



INDIAN MARITIME UNIVERSITY
(A Central University Govt. of India)
P-19, Taratala Road, Kolkata – 700088
Tel: (033) 2401 4673/4674/4675/4676/4678/3677
Fax: (033) 2401 4431/4333

NOTICE INVITING TENDER

Tenders are invited for “**SUPPLY AND INSTALLATIONN OF ONE NUMBER 5 TON/HR VERTICAL SATURATED STEAM BOILER SUITABLE FOR MARINE APPLICATION AND ASSOCIATED SYSTEMS AT INDIAN MARITIM UNIVRSITY, KOLKATA CAMPUS**” under **TWO BID** system through the Central Public Procurement Portal:

The Tender Document can be downloaded free of cost from IMU websites www.merical.ac.in / www.imu.edu.in along with the **CPPP from 19.01.2024** onwards. The offer against the bid is to be submitted through the **CPPP only** and no hard copy will be accepted in the office of the undersigned.

The last date for receiving tender at IMU Kolkata Campus is 12.02.2024.

Director

Tender Abstract

1	Title	:	SUPPLY AND INSTALLATION OF 01 NUMBER VERTICAL BOILER SUITABLE FOR MARINE APPLICATION AND ASSOCIATED SYSTEMS AT INDIAN MARITIME UNIVERSITY, KOLKATA CAMPUS
2	Notice Inviting Tender No.	:	IMU-KC/BOILER/03/23-24 dated 18.01.2024
3	Tender document download date	:	19.01.2024
4	Pre bid meeting (Mandatory)	:	Pre-bid: 03.00 PM on 05.02.2024 Indian Maritime University, Kolkata-700088.
5	Last date and time for receipt of bids	:	02.00 PM on 12.02.2024
6	Date and time for opening of Technical bid	:	03.00 PM on 13.02.2024
7	Date and time for opening of Financial bid (for technically qualified bidders)	:	To be intimated later
8	Proposal currency	:	Prices shall be quoted in Indian Rupees (INR)
9	Language of the proposal	:	This proposal should be filled in English language only. If any supporting documents are to be submitted, in any other language other than English, then translation of the same in English language, attested by the bidder should be attached.
10	Validity of tender offers	:	45 days from date of opening of Technical bid
11	EMD Amount	:	Rs. 5.00 Lakhs
12	Performance Security Deposit (for finalized bidder only)	:	10% of the tender value in the form of Bank Guarantee of any Nationalized /Scheduled Bank having branch at Kolkata.
13	Submission of Tender in the name of	:	The Director, Indian Maritime University, Kolkata Campus, P-19, Taratala Road, Kolkata - 700088.

INDIAN MARITIME UNIVERSITY

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1. About Indian Maritime University:

The birth of Indian Maritime University is a long cherished dream of the maritime community of India. The Indian Maritime University, established through an Act of Parliament (Act 22 of 2008) in November 2008 as a Central University and headquartered at Chennai (herein referred to as IMU HQ), is poised to play a key role in the development of trained human resource for the maritime sector. IMU is an autonomous body under Ministry of Shipping, Govt. of India.

The following are the objectives of the University:

(i) To facilitate and promote maritime studies, training, research and extension work with focus on emerging areas of studies like oceanography, maritime history, maritime laws, maritime security, search and rescue, transportation of dangerous cargo, environmental studies and other related fields, and also to achieve excellence in these and connected fields and other matters connected therewith or incidental thereto.

(ii) To promote advanced knowledge by providing institutional and research facilities in such branches of learning as it may deem fit and to make provisions for integrated courses in Science and other key and frontier areas of Technology and allied disciplines in the educational programmes of the University;

(iii) To take appropriate measures for promoting innovations in teaching-learning process, inter- disciplinary studies and research; and to pay special attention to the promotion of educational and economic interests and welfare of the people of India;

(iv) To promote freedom, secularism, equality and social justice as enshrined in the Constitution of India and to act as catalyst in socio-economic transformation by promoting basic attitudes and values of essence to national development; and

(v) To extend the benefits of knowledge and skills for development of individuals and society by associating the University closely with local, regional and national issues of development.

2. Invitation for Bids:

The Indian Maritime University Kolkata (hereinafter referred to as the Buyer or IMU KC) invites tenders for **SUPPLY AND INSTALLATION OF 01 NUMBER VERTICAL BOILER SUITABLE FOR MARINE APPLICATION AND ASSOCIATED SYETEMS AT INDIAN MARITIME UNIVERSITY, KOLKATA CAMPUS**, (hereinafter referred to as the “Supply”) under **two bid system** through the **Central Public Procurement Portal**.

Type of Tender	Two Bid system 1. Technical Bid 2. Price Bid
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Overall Scope and objective of this Tender is to select a successful bidder for dismantling the old set ups, transferring the old set ups to a designated place (as per IMU KC), reinstallation of some items from old set ups, supply, installation, commissioning, testing, certification, training & Annual Maintenance Contract of new components and equipments. This Clause needs to be qualified with details of either the Drawings of our Workshop or requirements of dismantling the existing Boilers including its Foundations and associated Civil Works.

Complete specifications with manufacturer’s Name and address should be given while quoting.

Literature / brochures / pamphlets / technical data sheets / drawings must be enclosed with the quotation wherever applicable.

2.1. EMD and Tender Fees:

Sl.No.	Particulars	Requirement
1	Tender documents can be downloaded from www.merical.ac.in / www.imu.edu.in / CPPP	Free of Cost
2	Bidder must submit EMD for Rs.5.00 LAKHS (Rupees Twelve Lakhs Fifty Thousand only)	Demand Draft from nationalized / scheduled commercial bank.

2.2. Eligibility Criteria:

The bidder should have mandatory qualifications as per the following table. Only the proposal of the bidders who are fulfilling the mandatory qualification criteria will be considered for the financial evaluation. The offer will be rejected if the bidder does not fulfil any one of the mandatory qualification criteria.

Sl.No	Qualification Criteria	Supporting documents
1	The Bidder should be in the business of Providing ‘Similar Supply’ for a period not less than 5 years i.e. since 2017	Certificate of Incorporation / Registered partnership deed / Copies of the Work order, Agreement and Work Completion certificate for the Completed or ongoing supply – Proof for providing similar supply during 2017-22 or earlier to be enclosed.

2	The Bidder should have satisfactorily completed “Similar Supply” involving values as listed below during the last 5 financial years i.e. since 2017-18 a) at least 1 Similar Supply with a minimum value of i.e. Rs. 2 Crore [OR] b) at least 2 Similar Supply with a minimum value of Rs. 1.25 Crore [OR] c) at least 3 Similar Supply with a minimum value of Rs. 1 Crore	Copies of the supply order, Payment advice, Certification from buyer entity.
3	The Bidder should have a positive net worth and an average annual turnover of at least Rs. 2.5 Crore during the past 3 financial years i.e. 2020-21, 2021-22 & 2022-23.	Annual accounts duly certified by a Chartered Accountant / Income tax Returns. Audit Reports should be forwarded as part of the offer.
4	The Bidder should have a valid PAN and GST Registration Certificate.	Copy of the PAN Card and GST registration certificate.
5	The Bidder shall be the reputed Original Equipment Manufacturer (OEM) / their authorized / certified partner or authorized reseller. He shall furnish necessary authorization from the OEM and authorizing him to provide all goods and services support indicated in this tender and confirming that necessary assistance would be provided to him in providing required support during the Warranty Period and AMC period.	OEM Authorisation / Certification as per the Annexure III. In case of participation by OEM, self declaration. Payments will be made only in INR and there shall be no FE component. Boiler Components, if any, or Spare Parts, if any, which are imported should be specifically mentioned and supportability of the same should be guaranteed for the next 30 years. Up-gradations, if any, should happen at OEM’s Cost.
6	The Bidder should not have been debarred country wide so far.	Self-declaration to this effect.

2.2.1. ‘Similar Supply’ means supply of **Vertical Boiler Suitable for Marie Application** to Government / Semi-Government/ Public Sector organizations/ National level educational institutes like IIT, IIM, NIT and Central Universities/ State Universities / Public Limited Companies. / Reputed UGC/ AICTE Recognized or private Sector Universities / Maritime training institutes and port organizations / Central Govt. Research laboratories such as CSIR / DRDO / ISRO or Public / Private Industries.

2.2.2. With regard to the various proof/supporting documents produced by the bidders for establishing that they meet the various eligibility conditions, it shall be IMU’s prerogative to decide whether the document produced is valid evidence or not and to call for additional proof, if required.

2.2.3. All the Mode of Proof Documents for meeting eligibility criteria enclosed with the tender are to be duly signed by the authorized signatory. If required, IMU-KC may insist for notarized copy or ask to produce originals to ascertain the veracity of the documents. IMU-KC also reserves the right to ask more proof to corroborate the eligibility declarations.

2.2.4	QUALIFYING CONDITIONS :
2.2.4.0	Only those vendors (OEMs), who have supplied and commissioned Vertical Boiler suitable for Marine Application for similar applications or more in the past five years (on the date of opening of Tender) and is presently working satisfactorily for more than two years (on the date of opening of Tender) after commissioning, should quote. The following information should be submitted by the vendor about the companies where referred Boiler(s) have been supplied. This is required from all the vendors for qualification of their offer.
2.2.4.1	Name of the customer / company where similar Boiler is installed.
2.2.4.2	Complete postal address of the customer.
2.2.4.3	Month & Year of commissioning.
2.2.4.4	Parameters of Boiler supplied.
2.2.4.5	Name and designation of the contact person of the customer.
2.2.4.6	Phone, FAX no. and e-mail address of the contact person of the customer.
2.2.4.7	Performance certificate from the customers regarding satisfactory performance of Boiler supplied to them (Original Certificate or Through E-mail directly from the customer). The original performance certificate may be returned after verification by IMU Kolkata, if required.
2.2.4.8	IMU Kolkata reserves the right to verify information submitted by vendor. In case the information is found to be false/incorrect, the offer shall be rejected.

2.3. Pre-bid Meetings Clarification:

IMU KC shall organize pre-bid meeting on the scheduled date, time and venue as mentioned in Tender Abstract, at Indian Maritime University P19, Taratala Road, Kolkata-700088. Bids of bidders who have not participated in pre-bid shall not be considered for further tendering process. The prospective bidders shall submit their queries in writing in prescribed format below in writing to the address mentioned in the invitation of tenders or E-Mail to dradmin.kolkata@imu.ac.in with a copy to director.kolkata@imu.ac.in three days before the pre-bid meeting and the same shall be clarified during the pre-bid meeting.

Sl.No.	Clause No. & Page No.	Reference Clause Details	Clarification Sought

IMU KC may or may not incorporate any changes in the Tender document based on acceptable suggestions received during the Pre-Bid Conference. The decision of IMU KC regarding acceptability of any suggestion shall be final in this regard and shall not be called upon to question under any circumstances. Bidders should attend pre-bid meeting on the day mentioned. The technical staff/personnel (representative) should endeavour to inspect **site in IMU-KC Workshop and be present in the pre-bid meeting for finalising scope of work.**

2.4. Response to queries and issue of amendments:

- 2.4.1. IMU KC will respond to any valid request for clarification, received one week prior to the last date for submission of tender. IMU KC's decision is final and binding with regard to interpretation of terms used or other tender contents.
- 2.4.2. IMU KC may, for any reason, suo motu or in response to a clarification by a prospective bidder or bidder, modify the tender documents by amendments (through addenda / corrigenda etc.)
- 2.4.3. Any such amendments will be informed to all the participants in the pre-bid meeting besides hosting on IMU website. All the bidders who had downloaded the Bid Document shall verify, whether any such amendments have been issued by IMU KC, before submitting their bid and shall take cognizance of and include such amendment(s) in their submission. In any case, the amendment(s), if any, shall be binding on the Bidder.
- 2.4.4. Any such corrigendum/addendum shall be deemed to be part or incorporated into this NIT.
- 2.4.5. In order to provide prospective bidders reasonable time for taking the Corrigendum/modifications into account, IMU KC may, at its discretion, extend the last date for the receipt of Bids. However, no such request in this regard shall be binding on IMU KC.
- 2.4.6. It is the responsibility of the bidder to check the website of IMU and CPPP time to time for updates.

2.5. Language of Proposal & Correspondence:

The tender, and all correspondence and documents, related to the tender, exchanged between the bidder and IMU KC should be in the English language only. If the bidder along with their offer furnish any printed literature written in any other language, such documents should be supplemented with their English translation also. The contents in the English translated version alone shall be taken into consideration.

2.6. Tender Validity:

- 2.6.1. Tenders shall remain valid for **45 days** from the last date for submission of tender. An offer valid for a shorter period may be rejected by IMU KC as being non-responsive. During the period of validity of offer, the terms and condition mentioned shall not change and any such request may lead to denial of the award.
- 2.6.2. In exceptional circumstances, prior to the expiry of the original tender validity period, the IMU KC may request the bidders to extend the period of validity for a specified additional period. The request and the response thereof shall be made in writing through E-mail or Post. A bidder agreeing to the request will not be required to nor permitted to modify his tender, but will be required to extend the validity of his tender for the period of extension. In case a bidder is not agreeing to the request of the IMU for extension of validity of the tender, then his tender will not be processed further and the portions of his tender which have not been opened will be returned to them unopened as the case may be. The EMD paid by them will also be refunded to them as in the case of other unsuccessful bidders.

2.7. Proposal prices:

The prices indicated in the price schedule shall be entered in the following manner:

- i) The total price quoted must be inclusive of freight and insurance up to dismantling, shifting, re-fixing of old items. Delivery, Installation, Commissioning, Training, Certification of new items and Up-gradation of software hardware and comprehensive AMC for 3 years immediately after expiry of 2 years warranty at IMU KC's Campus, excluding applicable GST. This should also include Spare Parts, Consumables as Spare Parts, Tools and Appliances, Instrumentation and any such component necessary for proper exploitation and maintenance of the Boilers. Spare Parts should be given to meet requirements for a period of at least 2 years.
- ii) Prices quoted as above shall be valid for a minimum period of 45 days from last date for submission of the tender.
- iii) It must be clearly understood that the prices quoted in the tender are to include everything required to be done as per the specification and the conditions of tender and supply for the proper execution of supply/works although special mention thereof may have been omitted in the specification. The specifications indicated are for minimum and shall include accessories etc. to make the system fully operational. IMU KC has the right to change /increase / withdraw the quantities of any items in the tender prior to acceptance by the supplier of the work order issued by IMU KC.

2.8. Earnest Money Deposit (EMD):

- 2.8.1.** Tender should be accompanied by an Earnest Money Deposit (EMD) for the value stated in the Tender Abstract which shall be in the form of Demand draft from any Nationalized Bank / Scheduled Bank drawn in favour of "Indian Maritime University", Payable at Kolkata. No other form/ mode of deposit towards Earnest Money shall be accepted. Tenders not accompanied by the Earnest Money Deposit in the manner prescribed by the IMU KC will be summarily rejected. No exemption from payment of EMD is available to any bidder for any other reason whatsoever.
- 2.8.2.** The EMD of all unsuccessful bidders would be refunded by IMU KC within 90 days on selection of successful bidder. No interest will be allowed on the Earnest Money. The EMD of the successful bidder will be refunded only after the remittance of Security Deposit. Alternatively, the successful bidder shall when his tender is accepted, furnish Security Deposit as specified in the clause elsewhere after adjusting the amount deposited by him as earnest money. The earnest money shall retain its character as earnest money deposit, till the successful bidder furnishes the Security Deposit in full with or without adjustment of EMD.
- 2.8.3.** Where a person whose tender has been received by IMU KC intimates that he is withdrawing their tender before the validity period or makes any modification in the terms and conditions of the tender which are not acceptable to the IMU KC (or) fails to furnish the Security Deposit within the prescribed time, the IMU KC shall without prejudice to IMU KC's any other right or remedy, be at liberty to forfeit the Earnest Money deposited by such person absolutely.

2.9. Submission of the Proposal:

The tender submitted by the Bidder shall comprise the following and should be read in conjunction with any Amendments issued at the time of submission of bid. **Clause wise Compliance Statement is to be submitted as part of the Bid.**

2.9.1. Technical Bid:

The Technical Bid comprise of following;

- 2.9.1.1. Earnest Money Deposit.
- 2.9.1.2. Tender Document downloaded from IMU-KC/IMU/CPPP website comprising Tender Notification, Abstract, General Rules and Directions for the Guidance of the bidder, General description of Supply and other terms and conditions, including the amendments, corrigenda / addenda issued by IMU KC which are duly signed by the authorized signatory of the bidder in each page with stamp signifying the acceptance of all the tender conditions / terms / contents.
- 2.9.1.3. Duly filled Technical Bid format (Annexure II) and Supplier's OEM Authorization Form (Annexure III) with all the documents stated in the technical bids and other supporting documents in evidence of the data filled in technical bids and any other documents/enclosures/schedules/annexures etc. stated in the tender document.
- 2.9.1.4. Bidder Memorandum (Annexure IV) duly signed by the bidder.
- 2.9.1.5. The duly authorized signatory (ies) of the entity should sign and seal in all the pages of the tender document including the annexure / schedules signifying the acceptance of all the terms and conditions, stated in the various parts of the tender. The person(s) authorized to sign the tender shall also sign in all the pages of the supporting documents with office seal submitted as proof of their eligibility, proof of technical compliance etc. In other words, every page of the bid submitted should have the signature of the duly authorized signatory of the bidder with rubber stamp.

2.9.2. Financial Bid:

- 2.9.2.1. The Financial Bid shall only contain the Price Bid format / BOQ format given in Annexure – V & Schedule 1. It has to be duly filled in, signed and sealed.
- 2.9.2.2. The Rate shall be filled in either typed or written in indelible ink and shall be signed by the person or persons duly authorized to sign on behalf of the bidder.

2.9.3. The bidder shall note that no alternative or counter or qualifying tender conditions by the bidder will be acceptable to IMU KC. Tenders containing any qualifying conditions or even bidder's clarifications in any form may be treated as non-responsive and will run the risk of rejection. In general, printed terms & conditions shall not be accepted.

2.9.4. Bidder who submits more than one tender will be disqualified.

2.10. Cost of Bidding:

The bidders shall bear all costs, efforts or their time associated with the preparation and submission of their bids and the IMU KC will in no case be responsible or liable for those costs / efforts / time, regardless of the conduct or outcome of the tendering process or the cancellation, if any, of tender by IMU KC, due to any reason whatsoever and at any stage of the tender (IMU KC is not responsible, if there is a cancellation even after Financial bid opening).

2.11. Completeness of Tender:

The Bidder is expected to examine all instructions, forms, terms, conditions and deliverables in the tender document. Failure to furnish all information required by the tender documents or submission of a tender offer not substantially responsive in every respect to the tender documents will be at the bidder's risk and may result in rejection of its tender offer. The tender offer is liable to be rejected outright without any intimation to the bidder if complete Information as called for in the tender document is not given therein, or if particulars asked for in the forms / proforma in the tender are not fully furnished.

2.12. Deadline for Submission of Proposals:

Tenders must be submitted through the Central Public Procurement Portal (CPPP) within the last date & time for submission, specified in the abstract. IMU KC may, at its sole discretion extend the date and time for submission of tenders. Any updates with regard to such extension or any other communication intended for the bidders / prospective bidders will be made only through IMU websites along with CPPP. Any tender received after the last date and time for submission of tenders prescribed will be rejected.

2.13. Late Proposal:

Any proposal received by IMU KC after the deadline for submission of proposals prescribed by IMU KC, will be rejected and kept as an unopened Tender.

2.14. Modification and withdrawal of bids:

- 2.14.1. The bidder may be allowed to modify or to submit revised bid due to corrigendum, addendum, etc., issued by IMU KC, any time prior to the last date prescribed for receipt of bids, by giving a written notice to the IMU KC.
- 2.14.2. The bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in a manner similar to the original Proposal.
- 2.14.3. Subsequent to the last date for receipt of bids, no modification of bids shall be allowed. No bid may be withdrawn in the interval between the deadline for submission of bids and expiration of the of bid validity period specified. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security/EMD.

2.15. IMU KC's Right to accept and to reject any or all proposals:

Notwithstanding anything else contained to contrary in this Tender Document, IMU KC reserves the right to accept or reject any Bid or to annul the bidding process fully or partially or modifying the same and to reject all Proposals at any time prior to the award of work, without incurring any liabilities in this regard.

2.16. Rejection of Bids:

The bids will be rejected on following grounds:

- 2.16.1. If any of the eligibility criteria as per the qualification criteria is not met
- 2.16.2. If tender terms and conditions are not met
- 2.16.3. If bidder gives wrong information in the bid
- 2.16.4. Canvassing in any form in connection with the bids
- 2.16.5. If the bid is incomplete /partial bid/ conditional/unclear in any form
- 2.16.6. Bids submitted after due date and time
- 2.16.7. Bids are submitted through Telex/Fax/ e-mail / by way of speed post/ courier
- 2.16.8. Erasure and/or overwriting (if not countersigned by authorized person)
- 2.16.9. Bids not signed by authorized signatory

2.17. Evaluation Process:

- 2.17.1. IMU KC shall evaluate the responses to the Notice Inviting Tenders and all supporting documents / documentary evidence. Inability to submit requisite supporting documents / documentary evidence, may lead to rejection.
- 2.17.2. The interpretation of the bids and the decision made by the IMU KC in the evaluation of responses to the Notice Inviting Tenders shall be final. No correspondence will be entertained outside the process of evaluation with IMU KC.
- 2.17.3. IMU KC reserves the right to request for meetings with the bidders to seek clarifications on their bids.
- 2.17.4. IMU KC reserves the right to reject any or all bids on the basis of any deviations.
- 2.17.5. Each of the responses shall be evaluated as per the criterions and requirements specified in this NIT.

2.18. Tender Evaluation:

- 2.18.1. Technical bids will be opened at the IMU KC, located at the address stated in tender abstract. Any bidder who is willing to observe the tender opening, may, in person or through his authorized representative (maximum one personnel on production of authorization letter), be present at the venue and witness the tender opening.
- 2.18.2. The bidder or his authorized representative who are present shall sign a register evidencing their attendance. IMU KC reserves the right to reschedule the tender opening date (technical / financial bid opening) if the scheduled tender opening day is declared as a holiday for the IMU KC or due to any other administrative reasons which would be published in IMU KC website and such rescheduling may not be communicated individually in any other modes.
- 2.18.3. Technical bid of each bidder shall fulfil the minimum eligibility criteria prescribed in Notice Inviting Tenders.
- 2.18.4. The information furnished by the bidder in Technical Bid in the format(s) prescribed as part of the tender document by IMU KC will form the basis for the technical evaluation. In exceptional cases, IMU KC reserves the right to obtain any clarifications from any of the bidder. If, in the opinion of the IMU KC, information and documents supplied in support of the tender do not meet the minimum eligibility criteria as per Notice Inviting Tenders and the any or some of the technical specifications as per Notice Inviting Tenders, as determined by IMU KC, the tender / product offering will be treated as non-responsive and rejected by the IMU KC and their Financial bid shall not be opened for evaluation. The IMU KC's decision is final and binding, with regard to technical evaluation.

- 2.18.5.** After satisfying that all / or some of the bidders have attained the minimum qualifying technical criteria as detailed above, bids of only such technically qualified bidders i.e. which fulfil all the qualification / eligibility criteria and also comply with the technical specifications, will be considered for further evaluation. A suitable date and time for opening of the Financial Bids will be fixed and those bidder(s) who are technically qualified will be intimated through email about the opening of Financial Bids or alternatively, the date may be published in IMU website / CPPP.
- 2.18.6.** Financial bid evaluation will be made based on Price inclusive of freight and insurance up to dismantling, shifting, re-fixing of old items, delivery, Installation, Commissioning, training, certification of new items and up-gradation of software hardware and comprehensive AMC for 3 years immediately after expiry of 2 years warranty at IMU KC's Campus, excluding applicable GST. IMU KC also reserves right to change quantities before issuing the order, due to exigencies, if any. The destination point for delivery of materials will be as follows:

Quantity in Nos	Consignee
01	The Director, IMU Kolkata Campus, P-19, Taratala Road. Kolkata: 700 088. West Bengal, India.

- 2.18.7. After evaluating the Financial bids, the bidder who quoted the lowest (L-1) Price will be awarded the work.**

3. General Conditions of Contract:

3.1. Execution of Contract:

The successful bidder has to enter in to an agreement with IMU KC incorporating all clauses of the Tender document and any other as may be agreed to by both the parties on a NonJudicial Stamp Paper of INR100/-.

3.2. Termination Clause:

3.2.1. In the event of the breach of any of the provisions of contract by the supplier, IMU KC shall have the right to terminate the tender summarily, at any stage.

3.2.2. In the event of IMU KC terminating the contract for breach by the supplier of any of the provisions thereof, the supplier shall be liable for any loss suffered by IMU KC up to the time of the termination of the contract.

In the event of the supplier's breach of any provision of this contract, resulting in its termination by IMU KC, the supplier shall be held liable for any loss suffered by IMU KC up to the time of the contract termination.

The supplier's liability for losses shall include, but not be limited to, direct damages, costs, and expenses incurred by IMU KC in connection with the breach and termination. IMU KC reserves the right to pursue any other remedies available under law or equity.

The liability of the supplier for losses shall not exceed the total contract value at the time of termination, unless otherwise agreed upon by both parties in writing.

The termination of the contract under this clause shall not waive or affect any other rights or remedies that IMU KC may have under this contract or applicable laws.

Both parties acknowledge the importance of promptly notifying each other of any potential breach and working together in good faith to resolve the issues before resorting to termination."

3.2.3. In the event of the death, insanity or insolvency of the supplier, IMU KC shall have the right to terminate the contract summarily and to purchase in the open market any Goods/ Services covered by the contract. In this case, the supplier shall not be liable for any excess in the price paid, for any such purchases over the tender price.

3.2.4. In the event of failure to carry out the work assigned under the contract to satisfaction on IMU- Kolkata, IMU-KC reserves the right to get the work done through alternative sources, at the risk and cost of the contractor.

3.3. Security Deposit:

3.3.1 The supplier shall be required to submit the performance security in the form of account payee demand draft drawn in favour of Indian Maritime University Kolkata Campus payable at Kolkata or irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount of 10%

of the Purchase Order value within 7 days from the date of receipt of the purchase order and should be kept valid for a period of 90 days beyond the date of completion of warranty period and AMC period. It may also be required to be extended in the event of extension of AMC period.

- 3.3.2 Security Deposit will be refunded / returned without any interest only 90 days after successful completion of warranty period and AMC period. The refund or return of Security Deposit is subject to the complete fulfilment of the contract obligation by the supplier to the satisfaction of IMU KC and after adjustment of dues to IMU KC or penalty imposed by IMU KC.

3.4. Delivery Period:

The entire work will be divided into stages according to the milestones reflected in the Gantt chart. However the following stages are advised.

Stage 1: Dismantling, Shifting and Re-fixing of **some** old items. Bidder is required to finish the job within 30 days from the date of work order at IMU KC Campus.

Stage 2: Bidder is required to deliver, install, testing, certification, commission and starting of operation of the -----New Boiler and associated systems-- - in all aspects within -----180 days--- from the date of work order at IMU KC Campus.

Stage 3: bidder is required to deliver, install, test, certify, commission and start the operation of the -----RO Plant of suitable capacity for Boiler operation, CNG Bank & CNG Supply to the Boiler Burner with Fire detection and Fire Fighting systems --- in all aspects within ----270 days----- from the date of work order at IMU KC Campus.

1. Stage 1 – Advance payment of 10% on placement of the order and submission of PBG
2. Stage 2 – Submission of full Design Project Report including plan of submission of long lead equipment - 10% of payment and Bill of materials.
3. Stage 3 – Dismantling and relocation of the equipment / submission of evidence on placement of order for long lead equipment – 10% of payment
4. Stage 4 – Supply of equipment and materials at IMU Kolkata - 10 %
5. Stage 5 – Setting to work, installation, commissioning, trials / testing – 30 %
6. Stage 6 – Supply of documentation (including detailed system drawings), test and compliance – 5%
7. Stage 7 – Training – 5 %
8. Stage 8 – Acceptance – 20%

Note: IMU-KC reserves the right to witness the Factory Trials / Testing etc of the Boilers or any of the major auxiliary Equipment or Components at the Factory of the OEM prior to dispatch of the same to IMU-KC. The Proposed Trials Procedure / Document formulated by the OEM is to be forwarded to IMU-KC for approval once the L1 is declared. Changes if any, as required by IMU-KC in the Trials Procedure / Document are to be incorporated by the OEM.

3.5. Inspection & Rejection:

The supply shall be subject to inspection by IMU KC and IMU KC's decision as to the acceptance of any equipment or rejection of any equipment / goods as not conforming to specification, shall be final and binding on the successful bidder. Such

of the equipment / goods which are rejected shall be removed by the successful bidder at their own expense and replaced by fresh ones within a time, as determined by IMU KC.

3.6. Liquidated Damages:

If the successful bidder fails to execute the Supply/Works in all respects within the period specified or within such extended period as may be allowed, the successful bidder shall pay a sum equivalent to 0.5% of the value of the total tender price per week (Seven days) or part thereof subject to a maximum limit of 10% of the value of the each of the item tender as liquidated and ascertained damages.

IMU KC shall have the right to determine what the “amount payable/corresponding payment” for any step/activity is, and while the Successful Bidder has a right to represent/clarify, IMU KC’s determination of the same shall be final without prejudice to the Successful Bidder’s rights to seek alternative remedy through arbitration/Courts.

3.7. Comprehensive Onsite warranty:

3.7.1. A comprehensive onsite warranty for the supplied equipment shall be provided by the supplier for a minimum of two year from the date of final acceptance of the equipment by IMU KC. The supplier will be notified of any defect or claim arising under this warranty and the warranty support shall be provided at site of IMU KC Campuses.

3.7.2. If the supplier having been notified fails to rectify the defect within 7 days, IMU KC may proceed to take such remedial action as may be necessary at the supplier’s expense. The period that the equipment is out of commission / operation as a result of supplier’s failure to rectify the defects notified shall result in extension of the warranty period correspondingly and imposition of penalty **(Rs. 20000/- per instance which will be adjusted from the Security Deposit or any other dues to the supplier).**

3.8. Comprehensive Onsite AMC:

3.8.1. Comprehensive maintenance for 3 years is to commence immediately after the expiry of the comprehensive warranty period.

3.8.2. The supplier shall provide necessary comprehensive preventive and corrective maintenance on site i.e. by sending the engineer to the IMU KC Campuses for attending the maintenance requirements of the supplied equipment. In case of intimation of breakdown, the equipment should be restored to normal working condition within a maximum of 7 working days during the period of maintenance. All spares which need replacement during the period of onsite maintenance are to be replaced without any additional cost. Any exception required with regard to the spares to be replaced to be intimated during the pre-bid meeting or by email within 15 days of notification of the tender to the above said email addresses. The conditions specified for warranty may also be applied by during AMC period and vice-versa.

3.8.3. In addition to above, support should also be available by phone, e-mail to solve the problem as soon as possible during the period of Warranty and Annual Maintenance

3.8.4. Contract. He shall have an office with sufficient service engineers trained to provide support services. The Bidder shall also have sufficient spares on hand for providing the uptime as indicated in this tender.**In this connection, the OEM may ensure that essential and ready use Spares are supplied as an integral part of the Equipment Supply together with the Document listing the Spares so supplied integral with the Equipment.**

3.9. Payment Terms:

- 3.9.1.** The Supplier shall be paid in stages as per the completion of the entire work highlighted in point number 3.4. Payment will be carried out against the invoices produced by the vendor after each stage of completion of work / as per payment schedule reflected in 3.4. IMU KC will, after verification of the claim for its correctness, make payment within **15 days** after the date of receipt of the claim, complete and correct in all respects, from the supplier.
- 3.9.2.** The Tax Invoice raised by the supplier must be in compliance of relevant GST acts, rules & notifications made there under and should bear the **IMU KC GST Registration no. 19AAAI2610K1ZU**. The rate and amount of CGST, SGST, IGST and GST (Compensation to State) cess, related to supply of goods, shall be shown separately in tax invoice for each item of supply.
- 3.9.3. Statutory variation:** If there is any statutory change in CGST & SGST or IGST within contractual delivery period, the same shall be admissible and will be paid at actual based on the documentary evidence. However, no upward revision in the same beyond original delivery period shall be admissible.

3.10. Ownership of License:

Licenses for all the software including Anti-Virus supplied along with the equipment under the scope of supply shall be in the name of respective Campus of IMU KC. All documents and reports prepared or obtained in procuring the items of this tender (Inclusive of necessary software, electronics and personal Computer) shall become and remain the property of IMU KC.

3.11. Secrecy:

The Supplier shall not transfer any part or share of his responsibilities directly or indirectly to any person whomsoever without the written consent of IMU KC.

3.12. Force Majeure:

- 3.12.1.** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 3.12.2.** For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, earthquakes, meteorite strike, quarantine restrictions and freight embargoes.
- 3.12.3.** If a Force Majeure situation arises, the Supplier shall promptly notify the IMU KC in writing of such conditions and the cause thereof. Unless otherwise directed by the IMU KC in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

3.13. Indemnity:

The selected bidder shall indemnify IMU KC from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind

how-so-ever suffered including patent, copyright, trademark and trade secret, arising or incurred during and after the Contract period out of:

- 3.13.1. Negligence or wrongful act or omission by the Selected Bidder or its team or any Agency/ Third Party in connection with or incidental to this Contract; or
- 3.13.2. Any breach of any of the terms the Selected Bidder's Proposal as agreed, the Tender and this contract by the Selected Bidder, its Team or any Agency/ Third Party.
- 3.13.3. Bidder (the "Indemnifying Party") undertakes to indemnify the client (the "Indemnified Party") from and against all losses, claims for damages including losses, claims for damages on account of bodily injury, death or damage to tangible.
- 3.13.4. The indemnity shall be to the extent of 100% of project cost in favour of the IMU KC.

3.14. Arbitration & Jurisdiction:

In the event of disputes, differences, claims and questions arising between the parties hereto arising out of this Agreement or anyway relating hereto or any term, condition or provision herein mentioned or the construction or interpretation thereof or otherwise in relation hereto, the parties shall first endeavour to resolve such differences, disputes, claims or questions by mutual discussion and failing such settlement, the same shall be referred for arbitration by a sole Arbitrator appointed by IMU KC / IMU HQ. Such arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act 1996 or re-enactment thereof for the time being in force and shall be held in Kolkata. In case the Arbitration award is not acceptable to either of the parties, they may approach courts having jurisdiction at Kolkata only.

3.15. Applicable Law:

The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction of Kolkata Courts only.

3.16. Code of Integrity:

The bidders/suppliers should sign a declaration about abiding by the Code of Integrity for Public Procurement in biddocuments. In case of any transgression of this code, the bidder is not only liable to be removed from the list of registered suppliers, but it would be liable for other punitive actions such as cancellation of contracts, banning and blacklisting or action in Competition Commission of India, and so on.

3.16.1. Code of integrity for Public Procurement: The Purchaser as well as bidders, suppliers, contractors and consultants should observe the highest standard of ethics and should not indulge in the following prohibited practices, either directly or indirectly, at any stage during the procurement process or during execution of resultant contracts:

- i) "Corrupt practice": making offers, solicitation or acceptance of bribe, rewards or gifts or any material benefit, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process or contract execution;
- ii) "Fraudulent practice": any omission or misrepresentation that may mislead or attempt to mislead so that financial or other benefits may be obtained or an obligation avoided. This includes making false declaration or providing false information for participation in a tender process or to secure a contract or in execution of the contract;
- iii) "Anti-competitive practice": any collusion, bid rigging or anti-competitive arrangement, or any other practice coming under the purview of the Competition Act, 2002, between two or more bidders, with or without the knowledge of the purchaser, that

- may impair the transparency, fairness and the progress of the procurement process or to establish bid prices at artificial, non-competitive levels;
- iv) “Coercive practice”: harming or threatening to harm, persons or their property to influence their participation in the procurement process or affect the execution of a contract;
 - v) “Conflict of interest”: participation by a bidding firm or any of its affiliates that are either involved in the consultancy contract to which this procurement is linked; or if they are part of more than one bid in the procurement; or if the bidding firm or their personnel have relationships or financial or business transactions with any official of purchaser who are directly or indirectly related to tender or execution process of contract; or improper use of information obtained by the (prospective) bidder from the purchaser with an intent to gain unfair advantage in the procurement process or for personal gain; and
 - vi) “Obstructive practice”: materially impede the purchaser’s investigation into allegations of one or more of the above mentioned prohibited practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/or by threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding the purchaser’s Entity’s rights of audit or access to information;

3.17. Joint Venture, Consortium or Association: If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

4. Special Conditions of the Tender:

4.1. Site Preparation:

The supplier shall visit the IMU KC Campus and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements. The operating environment is Tropical condition in our marine workshop.

4.2. Supply of Equipment:

The supply shall include complete set of equipment including accessories and spares as described in the subsequent paragraphs of the “Technical Specification” (Annexure I)

4.3. Installation, Demonstration and User Acceptance Testing:

4.3.1. The supplier is required to do the installation and demonstration of the equipment as per the prescribed period mentioned in clause number 3.4, and meet the required technical standards during operation, otherwise the penalty clause will be the same as per the supply of materials.

4.3.2. The successful Bidder shall depute their Service Engineer for demonstration or calibration of the equipment. The Service Engineer shall demonstrate operation of equipment to the satisfaction of respective IMU KC Campus. IMU KC may request to demonstrate the functioning of the equipment, after installation, by asking to perform a few experiments and verification of the results either by theoretical or other practical means.

4.3.3. In case of any mishap /damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. IMU KC will not be liable to any type of losses in any form.

4.3.4. The demonstration proposed to be done by the bidder in proof of correct working of the entire set up both individually and as an integrated system has to be specified in the technical bid format in Annexure. Such demonstration should be acceptable to IMU KC. If the demonstration proposed by the bidder is not acceptable to IMU KC, at its discretion either reject the tender or alternatively ask the bidder to do some other demonstration which found by IMU KC, to be more appropriate.

4.4. Inspection and Tests:

The compliance of the equipment with the requirements mentioned in Technical specifications and elsewhere in Tender document should be verifiable with supporting documents like OEM’s manual, Certification from OEM / Competent Authority etc. the certificate should be valid.

4.4.1. The above tests shall demonstrate the satisfactory operation of integrated system covering the full range of facilities of the entire set of equipment.

4.4.2. The acceptance tests for supplied goods shall be carried out at IMU KC by the supplier with the participation of concerned personnel from IMU KC.

- 4.4.3. In case of the acceptance tests are not concluded to the satisfaction of IMU KC the supplier shall repair or replace, at the supplier's cost, the whole or any part of the equipment as may be necessary for conclusion of the acceptance tests to the satisfaction of IMU KC within the reasonable period agreed by IMU KC. Demonstration of performance of the equipment should be done after such repair / replacement for acceptance of IMU KC.
- 4.4.4. IMU KC reserves the right to accept the delivered items with deviations, provided the supplier agrees to rectify the deviations within an acceptable time period. Regarding the acceptance date, decision of IMU KC would be final.
- 4.4.5. The supplier shall provide necessary consumables till the completion of acceptance testing, without any additional cost.
- 4.4.6. The All parts and equipment should be brand new and unused. Refurbished items shall not be provided.
- 4.4.7. The equipment shall be robust for academic/industrial use and shall have to produce results with accuracy, as determined reasonable by IMU KC.

4.5. Availability and supply of Spare Parts:

The Supplier may be required to provide any or all the notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- 4.5.1. Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- 4.5.2. In the event of termination of production of the spare parts:
- 4.5.3. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
- 4.5.4. Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.
- 4.5.5. Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods. Other spare parts and components shall be supplied as promptly as possible but in any case within one month of placement of order.
- 4.5.6. The Successful Bidder shall stand guarantee for the supply of spares of all the equipment under the scope of supply for a minimum period of 10 years from the date of awarding the contract and also guarantee that discontinuity of production of any item offered as a part of the system shall not affect the maintainability of the system for a period of 10 years from the start date of operation.

4.6. Replacement of Defective Equipment:

If any of the equipment supplied by the supplier is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the IMU KC will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the supplier with 18% interest if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 30 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, IMU KC may consider 'Debarring' the supplier and any other remedies, as deemed fit by IMU KC.

4.7. Supply of Manuals & Drawings and other items:

- 4.7.1. Three Sets of operation and maintenance instruction manuals should be given to IMU-KC. Manuals should clearly cover Description of Equipment and its sub-assemblies, Operation, Starting and Stopping procedure, Safety systems, Maintenance, Defect Rectification and Spare Parts list in detail.
- 4.7.2. Complete technical and functional specifications, operation and maintenance manual for each hardware / cards on the equipment with part numbers and model de-codification documents, to be supplied in original, photocopy is not acceptable.
- 4.7.3. Complete engineering details and detailed drawings of each system as required for the purpose (experiments and research) the equipment's are bought.
- 4.7.4. Complete system wiring details, input, output, layout details as applicable to the scope of supply.
- 4.7.5. Operation and maintenance manuals and detailed drawings for the scope of supply including computers, Data Acquisition Units, interface devices, electronic circuits, electric modules etc. (to be supplied in original, photocopy is not acceptable)
- 4.7.6. The party shall provide proper license for any software or PLC program (including Windows, PC- Motherboard drivers (as applicable to the supplied electronic data acquisition units), and any other software as required for normal operation of the crane.
- 4.7.7. One set of service agents and depots lists shall be supplied along with the equipment.
- 4.7.8. 2 sets of cut – out sections of all the Boiler Mountings, Burner and other components to be provided, alongwith one cut section model size 2.5 x 2 feet Boiler for training purpose.
- 4.7.9. Minimum requirement of spare parts sufficient for two years of normal trouble-free operation shall be quoted by the bidder in the Spare Parts Schedule. However, the bidder is expected not to fall back on the Purchaser stocks (for such replacements) for meeting damage or commissioning shortfalls.
- 4.7.10. In addition to the Manuals given by the Manufacturers, the successful Bidder shall prepare full documentation.

4.8. Documentation:

- 4.8.1. The successful bidder shall provide IMU KC with necessary documents including the following:
 - 4.8.1.1. Operational and Maintenance Manuals of equipment, alongwith detailed drawings of Equipment, assemblies, sub-assemblies, systems; Electrical wiring diagrams of panels, starters and control system.
 - 4.8.1.2. Equipment serial numbers and models.
 - 4.8.1.3. Test Certificates, Licenses if any. Certificates from authority during manufacturing
 - 4.8.1.4. Manuals and Certificates of all materials and components.
 - 4.8.1.5. Acceptance test results and acceptance statuswith certification from authority.
 - 4.8.1.6. Training Material.
 - 4.8.1.7. Full documentation with the software.
- 4.8.2. 3 sets of hardcopy of the above shall be handed over to nominated personnel of IMU KC. Soft copy of the documents shall also be provided where applicable. Handing over of documents to IMU KC by supplier is a pre-requisite for Acceptance.
- 4.8.3. Manuals for the instruments are to be supplied with respect to operation, maintenance, ordering spares / technical services.

4.9. Training and Support:

- 4.9.1. The supplier shall impart training to four persons of IMU KC Campus part installation. The training shall be imparted in a phased manner without disrupting the working of the each set. The training will be conducted as and when software/hardware upgraded or any other parameters altered by the Manufacturer/Supplier. Periodical refresher training may need to be imparted.
- 4.9.2. The supplier shall make his own arrangements for supplying training material, equipments required for training etc.
- 4.9.3. IMU KC Campuses will provide necessary space, infrastructure free of cost for conducting the training.
- 4.9.4. The training provided by the supplier shall cover:
 - a) Operation of the equipment along with course/reference material for each individual.
 - b) Operational level training along with course/reference material for each individual.
 - c) Fault Finding and planned/ routine maintenance training.
 - d) Emergency Operation.
 - e) Ordering spares.
- 4.9.5. On completion of training, the supplier shall submit an evaluation report on the participants along with course details.
- 4.9.6. Completion of training is a pre-requisite for acceptance of the equipment.
- 4.9.7. All charges pertaining to the training shall be part of the Financial bid.
- 4.9.8. Support the operators (all campuses of IMU KC as applicable) through help desk (online plus telephonic support) and visits to the sites (at his own cost) as may be required. The number of visits may be specified in the pre-bid meeting if any questions are raised on this.
- 4.9.9. Indicate willingness to arrange for visit by a team from IMU KC to any of the existing installations and share the contact details of the key personnel of that institution.

4.10. Acceptance of Equipment:

- 4.10.1. The activity shall deem to have been completed with the completion of the entire scope of work regarding this tender at IMU KC. However, the completion shall be fulfilled only upon certification to this effect issued by IMU KC's Consignees i.e. the Director – IMU KC.
- 4.10.2. Upon completion of Supply / work and after successful completion of other prerequisites like acceptance testing, certification, Training etc., as prescribed in this document, IMU KC shall receive a written undertaking from the supplier that the supply / works have been completed and accordingly a certificate of completion would be issued in respect of the supply/works. The warranty period for the supplied system would commence from the date of Acceptance by IMU KC. **Standards proposed to be followed in preparation of the Documents are to be specified in the Bid. If IETM is followed, the Level should be mentioned in the Bid.**
- 4.10.3. The equipment should meet necessary local & national administration requirements with regard to safety of people. Necessary certificates must be provided validated by a competent body.
- 4.10.4. IMU may request a safety tests at site and full functionality demonstration on successful completion of the works.
- 4.10.5. The vendor apart from submitting valid documents and certificates to comply with safety norms / working practices as required by Govt. Of India / Govt. Of West Bengal, should also demonstrate working of the various safety interlocks upon installation.

4.11. Bidder's Representations And Warranties:

The selected bidder has to confirm to the IMU KC that:

- 4.11.1. He has the capability to duly perform its obligations in accordance with the terms of the tender and to the satisfaction of the IMU KC. However, that the IMU KC's judgment in this regard shall be final and binding on the Bidder.
- 4.11.2. The execution of the Removing of old systems, reinstallations, Supply, Installation, Commissioning, Training, certification, warranty, AMC and putting in to operation of "**Vertical Boiler Suitable for Marine Application and Associated Systems**" at IMU KC Campus by the Bidder does not and will not violate, breach any covenants, stipulations or conditions of any Agreement, Deed entered into by the Bidder with any third parties.
- 4.11.3. Bidder shall abide by all laws of the land including, Companies Act, Taxation laws, and all other statutory and other obligations applicable to this contract for supply and IMU KC will not be responsible non-compliance, if any by the supplier, in any way what-so-ever.
- 4.11.4. Provide the software updates free of charge under Warranty and AMC.

4.12. Bidder's Covenants:

- 4.12.1. The Goods/ Services to be supplied by the bidder shall be of the quality or sort specified and in every respect equal and answerable to the specifications sent with the tender and shall be subject to the approval of the IMU KC.
- 4.12.2. Supply, Installation, Commissioning, Training and putting in to operation of "**Vertical Boiler Suitable for Marine Application and Associated Systems**" at IMU KC is to be completed, free of delivery charges as per specified time on Door delivery basis.
- 4.12.3. Rejected Goods shall be removed by and at the expenses of the bidder within seven days after notice. If not taken away so, the IMU KC may seize the goods or remove the materials on its own and charge the bidder with all expenses incurred on such removal.
- 4.12.4. Any notice to the successful bidder shall be deemed to be sufficiently served, if given or left in writing at his usual or latest known place of business or sent to the email address specified in the bid submitted.
- 4.12.5. In these conditions unless there is something in the subject or context inconsistent there with words importing the singular shall include the plural and vice-versa words importing the masculine gender shall include the feminine and the words importing persons shall include bodies corporate/firms etc.
- 4.12.6. Bidders should arrange for their own means/aids for receiving, handling, storing, assembling, and any other incidental procedures till final installation commissioning and training.

Director

5. Technical Specification and Scope of Work

Note: All the items must meet the required criteria, technical and statutory compliance unless otherwise stated explicitly.

OVERVIEW OF SCOPE OF WORK AND SUPPLY:

1. Site visit and re-assessment of scope of supply:
 - a. Remove and clear the existing boiler and check system integrity and compatibility.
 - b. Buy back and removal of the old boiler, 3 Pass Horizontal Smoke Tube Package Boiler equipment and systems (identified under section 5.1.1) – The removal of systems pertains only to the horizontal composite boiler in the location and not the other old equipment.
 - c. Relocation of existing 3 drum arrow boiler to the designated boiler as specified by the IMU during the site visit.
2. The quality and project plan should be prepared by the bidder defining the activities to be performed, the timelines and deliverable items. The bidder should provide a Gantt chart indicating the:
 - a. Project milestones
 - b. Project activities
 - c. Start and end of each activity
 - d. Complete Short Time Work document
3. Boiler with all its auxiliaries
 - a. Boiler and its mountings with necessary documents with respect to technical specifications and compliance certification.
 - b. Burner assembly –compatible with dual fuel mode along with documents with respect to technical specifications, performance and compliance certification.
 - c. Dual fuel system and components / fuel train
 - d. Electrical supply 440V 3Phase 50 Hz with backup power and safety system / with switchboard provided with industrial safety and process parameter monitoring / isolation
 - e. Ventilation and air supply
 - f. Fire safety systems, equipment and components as required to meet safety and compliance standard.
 - g. Process components / systems such as safety valves, control valves, stop / isolation valves, auxiliary valves, soot blow, scum and bottom blow valves, level gauges, compressed air and such items required for smooth operation and training on boiler and steam system. Complying with ASME / Process code
 - h. Automation system and components
 - i. Instrumentation and controls components including pressure gauges, temperature gauges, pressure, temperature and flow transmitters and sensors.
 - j. RO – Plant for feed generation with quality standards of performance as per requisite Indian standards
 - k. Boiler water chemical dosage and sampling system. Test kit and testing apparatus with chemicals and consumables for at least 300 tests.

- l. The feed quality and chemical dosing / testing should meet the Indian standards IS 10496 (1983) as amended and as per IS 4343(1983) as amended.
- m. Exhaust treatment system – water scrubber system
- n. Continuous Emission Monitoring Equipment – as per IMO MARPOL standards – as amended
- o. Boiler efficiency monitoring system – PLC based
- p. Foundation, structural supports and 360 deg. Platform for operation and maintenance and ladders
- q. One set of spares of essential items – The bidder should specify
- r. One set of spares for training – we will have to specify or other training aids including sketches cut sections and such
- s. Tools, appliances and measuring equipment for carrying out essential maintenance of soot blowers, tube cleaning, burner routines, gauge glass maintenance, electrical and automation system maintenance, isolation and shutdown. Lockout / tag outs with safety / hazard warnings.
- t. Compliance with West Bengal and Indian laws
- u. Class Certification as per IRS (Indian Register of Shipping) or equivalent classification society.
- v. System integration with the existing steam system after safety checks
- w. Installation, commissioning and training including pressure vessel testing and a test of all safeties.
- x. AMC for three years after completion of warranty period on the scope of supply and assurance for continued supply of spares for the next 10 years
- y. The scope also includes transit insurance, packaging and forwarding, transportation, unloading, shifting to site, erection and commissioning assistance, site acceptance,

TECHNICAL SPECIFICATIONS:

Indian Maritime University Kolkata intends to procure one number new unused Vertical Dual Fired (Oil and Gas) Boiler suitable for Marine application and certified by IACS member classification society. Boiler capacity 5 Tons / hour of dry saturated steam generation, continuous rated, at a working pressure of 7 barg pressure (detail requirement mentioned henceforth in respective places) with burner, fuel, air, water and exhaust systems. The boiler must be fitted with pressure jet atomizing burner assembly with complete combustion, fuel, air, water and process parameter system automation. The boiler must include a PLC touch screen operating panel providing operator with complete control of start up, firing, shutdown and isolation operations.

1. This is a comprehensive tender including the following line items:

- a. Site visit for scope of works, check the existing steam system, ensure pipe line quality for continued usage, check safety fitments in the pipeline.
- b. Removal of existing boiler, its accessories and other old unused parts in the area to create space for installation, test and commissioning a new working boiler.
- c. Removal of the pipeline, fittings, gauges, instrumentation, safety and shutdown systems that are established during the site visit testing.
- d. Providing new pipelines, fittings, isolation, gauges, instrumentation, safety and shutdown.
- e. Provide insulation, access to pipeline fittings.

- f. Integrate the boiler into existing steam service system.
- g. Provide for compliance with the Directorate of Boilers, West Bengal for the new boiler & system.
- h. The boiler must have soot blowers with steam jet and must also provide for water washing of the furnace side heat transfer fittings.
- i. The exhaust system must have emission control techniques and continuous measurement system as per maritime standards that includes – monitoring of O₂, CO₂, soot, unburnt hydrocarbons, NO_x, SO_x, CO gases. There shall be a soot collection tank for separation of furnace side water washing.
- j. The installation must come with appropriate fire fighting systems, fire detection systems and automatic fire fighting systems installed in the area.
- k. Foundation, structural support, raised platforms with access ladders / hand rails for normal operation, inspection and maintenance
- l. Electrical, water, air systems that are required for normal operation, safety and shutdown with lock out tag outs, isolation, process parameters display, complying with requisite IEC / Marine International standards.
- m. Alarm & Automation systems – audio / visual with storage for at least 30 days.
- n. One set of software with license valid for twenty years with recovery disks and procedures for reinstallation including upgrades for the time span. This shall apply to all process, automation, safety and shutdown, monitoring and control electronic equipment
- o. Carryout trial runs and demonstrates safeties & shutdown both at factory and at IMU.

The factory tests may be witnessed by IMU representatives.

- p. Supply the critical spares required to ensure boiler operation.
- q. Supply the following documents / manuals (3 hard copies and soft copies):
 - i. Complete operational test of the equipment with FAT (Final Acceptance Test & witness by designated persons of IMU) reports.
 - ii. Operational Manual for all systems and components supplied
 - iii. To specify additionally the cost of supplying IETM documents
 - iv. Maintenance Manual for all systems and components supplied
 - v. GA Drawings
 - vi. P&ID schemes
 - vii. Civil drawings
 - viii. As built drawings for all systems viz. Electrical, Controls, Mechanical and Process systems
 - ix. Instrumentation and logic diagram with PLC application software and license.
 - x. All test certificates for materials and components
- r. Conduct training for the IMU Kolkata staff and students in the operation, routine checks, safeties, maintenance and shutdown operations. Hands on training for 3 days for 100 people are to be provided. The training schedule should be mutually be finalized.
- s. The bidder has to submit the under taking for providing the after sales service and other supports for the period of at least 10 years.
 2. The equipment should meet necessary local, national and international administration requirements with regard to safety of people. Necessary certificates for Operation must be provided validated by a competent body. It shall be in accordance with the latest revision of the Indian Boiler Regulations 1950, Act 1923.
 3. All weld joints shall be as per the ASME code or equivalent Indian Standard

4. Thermal efficiency on oil and gas should meet the relevant mandatory and must be stated as per recommended standards such as BS 845. It must be constructed to generate steam at a minimum efficiency of 88% on net NCV in oil fuel and a minimum of 90% efficiency in case of gas mode.
 5. The insulated cylindrical shell of the boiler shall be cladded with Aluminium and housed in cover frame. Therefore, the top of the boiler serves as platform and facilitates ease of movement for maintenance at elevation. A movable ladder shall be provided which can be moved as per convenience.
 6. IMU may request a full functionality demonstration on successful completion of the works.
 7. The standard references were made w.r.t to IBR Standards. Equivalent DIN / JIS / ISO Standards / ASME standards are acceptable.
 8. Only OEMs and their authorized resellers are permitted.
9. MOST IMPORTANT: The space for the proposed New Boiler would be available after dismantling the Old Boilers and accessories. Bidders are requested to visit the plant at Indian Maritime University, Kolkata Campus, before quoting & submitting the offer to get acquainted with the availability of space and other constraints in discussion with Faculty In-charge of Workshop. Bidders are required to propose schematic layout/drawings during presentation if called for. Also the dismantling activity and commissioning activity should be at the quickest possible time. The existing feed water details to be studied by the vendor before submitting the offer if need be. IMU KC currently uses boring water to.

Sl No		Remarks
5.1	Dismantling, Shifting and Reinstallation of old setup	<p>Shifting of all the above equipment at the designated place in the IMU Kolkata workshop premises also need to be completed before actual installation of new Boiler commences.</p> <p>Bidders should note that the actual scope of dismantling will only be confirmed after site visit.</p> <p>This may take multiple numbers of site visits during and after the prebid meeting.</p>
5.1.1	<p>Introduction: IMU Kolkata Workshop is having an Existing Set Up of 4 non-functional boilers which are listed below:</p> <ol style="list-style-type: none"> 1. Marine Scotch Boiler. 2. Marine Three Drum Yarrow Boiler. 3. Marine Foster Wheeler D Type Boiler. 4. 3 Pass Horizontal Smoke Tube Package Boiler. <p>Out of the above list, the existing 3 Pass Oil fired Horizontal Smoke Tube Package Boiler ((Dry Weight 6 Tons) will be in the buyback process and a Three Drum Yarrow Boiler (Dry Weight 8 Tons) with all mountings dismantled, shifted and reinstalled to a designated place as allotted by the IMU Kolkata Campus which is approximately 150 meters away from existing location.</p> <p>The above Boiler will be fixed after making concrete base of height of 300 mm with necessary grouting to hold the Boilers firmly on the base.</p>	
5.1.2	Removal and shifting to a designated place of old fuel systems including burner assembly with Forced Draft Fan for the Boilers	
5.1.3	Removal and shifting to a designated place of existing feed system and feed control including cascade tank and feed pumps	
5.1.4	Removal and shifting to a designated place of existing all electrical connections and panels and secure them.	
5.1.5	Removal and shifting to a designated place of existing Alfa Laval Purifier and associated system including Electrical Panel.	

Sl No		Remarks
5.2	Technical Specification of New Boiler	
	Introduction: IMU-Kolkata Campus wishes to install 5TPH Oil and CNG fired Vertical Saturated Steam Boiler suitable for Marine application which will be connected to Common Steam Distribution Header for supply of steam to existing Steam Turbine Plant, Steam Engine and other necessary places as required to impart training to cadets under B. Tech Marine Engineering Course.	
5.2.1	Coverage: This specification covers the design, manufacture, delivery at site, erection, testing, commissioning and performance test, demonstration, training and Certification of :	
5.2.2	5 TPH Dual Fired Vertical Boiler suitable for Marine application with all mountings and fittings.	Marine Classification Society to satisfy
5.2.3	A Common Steam Distribution Header for supplying steam to different units.	Marine Classification Society to satisfy
5.2.4	Main Steam supply piping from Boiler to Header.	
5.2.5	Boiler Feed Water System with all necessary pipelines and Feed water pumps.	
5.2.6	Reverse Osmosis Plant with Cascade Tank including pipelines to transfer water from RO Plant.	
5.2.7	Chemical Dosing System for the Boiler Feed Water to maintain correct water quality.	Marine Classification Society to satisfy
5.2.8	A suitable burner capable of firing in Diesel Oil and Gas mode.	Marine Classification Society to satisfy
5.2.9	Boiler Fuel Oil System with existing elevated Diesel Oil Tank with suitable filling and distribution system up to the Burner.	Marine Classification Society to satisfy
5.2.10	A Gas Storage System with suitable filling and distribution system up to the Burner	Marine Classification Society to satisfy
5.2.11	Proper insulation of hot surfaces of pipelines including steam and feed water lines.	Marine Classification Society to satisfy
5.2.12	All safety measures, cut outs, trips as per statutory requirement.	Marine Classification Society to satisfy
5.2.13	Painting of all components, equipment, boiler etc.	Marine Classification Society to satisfy
5.2.14	Proper insulation with casing of Boiler as per statutory requirement.	Marine Classification Society to satisfy
5.2.15	Boiler Dump Condenser (with proper insulation and painting) of suitable capacity related to the Boiler with cooling water circulation system with suitable pumps.	Marine Classification Society to satisfy
5.2.16	Cascade tank of proper size with all accessories (alarms, sight glass, level indicator etc.) including filling and overflow line.	
5.2.18	Boiler water testing kit.	Preferably used for Marine application, Unitor, Rochem, Wilhelmsen.
5.2.19	All related electrical equipment, cabling, protection and instrumentation & control, for the boiler in scope.	Marine Classification Society to satisfy

SI No		Remarks
5.3	<p>Codes and Standards: The design, manufacture, testing, commissioning and performance test of the Boiler and Accessories shall comply with the requirements of applicable Indian / British / American (ASME) / DIN Standards, & meeting requirements of Marine Classification Society and IBR Regulations with all the amendments till date. It should be tested and proven under rigorous conditions and subject to the strictest quality control procedures.</p> <p>All materials used shall be approved and tested as per relevant existing codes. All the welded joints shall be as per code requirement.</p>	
5.3.1	Criteria for Earthquake Resistant – Design of Structures	IS 1893
5.3.2	Code of unfired pressure vessels	IS 2825
5.3.3	Rules for construction of power boilers	ASME Section I
5.3.4	Welding & Brazing Qualifications	ASME Section IX
5.3.5	Steam Generating Units – ASME PTC 4.4	ASME PTC 4.1
5.3.6	Water and Steam in the Power Cycle (Purity and Quality, Leak detection and Measurement)	ASME PTC 19.11
5.3.7	Safety and Relief Valves	ASME PTC 25.3
5.3.8	Indian Boiler Regulations	1950, Act 1923
5.3.9	Fire and safety regulations, as per statutory requirements.	
5.3.10	Other codes as applicable	
5.3.11	Supporting structural system	IS 800 / 2007

SI No		Remarks
5.4	<p>Boiler Type: Oil and Gas Fired Vertical Boiler for Marine Application</p>	
	Location of Boiler installation	Indian Maritime University, Kolkata Campus, P – 19, Taratala Road, Kolkata 700088
5.4.1	Net Steam Output at the Boiler Main Steam Stop Valve (MSSV) at MCR	5000 Kg / hr
5.4.2	Steam outlet Pressure – Working pressure	7 Kg/cm ²
5.4.3	Drum Pressure	7 Kg/cm ²
5.4.6	Feed water Temperature	80 Deg C
5.4.7	Reference temperature	Ambient temperature
5.4.8	Relative Humidity	95%
5.4.9	Back End Temperature	Vendor to specify
5.4.10	Boiler efficiency	Vendor to specify
5.4.11	Mode of Firing	Dual Mode, Oil & Gas (as per present marine standard)
5.4.12	Control with possibility of manual firing mode	Fully automated system (PLC Control with suitable Human Machine Interface)
5.4.13	Emission levels	As per WBPCB Standards, West Bengal / CPCB
5.4.14	Design Code	IBR1950 and ASME with latest amendments

5.4.15	Compressed air requirement (if applicable)	Vendor to specify
5.4.16	Type of Fuel to be used	Compressed Natural Gas (CNG) and High Speed Diesel (HSD)
5.4.17	Automatic Water Level Control System	3 element Drum Level Control
5.4.18	Max and Min ambient temperatures	52 deg C / 10 deg C
5.4.19	TDS of feed water(After treatment)	Should be < 5PPM in Cascade Tank to comply with IS 10496 (1983) as amended and as per IS 4343(1983) as amended.
5.4.20	The boiler shall be designed and constructed to generate steam at efficiency of 85% on Net calorific value (NCV) basis. Efficiency shall be demonstrated as per standard BS – 845 Part 1 Indirect methods / direct method whichever is less.	
5.4.21	The boiler shall not require any special foundation for the boiler and its mountings/fittings. It should be able to be mounted on simple RCC foundation.	
5.4.22	These tubes should be easily accessible for easy inspection and maintenance. These tubes are to be tightly expanded in the tube plate and seal welded. The tubes should be seamless & strength-welded to tube plates..	
5.4.23	Access to the combustion chamber is also required for inspection and maintenance.	

SI No		Remarks
5.5	Boiler Mountings: Boiler should be provided with all necessary mountings and fittings as per IBR requirement. A list of such requirement is provided below for guidance only. It is an indicative list.	Bidder may provide extra items as required. All mountings should be tested and certified by any recognised Marine Classification Society. Original Certificates should be submitted during supply of items
5.5.1	Reflex Type Level Gauges (Direct mounting)	2 nos
5.5.2	Main Steam Stop Valve	1 nos
5.5.3	Steam Drum Safety Valves as per standard	2 nos
5.5.4	Pressure Gauge to measure steam pressure in steam drum (local)	1 nos
5.5.5	Pressure Gauge to measure steam pressure in steam drum (remote)	1 nos
5.5.6	Feed Check Valves with isolation valves for individual feed lines (2 sets for 2 feed pumps)	2 sets
5.5.7	Drum Level Transmitters	2 sets
5.5.8	Automatic Water Level Controller with alarms & trips system (MOBREY)	2 set
5.5.9	Manually operated isolation valve for Continuous Blow Down (CBD) valve for Water Drum	1 nos
5.5.10	Manually operated isolation valve operated isolation valve for Intermittent Blow Down (IBD) valve for Water Drum	1 nos
5.5.11	Manually operated Scum blow down valve for Continuous Blow Down from steam drum	1 nos

5.5.12	Manually operated Scum blow down valve for Intermittent Blow Down from steam drum	1 nos
5.5.13	Isolation valves for sampling with sample coolers.	As per requirement
5.5.14	Suitable elliptical manhole for each Water Drum and Steam Drum for man entry to be provided.	1 nos each
5.5.15	Provision also to be given for man entry in Furnace side.	1 nos
5.5.16	Isolation valves for individual level gauges	As per requirement
5.5.17	Root valve for individual level gauges	As per requirement
5.5.18	Drain valve for water individual level gauges	As per requirement
5.5.19	Isolation valve for pressure gauges	As per requirement
5.5.20	Three-way valve for local pressure gauge	As per requirement
5.5.21	Isolation valve for individual level transmitter	As per requirement
5.5.22	Root valve for individual level transmitter	As per requirement
5.5.23	Drain valve for individual level transmitter	As per requirement
5.5.24	Air Vent Valve	1 nos
5.5.25	Root valve for air vent	1 nos
5.5.26	Isolation valve for auxiliary steam	1 nos
5.5.27	Root valve for auxiliary steam	1 nos
5.5.28	Isolation valve for HP dosing inlet	1 nos
5.5.29	Check valve for HP dosing inlet	1 nos
5.5.30	Steam Pressure Transmitter at Steam Drum	1 nos
5.5.31	Furnace Pressure Transmitter	1 nos
5.5.32	Thermocouple to measure flue gas temperature at furnace and flue gas outlet.	1 nos
5.5.33	O2 and CO2 concentration analyser at flue gas outlet.	1 nos

SI No		Remarks
5.6	Boiler Feed Water System: Feed water system will consist of Cascade Tank, Feed suction piping from cascade tank joints to inlet with isolation valves and strainers. Feed pumps (2 numbers), Feed delivery pipe from individual feed pump outlet to Boiler feed check valves. All connections of pipelines must be flanged with suitable dimensions.	Designed as per requirement of Boiler

5.6.1	Cascade Tank assembly: Rectangular Cascade tank, as per suitable capacity. Cascade tank should be a replica of Ship's model. Cascade tank with level indicator and controller is to be supplied and installed by vendor. All inlet and outlet connections along with supply of materials to be done by vendor. Cascade tank should be made of MS plates with Epoxy coating and should handle 90deg C feed water. Plate thickness should not be less than 6 mm. Condensate return will enter into this tank, hence necessary safety fittings to be supplied. Treated water to cascade tank will be supplied from new RO plant. Sight glass, vent line, overflow line, manhole, inlet and outlet nozzles, thermometer, required insulation as per marine standard. The tank will also having High Level and Low Level Alarm systems to be connected to the main Boiler Control Panel. Tank to be fixed on 300 mm RCC platform. Tank shall be provided with bottom support on this RCC platform. Provision of Steam Heating coil also to be supplied to maintain temperature.	Vendor to supply design to IMU KC for approval.
5.6.2	2 nos. electrically driven vertical centrifugal multistage pumps of required capacity and head, suitable for 105 deg C water temperature. Performance of those pumps must match with the new Boiler with maximum design rate. Pumps to be fixed on 300 mm RCC platform.	Operational Manual, Maintenance manual, Test Certificate, Warranty Certificate to be provided.
5.6.3	Suitable filter / strainer for each pump suction with suitable design and capacity.	2 sets for 2 individual pumps
5.6.4	Suitable Pressure gauge for suction and discharge side for each feed pumps. Gauges should have test certificates.	2 sets for 2 individual pumps. Gauges should have test certificates
5.6.5	Non return and Isolation valves to be provided for each pump discharge line of suitable capacity.	
5.6.6	All necessary pipelines for entire boiler feed system with proper insulation, painting to be provided. Intermittent drain lines will also be provided with suitable isolation.	
5.6.7	Suitable Chemical Dosing System to maintain Boiler Water with necessary pumps and mixing tank.	Vendor to supply design to IMU KC for approval.
5.6.8	Boiler water testing kit.	Preferably used for Marine application, Unitor, Rochem, Wilhelmsen.

SI No		Remarks
5.7	<u>Main Steam Distribution System</u> : Main Steam Distribution System consists of Main Steam Pipe Line connected after Main Steam Stop Valve to the Main Steam Distribution Header. The lines should have suitable expansion loop and with supports and hangers as required: main steam line from Boiler Main Steam Stop Valve to Main Steam Distribution Header (MSDH).	Designed and approved as per Marine Classification Society.
5.7.1	Suitably designed Main Steam Distribution Header (MSDH) with 1 inlet and 5 outlet with flange joints of suitable size and capacity.	As per requirement
5.7.2	Outlet connections from Header to be to existing Steam Turbine, Steam Engine, Steam Driven Rudder, Dump Condenser.	As per requirement
5.7.3	Insulation with cladding should be provided on all hot surfaces as applicable. Insulation surface temperature 60 deg. C. (max.)	IS:3677, IS:3144, IS: 14164, ASTM-B 209 and other standards as required.

SI No		Remarks
5.8	Boiler Fuel Oil System: Bidder to provide HSD handling, storage and supply up to the Boiler Burner Unit with required safety and isolation system.	
5.8.1	It is proposed to procure HSD in 200 lts barrel. Bidder to provide suitable system (gear pump, pipelines etc) for transferring HSD from the Barrels to the Fuel Oil Storage tank situated at suitable elevation.	
5.8.2	Existing Mild Steed HSD Tank may be used after suitable cleaning and painting.	Vendor may check the existing tanks for suitability.
5.8.3	Fuel supply pipeline from HSD Tank to Burner incorporating proper isolation and safety measures as per standards.	System should be the replica of Ship's system.
5.8.4	The HSD tank should have level indicator, low and high level alarms, low level trip for boiler etc as per industry and statutory requirement.	
5.8.5	Provision must be provided to drain the tank as and when required with suitable flanged pipelines and isolation.	
5.8.6	All pipeline connections must be well flanged with proper size and capacity, must match with the Boiler Operation.	
5.8.7	Pressure gauges with isolation also needs to be provided as required	Test Certificate required
5.8.9	2 nos. Electrically driven gear pumps of required capacity and head to be provided. Performance of those pumps must match with the new Boiler with maximum design firing rate. Individual suction filter of suitable size and capacity to be provided to each pump including individual isolation for respective cleaning. Pumps to be fixed on 300 mm RCC platform.	Operational Manual, Maintenance manual, Test Certificate, Warranty Certificate to be provided. Vendor to supply design to IMU KC for approval.

SI No		Remarks
5.9	Boiler Gas Storage and supply system: Bidder to provide Compressed Natural Gas storage, handling and supply up to the Boiler Burner Unit with required safety and isolation system as per statutory guidelines	Vendor to supply design to IMU KC for approval.
5.9.1	CNG Storage facility of suitable capacity for 5 hours operation. Must have suitable system for refilling CNG Storage facility from outside supplier as and when required. Facility must have Temperature, Pressure sensors and other facilities required as per Marine	Bidders to provide tank test and safety certificate complied with industry standard.
5.9.2	CNG supply pipeline from CNG Storage facility to Burner incorporating proper isolation and safety measures as per statutory standards. Should have proper Pressure Reducing Valves required. Couplings must match with Burner. Quick couplings may be provided for the system to connect and disconnect lines with the Burner as and when required depending upon the Burner design.	
5.9.3	The CNG Storage facility should have level indicator, low and high level alarms, pressure gauges, high pressure alarm, low level trip for boiler and other necessary mountings, temperature gauge same as replica of Ship. Monitoring devices connected to Burner Control unit will also be provided.	Marine Classification Society Certification required.
5.9.4	CNG storage facility must be kept in isolation from Boiler as per availability of space in IMU KC premises.	

5.9.5	Storage tank should be properly fixed on 300 mm RCC platform firmly, properly secured and other safety measures to comply with. Suitable isolated place must be identified after discussion with IMU KC personnel and shades with secureness to be provided.	Place of installation to be agreed upon discussions with IMU KC Officials
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SI No		Remarks
5.10	Dump Condenser System: (also known as Drain cooler, dump condenser, atmospheric condenser) Suitable shell and tube type condenser of suitable capacity compatible with the Boiler.	Vendor to supply layout design to IMU KC for approval.
5.10.1	Dump Condenser condition of dumping steam	Test certificate must be produced.
5.10.2	Material: Tubes may be stainless steel, aluminium brass & copper nickel (90/10). Tube sheets may be in carbon steel, naval brass and copper nickel (90/10). Shell may be of MS construction with necessary fittings.	Relevant design code must be followed.
5.10.4	Pipeline from Main Steam distribution Header Dump Condenser	Approved Designed as per Class
5.10.5	Suitable Cooling water circulation system (including pumps, pipelines and other necessary equipment) for condenser cooling water supply and return (existing cooling tower at IMU KC to be used after checking the condition.	
5.10.6	Condenser to be placed in suitable elevated place and properly secured. Insulation, painting to be done.	Vendor to supply layout design to IMU KC for approval.
5.10.7	All connections to be properly flanged and connected as per standard. Relevant pressure gauges to be provided as per requirement.	Test certificate to be provided.

SI No		Remarks
5.11	Burner: Dual Fuel Burner (High Speed Diesel & Compressed Natural Gas)	Make: Bentone, Weishaupt or equivalent international standard
5.11.1	Latest PLC Control Air - Fuel system. Fully digital control system.	Vendor to confirm
5.11.2	Digital combustion management control system with PC or Touchscreen visualisation	
5.11.3	Burner must be of reliable and robust at par with Marine Standard.	Fuel metering calibration test certificate required
5.11.4	All safeties and cut-outs / alarm system to be provided.	Same as replica of Ship's system.
5.11.5	Burner has to be modular, robust and reliable in construction and performance as per present Marine Standard.	
5.11.6	The body will be suitable material non corrosive in nature to get better longevity.	
5.11.7	Oil shutoff device with safety valve, gas shut off device with safety cut outs. Changeover systems for CNG and HSD	Same as replica of Ship's system
5.11.8	Central control and monitoring station must be provided touchscreen visualisation	
5.11.9	Burner must have Digital precision, Reproducible set-points, Ease of use, Flexible communication, Data backup / fault analysis, Menu-driven - clear-text display.	

SI No		Remarks
5.12	Reverse Osmosis Plant for Boiler of 3000 ltrs / hr. Capacity	
5.12.1	Plant must have suitable capacity of Sand Filters, Activated Carbon Filters. Also have Automatic Backwash facility with Multiport valve : Timer based with 3 cycle backwash sequence, Pressure gauge and fittings – 1 set for both the filters.	
5.12.2	NaOCl dosing System, Anti-scalant dosing system, MEMBRANE ELEMENTS, Water softener, pH Correction Dosing System.	
5.12.3	The vessel size for Filter & Carbon and the vessel size for Softener shall be adequate with the capacity of the plant.	Pentair make
5.12.4	Raw water storage tank sintex or equivalent capacity 2000 Litres	
5.12.5	RO Water will be directly transferred to Cascade Tank with suitable capacity PUMP	Kirloskar or equivalent
5.12.6	Raw water pump 2 numbers Softened water booster pump 2 numbers SS RO Distribution Pump 2 numbers RO High Pressure Pump 2 numbers	Kirloskar or equivalent Grundfos/ Lowara or equivalent. Grundfos/ Lowara or equivalent. Grundfos/ Lowara or equivalent.
5.12.7	Should have 1 Micron pre-filter, 20 inch height and 4” diameter. Should have automatic inlet shut-off valve. Should have Permeate and Concentrate flow meters. Should have Digital display of critical parameters through range of sensors. Should have User friendly RO controller and ensure automatic trouble free operations. RO controller should have automatic and manual mode. Should have automated pre treatment for RO. Should have Salt rejection around 96 – 98%. RO recovery range shall be 40-60% Permeate Rate : 3000 LPH, Concentrate Rate : 3000-4200 LPH Should have P.E flexible tubing used to collect permeate into RO tank. Should have Flow control centre including concentrate and recycle valves.	
	Should have Auto flush valve in reject line.	
5.12.8	Should have Low inlet pressure switch before HPP 3 way Solenoid valve in feed before HPP Inlet shutoff solenoid valve in smaller system Glycerine filled SS pressure gauges at feed / high pressure / reject lines. Panel mounted Rotameter in reject / re-circulate and permeate lines. Ball check valve in recirculation line, Spring check valve in permeate line & Conductivity meter in permeate line & Globe / needle valves in recirculate and reject lines. Should have 5 micron cartridge filters big blue in feed line. Should have Digital conductivity meter with programmable relay. Should have Alarms for Low Inlet pressure & Motor starter overload. Frame shall be made of stainless steel – 304 grade. Membrane housing shall be made of stainless steel 304 grade or FRP.	

5.12.9	He entire housing including Storage tanks should be properly fixed on 300 mm RCC platform firmly, properly secured and other safety measures to comply with.	Vendors to confirm
5.12.10	Pipelines should be properly flanged, secured and made of steel pipes.	

SI No		Remarks
5.13	Pipeline Painting: All painting should be done as per the agreed painting schedule between vendor and IMU KC with proper primer and finish paint as per industry standard.	Vendor to specify
5.13.1	<u>Colour coding of the paintings will be given by IMU KC as per Marine Standard</u>	

SI No		Remarks
5.14	Insulation Boiler and Pipeline: Thermal Insulation along with aluminium cladding is provided for all the equipment / surfaces having skin temperature more than 60° C, the insulation thickness shall be designed based on following criteria	As per Marine Classification Society requirement
5.14.1	Suitable insulation, cladding of 24 gauge	

SI No		Remarks
5.15	Electrical Connections, Layout, Insulations, Earthing, Control Panel	As per Marine Classification Society standards
5.15.1	The control panel must be a part and parcel of boiler/boiler package. It should contain all necessary switchgears, safety alarms/interlocks and burner management system and is to be mounted near to the boiler as practicable. Boiler should be complete with all necessary electrical cabling from the control panel till burner / pumps etc.	As per Marine Classification Society
5.15.2	Power cables shall be 1100 V grade, PVC insulated & PVC overall sheathed. Control cables shall be multi-strand copper conductors of minimum 2.5 sq.mm. All motors shall conform to squirrel cage induction motors, TEFC, IP-55, class 'F' insulation.	As per Marine Classification Society
5.15.3	Suitable ferrules will be provided at the end termination points of all the cables, for easy identification of cores connected at both ends. Double compression weather proof cable glands will be used for all cable glanding. All cables will be suitably numbered and metal tags will be tied on to the cables at both termination ends.	
5.15.4	Motors shall be conformed to the latest edition of applicable IS, IEC standards. Duty of the motor shall be continuous and shall be suitable for long period of inactivity. All motors are energy efficient type, motor efficiency and power factor shall be as per manufacturer standards only.	As per IS, IEC standards.

(Technical Bid)

[On the Letter head of the Bidder and to be put in a separate sealed cover]

Tender for “SUPPLY AND INSTALLATIONN OF ONE NUMBER 5 TON/HR VERTICAL SATURATED STEAM BOILER SUITABLE FOR MARINE APPLICATION AND ASSOCIATED SYSTEMS AT INDIAN MARITIM UNIVRSITY, KOLKATA CAMPUS”

Ref: IMU-KC/BOILER/03/23-24 dated 18.04.2024

From:

Name & Address of the Bidder

Phone: Email:

To
 The Director,
 Indian Maritime University,
 P-19, Taratala Road
 Kolkata – 700088.

Dear Sir,

We hereby submit our Technical Bid for **“SUPPLY AND INSTALLATION OF ONE NUMBER 5 TON/HR VERTICAL SATURATED STEAM BOILER SUITABLE FOR MARINE APPLICATION AND ASSOCIATED SYSTEMS AT INDIAN MARITIME UNIVERSITY, KOLKATA CAMPUS**

1. Compliance Statement

Sl. No	Item Description	Compliance to Specification Yes/No
1	Whether the bidder could supply the “Boiler suitable for Marine Application and Associated Systems” as per the technical specification in Annexure I and as per NIT	

2. Experience in the business of providing Similar Supply since 2018-19 or earlier:

Sl	Eligibility Criteria details	Bidders Confirmation
1	Whether in the business of Providing Similar Supply since 2017-18 or earlier meet this eligibility criteria (Yes / No)	
a)	Since which Year?:	
b)	Mode of Proofs enclosed:	Page No.
(i)		
(ii)		
(iii)**		

** May add more rows as required

3. A. Similar Supply with minimum value specified in any one of the three set of values (a / b / c) carried out during the last five financial years since 2018-19:

Sl. No	Eligibility Criteria details	Bidders Confirmation
A	Whether carried out similar supply with minimum value specified in any one of the three set of minimum value of contract (a / b / c) during 2018-19 & thereafter meet this eligibility criteria (Yes / No)	
a)	At least one similar supply with a minimum value of Rs. 2 Crore: (Yes / No)	

b)	At least two Similar Supply with a minimum value of Rs. 1.25 Crore (Yes / No).	
c)	At least three Similar Supply with a minimum value of Rs. 1 Crore (Yes / No)	

3.B. Details of similar supply with minimum value specified in any one of the three set of values (a / b / c) carried out during the last five financial years (since 2018-19) [in proof of sl. No. 3-A above]:

Sl. No.	Client-Name Address	Equipment supplied commissioned	Work order ref	Value of supply (Rs. in Lakh)	Date of commissioning by Bidder	Present Operational Status

** - May add more rows as required

4. Minimum Average Annual turnover:

Sl. No.	Eligibility Criteria details	Bidders Confirmation	
(i)	Whether the bidder has an average annual turnover of at least Rs. 2.5 Crore during the past 3 financial years i.e. since 2020-21 (Yes / No)		
	Year / Proof enclosed	Turnover	Page No.
(ii)			
(iii)			
(iv)			

Other Eligibility Criteria & Essential requirements and details:

Sl. No.	Particulars	Bidders Confirmation / Details	Details of Proof enclosed	Page No.
5.	Whether the Bidder have a valid PAN and GST Registration [YES / NO]		Copy of PAN & GST Registration Certificate enclosed	
6.	Whether the Bidder has been debarred or blacklisted by any Government department / agency so far on account of fraudulent or corrupt practices or inefficient / ineffective performance [YES/NO]		Declaration to this effect	

7.	Whether the Bidder has attached EMD for an amount of Rs. 5.00 lakhs from Nationalized or scheduled bank [YES/NO]		Original DD No. _____ enclosed with technical bid	
8.	OEM Authorisation certificate – Annexure –III		Yes / No	
(c)	Other Modes of Proof enclosed			
	<u>Name, Designation, Address and Telephone No. of Authorized person(s) of Firm / Agency:</u>			
	Type of the Organisation (Sole Proprietorship / Partnership / Pvt Ltd Co / Public Ltd Co. etc.			
	Name of the Authorised Signatory with Designation			
	Address of the Bidders			
	Email Address			
	Contract Numbers			
	Any other Remarks from Bidders:			
	Specific site preparation / site infrastructure required for effective functioning of equipment required (Yes/ No). If yet to be detailed in this column or to be enclosed.			

I am also enclosing bidder memorandum and undertaking duly signed by me /us.

Declaration

I / We certify that all the particulars furnished above are true and correct and based on documentary evidence, and that I /we understand that if any of the above particulars is found to be false or misleading, our bid is liable to be summarily rejected at any stage and my /our firm is liable to be blacklisted / debarred by IMU for at least 3 years, in addition to any other right or remedy available to IMU including forfeiture of EMD, Security Deposit etc.

Date:

Signature with Seal of Authorized Signatory

Place:

OEM'S AUTHORISATION CERTIFICATE TO THE BIDDER

To
The Director,
Indian Maritime University,
P-19, TaratalaRoad,
Kolkata – 700088.

Ref: Tender No. IMU-KC/BOILER/03/23-24dated 18.01.2024

Sir,

WHEREAS _____ who are official producers / authorized Sales and Service dealers, of _____ do hereby authorize _____

_____ located at _____ (to submit a bid and sign Tender with you for resale and support of the following Products supplied by us, for the quantities, specifications and delivery schedule called for by the technical specifications associated with the above Invitation for Bids:

Product Description	Type

We hereby extend to you a full guarantee and warranty and maintenance support, availability of spares for 5 years from the date of submission of the tender, in accordance with the Conditions of Tender along with the standard product warranty, and duly authorize the Bidder to act on our behalf in fulfilling all warranty and support obligations with respect to the above-listed products offered for resale by the Bidder in relation to this Invitation for Bids.

Name _____ in the capacity of _____

Signed

Duly authorized to sign the authorization for and on behalf of _____

Dated on _____ day of _____

Note: This letter of authorization must be on the letterhead of the supplier, must be signed by a person competent and having the power of attorney to bind the supplier, and must be included by the Bidder in its bid.

BIDDER MEMORANDUM & UNDERTAKING

[to be signed enclosed with technical bid by the bidder.]

1. General Description:

Tender for “SUPPLY AND INSTALLATIONN OF ONE NUMBER 5 TON/HR VERTICAL SATURATED STEAM BOILER SUITABLE FOR MARINE APPLICATION AND ASSOCIATED SYSTEMS AT INDIAN MARITIM UNIVRSITY, KOLKATA CAMPUS”

Tender No. **IMU-KC/BOILER/03/23-24dated 18.01.2024**

2. Period of Contract:

Outright supply with two year warranty and Annual Maintenance Contract for subsequent 3 years.

3. Forfeiture of Earnest Money Deposit & Undertakings by the Bidder

a) Should this tender be accepted in whole or in Part, I / we here agree:

to terms and abide and fulfil all conditions annexed hereto and all the terms and provisions contained in the all parts of the tender documents so far as applicable and/or in default thereof the EMD paid by me will be forfeited in favour of IMU KC.

b) To execute all the supply and services referred to there in the tender documents upon the terms and conditions contained or referred to therein and carry out such deviations as may be ordered by IMU KC.

c) This is to certify that I/We before signing this bid have read and fully understood all the terms and conditions and instructions contained therein and undertake to abide by the all the terms and conditions laid down in the tender/bid documents.

4. I/We abide by all the laws and statutory provisions applicable to the contract.

SIGNATURE.....

FOR AND ON BEHALF OF

DATE.....

Financial Bid

FORM OF TENDER

Note: This Memorandum forms part of the Tender must be on the letterhead of the bidder, duly filled in, signed & sealed and enclosed along with the Tender.

To
The Director,
Indian Maritime University,
P-19, Taratala Road,
Kolkata – 700088.

Ref: Tender No. **IMU-KC/BOILER/03/23-24 dated 18.01.2024**

Sir,

WHEREAS _____ who are official producers / authorized Sales and Service dealers, of _____ do hereby authorize _____ located at _____ to submit a bid and sign Tender with you for sale and support of the following Products supplied by us, for the quantities, specifications and delivery schedule called for by the technical specifications associated with the above Invitation for Bids:

We hereby extend to you a full guarantee and warranty and annual maintenance support, availability of spares for the period covering warranty and annual maintenance contract period from the date of submission of the tender.

SIGNATURE.....

FOR AND ON BEHALF OF

DATE

Financial BID

“SUPPLY AND INSTALLATIONN OF ONE NUMBER 5 TON/HR VERTICAL SATURATED STEAM BOILER SUITABLE FOR MARINE APPLICATION AND ASSOCIATED SYSTEMS AT INDIAN MARITIM UNIVRSITY, KOLKATA CAMPUS” as per the tender document complying with all the conditions stipulated in various parts of the tender documents including its annexure and schedules.

Detailed Financial Bid is enclosed as Schedule 1

Yours faithfully,

Date:

Place:

Signature with Seal of Authorized Signatory

Financial BID							
SCHEDULE 1							
Tender for “SUPPLY AND INSTALLATIONN OF ONE NUMBER 5 TON/HR VERTICAL SATURATED STEAM BOILER SUITABLE FOR MARINE APPLICATION AND ASSOCIATED SYSTEMS AT INDIAN MARITIM UNIVRSITY, KOLKATA CAMPUS as per the tender document complying with all the conditions stipulated in various parts of the tender documents including its annexure and schedules.							
Ref: Tender No. IMU-KC/BOILER/03/23-24dated 18.01.2024							
Sl. No	ITEM DESCRIPTION	Qty	Rate per unit (in Rs.)	GST rate and amount in Rs.	Sub Total including Unit Rate and GST (in Rs.)	Comprehensive Onsite Maintenance for 3 years immediately after warranty period of 2 years(Amount in Rs.)	Total Amount (in Rs.)
1	2	3	4	5	6=4+5	7	8=6+7
Stage 1	Dismantling and shifting of 2 numbers old Boilers and associated systems including F O Purifier. Fixing of Boilers to a designated place inside IMU KC premises.	01					
Stage 2	Design, Source, manufacture, inspection / testing at vendor’s plant (Factory acceptance test (FAT),shifting at site, erection, site acceptance test (SAT), Authority approvals for one number	01					

	Steam Boiler and associated systems of 5 Tons/Hr 7 kg/cm ² run on HSD and CNG as per Technical specifications mentioned including Packaging / forwarding/ freight/ insurance /installation/commissioning (Basic Price)						
Stage 3	Installation and commissioning of New Boiler including Hook-up of Services for water, fuel, electrical, vent drain, steam & blow down to existing facilities as per IBR.	01					
Stage 4	RO Plant	01					
Total Amount in Figures							
Total Amount in Words							
Name							Signature
Place							

Your commercial offer in price bid is understood to be in line with the technical specifications provided above and meets the requirements. No alternate price for whatever reason should be offered in the price bid. If it is found so, your commercial offer may be disqualified which is at the sole discretion of IMU KC. The net value of Price Bid would decide the L1 Vendor. The comprehensive AMC cost of the equipment would be considered for evaluation. However order for the same would be placed after expiry of warranty.

FORM OF BANK GUARANTEE

Bank Guarantee No: _____ Date: _____ Valid up to _____

To
The Director,
Indian Maritime University,
P-19, Taratala Road,
Kolkata – 700088.
Sir,

In consideration of Indian Maritime University Kolkata Campus, P-19, Taratala Road, Kolkata – 700088, West Bengal (hereinafter referred to as “IMU KC”) which expression shall mean and include its successors and assignees and having an Order No. _____ dated _____ for _____ (hereinafter called “The Contract”) which expression shall include all the amendments thereto with _____ having its Registered Office at _____ (hereinafter referred to as “The Supplier”), which expression shall unless repugnant to the context or meaning thereof, shall include all its successors, administrators, executors and assignees and IMU KC, having agreed that the Supplier shall furnish the IMU KC, a Bank Guarantee for of _____ (Rupees _____ only) as per the terms of Tender document No _____ dated _____ and Order dated _____.

We, _____ registered under the laws of India having its registered / head office at _____, (hereinafter referred to as the Bank) which expression shall unless repugnant to the context of meaning thereof, include all its successors, administrators, executors and permitted assignees do hereby guarantee and undertake to pay immediately on first demand in writing and any/all monies to the extent of Rs. _____ (Rupees _____ only) without any demur, reservation, contest or protest and/or without any reference to the Supplier. Any such demand made by the IMU KC, on the Bank by serving return notice shall be conclusive and binding, without any proof, on the bank as regards the amount due and payable, notwithstanding any dispute pending before any Court, Tribunal, Arbitrators or any other Authority and/or any other matter or things whatsoever, as liability under these presents being absolute and unequivocal. We agree that Guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by IMU KC, in writing. This guarantee shall not be determined, discharged or affected by liquidation, winding up, dissolution or insolvency of the Supplier and shall remain valid, binding and operating against the Bank.

The Bank also agrees that IMU KC, of its option shall be entitled to enforce this Guarantee against the bank as a principal debtor, in the first instance, without proceeding against the Supplier and notwithstanding any security or other guarantee that IMU KC may have in relation to the Supplier’s liabilities.

The Bank, further agrees that IMU KC, shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any

of the terms and conditions of the said Contract or to extent time of performance by the said Supplier from time to time or to postpone for any time or from time to time exercise of any of the powers vested in IMU KC , against the said the Supplier and forebear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Supplier or for any forbearance, act or omission on the part of IMU KC , or any indulgence by IMU KC , to the said Supplier or any such matter or thing whatsoever which under the laws relating to the sureties would, but for this provision have effect of so relieving us.

The Bank further agrees that the guarantee herein contained shall remain in full force until _____ and all dues of IMU KC, under or by virtue of this contract have been fully paid and its claim satisfied or discharged or till IMU KC, discharges the guarantee in writing, whichever is earlier.

This guarantee shall not be discharged by any change in our constitution, in the constitution of IMU KC, of that of the Supplier.

The Bank confirms that this Guarantee has been issued with observance of the appropriate laws of the country of issue.

The Bank also agrees that this Guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian Court of the place from where tenders have been invited.

We further agree that as between us and IMU KC, for the purpose of this Guarantee any notice given to us by IMU KC, that the money is payable by the Supplier and any amount claimed in such notice by IMU KC, shall be conclusive and binding on us notwithstanding any difference between IMU KC, and the Supplier or any dispute pending before any Court, Tribunal Arbitrator or any other authority. We further agree that this Guarantee shall not be affected by any change in our constitution or that of Supplier. We also undertake not to revoke this Guarantee during its currency.

Notwithstanding anything contained herein above, our liability under this Guarantee is limited to Rs. _____/- (Rupees _____ only) and Guarantee shall remain in force until _____.

We must receive any claim under this Guarantee before the expiry of this Bank Guarantee. If we have received no such claim by the said date, the rights of IMU KC, under this Guarantee will cease.

However, if such a claim has been received by us within the said date, all the IMU KC's right under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

In witness where of, the Bank through its authorized officer has set its hand and stamp on this _____ Day of _____ 2024 at _____.

Date:

Authorized Signatory of the bank
(With Bank Seal)

Place:

Witness No.1

Witness No.2

CODE OF INTEGRITY FORM

**Format for declaration by the Bidder for Code of Integrity & conflict of interest
(On the Letter Head of the Bidder)**

Ref. No: **IMU-KC/BOILER/03/23-24** dated **18.01.2024**

To,

(Name & address of the Purchaser)

Sir,

With reference to your Tender No. **IMU-KC/BOILER/03/23-24** dated **18.01.2024**
I/We, _____ hereby declare that we shall abide by the Code of Integrity for
Public Procurement as per General Financial Rules 2017 (Rule 175) and have no conflict
of interest.

The details of any previous transgressions of the code of integrity with any entity in any
country during the last three years or of being debarred by any other Procuring Entity are
as under:

- a
- b
- c

We undertake that we shall be liable for any punitive action in case of transgression/
contravention of this code.

Thanking you,

Yours sincerely,

Signature
(Name of the Authorized
Signatory)

Company Seal

COMPLIANCE/DEVIATION STATEMENT FORM

An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.

ITEM NAME			
Sl. No.	Tender Specifications/Parameters/Requirements	Bidder's Specifications	Remarks/Deviation If any
	(Note: Here technical as well as other requirements/parameters may also be included for this evaluation sheet)		

(Technical literature/brochures/manuals should be attached along with this format)

Please note:

1. Compliance/Deviation statement comparing the specifications of the quoted model to the required specifications. This statement should also give the page number(s) of the technical literature where the relevant specification is mentioned.
2. Bids may have supporting documents (technical literature or copies of relevant pages from the service manual or factory test data) for all the points noted above.