



KERALA SHIPPING AND INLAND NAVIGATION
CORPORATION LTD

(A Government of Kerala Undertaking)

63/3466, Udaya Nagar Road, Gandhi Nagar, Kochi -682020.

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

Construction and erection of two numbers of Piles at Ocean

Breeze Jetty near High court junction

Tender No	CE-414/Ocean Breeze jetty/2020/01
Cost of Tender documents	Rs. 2,500/- + 12% GST
Last date of tender submission	22.10.2020, 03.00 PM
EMD	Rs. 42,000 /-
Date of tender opening	22.10.2020, 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-414/Ocean Breeze jetty/2020/01

Dated 07.10.2020

TENDER NOTICE

Sealed tenders are invited in two bid system, from reputed and experienced contractors / construction firms for the work "Construction and erection of two numbers of pile at Ocean Breeze jetty, near High court junction, Ernakulam". 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 22.10.2020.

Sd/-

Managing Director

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SUMMARY

- | | |
|--|---|
| 1. Name of work | Construction and erection of two numbers of pile at Ocean Breeze jetty, near High court junction, Ernakulam |
| 2. Defects Liability Period | 6 (Six) Months from the date of work completion. |
| 3. Date of Commencement | 2 nd November 2020. |
| 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. 42,000 /- as demand draft payable to K.S.I.N.C Ltd. 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 "Construction and erection of two numbers of pile at Ocean Breeze jetty, near High court junction, Ernakulam" 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) Eligibility criteria.
 - a) The bidder shall have a valid registration with either PWD /CPWD/MES / Irrigation Department.
 - b) The bidder shall have previous experience in civil works for not less than 5 years.
 - c) The bidder shall have executed similar works for Rs. 30.0 lakhs within past three years.
 - d) The bidder shall have valid ESI, PF registrations.
 - e) The bidder shall have valid GST registration.
- 4) 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.
- 5) 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 showing the eligibility criteria of the contractor.
 - d) Satisfaction reports from previous customers.

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- e) Certificate from the main banker of the party certifying that the party is of sound financial position to execute projects of Rs. 20 lakhs.
 - f) Registration details like valid A or B or C Class contract license from PWD /CPWD/MES / Irrigation Department
 - g) Details of previous experience in similar works
 - h) Details of GST, PAN No, ESI and PF registration etc
- 6) 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.
- 7) 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.
- 8) The bidder shall sign all pages of the tender document and the Annexures and attachments in acceptance of the Conditions of tender.
- 9) 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. The company shall not allow any other payment or enhancement in rates for any reason.
- 10) Duly filled and signed tender document along with addendum/corrigendum if any shall be submitted on or before 22.10.2020, 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
63/3466, Udaya Nagar Road,
Gandhi Nagar,
Kochi - 682 020**
- 11) Tender(s) received late on account of any reason, whatsoever may be the case and telegraphic tender(s) shall not be entertained.
- 12) **Validity:** The Offers shall remain valid for a period of **six months** from the date of opening of the Financial /Price bid.
- 13) **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.
- 14) Received tenders will be opened on 22.10.2020 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.

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- 15) E.M.D for this tender is Rs. 42,000/-, 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.
- 16) The successful bidder, within seven days of receipt of the work order shall furnish a **security deposit cum performance guarantee equal to 10% of the value of the contract** in the form of an unconditional and irrevocable bank guarantee / DD drawn in favour of KSINC payable at Ernakulam.
- 17) The successful bidder shall execute agreement with the company in stamp paper worth Rs.200/- within 5 days receipt of the work order.
- 18) The work shall be completed within the period as 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) 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.
- 20) 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.
- 21) 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.
- 22) 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.
- 23) The contractor shall execute the work continuously to maintain 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.
- 24) 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.
- 25) Payment shall be made based on the measurement of completed works by Engineer-in-Charge. The contractor shall be eligible for final payments, only after full and satisfactory completion of the entire work. Final payment shall be made only after

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obtaining a good and satisfactory work completion certificate from the unit head/Engineer in Charge.

- 26) Interested bidders may visit the site with prior approval from KSINC officials to perceive conditions before quoting their bid.



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SPECIAL CONDITIONS

1. Completion period of work will be 30 days from the date of issue of work order
2. No mobilization charges will be paid to the contractor.
3. The contractor shall arrange his own yard space or similar arrangements for stacking of materials and carrying out casting / welding / painting works etc of MS casing pipe and reinforcement cage. No yard space will be provided by KSINC for the stacking of the materials/or related works.
4. No shifting charges will be paid to the contractor for shifting the construction equipment and its accessories from one location to another or from one area to another.
5. The defects liability period for the contract is Six months from the date of completion of the work or the date of submission of final bill whichever is later. The contractor shall be liable to rectify any defects noticed in his work during this period at his own cost. For this purpose retention of 10% will be collected from each bill. The retention money will be released after completion of the defects liability period of the contract.
6. The contractor shall execute the work continuously and maintain 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.
7. No idle time charges will be paid to contractor on any account.
8. Final Payment shall be made only after obtaining satisfactory completion certificate of the whole work from Engineer In Charge.
9. 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.
10. Navigable waterways shall not be blocked by Contractors vessels.
11. Corporation will not be liable to any accidents/deaths/ while executing the work. Any damages to the properties while carrying the work will be compensated from the final bill / repaired to the satisfaction of the company at the contractor's expense.
12. The company reserves the right to execute the work in full/part thereof. The contractor shall execute the work exactly as per the directions of Engineer-In-Charge.

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TECHNICAL SPECIFICATION

(1) Scope of the work

Providing driven/bored cast-in-situ pile of 500 mm diameter, as specified in IS:2911 (Part1), driven/bored to true plumb up to a depth of 22 metres from the existing pile cut off level. Permanent casing of 12 mm thick MS pipe welded, jointed and lapped with same thick MS plate and 500 mm width to the perimeter of pipe, 2 coat epoxy primer on outside etc. for length of 22 metres. 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, placing the reinforcement cage in position using appropriate equipment 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 equipment, materials, water, electricity etc including charges for 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.

(2) Specifications

(a) Approximate length of each pile comes to 22 m from the existing pile cut off level. The pile diameter shall be in no case less than 500.00 mm. The wall thickness of MS pipe used shall not be less than 12.00 mm thick.

(b) MS pipe casing shall be provided throughout the length of the pile. Care should be taken to keep the number of pipe joints to the minimum number. Appropriate method for driving the MS pipe casing into the lake bed shall be employed for erection.

(c) Joints of MS pipe casing shall be properly arc welded to get sufficient strength parameters. The length of pile surface exposed to tidal variation shall be provided with MS plate (thickness not less than 6.00 mm) weld fully covering the circumference of the pile for a length of at least 2.00 m.

(d) All MS pipe sections used for the work shall be thoroughly coated with at least two coats of protective coatings of approved quality.

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(e) Each pile shall be supplied with reinforcing cage throughout the pile length. The reinforcing cage shall consist of 8 number of 12.00 mm diameter Fe500 bars along with 8.00 mm diameter rings as lateral tie at 250.0 mm c/c. The longitudinal reinforcement bars shall be properly lap welded so as to obtain required cage length with length of lap weld not less than 40D where D is the diameter of reinforcement. In no case more than 50% of the lap joints shall fall in the same transverse section of pile.

(f) The MS pile casings shall be filled with concrete mix of M20 grade concrete after placing the cage inside the casing. The top portion of the pile shall be neatly finished. The pouring of concrete shall be done by tremie pipes to ensure the complete filling up of concrete in the entire length without leaving void spaces.

(g) The damaged piles shall be pulled out of the lake bed completely without damaging the neighboring structures and stacked at places as directed by EIC.

For construction of piles, guidance shall be taken from relevant Part/Section of IS:2911. The following points shall be kept in mind while bored cast-in-situ piles are installed.

- a) Piles shall not be bored so close to other recently completed piles as to damage them.
- b) Where bored cast in-situ piles are used in soils liable to flow, the bottom of the casing shall be kept sufficiently in advance of the boring tool to prevent the entry of soil into the casing leading to formation of cavities and settlements in the adjoining ground.
- c) The water level in the casing should generally be maintained at the natural ground water level for the same reasons.
- d) A sample of the bentonite suspension shall be taken from the base of the boring using an approved sampling device. If the specific gravity of the suspension exceeds the value specified in IS: 2911, the placing of concrete shall not proceed. In this event the Contractor shall modify or replace the bentonite as approved to meet the specification.
- e) Where the use of drilling fluid is specified for maintaining the stability of a bore, an adequate temporary casing shall be used in conjunction with the method so as to ensure stability of the strata near ground level until concrete has been placed.
- f) Temporary casing of approved quality or an approved alternative method shall be used to maintain the stability of a pile bore which might otherwise collapse.
- g) Where boring takes place through unstable water-bearing strata, the process of excavation and the depth of temporary casing employed shall be such that soil from outside the area of the pile is not drawn into the pile section and cavities are not created outside the temporary casing as it is advanced.
- h) In the event of a rapid loss of drilling fluid from a pile excavation, the bore shall be backfilled without delay and the instructions of the Engineer shall be obtained before boring at that location is resumed.
- i) All reasonable steps shall be taken to prevent the spillage of bentonite suspension on the site in areas outside the immediate vicinity of boring. Discarded bentonite shall be removed from the site without undue delay.

- j) Pumping from pile bores shall not be permitted unless the bore has been sealed against further water entry by casing or unless the soil is stable and will allow pumping to take place without ground disturbance below or around the pile.
- k) Before placing concrete, suitable measures shall be taken to ensure that there is no accumulation of silt or other material at the base of the boring, and the Contractor shall ensure that heavily contaminated bentonite suspension, which could impair the free flow of concrete from the tremie pipe, has not accumulated in the bottom of the hole.
- l) For a pile constructed in a stable cohesive soil without the use of temporary casing or other form of support, the pile shall be bored and the concrete shall be placed without such delay as would lead to significant impairment of the soil strength.
- m) Reinforcement for the pile as shown on the Drawing shall be tied in place to form a cage which is lowered into the pile shaft. Reinforcements at the bottom should not be provided with L-bends as these may interfere with cleaning of the pile base.
- n) The grade of concrete, minimum cement content, water cement ratio and slump at the time of placement shall be as per the Drawings or as directed by the Engineer.
- o) The concrete should invariably be poured through a tremie with a funnel, so that the concrete can be properly deposited in the hole without segregation.
- p) The hopper and pipe of the tremie shall be clean and watertight throughout. The pipe shall extend to the base of the bore and a sliding plug or barrier shall be placed in the pipe to prevent direct contact between the first charge of concrete in the tremie and the water or drilling fluid. The pipe shall at all times penetrate the concrete which has previously been placed and shall be withdrawn at a rate such that there shall be a minimum concrete cover of 2 m over the end of the tremie pipe, until completion of concreting.
- q) A sufficient quantity of concrete shall be maintained within the pipe to ensure that the pressure from it exceeds that from the water or drilling fluid.
- r) The internal diameter of the tremie pipe shall be not less than 150 mm, and the maximum sized aggregate shall be 20 mm. It shall be so designed that external projections are minimised, allowing the tremie to pass within reinforcing cages without causing damage. The internal face of the pipe of the tremie shall be free from projections.
- s) Temporary casings shall be extracted while the concrete within them remains sufficiently workable to ensure that the concrete is not lifted. During extraction the motion of the casing shall be maintained in an axial direction relative to the pile.
- t) The concrete level within a temporary casing shall be topped up where necessary during the course of casing extraction in such a way that the base of the casing is always below the concrete surface until the casting of the pile has been completed.
- u) Adequate precautions shall be taken in all cases where excess heads of water or drilling fluid could occur as the casing is withdrawn because of the displacement of water or fluid by the concrete as it flows into its final position against the walls of the pile bore.
- v) It is desirable that the concrete above cut-off level is removed before the concrete is set. This may be done manually or by specially made bailer or other device. Such removal of concrete helps in preventing the damage of the good concrete below the cut-off level, which results from chipping by percussion method. The removal of concrete shall be within ± 25 mm from the specified cut off level, preferably on the minus side.

(3) 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.

(4) 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.

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

(6) 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.

(7) 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.

(8) 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.

(9) 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

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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.

(10) The Contractor's supervisory staff shall be fully experienced professionals with experience in similar works. The site in charge shall be fully responsible for thorough supervision and timely completion of the work. He shall be responsible for ensuring the quality of the work throughout the contract period.

(11) 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.

(12) 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.

(13) 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).

(14) 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).

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.

(15) 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.

(16) 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.

(17) 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).

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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.

(18) Steel

Steel shall comply with IS: 456-2000, IS: 2911 (relevant parts and sections)

All reinforcements should be free from rusts, damages etc.

Bent up of steel to be done as per instruction of EIC.

HYSD bars to be used. (Fe 500)

Cover to be provided as per IS: 456-2000 code provisions.

Steel should be properly stacked and covered with polythene sheet to avoid corrosion.

(19) Drilling Mud (Bentonite)

The drilling mud to be used for stabilizing the borehole in bored piling work should conform to the following requirements,

- In case a borehole is stabilized by use of drilling mud, the specific gravity of the mud suspension should be determined at regular intervals by a suitable slurry sampler. Consistency of the drilling mud shall be controlled throughout the boring as well as concreting operations in order to keep the hole stabilized as well as to avoid concrete getting mixed up with the thicker suspension of the mud.
- The concreting operations should not be taken up when the specific gravity of bottom slurry is more than 1.12. The slurry should be maintained at 1.5 m above the ground water level.
- The bentonite powder and bentonite suspension used for piling work shall satisfy the following requirements:
 - a) The liquid limit of bentonite when tested in accordance with IS 2720 (Part 5) shall be 400 percent or more.
 - b) The bentonite suspension shall be made by mixing it with fresh water using a pump for circulation. The density of the freshly prepared bentonite suspension shall be

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between 1.03 and 1.10 g/ml depending upon the pile dimensions and the type of soil in which the pile is to be bored. The density of bentonite after contamination with deleterious material in the bore hole may rise up to 1.25 g/ml. This should be brought down to at least 1.12 g/ml by flushing before concreting.

c) The marsh viscosity of bentonite suspension when tested by a marsh cone shall be between 30 to 60 stoke; in special cases it may be allowed up to 90 s.

d) The pH value of the bentonite suspension shall be between 9 and 11.5.



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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:

		2020-19	2019-18	2018-17
1.	Total turnover			
2	Turn over from similar works			
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 "Construction and erection of two numbers of pile at Ocean Breeze jetty, near High court junction, Ernakulam" 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:

SIGNATURE OF TENDERER



KERALA SHIPPING AND INLAND NAVIGATION
CORPORATION LTD

(A Government of Kerala Undertaking)

63/3466, Udaya Nagar Road, Gandhi Nagar, Kochi -682020.

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

PART - 2 PRICE BID

Sl No	Description of work	Unit	Approx Quantity	Rate (Rupees)	Amount (Rupees)
1	Providing driven/bored cast-in-situ pile of 500 mm diameter, as specified in IS:2911 (Part1), driven/bored to true plumb up to required depth of from the existing pile cut off level, providing permanent casing of 12 mm thick MS pipe welded, jointed and lapped with same thick MS plate and 500 mm width to the perimeter of pipe, coated with 2 coat epoxy primer on outside, placing the reinforcement cage in position using appropriate equipment with minimum cover as specified and concreting with M20 grade concrete by tremmie pipe method etc. as per the specifications provided and complete as per the directions of Engineer - In - charge including the cost of reinforcement, concrete etc.	Metre	2 X 22.0 =44.00		
2	Pulling out damaged MS pile of approximate length 22.0 m completely and stacking the same as per the directions of Engineer In Charge.	Lump sum	2.00		
Grand Total					
(Grand total in words)					

* Note: (The rate shall be inclusive of preparation of working platforms for accommodating the pile driving/pulling accessories, temporary casing pipes as may be required, working places and mobilization, transferring and reinstalling of pile driving/pulling accessories etc. from one location to another and forming approaches to the working platform.)

Declaration

I / We agree to Undertake to execute the work of "Construction and erection of two numbers of pile at Ocean Breeze jetty, near High court junction, Ernakulam" for total amount of Rs.

SIGNATURE / NAME / ADDRESS OF CONTRACTOR

SIGNATURE OF TENDERER

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