>b) Rings : 10mm dia @ 1500mm c/c. c) Helical : 8mm dia @ 150mm c/c. d) Providing with 50mm cover.</p> <p>Complete as directed by Engineer in charge. Note: (The rate will include preparation of working platforms for accommodating the pile driving accessories, temporary casing pipes as may be required, bentonite storing places for stores working places and mobilization, transferring and reinstalling of pile driving accessories etc. from one location to another and forming approaches to the working platform).</p>				
2	<p>Providing and fixing hand rail of approved size by welding, bolting etc. to concrete/tar macadam base for the jetty area at Customs Jetty, WILLINGDON Island. The handrail should be made of ISA 50x50x6mm of 1200mm height posts at a spacing of 1500mm. The base of ISA is welded to 130x130x6mm base plates which are anchored to concrete/tar macadam using HST3-R / HAS-R (SS 316) stainless steel anchor bolts. 32mm Nominal bore light (2.6mm thick) GI Pipes to be provided as handrail at top and middle of ISA posts. The pipes to be welded to ISA and the ends wherever required to be capped. All the above to be applied with 2coat epoxy primer and 2 coat epoxy paint. Complete as directed by Engineer in Charge.</p>	meter	38		
3	<p>Supply and Labour charges for laying, testing and commissioning of Copper L.T. UG. Cables (AYWY / AYFY / A2XFY) through excavated trenches /built up Cable trenches/cable trays/ hume pipes/ GI Pipes, including supply and fixing of clamps, nuts & bolts, identification tags route markers etc. required for clamping intervals as necessary for 3 core 2.5 sq. mm copper armored cables to LED street lights.</p>	meter	65		
4	<p>Providing and fixing 65 mm nominal bore 3.6mm wall thick G.I. pipe of length 3.2meters (including accessories) complete with 50 mm X 50 mm X 6 mm angle iron bracket on wall and 75 mm X 90 mm shackle insulator with straps for house service connection including painting the angle, flat iron and pipe with 2 coat epoxy primer and 2 coat enamel paint etc. as required for and installation of LED street lights. Fixing the pipe with suitable arrangements/ foundation to ground and concreting the base of pipe to a height of 30cms and providing inspection space for future electrical repairs. (LED street lights will be provided by KSINC)</p>	nos	5		

SIGNATURE OF TENDERER

GRAND TOTAL:/-

In words: (Rupees.....)

I / We agree to Undertake to execute the Various Civil and Electrical Works at Customs Jetty, Willingdon Island, Kochi for total amount of Rs.

SIGNATURE /NAME /ADDRESS OF CONTRACTOR

SIGNATURE OF TENDERER