

केंद्रीय मूगा एरी अनुसंधान एवं प्रशिक्षण संस्थान
CENTRAL MUGA ERI RESEARCH & TRAINING INSTITUTE

(आई. एस. ओ. 9001:2015 प्रमाणित संस्थान ISO 9001:2015 Certified Institute)

केंद्रीय रेशम बोर्ड CENTRAL SILK BOARD

वस्त्र मंत्रालय: भारत सरकार Ministry of Textiles: Govt. of India

लाहदोईगढ़ Lahdoigarh, जोरहाट Jorhat-785700, असम Assam



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No. CSB/CMER&TI/Store/4(120)/2020-21/

Dated 06.08.2020

TENDER NOTIFICATION

Sub.: Inviting rate quotation for Chemiluminescent - documentation system (1 No.); Multimode microplate reader (1 No) and DGGE (1 No.) equipment at CMER&TI, Lahdoigarh – reg

Sealed rate quotations are hereby invited for supply of the following equipments and their installation at this institute. Interested parties/suppliers may offer their rate in two bid system for the same as detailed below.

SN	Name of the items	Quantity	Specification
1.	Chemiluminescent - documentation system	01	Enclosed Annexure-I (Sl. No. 1)
2.	Multimode microplate reader	01	Enclosed Annexure-I (Sl. No. 2)
3.	Denaturing gradient gel electrophoresis system-DGGE system	01	Enclosed Annexure-I (Sl. No. 3)

The **Technical Bid** should consist of all the technical details, EMD, specifications along with commercial term and conditions. **The Financial Bid** should consist of item price as mentioned in the technical bid. Dealership certificate, company price list and other parameters like guarantee/warranty, service facilities, etc. should also be enclosed. The financial bid will not be considered and opened if the required specification are not met with the technical bid. The technical and financial bids should be sealed in separate covers duly super-scribed technical bids for equipments and financial bids for the equipment respectively and both the sealed envelopes are to be put in a bigger cover which should also be sealed.

The sealed quotation should be addressed to **THE DIRECTOR, CMER&TI, CENTRAL SILK BOARD, LAHDOIGARH, JORHAT-785700, ASSAM** super scribing as **Quotations for SUPPLY/Installation of "Chemiluminescent documentation system/ Multimode microplate reader/DGGE system"**.

The quotation should reach this office on or before **04-09-2020 at 2:00 p.m.** positively and the technical bid will be **opened at 3:00 p.m.** on the same day in presence of the parties who choose to be present. If the quotation opening date happens to be holiday, the quotation will be opened on the next working day at the same time. The financial bid of those parties who qualify the technical bids only will be opened **within 15/20 days** from the date of opening of technical bid. The date for opening the financial bids will be intimated by the office to the technical qualified parties in advance. Financial bds will be evaluated based on the rates quoted.

The terms and condition of the quotation are indicated below:

1. The quotation (s) received after due date and time will not be entertained.
2. Parties not submitting their quotations in two bids system as mentioned above will not be considered and will be summarily rejected.
3. **Validity:** One year from the date of the opening of the quotation.
4. **Delivery schedule:** within 1 month from the date of issue of the supply order and the rates quoted should be valid for 180 days.
5. The equipment should be supplied to **Director, CMER&TI, Central Silk Board, Lahdoigarh, Jorhat-785700, Assam**
6. The equipments should be supplied strictly in conformity with the annexed specifications, failing which; the equipment has to be taken back at own cost.
7. Financial bids should consist of unit price, Excise duty, Insurance, Packaging & Forwarding, Erection & Commissioning, Transportation charges, Taxes etc. F.O.R., **CMER&TI, Lahdoigarh, Jorhat.**
8. Price of the equipments should be quoted only in **Indian Rupees (INR).**
9. Parties/manufacturer supplying specific equipments/spare parts should specifically mention that the party is the sole manufacturer/supplier of the equipments and should provide such certificate along with authorization letter of the manufacturer.
10. **Payments:** No advance payment will be made. The payment will be made only after satisfactory supply/installation/demonstration of the equipments/spare parts and in conformity with the specifications to the satisfaction of the Director or his authorized officer.
11. **Taxes and other statutory duties:** To be shown separately and clearly for each equipment.
12. **EMD:** 2% on the basic price for the item to be submitted in the form of Demand Draft/Bankers cheque drawn in favor of Director, CMER&TI on any Nationalized Bank payable at Jorhat (Assam) along with technical bid. Quotation without EMD will summarily be rejected.
13. For claiming exemption of EMD, the necessary MSME/NSIC certificate should be uploaded along with the technical bid.
14. The supplier shall provide Warranty/Guarantee valid for a minimum period of 12 months from the date of installation of the equipment/machineries. Any defects noticed in the equipment/machineries which are unintentional shall be set right by the supplier free of cost for good performance of the equipments.
15. A copy of **PAN Card** to be submitted along with quotations.
16. Documents should be submitted in **duplicate.**
17. **Copies of supply order received from other organization for similar model of equipment to be enclosed.**
18. The bidder should submit the Bank Details, i.e; Bank A/C No., Bank Name, Branch, IFSC code. Mobile Number, Email ID etc along with quotation.
19. The Director reserves the right to accept or reject any or all quotations without assigning any reason or whatsoever.

The concerned bidder can obtain the reason for rejection of his bid, bidding procedure and conditions of the bid, if he chooses to do so by giving a request in writing.

Director(i/c)

Annexure I - Detailed specifications:

Sl. No. 1- Item no. 1 (Chemiluminescent gel documentation system)

The system should be a cooled CCD imager for imaging of chemiluminescent Western blots, fluorescent protein and DNA gel stains and white light imaging of colorimetric stains and markers.

1. The system must be able to detect nanogram but preferably picogram levels of sample with chemiluminescence.
2. The system should offer a touchscreen, sample chamber, USB port, camera, and light sources. The camera should be 16-bit, 8.3 megapixel CCD and should be fitted with a 30 mm fixed focus lens.
3. The CCD camera should be ready for use in minutes and advanced Peltier cooling and binning significantly reduces noise levels both the sensitivity and linearity of the system.
4. The system should offer three LED light sources; a combined blue epi-/UV epi-light and a white epi light. The combined blue epi-/UV epi-light allows imaging of fluorescence signals above 560 nm. This feature makes the camera well suited for DNA stain imaging with SYBR™ Green and ethidium bromide (EtBr) as well as Deep Purple™ Total Protein Stain. The white epi-light source (470 to 635 nm) is for documentation of colorimetric markers and stains, such as Coomassie™ Blue or silver.
5. The users must be able to avail of automatic overlay function: Simultaneously image chemiluminescent samples and colored molecular weight markers.
6. Dynamic range of detection should be upto 4.8 orders of magnitude
7. The system should have Automatic, semi-automatic, manual, incremental and advanced capture mode to standardize the best possible exposure time for chemiluminescence imaging.
8. Manual exposure time should have a range in between 1/10 second to 1 hour.
9. Upto 50 images should be able to capture in incremental mode.
10. In semi-automatic image capture mode, the user should be able to do an automated exposure on an area of interest defined by the user.
11. All the images generated by the facility should be analysed and quantitated using a powerful and sophisticated image analysis software that is capable of analyzing 1D gels, multi-tiered gels, 96, 384 well plates, dot blots, plates, macro-arrays, cell counting.
12. 3-kVA Emerson make UPS with inbuilt battery should be provided with the instrument

Sl. No. 2- Item no. 2 (Multimode microplate reader)

1. Should have modes *viz*, absorbance/fluorescence/luminescence detection technologies
2. Should support carrying out endpoint, kinetic and spectral scanning based assays
3. System should have the capacity to read different plate formats i.e; 6 to 384 wells
4. Should support linear and (or) orbital shaking capability.
5. Wavelength selection for absorbance, fluorescence luminescence should be monochromator/filter based.
6. Minimum wavelength should be 220 nm and above, less is good
7. Detection system should be photomultiplier (PMT) and (or) photodiode based.
8. Weight should not exceed 25 kgs
9. USB ports for computer system connection and data export.
10. Should be capable of Low volume (atleast microvolume) nucleic acid and protein quantification
11. PC Software for simplified assay and analysis setup
12. Dynamic range ≥ 6 decades
13. Light source should be xenon/ quartz-halogen
14. Measurement/Reading speed should not exceed 25 secs for 96 well plate
15. System should be quoted with customized filter for fluorescence emission chemistry (excitation maxima at 365 nm and emission centered at 450 nm)
16. Installation and training: Complete installation and on-site complete training by specialists from principals or experts trained and certified by the principals.

17. Warranty: Complete five years on-site warranty should be provided from the date of installation and commissioning. Date of shipping/delivery/invoice etc. will not be considered and is non- negotiable. Note that the site is ready for installation. Warranty must cover instrument, all parts supplied (including those considered consumables and are subjected to wear and tear), and software. Warranty terms such as “against manufacturing defect” or “date of shipment” etc., will not be accepted.
18. Supplier should provide maintenance and service manuals in English (both soft copy and hard copy manuals are acceptable; soft copy is preferred).
19. The list of ALL spare parts and accessories (including various filter sets available with the supplier) with pricing and discount valid for five years from the date of installation of the current set-up must be included.
20. 100% payment shall be paid after installation and satisfactory commissioning of item by purchaser.
21. Letter from principals stating that the supplied instrument with serial number and part number mentioned (along with accessories as per tender specifications) is brand new and not refurbished, not a demo piece, etc.
22. 3-kVA Emerson make UPS with inbuilt battery should be provided with the instrument.

Sl. No. 3 - (Denaturing gradient gel electrophoresis system-DGGE system)

1. Vertical gel electrophoresis system with power pack capable of performing DGGE, SSCP
2. Dual gels cassette at least 4 gels per run
3. Plate dimension 16-20cm x 16-20cm minimum or higher
4. Gel size: 15cm x 16 cm minimum or higher
5. Gradient Gel casting system with Clamps, gasket or wrap, screws etc
6. Gel combs variable in wells (16 wells or 24 wells or 48 wells) with thickness of combs varies from 0.75mm to 1.5mm
7. Peristaltic pump 100 to 200V with varying flow speed control or a buffer cyclor which can eliminate the need of an external peristaltic pump to recycle buffer.
8. Power pack of above 220V with 2 sets of output terminals
9. Gradient buffer mixer.
10. Glass safety cover for protection during electrophoresis
11. Buffer siphoning pump
12. Suitable silicone tubing