



**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) Email id:

keralashipping@gmail.com, Website: www.ksinc.in

TENDER DOCUMENT

FOR

DRY DOCK REPAIRS OF STEEL MARINE CRAFTS AT KSINC SLIPWAY COMPLEX, THOPPUMPADY, FOR TWO YEARS

(Labour Contract)

Tender No.	W-270/A.T/2020-21 Dated 20.05.2020
Cost of Tender documents	Rs. 1,000.00 +GST (12%)
Last date of receipt of bids	24.06.2020, 3.00 PM
EMD	Rs. 50,000.00
Date of opening of bids	24.06.2020, 3.30 PM

Signature of Tenderer



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TENDER NOTICE

Sealed, super scribed Tenders are invited in two bid system, from competent marine contractors for the Dry Dock Repairs of Steel Marine Crafts at KSINC Slipway Complex, Thoppumpady, for Two years (Labour contract). *(Tenderers who do not comply with P.F, E.S.I statutory requirements are not eligible to participate in the Tender)*

The tender document can be downloaded from the website of the Company www.ksinc.in and cost of the **tender document** is **Rs.1,000.00 (GST @ 12% extra)** shall be remitted along with the tender by way of D.D, drawn in favour of “**KSINC Ltd**” payable at Ernakulam / can be collected by remitting cash at KSINC H.O. Completed Tenders (both Technical and financial bid) will be received up to 03.00 PM on 24.06.2020 and received tenders will be opened at 03.30 PM on the same day in the presence of the bidders/ their representatives if any present.

The bidders should furnish **EMD of Rs. 50,000.00 (Rupees fifty thousand only)** in form of DD from any scheduled bank drawn in favour of “**KSINC Ltd**” payable at Ernakulam

KSINC reserves the right to reject or not to accept all or any of the tenders without assigning reasons thereof.

For Kerala Shipping & Inland Navigation Corporation Limited

Manager (Technical)

Signature of Tenderer

DETAILS OF CONTRACTOR / FIRM

(WHEREVER NECESSARY ADDITIONAL PAGES CAN BE ATTACHED TO FURNISH FULL INFORMATION)

1.	NAME AND ADDRESS OF THE CONTRACTOR / FIRM	
2.	DETAILS OF LOCAL SET UP (Postal address with Pin Code, Telephone / telex/ fax number, E-Mail id etc)	
3.	NATURE OF BUISNESS (Details of constitution of the Company i.e. sole proprietorship, partnership, Private Ltd., etc)	
4.	YEAR OF ESTABLISHMENT	
5.	NAME AND ADDRESS OF THE OWNER / PARTNERS / DIRECTORS	

Signature of Tenderer

6. HUMAN RESOURCES (Specify Number): Permanent, Temporary

i	Unskilled Workers	
ii	Fitter (Structural)	
iii	Fitter (Machinery)	
iv	Fitter (Electrical)	
V	Welders	
vi	Painters	
vii	Others (specify)	
viii	Supervisors	
ix	Engineers	

(Note: Bio Data of the Key personnel's to be enclosed)

7. EQUIPMENTS & TOOLS (SPECIFY NUMBER)

i	Welding sets	
ii	Cutting sets	
iii	Grinding Machines	
iv	Drilling Machine	
v	Buffing machines	
vi	Testing Machines	
vii	Handing Tools	
viii	Other Tools	

(Details to be furnished such as type, capacity etc)

8. WORKSHOP FACILITIES:

(Give Details)

Signature of Tenderer

9. DETAILS OF JOB DONE IN SHIP BUILDING / SHIP REPAIR / OTHERS:
(Specify major jobs with clients address)

10. VALUE OF THE JOBS DONE IN THE LAST FIVE YEARS:

Sl. no	Name of Job	Date of completion	Client	Value of job

Signature of Tenderer

**11. INDICATE CATEGORY WISE VALUE OF JOBS DONE IN LAST 5 YEARS
(Documentary proof may be attached)**

1	Steel fabrication	:	
2	Fab. Of pipes / clamps/supports etc	:	
3	Surface preparation & Painting	:	
4	Insulation Works	:	
5	Joinery Works	:	
6	Mechanical Ventilation	:	
7	Air conditioning works	:	
8	Flooring & Tiling works	:	
9	Stainless Steel Works	:	
10	Electrical works	:	
11	Other onboard fitting works (specify type of works)	:	
12	Dry survey works	:	
13	Cargo oil tanks cleaning works	:	
14	Rubber / Neoprene works	:	

Signature of Tenderer

**12. INDICATE CATEGORY FOR WHICH ENLISTMENT IS SOUGHT FOR
(Strike out whichever is not applicable)**

1	Steel fabrication	:	YES / NO
2	Fab. Of pipes / clamps/supports etc	:	YES / NO
3	Surface preparation & Painting	:	YES / NO
4	Insulation Works	:	YES / NO
5	Joinery Works	:	YES / NO
6	Mechanical Ventilation	:	YES / NO
7	Air conditioning works	:	YES / NO
8	Flooring & Tiling works	:	YES / NO
9	Stainless Steel Works	:	YES / NO
10	Electrical works	:	YES / NO
11	Other onboard fitting works (specify type of works)	:	YES / NO
12	Dry survey works	:	YES / NO
13	Cargo oil tanks cleaning works	:	YES / NO
14	Rubber / Neoprene works	:	YES / NO
15	Carpentry works	:	YES / NO

Signature of Tenderer

13.	REFERENCE FROM THE BANKERS REGARDING THE FINANCIAL STABILITY	
14	HAVE YOU TAKEN GROUP INSURANCE ETC, COVERING YOUR EMPLOYEES	
15	HAVE YOU OBTAIN INCOME TAX CLEARANCE (If so, up to which assessment year. Please furnish copy of the assessment order issued by the IT Dept., latest available with you)	
16	GST REGISTRATION NUMBER SERVICE TAX REGISTRATION NUMBER	
17	EPF & ESI (enclose the documents for proof) P.F REGISTRATION NUMBER (No. of employees to be mentioned) ESI REGISTRATION NUMBER(No. of employees to be mentioned) (Only workers having ESI/PF registration on their name will be allowed to engage for the works by the contractor.)	
18	Details of license under the Contract Labour Act 1970	
19	ARE YOU A SMALL SCALE INDUSTRIAL UNDERTAKING (If so, enclose copy of the document of proof / else provide relevant details of registration)	
20	INDICATE DAILY OUTPUT POSSIBLE BY YOU IN TERMS OF PHYSICAL QUANTITIES a. Repair and new construction b. Tonnage of steel c. Mtr length of welding d. Sq.m of chipping, scrapping and painting e. Sq.m of insulation f. Mtr length of pipe line works	
21	ANNUAL TURN OVER OF THE FIRM DURING THE LAST 3 YEARS (enclose the copy of documentary proof)	

Signature of Tenderer

GENERAL CONDITIONS OF TENDER

1. Sealed tenders in two bid systems are invited for the Dry Dock repairs of Steel marine crafts at KSINC Slipway Complex for Two years (Labour contract). Tenders who do not comply with PF, ESI statutory requirements are not eligible to participate in the Tender).
2. The bids shall be submitted under two bid system.
 - Part I, The “Technical bid” along with all technical details, details of the yards, machineries, personnel etc. in the possession of the bidder, All technical details proving the eligibility of criteria of the builder, Registration details, IT return details, PAN details, ESI registration and remittance details, P.F registration and remittance details, time required to complete the work and the Commercial terms and conditions (except the price). The EMD also shall be furnished along with the technical bid.
 - Part II – “Financial Bid” shall be in the same format as given in the price schedule attached here to indicating item–wise rates for each and every item in the schedule.
3. Both the bids shall be placed in separate sealed covers indicating/super scribing the name of the work, the 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.
4. The bidder shall sign all pages of the tender document and the annexures and attachments if any, in acceptance of the conditions of tender.
5. The bidder is required to quote for each and every item in the tender schedule / Price bid. Omission to quote any of the items may lead to rejection of the offer even if the bidder comes as lowest in all other items.
6. 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 and also shall

Signature of Tenderer

cover increase if any, of prices of these during the currency of the contract. The Company shall not allow any other payment enhancement in rates on for any reason. Rate to be quoted inclusive of cost of consumables, Corporation will not provide consumables required for the work other than materials.

7. The tender documents can be downloaded from the website of the company, www.ksinc.in. The cost of tender document, **Rs. 1,000.00 + 12% GST** (non-refundable), shall be remitted along with the tender by way of D.D, drawn in favour of **“KSINC Ltd”** payable at Ernakulam / can be collected by remitting cash at KSINC H.O.
8. Duly filled and signed tender documents along with **EMD of Rs.50,000.00** (Fifty thousand only) (in form of DD from any scheduled bank drawn in favour of **“KSINC Ltd”** payable at Ernakulam, other modes of payments will not be accepted) shall be submitted in sealed envelopes super scribed as **“Annual Tender for the Dry Dock repairs of Steel marine crafts at KSINC Slipway Complex for Two years (Labour Contract)”** shall be submitted before 24.06.2020, 03.00 PM at the following address:

**The Managing Director,
Kerala Shipping & Inland Navigation Corporation Limited
63/3466, Udaya Nagar Road,
Gandhi Nagar,
Kochi – 682 020**

9. Tender(s) received late or not in the prescribed form shall not be entertained. Tenders without EMD / Cost of tender document will be rejected without any intimation. Any kind of exemption from furnishing the EMD is not allowed.
10. Received Tenders will be opened on same day at 03.30PM. The Technical bids also will be opened on the same time. The financial bids of the qualified bidders will be opened later, in accordance to the availability of the tender committee members and will be informed after opening the tenders.
11. (1)All questions are to be answered and valid data are to be provided at the required spaces in the tender documents. The tenderer shall study all the pages of the documents

Signature of Tenderer

and endorse each page with signature and seal as token of acceptance of the statements. If there are items not fully acceptable to the tenderer, the same shall be clearly mentioned on a deviation note quoting the item number and stating reasons of disagreement. Objections, however is solely under the discretion of Managing Director of the Corporation.

(b) The Tenderer's are also requested to enclose along with the tender, a certificate regarding their previous experience in repairs of Marine Vessels (Boat and Barges) and also a list of machineries available in their possession.

12. (a) The rates quoted will be treated as firm and valid for a period of Two years from the date of issue of Work order. The option lies with the Corporation to extend the contract for a further period of 3 months on expiry of the tender at the same rates, terms and conditions. On the other hand, the Corporation is also entitled to terminate the contract before completion of the period as well.

(b) If the contractor fails to carry out the works within the period of the contract, the security deposit by him will be forfeited and the party will be liable to make good the company for any damages/loss caused by the action.

13. (a) Professional failure on the part of the contractor during the period of contract shall result in forfeiture of Security Deposit. The Corporation reserves its rights to take further appropriate actions against the contractor to realize the loss suffered by the Corporation due to the erring contractor, including but not limited to completion of remaining work at the contractors "risk & cost".

(b) Any re-work arising through the Quality inspection of Yard/ Statutory authorities, shall be cleared by the Contractor at the contractors "risk & cost".

(c) The contractor has to take all measures to ensure safety of his employees. The Corporation is not liable to pay any compensation or responsible for any claims for losses, damages or accidents etc. If by any force & of circumstance, the company has to pay such claims, the amount will be deducted from any money due to the Contractor.

Signature of Tenderer

14. (a) The Contractor shall arrange the tools and equipments necessary for the execution of tendered works. However the Company may permit use of equipments owned by the Company on rental basis at the rates specified from time to time, subject to availability, as per the existing fixed rate for hiring company's machineries. Unavailability of tools will not be considered as an excuse for delay in work.
- (b) The Contractor shall be responsible for paying all statutory liabilities towards its workers like PF, ESI etc, and shall produce documentary proof of complying with such requirements, as and when required by the Company. Tenderers who do not comply with PF, ESI statutory requirements need not participate in the Tender.
- (c) The contractor shall maintain Muster roll, Wages Register, Leave with wages register; Inspection register and accident register (as per the Factories Act) and issue Identity Cards for his work men (photo ID cards), ensure attendance, punctuality and maintain discipline.
- (d) Contractor shall ensure that the engaged workmen are covered under a policy for liability which may arise under the Workmen's compensation Act throughout the contract period.
- (e) Contractor shall ensure that the workers use safety items like Safety shoe, Boiler suits and Safety helmets, and are weared properly.
15. Communications of acceptance of the tender normally constitutes a concluded contract. The short listed tenderer will execute an agreement in Rs.500/- worth Government Stamp paper. The EMD submitted along with the Tender will be adjusted to the security deposit for fulfillment of contract agreement. If the tenderer fails to comply with this the EMD will be forfeited and contract arranged elsewhere at the defaulters risk and any loss incurred by the Corporation on account of the agreement will be recovered from the defaulter who will however, not be entitled to any gain arising thereby. If the defaulter is a registered firm their registration is liable to be cancelled.
16. In cases where a short listed tenderer after executing the agreement fails to fulfill the Contract in full, the loss, if any caused to the Corporation for pursuing the work through

Signature of Tenderer

any other sources shall, together with such sums as may be fixed by the Company towards damages, be recovered from the defaulting tenderer, unless such failure is justified & reasonably beyond the control of the contractor.

17. (a) The contractor should guarantee the work for a period of 6 months during which he shall rectify at his own cost any defect arising out of defective material and / or poor workmanship.

(b) From every payment to the contractor, an amount equal to the 5% of the bill amount will be deducted as security deposit.

(c) The Security Deposit shall subject to the conditions specified herein, be returned to the contractor after 6 months on expiry of the date of completion of works, but in the event of any dispute arising between the Corporation and the Contractor, the Corporation shall be entitled to deduct out of the deposits or the balance thereof until such dispute is determined the amount of such damages, costs, charges and expenses as may be due at any time from corporation to the contractor. The security deposit will be released only after the expiry of the guarantee period, if any.

18. (a) In case the contractor becomes insolvent or goes into liquidation or makes or purpose to make any assignment for the benefit of his creditors or proposes any composition with his for the settlement for the benefit of his debts or carries on his business or the contract under instruction on behalf of the creditors or in case any order or orders for the administration of his estate are made against him or in case in which under any clause or clauses of this contract. The contractor shall have rendered himself liable for damages amounting to the whole of his security deposits, the contract shall thereupon after notice given by the Corporation to the Contractor be determined and the Corporation may complete the contract in such a time and manner and by such persons as the Corporation shall think fit. But such determination of the contract shall be without prejudice to any right or remedy of the Corporation against the contractor or his sureties in respect of any breach of contract committed by the contractor.

(b) The persons/contractors submitting tenders should submit proof of financial soundness along with valid income tax clearance certificates to fulfill the obligations

Signature of Tenderer

under this contract. If required the company may ask to produce a solvency certificate from the Tahasildhar of the Taluk where they resides, if the corporation decide it to be necessary.

19. The selected contractor shall commence works immediately on notice. He shall engage workers round the clock with at least 10 skilled workers per shift as and when required.
20. Supervisor shall be present on the work spot all the time to whom works can be detailed. He also shall be authorized for accepting directions issued by the officers of the Company and materials issued from stores to the Contractor.
21. Materials for repairs and Electrical power for construction will be provided by the Corporation. The Contractor shall also assess the required quantum of materials for the works and inform the stores of the upcoming necessity well in time to enable timely procurement. Consumables are to be arranged by the Contractor at his own cost.
22. The Contractor shall be responsible for the safety and security of the materials, tools and equipments supplied by the Company. If required the Contractor may deploy security personal at the work site, at his cost and risk.
23. Tenderers who can execute more quantity without reduction in quality, shall be preferred.
24. When the quantity of works is high the Corporation reserves the right to assign the works on same vessel to more than one contractor simultaneously, at its discretion.
25. The contractor should workout least possible period of execution of the work, not exceeding the time granted in the work order. Any delay in completion of the work beyond the time granted, due to reasons attributable to the contractor shall be liable to pay a penalty as follows:
 - (a) Penalty @ 1% of the Total Contract Amount/week subject to a minimum of Rs. 500/ day.
 - (b) Maximum penalty will be 10% of the bill amount.
 - (c) If the contractor is of the opinion that any delay is attributable to the company; he shall get it in writing acknowledged by the project in-charge.
 - (d) In the case of vessels not owned by KSINC, the penalty for delay will be recovered by the contractor as stated above or the actual amount charged by the Owner(to KSINC) whichever is higher.

Signature of Tenderer

26. Notwithstanding the recovery of penalty as in clause(26), In case the contractor fails to supply and deliver any of the works executed within the time provided for the delivery of the same or in case the contractor commits any breach of any of the covenants stipulations and agreements herewith in contained and on his part to be observed and performed, then and on in any such case, it shall be lawful for corporation (if deemed fit to do) to arrange for the execution of the said works by any other contractor and any loss or damage incurred by the company by reason of such execution of works or by reason of this contract having been so put an end it shall be payable by the contractor to the Company.
27. If any material or workmanship is found to be inferior or poor quality in the opinion of the company, the contractor at his own expense shall rectify the defects/poor quality materials/Workmanships so detected.
28. The Corporation is entitled to recover any amount due from the Contractor for whatever reasons, from any other amount due to the contractor from the Corporation.
29. (a) All payments to the contractors shall be in form of “A/c Payee cheques” only payable at Ernakulam. For this purpose the Contractor shall intimate details of their bank account number and PAN details to the Company.
- (b) All incidental expenses incurred by the Corporation for making payments outside Ernakulam shall be borne by the Contractor.
30. The Contractor shall not assign or make over the contract or the benefits or burden thereof to any other persons or body corporate. The Contractor shall not underlet or sublet to any person or persons or body corporate the execution of the contract or any part thereof without the consent of the Corporation, in writing.
31. Every notice hereby required or authorized to be given may be either given to the Contractor personally or left at his residence or last known place of abode or business and if so, addressed and posted, shall be deemed to have been served on the contractor on the date on which in the ordinary course of post a letter so addressed and posted would reach his place of abode or business.

Signature of Tenderer

32. The Tenderer shall provide valid office address, phone number, Fax number, e-mail address details for contract.
33. Tenderers should be prepared to accept orders subject to the penalty clauses in the event of default or failure to carry out the assigned works within the period specified.
34. The Corporation reserves the right to terminate the contract and to forfeit the security deposit, if the contractor fails to carry out his obligation or in the opinion of the Corporation the quality of work carried out, by the contractor is substandard and unsatisfactory or when excessive delay is involved in completing any items of work awarded to the Contractor. Moreover, the Contractor shall not have any claim on the Corporation in case he gives up the works awarded to him half way without completing the work in its entirety.
35. In case of any dispute arising during completion of work will be mutually discussed; objections however will be under the sole discretion of Managing Director of the Corporation.
36. KSINC reserves the right to empanel more than one annual contractor at its discretion at any time during the 2 years contract period. The corporation may also at a later stage, add new annual contractors, who are ready to accept the tender conditions and match the L1 rates.
37. If the contractor causes any damages to the vessel or any machinery or other equipments of the company, during the course of the work, the cost will be recovered from the contractor.
38. Before commencing and after completion of each work, contractor should ensure that raw materials, daily scrap, equipments etc are not laid in a manner that it cause obstruction to the movement of crane / other vehicles through yard.
39. After completion of each work, the contractor has to clean up the berth & premises and stack the scraps as instructed by the departmental officers.

Signature of Tenderer

40. Alignment inspection / correction inspection / correction of alignment necessitated because of any works pertained by the contractor will not be considered as an additional / extra work, and there will be no separate payment for the same.
41. The bidders are required to visit the yard prior to quoting and identify the present wages and other current practices so as to avoid disputes later.
42. The jurisdiction for all disputes arising out of this tender, subsequent work order, agreement or any other matter related thereto shall be courts in Ernakulam.
43. KSINC reserves the right to reject any/all the tenders without assigning any reason thereof. The Company is not bound to accept the lowest bid and may reject it without assigning any reasons.

Name and Address of Tenderer:

Signature:

Seal of firm:

Signature of Tenderer

**TENDER SCHEDULE FOR THE DRY DOCK REPAIRS ON STEEL MARINE CRAFTS
AT KSINC SLIPWAY COMPLEX (LABOUR CONTRACT) FOR TWO YEARS**

Sl. No	Description of work	Unit	Rate (Rs)	
			IRS	Without IRS
1	(a)Surface preparation, Sand blasting to S.A 2.5 standard including the cost of material (Hull of repairing vessels), air compressor will be hired by KSINC.	M ²		
	(b)Surface preparation, Sand blasting to S.A 2.5 standard including the cost of material for new M.S plates/ angles, air compressor will be hired by KSINC.	M ²		
2	Surface preparation other than sand blasting (Chipping, scrapping)			
	(a)For external areas	M ²		
	(b)For inner sides of tanks / compartments	M ²		
3	Removing the thickly formed oyster coating and other vegetation growth from the underwater portion of the vessel including cleaning the vessel complete as per the instruction of the Corpn. Officers.	M ²		
4	a) Painting per coat (Hand brush painting)	M ²		
	b) 1. Painting per Coat (Spray painting)	M ²		
	2. Applying putty for enabling spray painting.	M ²		

Signature of Tenderer

5	(a)Supplying and welding (using IS 6013/ IS 7018 marine quality welding rod) with new various thickness plate of IS 2062 GR B quality for beam/ gazette and other plate work of original size and shape to the various portions of the vessel after heating and bending to shape, V cut on the matting edge of the plate and three layer welding on both sides together. The rate including the welding charges, tools, plants, scaffolding other incidental expenses etc complete as per the direction of KSINC officers. (Entire quantity of welding rod supply should be get inspected and designated by KSINC.	Kg rate for plates /		
	6mm	”		
	8mm	”		
	10mm	”		
	12 mm	”		
	(b)Supplying and welding (using IS 6013/ IS 7018 marine quality welding rod) with new various size of MS round bar, angles, flats and shape to the various portion on the vessel (already removed from the damaged portion of the vessel) after heating and bending to shape, V cut on the matting edge of the plate and three layer welding on both sides together. The rate including the welding charges, tools, plants, scaffolding other incidental expenses etc complete as per the direction of KSINC officers.	Kg		
	(c)Supplying and welding (using IS 6013/ IS 7018 marine quality welding rod) with various size of M.S items and fabrication of skylight, Air cowl, doors, and other out fittings. The rate including the welding charges, tools, plants, scaffolding other incidental expenses etc complete as per the direction of KSINC officers.	Kg		

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6	Welding Zinc anodes on the underwater portion of the hull after removing old brackets.	No.		
7	(i)Removing the old rubber fender after cleat cutting and refitting new rubber fender with new cleats at regular intervals as per the direction of KSINC Officers. Fenders will be supplied by KSINC.	R.Mtr.		
	(ii)Removal and refitting of wooden / rubber fenders for carrying out steel fabrication.	R. Mtr		
8	Fitting split pipe fender with new pipe 6” or 8” with brackets spaced at 300 mm at straight portion and 500 mm maximum at curved areas.	R Mtr.		
9	Cutting and removing corroded and damaged pipe of following sizes with or without flanges from sea water / fresh water lines in different parts of the vessel without damaging remaining parts. Fabricating and welding using best quality B class GI pipe, bend etc, in place of removed portion in same shape with or without flanges and coupling the pipes using new bolts and nuts, joints etc direction of dept officers.			
	25 mm	R.Mtr		
	40 mm	R.Mtr		
	50 mm	R.Mtr		
	65 mm	R.Mtr		
	80 mm	R.Mtr		
	100 mm	R.Mtr		
	150 mm	R.Mtr		
	200 mm	R.Mtr		

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10	Welding per run (using IS 6013/ IS 7018 grade electrodes)	R.Mtr		
11	Gas cutting	R.Mtr		
12	Gouging	R.Mtr		
13	Grinding	R.Mtr		
14	Buffing	M ²		
15	Fixing doublers (4mm/6mm/8mm)	Ton		
16	Renewal of exhaust pipe with or without flanges, bends, brackets etc.			
	1 ½ “	R. Mtr		
	2”	R. Mtr		
	2 ½ “	R. Mtr		
	3”	R. Mtr		
17	Removal and refitting of exhaust pipe with or without flanges, bends, brackets etc.			
	1 ½ “	R.Mtr		
	2”	R.Mtr		
	2 ½ “	R.Mtr		
	3”	R.Mtr		
18	Renewal of Single Bollard on doublers using:			
	4” pipe	Each		
	6” pipe	Each		
19	Renewal of Double Bollard on doublers using:			
	4” pipe	Each		
	6” pipe	Each		
20	Renewal of Towing post:			
	6” dia	Each		
	8” dia	Each		

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21	Fabricating, supplying and fixing letters or numbers by welding, using M.S plate in the vessel as per the direction of department officers.	Per No.		
22 a)	1. Renewal of air vent 1 ½ “ dia	Each		
	2. Renewal of air vent 1 ½ “ dia	Each		
	3. Renewal of air vent 6“& 8”dia suitable for oil barges.	Each		
b)	1. Removal and refitting of air vent 1 ½ “ dia	Each		
	2. Removal and refitting of air vent 1 ½ “ dia	Each		
	3. Removal and refitting of air vent 6“& 8”dia suitable for oil barges.	Each		
23	Making of Bilge headers & fittings of its valves.	Each		
24	Removing both anchor with cable (stud link chain) from the winch. Chipping, scrapping, wire brushing, cleaning, free the swivel links and applying red oxide and painting the chain and placing chain with anchor on the winch as per the direction and satisfaction of KSINC officers.	Set		
25	Sea chest making & fixing with drilled cover plate with bolting arrangements.	No.		
26	Strum box making for bilge suction lines.	No.		
27	(a) Concreting decks and floors with wall tiles and floor tiles fitting (excluding material)	M ²		
	(b) Bathroom W.C and pipe line removing and refitting	LS		
	(c) Bathroom W.C new fitting in position with all lines	LS		
28	Engine room bilge cleaning after removal & fitting of platform plates.	LS		
29	Renewal of scuppers	No.		
30	Fixing of Pipe rails & stanchions on doubler plates on deck.			

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	a. 1" dia	R mtr.		
	b. 1 1/2" dia	R mtr.		
	c. 2" dia	R mtr.		
31	Berth frame making and fixing (6'x 21/2')	No.		
32 a	Renewal of 4mm / 5mm chequered plates with frames and fastness.	Ton		
b	Removal and refitting of 4 mm / 5mm Chequered plates	M ²		
33	Renewal of Leuvre type windows size (40x40) cms.	No.		
34	Filling pits by welding.	No.		
35	Rope guard for propeller shaft.	No.		
36	Accommodation / hylum sheet / Sun mica/ ceiling plywood renewal / side paneling renewal with new M.S cleets, wooden reapers and 6mm/4mm new plywood without causing damage to other parts, after removing the old damaged hylum sheet / plywood.	M ²		
37	Removal & refitting of hylum sheet / Sun mica/ plywood (6mm/4mm) without causing damage to other parts for enabling steel works on those areas.	M ²		
38	Stern tube fitting and alignment.	No.		
39	Loading of main engine to the vessel, erecting and aligning. (Rate to be quoted including all the modifications / steel fabrication works which may occur to align the gear box with the main engine. The replaced engine to be shifted to the yard covered area.)	No.		
40	Loading of gear box to the vessel, erecting and aligning to the main engine. (Rate shall include all the modifications / steel fabrication works which may occur to align the gear box with the main engine. The replaced gear box to be shifted to the yard covered area.)	No.		

Signature of Tenderer

41	New Hydraulic steering remote control fitting, testing and commissioning.	No.		
42	Semi rotary pump fixing with pipes and flanges.	No.		
43	Opening up of the man hole cover of diesel service tank/lube oil storage tank and making gas free after drain out existing diesel oil / lubrication oil to be barrel cleaning the tank and refill diesel oil lube oil from barrels to the tank and close the man hole cover using new bolt and nut, joint etc, as per the direction of Corpn. officers	Per ton capacity of tank		
44	Opening up the manhole cover of freshwater storage tank of various capacities. Removing the sediments in the tank and cleaning the complete surface of the tank. Washing (coating) the inside of the tank using white cement refit the man hole cover using new bolt and nut, joints etc as per the direction of dept officers.	Per ton capacity of tank		
45	Making and supplying and providing by welding tyre fender, tying hook, along with ring using 20mm dia M.S rod as per the direction and satisfaction of dept officers.	No.		
46	Removing the glasses of the windows in the wheel house / accommodation, buffing the glass surface, replacing damaged rubber beadings, locks, new rubber beadings screw of original size, fixing with the glass already removed as per the direction and satisfaction of Corporation officers.	Sq. feet		

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47	Cutting and removing the broken and damaged fender holding brackets, bolts, nuts and wooden bits. Welding a pair of M.S clits size (100mmx100mmx8mm) at an interval of 42cm between the adjacent cleat and around the vessel. Fixing firmly the wooden fender in between the cleats after making 20mm bolt with washer etc complete as per the direction of Corpn, officers (fender of 15cm x 20cm). Fenders will be supplied by KSINC.	R mtr		
48	Clear removal of the old plastering in various places in the vessel and plastering the cement mortar with 1:3 15 mm thick one coat on various places of the vessel as per the direction of Corpn. Officers. (including material)	M ²		
49	Damaged manhole and cover renewal as per the existing size and fitting with packing etc	Per No.		
50	Fresh water tank fixing and connections to E/R, Kitchen & Toilet excluding cost of tank & fittings.	LS		
51	Propeller shaft bracket fixing & aligning.	No.		
52	A bracket removing and refitting correcting alignment.	No.		
53	Damaged handrails renewal 1” and 1 ½“GI pipe renewal.			
	1”	R mtr		
	1 ½ “	R mtr		
	2”	R mtr		
	2 ½ “	R mtr		
54	Sea chest & gratings removal, cleaning and refitting	Per No.		
55	Vertical ladders making to internal compartment of the vessel by using 35 x 35mm M.S angles.	Kg		
56	Sanitary pipes renewal	R mtr		
57	Rudder stuffing box new making	Each		
58	Rudder stock removing and refitting	Each		

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59	Steering chain pulley removing and refitting	Each		
60	Auxiliary engine old foundation removing and refitting	No.		
61	Bilge line removing, cleaning (various sizes) and fitting in position with new packings and fasteners	R mtr		
62	Corrugated sheet old removing and new fitting in position	M ²		
63	Providing thermal insulation including pin welding	M ²		
64	200 GSM FRP layering	M ²		
65	8" dia and 6" dia cargo lines pressure testing and certification (for petroleum carriage barges)	LS		
a	200 MT Barge			
b	300 MT Barge			
c	650 MT Barge			
66	Removal and refitting of pipelines of following sizes with or without bends, flanges etc in different parts of the vessel without damaging the remaining parts using new bolts, nuts, joints etc as per direction of the departmental officers.			
	25 mm	R mtr		
	40 mm	R mtr		
	50 mm	R mtr		
	65 mm	R mtr		
	80 mm	R mtr		
	100 mm	R mtr		
	150 mm	R mtr		
	200 mm	R mtr		
67	Cleaning and gas freeing of Cargo Tank's, forepeak tank, cofferdam, cargo pump room and cargo pipelines of Oil barge to the satisfaction and certification of officials of P.E.S.O.	LS		
a	200 MT Barge			

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b	300 MT Barge			
c	650 MT Barge			
68	Water jet cleaning: - After docking, the vessel shall be thoroughly cleaned to remove any scales, dirt, marine growth etc by high pressure water jet.	M ²		
69	Water jet washing: - After docking, the vessel shall be thoroughly washed by high pressure water jet.	M ²		

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