

THE UNIVERSITY OF BURDWAN

Registrar



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Notice Inviting E-Tender (Two Bid)

Ref. No.: R-S/E-35/89

Date: 29/03/2018

E-tenders are hereby invited for the item as per detailed specifications from the Original Equipment Manufacturer (OEM) or their authorized representatives in India for supply and installation of “*2-D Gel Electrophoresis with analysis software, Gel doc and Thermal Cycler*” for DST-SERB Project No. EEQ/2017/000018 Dt. 15/03/2018, under Dr. Anandamay Barik, Principal Investigator (PI), Department of Zoology, The University of Burdwan.

The tender must be submitted through **on line only**, and must be addressed to:**Dr. Anandamay Barik, PI, DST-SERB Project, Department of Zoology, The University of Burdwan Golapbag, Burdwan 713 104, INDIA.** Hard Copy of the technical details only (Brochures/leaflet/compliance cart etc.) must be submitted to the aforesaid address.

1. For e-filing, intending bidder may download the e-tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate.
2. Bid shall remain valid for a period not less than 60 (sixty) days from the last date of submission of Financial Bid.
3. All the prices must be quoted in Foreign Currency (for imported items) & INR for local items.
4. Both Technical Bid and Financial Bid are to be submitted concurrently duly digitally signed in the website <https://wbtenders.gov.in> within the closing date of online submission.
5. The FINANCIAL OFFER of the prospective bidder will be considered only if the specification of the bidder is found qualified by the Project Purchase Committee. The decision of the Project Purchase Committee will be final and absolute in this respect.
 - a. Terms & Conditions like, Insurance, Mode of payment, Validity period, Warranty and Delivery period must be mentioned and to be submitted on firm's letter head mentioning the following :
 - i. Name and address of the Company including Telephone no., FAX no.
 - ii. Contact person - Name, mobile number, email address
 - iii. Banker's name and address in details
 - b. Detailed Technical specifications: Full Specifications, Make, Model, Brochure/Leaflets/Technical Information of the item(s) should be given while quoting the rates in the bid.

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- c. In case of authorized dealers, OEM authorization mentioning the NIT no to be submitted by the dealer.
 - d. The OEM must have experience of manufacturing for at least last 15 years or more which should be given as undertaking from the OEM in writing and is to be submitted along with the tender documents
 - e. The accessories quoted by every bidder should be OEM make and not locally sourced; if found so during supply then order will be cancelled
 - f. Experience and credential documents including copies of Orders towards supply in Govt /Govt undertaking organizations/ agencies are to be submitted along with the technical bid
 - g. Any other relevant document
6. The Financial proposal should contain the Bill of quantities (BOQ) in one folder. The bidder has to download the BOQ and quote the rate online in the space marked for quoting rate in the BOQ and upload the document virus scanned & Digitally Signed by the bidder.
 7. The Project Purchase Committee reserves the right to accept or reject any bid and to cancel the Bidding processes and reject all Bids at any time prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for Purchase Committee's action.
 8. The final price of the instrument /equipment must include the other charges like packaging, forwarding, freight, transportation charges etc. (whenever the prices are quoted on Ex-Work/FOB/FCA basis).
 9. Name and address of the Foreign Principal (OEM) and their Email and Fax No. must be clearly mentioned in the offer. The purchase order will be placed to the OEM only.
 10. The material should be dispatched duly insured against theft, loss or breakage during transit and the rates chargeable for insurance may invariably be quoted separately. The insurance shall be for an amount equal to 110% of the CIF value or CIP value of the contract from within "warehouse to warehouse (final destination)" on all risk basis including strikes, riots, and civil commotion.
 11. The University of Burdwan is registered with Department of Scientific and Industrial Research (DSIR) for the purposes availing Customs duty exemption in terms of Government Notification and Central Excise Duty Exemption in terms of Government Notification.
 12. Payment will be made on bill basis after the receipt of the item in good condition, its satisfactory installation and commissioning at out site by e-payment. In case of Import, payment shall be made through Letter of Credit (L/C) /Wire transfer/Foreign Demand Draft.

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13. The warranty shall remain valid for minimum twelve (12) months from the date of satisfactory installation and commissioning at our site or thirty months (30) after the date of shipment from the port or place of loading in the country of origin whichever period concludes earlier.
14. Rate should be given both in words and figures clearly in the quotation. If there is any discrepancy between the words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to above.
15. The shipment must be in the name of “The Registrar, The University of Burdwan, Rajbati, Burdwan, 713104, West Bengal, India”.
16. The last date and time for receiving complete bids shall be strictly adhered to and no offer received after the due date shall be considered. Delayed/Late Tenders will not be considered at all. The University of Burdwan will not be responsible for any loss in transit.
17. The acceptance of quotation will rest with the Principal Investigator of the project who does not bind himself to accept the lowest quotation and reserves the right to reject, or partially accept any or all the quotations received without assigning any reason.
18. Date and Time Schedule :

1.	Date of uploading of N.I.T. & other Documents (On line) (Publishing Date)	29/03/2018
2.	Documents download start date (On line)	29/03/2018
3.	Documents download end date (On line)	18/04/2018
4.	Bid submission start date (On line)	23/03/2018
5.	Bid Submission closing date (On line)	18/04/2018
6.	Bid opening date for Technical Proposals (On line)	19/04/2018
7.	Date of uploading list for Technically Qualified Bidder (On line)	To be notified later
8.	Date for opening of Financial Proposal (On line)	To be notified later

Sd/-
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ANNEXURE-I

Detailed Technical Specifications

Item 1 : 2-D Gel Electrophoresis with analysis software

2D Analysis workflow :

First Dimension Specifications with Software:

- System should include Individual Lane Control for running different samples, pH Gradients and focusing protocols in a single run.
- System should have touch screen User Interface for easy easily creating and editing protocols and setting up the program rapidly.
- System should include dedicated site for online data interpretation for Graphing data, Comparing lanes and generating reports.
- System should include USB Port to export data for storage and analysis
- System should include run mode flexibility- to run IPG strips gel Side Up, Gel Side Down and with cup loading configuration.
- System should have voltage 0–10,000 V, 1 V increments (50-10000V)
- Current range should be 0–100 μ A per lane, 1 μ A intervals
- Power range of 0–1 W per lane.
- System should have peltier based cooling platform.
- Temperature range should be 10–25°C \pm 1.0°C @ max ambient 23°C 18–25°C \pm 1.0°C @ max ambient 31°C.
- Focusing trays should be made of polycarbonate for contaminant free process.
- System should accommodate IPG strip length 7, 11, 13, 17, 18, and 24 cm.
- System should have display QVGA resolution (320 x 240) touch screen or mouse control
- System should have ramping Step, linear, gradual, and hold voltage ramping for each focusing step. Hold mode as a final step to prevent diffusion when IEF is complete
- System should have 2GB capacity for storing protocols
- Data collection should be in .dat format
- System should have following regulatory compliances:
 - Safety EN 61010-1:2001, IEC 61010-1:2001 Use NRTL to test for compliance to UL61010-1:2004 and CAN/CSA C22.2 No. 61010-1-04
 - EMC EN61326 (1997 w/A1:98) Class A FCC Code of Federal Regulations, Title 47, Part 15, Subpart B, Class A

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- Other approvals RoHS/WEEE Research Materials to determine level of EFUP

Image analysis 2D Software

- Gaussian modeling based software
- Sophisticated algorithms for Automatic Spot Detection & Quantification.
- Spot detection summary matching summary, replicate group consensus tool to optimize spot detection and matching parameter
- Sypro ruby filter for auto recognition and removal of background speckles
- Simultaneous analysis of upto 15 gels
- Upgradeable for DIGE analysis
- Statistical analysis wilcoxon paired sample algorithm for providing accurate statistical comparison.
- User adjustable significance level
- Boolean analysis by using different set and subset
- Gel land marking and automatic spot matching
- Sophisticated variable background removal to quantitate low abundance protein
- Can Export XML data and JPEG file format
- Should be GLP/GMP Compliant, and should have facility for 21CFR Part 11 compliance in future.

Item 2: Gel Doc

Gel Documentation system :

Gel Doc System Hardware-

- 1) System should have Image resolution >4 mega pixels for resolving closely spaced bands on a gel or blot.
- 2) System should have 4.6 x 4.6 μm pixel size & >3.0 orders of linear dynamic range
- 3) System should be completely automatic & user does not have to zoom, focus, adjust aperture or select light source.
- 4) System should be modular with different sample trays & flexible to image a wide variety of applications, including nucleic acid, visible dyes, SYBR safe and Stain Free Gels.
- 5) System should have UV, White light, & optional Blue light.
- 6) System should have Stain-Free capability for stain-free gels and blots
- 7) Sample trays should be customizable per user and recognized automatically.
- 8) System should require only one emission filter to accommodate a large portfolio of detection methods: ethidium bromide, SYBR® Green, SYBR® Safe, SYBR® Gold,

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GelGreen, GelRed, Fast Blast™, SYPRO Ruby, Flamingo™, Oriole™, CY3, rhodamine, green fluorescent protein, Hoechst, Krypton, silver stain, copper stain, zinc stain, Coomassie Brilliant Blue, Coomassie Fluor Orange, and other spectrally similar stains, labels, and dyes.

- 9) Should have lens flat-fielding calibration for each sample tray to deliver image data that are always optimized and reproducible without imaging artifacts, providing superior image uniformity and quantitation
- 10) System should be compact with small footprint and maximum size of WxLxH of 27 x 44x 38 cm.

Gel Doc System Software-

- 1) Software should have highest level of automation in hardware calibration, image optimization, capture, and analysis.
- 2) Should have automated workflow recorded in a protocol file from image capture to results thus eliminating need for training.
- 3) Should allow 100% repeatability of the workflow by any user and ensures optimized image data and analysis from a gel in a single uninterrupted, fast, and completely reproducible workflow.
- 4) Should have automated image capture driven by a selected gel or blot application.
- 5) Should have one-button acquisition from image capture to result.
- 6) Should generate the publication ready images (dpi, dimension and format) with one click export option.
- 7) Should generate customizable reports.
- 8) Should have feature for Automatic print when only imaging and printing is required.
Software should have easy copy/paste functionality, crop, zoom, 3D and colors

Item 3: Thermal Cycler

Gradient PCR specification :

- Should have a sample capacity of 96 x 0.2 ml tubes, 0.2 ml tube strips or universal or standard 1 x 96-well plate of 8 x12 format with six or more Peltier heating and cooling.
- System which are not capable of taking plates will not be considered.
- Should have true gradient capability with Dynamic ramping technology, other technologies apart from gradient will not be considered.
- Should have the feature of dynamic ramping with identical hold times for all the 8 rows of gradient.
- Should have a temperature differential range of 1-25 °C across the rows.

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- Should have intuitive 5.7" (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming.
- The touch screen should be responsive for both gloved and ungloved fingers.
- Should be capable of running reaction volumes from 1-100ul.
- Should have a maximum ramp rate of 4 °C/second.
- Should have a temperature range of 4-100 °C
- Should have a gradient range of 30-100 °C
- Should have a temperature accuracy and uniformity of ± 0.5 °C
- Should have a memory of >500 programs with further expansion through a USB Flash drive for transfer of files.
- Should have block and calculated temperature control modes.
- The software should be capable of exporting Run logs and system error logs
- Should have quick boot up time of not more than 1 min.
- Should be quiet in operation.
- System should have built in library of standard protocols for long PCR, fast PCR, reverse transcription PCR etc.
- Should have the feature of "Instant Incubation" to keep samples at constant temp for ligation and restriction digests.
- Should have power save mode.
- Should be compatible with all kind of plastic consumables and reagents specially reusable sealing Mats.
- The vendor supplying the Instrument should also have the capability of supplying cDNA Synthesis Kit, Hot Start Taq Polymerase, plastic ware, and horizontal electrophoresis system with power pack from the same Principal Company.