NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008, ORISSA

Department: **Industrial Design**

Tender Notice No.: NITR/PW/ID/2018/05   **Date: 20/02/2018**

Through

CPP Portal

(e-procurement)

Important Dates

Event	Date	Time
Pre-bid conference	NA	NA
Last Date of Submission of quotation	**20.03.2018**	**03:00 PM**
Opening date of Technical Bid	**21.03.2018**	**03:00 PM**
Opening date of Financial Bid	**23.03.2018**	**11:00 AM**

Dear Sir,

We intended to purchase the commodities specified belowand invite qualifications in accordance with items and condition details overleaf. If you are interested, kindly send your offer in prices and complete terms within the time mentioned above.

Please send your quotation as per Tender document. For any technical Query contact to:

The Head
Attention: Prof. Md. Rajik Khan
Department of Industrial Design
National Institute of Technology
Rourkela-769 008, Odisha.
Phone: 0661-246-2856
Email: khanmr@nitrkl.ac.in

Yours sincerely,

(Prof. Mohammed Rajik Khan)
PIC: Ergonomics and Simulation Lab

Encl:
(1) Schedule of requirement, specifications, dates etc.
(2) Bid document containing details terms and conditions

1.	**Schedule of requirements**

Sl. No.	Description of Goods/Service	Quantity
1.	**Real-time biomechanics data acquisition, visualization and biomechanical analysis solution** *Specification:* • Software for Real time data acquisition, visualization, and biomechanical modeling and Analysis • Laptop with 16 GB RAM, Windows 10, 1080p HD Widescreen auto focus webcam with Luggable Case • Software plug-in for real-time data collection from Electromagnetic Kinematic 3D Motion Tracker sensors and Wireless EMG probes, digitally. • Software should provide the ability to collect real-time data from Electromagnetic Kinematic 3D Motion Tracker standalone or synchronously with other data sources. • Integration, testing and configuring of Electromagnetic Kinematic 3D Motion Tracker system and Wireless EMG probes synchronously. • Capability to upgrade the system to add other data sources such as Force Plates, VR Hardware like Haptics devices, HMD, Projectors, EEG System, Instrumented Treadmill in future by simply adding the hardware and required software plug-in to collect data synchronously. • Handheld Event Marker for use with Kinematic Tracker as "OK" button through setup dialog windows; event marker; recording trigger; and third-party synch pulse • Quick release cuffs to mount Kinematic sensors on body segments of participant. • Ready integration with 6DOF Electromagnetic 3D Motion Tracker for real-time as well as off-line modeling and analysis. • **16 Sensor Wireless EMG System** consisting of wireless EMG probes and remote system unit with charging sockets for Sensors with real-time integration into Biomechanical Base System above as well as for standalone EMG data Acquisition and analysis on a separate PC. • Parallel Bar EMG Sensors Selectable Bandwidth Options: 10-850 Hz or 20-450 Hz, Selectable Dynamic Range Options: 11 mv or 22 mV • Both Analog and Digital Output options. • Typical operating range of 40 m • Hardware triggering options to synchronize with 3rd Party devices • Inter sensor delay- 0 ms in digital mode, fixed 48 ms in Analog mode.	01 unit

- Baseline Noise ≤ 2.5 uV(r.m.s., r.t.i.)≤ 3.0 uV(r.m.s., r.t.i) - CMRR ≤ -80 dB - Power Consumption (<)0.130 W - Effective Radiated Power 9 mW - RF Protocol Proprietary - Full-charge Operation Time (>)6 hours (typical) - Recharge Time 2.5 hours - Auto Shut-down timer 300 seconds - Temperature Range 5 – 40 degrees Celsius - Sensor Input Range 11 mV (r.t.i.) 22 mV (r.t.i) - Stand Alone Real-Time EMG Acquisition and Analysis software with comprehensive set of capabilities including: (a) Real-time filters, support for multiple data acquisition cards, User-friendly interfaces for user-friendly experiment design, a library of Ready-to-use tasks and real-time signal quality assessment. (b) Live Signal Exploration for freezing data on the screen without Stopping data collection, and performs quick analysis of signal amplitude and frequency. (c) Integrated database to manage data with subjects, workflows, and data files in a relational database. Filtering and grouping features allows intelligent searching of data across experiments to build up data sets for comparative studies, or for tracking subject progress. (d) Should have scripting capability and a library of ready-to-use calculations for signal processing and calculations. (e) User-friendly graphical interface, quick view tools and batch processing capabilities make post-processing of EMG, biomechanical sensors signals simple and efficient. (f) Should allow seamless integration with video files and external data files via Import/Export features. It supports frame-by-frame video playback option for inspecting the EMG activity collected in synchronization with 3rd party video capturing system. 3 Remote Analysis licenses - Onsite training session 03 Year of Maintenance, Subscription, and Support program - Proprietary certificate need to be provided (if applicable)	

2. **Specifications and allied Technical Details**

> *i) GST and any other Taxes should be Clearly mentioned in the quotation*
> *ii) Technical specification: same as Sl. No. 1 above.*

3. **Format of Quotation** (tick appropriate box)

☐ ~~It is a single bid; please give all technical specifications and price bid in one envelope.~~

OR

$\boxed{\checkmark}$ It is a two-part bid with separate techno-commercial and price bids. Please see item 1.12 of instructions for method of bidding.

4. The bid should be submitted through https://eprocure.gov.in/eprocure/app

5. Quotations should be valid for a period of **90 days** from the closing date of the bid.

6. Some important dates:

i.	Pre-bid Conference:	NA	NA
ii.	Last date for submission of quotation:	Date: 20/03/2018	Time: 03:00 PM
iii.	Opening of Technical bid:	Date: 21/03/2018	Time: 03:00 PM
iv.	Opening of Financial Bid	Date: 23/03/2018	Time:11:00AM

7. Warranty of 03 years must be provided, if any

8(a) **Excise Duty:** The Institute is exempt from Excise Duty. Please state applicable excise duty as a separate item.

8(b) **GST:** GST should be charge according to applicable rates.

9. Bid Security (Earnest Money Deposit): INR 2, 00,000/- in shape of Demand Draft (DD) in favor of Director, NIT Rourkela payable at Rourkela. Bid security of the unsuccessful bidders should be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract.

10. Performance Security: **INR 2, 00,000/-** in shape of Demand Draft (DD) in favor of Director, NIT Rourkela payable at Rourkela. And performance security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. And EMD (Earnest Money Deposit) amount may be adjusted as a performance security in case of award of contract of successful bidder.

11. Please go through the enclosed "bid document" carefully for other bidding instructions.

12(a) Please send your quotations through: https://eprocure.gov.in/eprocure/app

13. For technical details, you may contact

> Prof. Mohammed Rajik Khan
> Department of Industrial Design
> National Institute of Technology Rourkela -769 008, Odisha.
> Phone: 0661-246-2856
> Email: khanmr@nitrkl.ac.in

NB: Please furnish your Dealership Certificate (must) and Proprietary Nature Certificate (If applicable)

**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA – 769 008, ORISSA**

BID DOCUMENT

1. Instructions to the bidders

1.1 Bids are invited on behalf of the Director, National Institute of Technology (NIT), Rourkela – 769 008, Orissa, from the intending bidders for supply of the goods/stores/ equipment for the Institute as detailed in the enquiry letter.

1.2 The bidders should quote their offer/rates in BOQ in clear terms without ambiguity.

1.3 In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.

1.4 The last date for receipt of the bid is marked in the enquiry. In case the above date is declared a holiday for NIT, Rourkela, and the bids will be received up to the appointed time on the next working day.

1.5 The bids should be uploaded in https://eprocure.gov.in/eprocure/app. Please follow the guidelines of the site.

1.6 If a prospective bidder requires any clarification in regard to the bidding documents, s/he may make a request the concerned officer or faculty member at least 15 days before the deadline for receipt of bids.

1.7 Bids received after the deadline of receipt indicated in para 1.4 above, shall not be taken in to consideration.

1.8 Each bidder shall submit only one bid. A bidder, who submits more than one bid, shall be disqualified and considered non-responsive.

1.9 (In respect of high value plant, machinery etc. of a complex and technical nature). The bids may be submitted in two parts, viz., technical bid and financial bid.

1.10 The bidder has to sign in full at all pages of the scanned part of the bidding document. No over-writing in those pages are acceptable.

2. Conditions of the bid

2.1 The rates quoted should preferably be net, inclusive of packing, forwarding, freight, Insurance and all other incidental charges excluding taxes. In case these charges are quoted extra in addition to the quoted rates, the amount thereof or advolerum rate must be specified. Packing, forwarding, freight, etc., when quotes separately are reimbursable at actuals. If external agencies are employed, their receipts must be enclosed with the invoice.

2.2 Duties and Taxes are to be quoted separately. Advolerum rates thereof should be clearly indicated with reference to the relevant Acts and Rules.

It may be noted that the Institute is exempt from paying Excise Duty vide Government Notification No. 10/97 dated 01.03.1997 [Registration No.: TU/V/RG-CD (227)/2011, dated 10.11.2011]. GST may be charged at applicable rates.

2.3 The goods are required to be delivered at the indenting Department of NIT, Rourkela, and must be **dispatched within 60 days** from the date of placement of the supply of order under the risk and arrangement of the bidder and offers with delivery beyond the above period shall be treated as unresponsive. In case the delivery time is higher, the same must be mentioned clearly in the quotation.

2.4 The bid should remain valid for a period **of 90 days** from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation.

2.5 Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.

2.6 The goods offered should strictly conform to the specification and technical details as mentioned in **Schedule of requirements of the tender document**

2.7 The Institute may like to conduct pre-dispatch inspection of goods, where applicable.

2.8 Period of guarantee/warranty, where applicable, should be specified in the bid.

2.9 If the successful bidder, on receipt of the supply order, fails to execute the order within the stipulated period, in full or part, it will be open to the Director, NIT, Rourkela to recover liquidated damage from the firm at the rate of 1 percent of the value of undelivered goods per month or part thereof, subject to a maximum of 5 percent of the value of undelivered goods. Alternatively, it will also be opened to the Director, to arrange procurement of the required goods from any other source at the risk and expenses of the bidder.

2.10 The successful bidder may be required to execute a contract, where applicable.

2.11 The bidder has to furnish up to date GST and Income Tax Clearance Certificate along with the bid.

2.12 Payment (*100 percent*) will be made by Account Payee Cheque/Bank Draft and in case of foreign payment through LC, within 30 days from the date of receipt of the goods in good condition or receipt of the bill, commissioning of the equipment, where applicable, whichever is later/latest.

2.13 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT, Rourkela shall be final.

2.14 The bid document/resultant contract will be interpreted under Indian Laws.

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