INVITATION FOR QUOTATION

TEQIP-III/2017/uceo/Shopping/1 **08-Dec-2017**

To,

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Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	**Brief Description**	**Quantity**	**Delivery Period(In days)**	**Place of Delivery**	**Installation Requirement (if any)**
1	3 D Modelling & Medical Image Processing Software	1	45	Department of Bio Medical Engineering, University College of Engineering, Osmania University, Hyderabad	Yes required

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,

   3.1 The contract shall be for the full quantity as described above.

3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.

3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.

3.4 Applicable taxes shall be quoted separately for all items.

3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **40** days after the last date of quotation submission.
6. Evaluation of Quotations,

   The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

   6.1 are properly signed ; and

   6.2 confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.
8. Award of contract:

   The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

   8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

   8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

9. Payment shall be made in Indian Rupees as follows:

   Delivery and Installation - 0% of total cost

   Satisfactory Acceptance - 100% of total cost

10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **16:00** hours on **23-Dec-2017 .**
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Yes Required**
14. Testing/Installation Clause (if any) **Yes Required**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,

    To the Principal, University College of Engineering, Osmania Campus, Vidyanagar, Hyderabad-50007.
17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

Annexure I

<table>
<tr><th>S. No</th><th>Item Name</th><th>Specifications</th></tr>
<tr><td>1</td><td>3 D Modelling & Medical Image Processing Software</td><td>
<table>
<tr><th>S.No.</th><th>Modules included in Mimics Innovation Suite</th><th>Quantity</th></tr>
<tr><td>1</td><td>Mimics Base
(Academic License + Maintenance)

Dicom import, image processing, 3D model generation and post-processing. STL, VRML, DXF, PLY and Point Cloud export.</td><td>1</td></tr>
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		2	**Analysis** **(**Academic License + Maintenance) Advanced measurements, analysis tools and centerline	**1**
		3	**Design** **(**Academic License + Maintenance) Accurate design tools for personalized medical implants and accessories	**1**
		4	**FEA** **(**Academic License + Maintenance) Processing images to link to FEA/CFD (incl. material assignment)	**1**

1. Software solution which can accurately convert medical image data (coming from CT, MRI, micro-CT, CBCT, 3D ultrasound, Confocal Microscopy) to 3D models in STL format, through various image registration and segmentation methods.
2. 3D models of anatomy such as orthopaedics, cranio-maxillofacial, cardiology and soft tissue can be easily created.
3. Accurately measures distance, angle, diameters and densities to export to statistical analysis.
4. Optimize the 3D models with fixing tools such as smooth, wrap and fill holes.
5. Visualise the contours of the 3D models on the images, and can modify the 3D model by editing the contours.
6. Fix the STL files to optimise them for 3D printing. It should have extensive analysis functions to offer advice for the best fixing procedures and consist of highly automated fixing tools to perform these procedures.
7. Export the 3D models as STL files for 3D printing, design or analysis.
8. The software solution should consist of a complete design suite for Anatomical CAD. This should cover a broad range of design tools which are specifically meant for anatomical design work on the segmented STL files
9. Automated design tools specifically meant for implants, which make the medical design work much easier.
10. Convert the STL files into high quality surface or

		volume meshes for FEA and CFD. **11.** Create mesh structure for individual 3D models as well as accurate conforming meshes for assemblies of 3D models. **12.** Manipulate the mesh structure of the 3D models according to user requirements for efficient FEA and CFD. This should include parameters, such as mesh uniformity, minimum triangle edge length, Maximum triangle edge length, height/base ratio of the elements, etc. **13.** Assign material properties to the meshed models based on grey values of scanned medical image data. **14.** Export the meshed files in the format readable by most FEA/ CFD packages. **15.** The software solution should provide the complete end to end solution, starting from 2D to 3D conversion, followed by 3D design and then verification of the design using FEA/ CFD. All this should be performed within one solution in order to maintain accuracy **16.** Perform complete surgical simulation by planning cutting planes, reposition bone parts, place plates and screws, calculate volume etc.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

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Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. ———————— (Amount in figures) (Rupees ————————amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ——————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____