

Tender No:  
Our Ref. KDU/PRO/LIB/10/2022



General Sir John Kotelawala Defence University,  
Kandawala Estate, Ratmalana, Sri Lanka.  
Exchange: 2632028 ,2622995  
OCLS:2622504, Procurement Officer:2623599  
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24 / 05 / 2022

**INVITATION TO BID AND GENERAL CONDITIONS OF TENDER**

1. The Vice Chancellor of the General Sir John Kotelawala Defence University, as the Chairman, Department Procurement Committee invites Bid/s from prospective Bidders for supply of **items listed in the schedule in Annex “A”. The relevant specifications of the items are indicated in Annex “B”.**

2. **CLOSING DATE&TIME.** The tender will close at 1000 hrs on 16 / 06 /2022 .Any Bid submitted after the closing time of the tender will be rejected & unopened such bids will be returned to the bidder.

3. **VALIDITY OF BID.** The bid submitted under this tender **must be valid for a period of 60 days from the date of closing of tender.**

4. **BID BOND /GUARANTEE.**

(a) If the quoted bid value exceeds Rs: 2,000,000.00 such Bids should be accompanied with 1% of Bid Value an “on demand” and “unconditional” Bid Bond/Guarantee for a sum of **Rs: .....** in the format given in Annex “C” through a recognized local Bank or Insurance Company registered in Sri Lanka which is authorized by the Insurance Board of Sri Lanka to issue such Bid Guarantees. All Bid Bond/Guarantees should be valid for at least 30 days more than the validity period of bids, is, for 49 days from the date of Bid opening. **Cheques will not be accepted as Bid Guarantee.**

(b) Submission of insufficient Bid Bond/Guarantee value or period will be considered as a “**major deviation**” and such offer will not be considered for further procurement action and will be rejected.

5. **VALUE ADDED TAX.**

The Bidders who bid for locally delivered items must have the VAT registration. The VAT portion must be shown separately in the price schedule in Annex “A” and VAT registration number must be indicated. If the quoted item is exempted from VAT or Bidding Company is not liable for VAT, reference number and date of relevant Act number/Gazette notification/a certificate (as applicable) **issued for the current financial year** from the Commissioner General of Inland Revenue to that effect should be submitted along with the Bid.

6. **BID SUBMISSION.**

The **bidder must duly sign at the last page (before Annexes) of this document** indicating the name of the signatory and the name of the company & place the company common seal to confirm the acceptance of tender conditions. **The Bid/s that do not include authorized signature will be rejected.** The Bid/s duly signed by the bidder enclosed and sealed in an appropriate cover addressed to the following address should be sent by registered post or could be deposited in the **appropriate tender box placed at General Sir John Kotelawala Defence University, Kandawala Estate, Ratmalana**(at the Main Entrance of General Sir John Kotelawala Defence University) on or before the time & date specified for the closing of tender. **The tender reference number, date & time of closing tender should be indicated & underlined at the top left corner of the envelop.**

**Tender Ref No** :.....

**Closing Date & Time** :.....

The Chairman,  
Department Procurement Committee,  
General Sir John Kotelawala Defence University,  
Kandawala Estate, Ratmalana, Sri Lanka.

7. The Bid/s must be submitted in the attached schedule of prices in Annex “A” as applicable. However, bidders could use similar formats prepared with their own letter heads with all the details mentioned therein and submit in **three copies along with duly signed copy of a General Conditions of tender.** The Bid/s must contain **Technical Literature, Pamphlets, Drawings and Quality Standard Certificate etc** necessary to determine characteristics of items offered and in case of Machinery/Vehicles & Equipment, servicing and workshop data/after sales service, back up facilities or any other facilities provided by the supplier.

8. **SUBMISSION OF SAMPLES/PAYMENT OF TESTING CHARGES.**

When it is required to submit samples, **every offer** must be accompanied with pre - marked samples. The marking of samples **indicating the Bidder & Offer number** must be done and the samples must be handed over to the officer at same place where tender box is placed **on or before the closing date & time of the Bid.** Samples submitted after closing time of the Bid will be rejected. The documents such as Air Way Bills etc, will not be accepted in place of samples. When the testing charges are required to be paid, bidders shall pay testing charges separately **for all offers** indicated in their bid/s.

(1) **Samples.** Please submit .....samples.

(2) **Testing Charges.** A sum of Rs. .... **per offer** must be paid to the Bursar of

KDU, prior to the submission of bid and a copy of the receipt must be annexed to the bid. It is the responsibility of bidder to inform the Cashier of the Account Office to note the tender number on the receipt issued for such payments.

9. **BID OPENING.** All duly received bids **will be opened immediately after the scheduled closing time of Bids at the same venue.** Bidders or their accredited agents could be present at the time of opening of bids.

10. **PRICES.**

For locally delivered items (including locally manufactured items & foreign items imported by the bidders) price must be quoted in Sri Lankan Rupees, inclusive of all charges for delivery of items to General Sir John Kotelawala Defence University Ratmalana, Faculty of Allied Health Science (FAHS) Werahera and University Hospital Werahera or Southern Campus Sooriyawewa. **Unit price, VAT and Total price should be clearly indicated in schedule in Annex “A”.** Other than VAT, all other type of taxes (eg : NBT, BTT, etc.) should not be indicated separately and should be included in unit price.

11. **RESTRICTEDTENDERS.** Invitation to Bids are circulated among the registered suppliers with Ministry of Defence (MOD), only bids submitted by registered suppliers will be allowed for consideration. However, Chairman, Department Procurement Committee reserves the right to invite the bids from multiple combinations of Procurement Methods as stipulated in Chapter III of the Government Procurement Guideline, 2006 to ensure highest competitiveness.

12. **PERFORMANCEBOND/GUARANTEE.** A successful bidder shall furnish a Performance Bond/Guarantee in the form of "On Demand" & "Unconditional" Bank/Insurance Guarantee for a sum equivalent to 10% of the contract value for every contract that exceeds Rs. 2,000,000.00 or equivalent amount in foreign currency through a recognized Commercial Bank registered in Sri Lanka or through an Insurance Company authorized by the Insurance Board of Sri Lanka to issue such Performance Guarantee for this purpose, **within two weeks from the date of notification of award.** The proceeds of the Performance Bond/Guarantee shall be payable to the Vice Chancellor of the General Sir John Kotelawala Defence University as compensation for any loss resulting from the supplier's failure to complete his performance obligations under the contract. If the contracted supplier fails to deliver the items on time or fails to complete the works as per the agreed contract, **THE TOTAL VALUE OF THE PERFORMANCE BOND/GUARANTEE** will be forfeited. If only partial delivery is made during the agreed contract period, the corresponding value percentage of undelivered quantity from the Performance Bond/Guarantee will be forfeited.

13. **SIGNINGOFCONTRACT.** The notification of award will be transmitted to the successful bidder by post, by fax or e-mail. This notification constitutes the formation of the contract. The successful bidder should submit his written acceptance for the award and performance bond / guarantee (For awards over Rs. 2,000,000.00 without VAT) within 14 days of receipt of such notification. Upon acceptance of the award and furnishing of the Performance Bond/Guarantee, the successful bidder will have to enter into a formal contract with the Vice Chancellor of the General Sir John Kotelawala Defence University by signing the Contract.

14. **DELIVERY.** Preference will be given for early delivery. In case of bulk supplies for locally manufactured items, the delivery of **total quantity must be completed within 120 days of signing of contract,** unless mutually agreed for extended delivery period with General Sir John Kotelawala Defence University. **The bidder/s must indicate the proposed delivery schedule in Annex "E".** In the event of placing a purchase order with the successful bidder, the total quantity so ordered must be supplied as one consignment unless part deliveries are agreed upon in the contract. The deliveries not made as per agreed delivery schedule will be considered as bad performances by the suppliers and **no extended delivery period will be authorized.** Under extreme unavoidable conditions too, the Chairman, Department Procurement Committee (Vice Chancellor of the General Sir John Kotelawala Defence University) reserves the right to grant or refuse delivery period extensions only within the current financial year with or without liquidated claim for delayed deliveries and that decision will be final.

15. **LIQUIDATEDDAMAGES.** In case of delivery period extensions requested by the successful bidder, a sum equivalent to 1% of the total value of the delayed supply per delay of one week or part thereof may be deducted from the payment due to the supplier from the General Sir John Kotelawala Defence University as liquidated damages up to the maximum limit of 12% of the total value of delayed supplies.

16. **PAYMENT TERMS FOR LOCALLY DELIVERED ITEMS.** Payment will be made after acceptance of items which should be subjected to a pre-acceptance inspection/testing by General Sir John Kotelawala Defence University authorities. The delivery made to the General Sir John Kotelawala Defence University should not be considered as quantities taken over by General Sir John Kotelawala Defence University until items are properly accepted after pre-acceptance inspection. Any item that does not conform to the specifications or already approved sample will be rejected & it is the responsibility of the supplier to remove them from General Sir John Kotelawala Defence University stores/premises within 07 working days of such intimation (either verbal or written) at his own cost and replace them with items conforming to specification within one month of such rejection. The bidder shall allow approximately 45 days period of credit from the date of acceptance of items for Account Office, General Sir John Kotelawala Defence University to obtain liquid cash from General Treasury & release the payment.

17. **RIGHTS OF THE PROCUREMENT COMMITTEE.** The Department Procurement Committee reserve the right to accept or reject whole or part of this tender and their decision will be final. The successful bidders will be notified. Information with regard to rejected or unsuccessful bids will not be communicated.

Thanking You,  
Yours faithfully,

For Vice Chancellor  
General Sir John Kotelawala Defence University

I/We agree to abide by the conditions of tender and undertake to supply the items as per delivery schedule mentioned in the contract, in the event of an order been placed with me/my firm/company as a result of this tender.

.....  
Signature

.....  
Name of Signatory

.....  
Name of the Company/Bidder

Date :- .....

Company seal

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**SCHEDULE OF PRICES FOR LOCALLY DELIVERED ITEMS**

**PURCHASE OF SHIP BUILDING CAD AND SIMULATION SOFTWARE FOR BSC IN NAVAL ARCHITECTURE & MARINE ENGINEERING DEGREE PROGRAM**

SRL NO	ITEMS	DENO	LICENSE	PRICE EACH SLRS	TOTAL PRICE SLRS
	SHIP BUILDING CAD AND SIMULATION SOFTWARE SOLUTION	NO	03 License		
	<b>Note:</b> <ul style="list-style-type: none"> <li>• <b>Delivery Period, Warranty Period &amp; Brand Name should be indicated</b></li> </ul>				
	TOTAL				
	DISCOUNT				
	TOTAL(AFTER DISCOUNT)				
	VAT %				
	<b>GRAND TOTAL</b>				

1. Country of Manufacture: -.....
2. Brand Name :-.....
3. VAT Registration No:-.....

**(VALUE ADDED TAX PERMANENT REGISTRATION CERTIFICATE / VAT EXEMPTION LETTER ISSUED BY DEPARTMENT OF INLAND REVENUE TO BE ATTACHED)**

4. Warranty Period :.....
5. Delivery Schedule :.....
6. Payment Terms :**Credit**
7. MOD registered No:.....
8. Name of the Company/bidder:.....
9. Address of the Company/bidder:.....
10. E-Mail Address of the Company/bidder:.....
11. Phone Number of the Company/bidder:.....
12. Date:.....
13. Authorized person Signature of company/bidder .....
14. Stamp of Company/bidder



**SPECIFICATION SCHEDULE**

**Extra Specification: Yes**

**SPECIFICATIONS FOR SHIPBUILDING CAD AND SIMULATION SOFTWARE SOLUTION**

Ship building CAD tool shall provide the following: -

1. General requirements
  - a. The proposed software should support for both “History based Designing” and “History Free designing”.
  - b. Supports History based designing as an independent workflow
  - c. Supports History FREE designing as an independent workflow
  - d. Ability to modify a solid or a surface model by directly manipulating model’s faces and edges while maintaining and recognizing the geometric relationships during change. Should work on native and imported/translated 3D models and rapid designing on the same.
  - e. Licensing of the proposed software should be perpetual and Number of software license to be 03 Nos.
  - f. Supplier shall be solely responsible for installation of license in end user’s workstation at a convenient date and provision of latest updates during the period of agreement.
2. The proposed software shall include following CAD capabilities (High-level)
  - a. Drafting
  - b. Part Modeling
  - c. Sheet Metal Designing
  - d. Free form and Advanced surface designing
  - e. Assembly Part Modeling
  - f. Reverse Engineering
  - g. Generative Designing
  - h. Translators
3. The proposed software should be able to design following aspects in ship building workflow.
  - a. Hull Surface Development
    - i. Software must have in-built capability to develop good quality hull surface model.
    - ii. It should advance surfacing tools for hull and modeling features for superstructures.
    - iii. It should have capability to interface with CFD and stability analysis tools. It must provide parametric base modeling of hull surface for faster design alternatives.
  - b. Concept Design
    - i. Users should able to define ship/submarines frames for all design references.
    - ii. System must give option to create ship-frames from spreadsheets.
    - iii. System must provide method to create block definition from user interactions as well as from spreadsheet
    - iv. Design must relate to hull surface, through geometrical topology, so that change in hull design with propagate to concept design. Concept design model must update on user acceptance to the changes done on hull surface.
    - v. It should be easy user interface for creation of ship features and objects like
      - (1) Plate systems –Decks, Bulkheads
      - (2) Profile systems –Stiffeners, Edge reinforcements

- (3) Seams –Scantling, Straking, Erection
- (4) Standard parts, brackets, pillars

- vi. Lightweight geometrical definition (mid surface) with relevant metadata like plate thickness, material etc. for downstream structural integrity analysis.
  - vii. Support for copy and mirror of the basic steel structural systems for higher helping faster design
  - viii. Support for creation of structural drawings required for class approvals
  - ix. There should be method to quickly create mid-surface model and meshing automation for quick preparation of structure for simulation
  - x. Structure Simulation tool must have pre-post capability and option to choose from various solvers like Nastran, Ansys, LS-DYNA, Abaqus etc.
  - xi. Software should able to perform basic hydrostatic analysis, material report, CG report and weight management solution for hybrid environment of various weight types like some object will have weight calculated from geometry like plates, asserted weight values mainly for 3rd party bought-out items or pipe/wire where weight might calculated by length based on unit weight
- c. General Arrangement:
- i. Easy definition of ship compartments and room spaces in 3D
  - ii. Equipment and standard parts placement and manipulation in 3D space
  - iii. Quick generation of all types of general arrangement drawings and related tables
  - iv. Accurate estimation of ship weight and CG during proposal stage
  - v. Must provide features to develop 2D drawings from 3D Models for getting customer approvals as per contract.
  - vi. Parametric 3D modelling of equipment, foundations and accommodation spaces
  - vii. Quick and easy placement in 3D space
  - viii. Ability to define maintenance space envelopes
  - ix. Software must have capability to rework on neutral models supplied by suppliers to study accommodation packaging.
- d. Detailed Structure Design
- i. Software must help to consume concept/basic level structure design. It should convert all the lightweight geometry to detailed structures system with Plate thickness/3D stiffener profiles and edge reinforcement etc. so that detail design can leverage work done in concept and build on top of it.
    - 1. Changes in hull form or concept design dimensions update the 3D GA model and its 2D drawings
    - 2. Possibility of referencing of all data created at concept stage by Ship structure basic design
    - 3. Allow changes done at concept design to be replicated in the systems defined in basic design
    - 4. Easy transition of the Basic structural systems to a detailed structural model
  - ii. Quick and easy definition of
    - 1. Plates and profiles with end cut information
    - 2. Cutouts, Profile cutouts and collar plates
    - 3. Standard parts, brackets, pillars
    - 4. Insulation on structural parts
    - 5. Availability of sufficient details to generate manufacturing information
    - 6. Support for copy and mirror of the detailed steel structural elements
    - 7. Support for creation of structural drawings required for class approvals
  - iii. It must give features to define various paints and treatment and option to link them to surfaces and help to calculate weight of treatment

- iv. Lightweight rule base welding creation configurable engine should be provided to quickly create welds and auto edge/bevel preparations
- e. Outfitting
  - Outfitting module should have method to create smart fasteners assemblies for increasing the efficiency
- f. Piping-P&ID
  - i. Easy and intuitive diagram authoring and editing
  - ii. Provision of an OOTB content of library objects and new library authoring tools
  - iii. Support for all types of annotation and tabular outputs
  - iv. System based organization of diagrams
  - v. Multi sheet diagramming and change management support
  - vi. Diagram validation –consistency and connectivity checks
- g. P&ID driven 3D piping design
  - i. Smart reuse of diagram information while performing 3D piping design
  - ii. Shared library between P&ID and 3D piping along with common pipe spec definition mechanism
  - iii. Cross probing functionality between diagram and 3D design
  - iv. 2D to 3D validation –consistency and connectivity checks
  - v. Specification driven Piping design
  - vi. Pipe hangers, supports design and welding
  - vii. Piping module must have capability to create pipe-networks and methods to place parts with port definition for assemblies.
  - viii. Spooling out the network to manufacturable spools
  - ix. It should have feature to create fabrication drawings of Pipe-Spools for downstream usage like pipe bending, inspections
- h. Cabling
  - i. Cabling must have options for 3D routings with ease and efficiency. It should have path creation, modification of path, placement of electrical components, space reservations, cable ways etc
  - ii. System should provide solution to import Component list and connection list from schematic diagramming tools like Capital in PLMXML (open exchange) format and use that data for 3D routing.
  - iii. Cabletray-fill percentage and layout can be analyzed after cable routing
- i. HVAC System
  - i. Support for HVAC layout driven 3D duct design
  - ii. Smart sizing of ducts and duct transition parts
  - iii. Split ducts for air flow adjustments
  - iv. Specific functionality -Duct reinforcements and Wind-catcher creation
- j. Manufacturing information generations
  - i. Automated ship structure manufacturing assembly (Palletization / volume/ container) and re-organization to suits the build-plan.
  - ii. Definition of sequence of the assembly of the parts to aid production planning
  - iii. Plate manufacturing including
  - iv. Marking/rolling lines
  - v. Ping jig creation
  - vi. Bend templates
  - vii. Unfolding
  - viii. Profile manufacturing including
  - ix. Profile sketch
  - x. Inverse bending lines
  - xi. Knuckled bend tables

**SPECIMEN FORM OF BID SECURITY**

By this Bond we ..... (hereinafter called "the Bidder") and We (name of bank or insurance company) whose registered office is at ..... (hereinafter called "the Surety") are held and firmly bound onto ..... (hereinafter called the Authority") in the sum of ..... for the payment of which sum the Bidder and the Surety bind themselves their successors and assigns jointly and severally by those presents.

Whereas the authority has invited the Tender and other persons to compete tenders in similar terms for the supply of ..... and to submit the same for the consideration of the Authority, and the Bidder proposes to submit to the Authority a Bid (hereafter called "the Bid") in accordance with such invitation, the Bond shall provide security to the Authority that the Bidder will honour certain obligations to be undertaken by him in the Tender in accordance with the following conditions.

**Now the Conditions of this Bond are:**

- (a) That it shall remain in full force and effect until the earliest of
  - (i) (Date), being ( ) days from (submission date), the date stipulated by the Authority for the submission of tenders, or any prolongation of such date above notified to the Authority by the Bidder and the Surety in writing.
  - (ii) In the event of acceptance of the Tender by the Authority, the date upon which the Bidder provides a performance security to the Authority in accordance with the terms of the contract thereby made between them, or
- (b) Subject to this Bond being in full force and effect, the Surety shall pay the full amount specified in this Bond upon receipt of first written demand from the Authority stating that
  - (i) The Bidder has withdrawn his Tender during the validity of this Bond, or
  - (ii) The Bidder has failed to provide a performance security to the Authority in accordance with the terms of the tender within 14 days from receipt of intimation of award of the Tender.

No alteration in the terms of the Tender, nor any forbearance or forgiveness in or in respect of neither any matter or thing concerning the Tender on the part of the Authority, nor any objection from the bidder shall in any way release the Surety from any liability under this Bond.

The benefit of this Bond shall not be assignable by the Authority and upon its ceasing to be in full force and effect the Authority shall return the same to the Bidder.

This Bond shall be governed by the laws of Sri Lanka

I executed as a deed on this( ) day of( ) 20 ( )

For and on behalf of the Bidder  
-----  
-----

For and on behalf of the Surety  
-----  
-----

Signed by -----

Signed by -----

In the capacity of -----

In the capacity of -----

and by -----

and by -----

In the capacity of -----

In the capacity of -----

Seal (where applicable)

Seal (where applicable)

**DELIVERY SCHEDULE**

(IT IS MANDATORY TO FILL THE FOLLOWING SCHEDULE BY THE BIDDER)

TENDER NO :

ITEM : .....

QTY : .....

<b>DURATION</b>	<b>QTY</b>
EX STOCK QTY (WITHIN 01 WEEK)	
01MONTH	
02 MONTHS	
03 MONTHS	
04 MONTHS	
<b>TOTAL</b>	

NAME OFTHEBIDDER : .....

SIGNATUREOFBIDDER : .....

DATE : .....

COMPANYSEAL :