



**GLOBAL TENDER NOTIFICATION**  
(Through e-procurement portal only)

The Director, NIMHANS invites tender from eligible tenderers through the Karnataka Government E-Procurement portal for supply of following equipment.

Sl. No.	Name of the Item	Quantity (in Nos.)	EMD (in)
1.	The Stain-Free and Traditional Western Workflow Complete Setup with Imaging system	01	84,244/-

**Tender Schedule**

Downloading of Tender documents from website - <a href="https://eproc.karnataka.gov.in/eportal/index.seam">https://eproc.karnataka.gov.in/eportal/index.seam</a>	From 26.11.2019 onwards
Last date for tender enquiry	06.12.2019 upto 11:00 AM
Tender submission last date and time	26.12.2019 upto 11:00 AM
Technical bid will be opened online by the authorized officer on	27.12.2019 at 11:00 AM

Sd/-,  
Director

**TENDER DOCUMENT**

**Terms and conditions**

1. The bid documents should be uploaded in E Procurement portal only on or before the **due date**.
2. The tender bid should be valid for **four months** from the due date. **NIMHANS, Bengaluru will not take any responsibility for any technical issues.**
3. **Earnest Money Deposit (EMD):**
  - 3.1. The (EMD) shall be denominated in Indian Rupees and shall be paid in the e-procurement portal using the following payment modes:
    - a. Credit Card.
    - b. Direct Debit.
    - c. Net Banking
    - d. National Electronic Funds Transfer (NEFT)
  - 3.2. The EMD shall not bear any interest and will be refunded to
    - a. successful tenderer on receipt of Agreement and Bank Guarantee.
    - b. unsuccessful tenderer upon finalization of tender bid and award of tender to successful bidder.
    - c. all the tenderers if the tendered item is cancelled or retendered.



4. The tender documents and all correspondence's relating to the bid should be in **English language only**.
5. **Technical bid should comprise of (uploaded copy of documents should be self attested and stamped) -**
  - 5.1 Brochure/Catalogue and Data sheet of the equipment.
  - 5.2 Proprietary certificate from the manufacturer mentioning the unique technology or feature/s mentioned apart from the brand name (If applicable).
  - 5.3 Pre requirements required at the installation site (Before submitting the bid, the tenderer should make pre-visit to the installation site and indicate the requirement along with the price bid wherever necessary)
  - 5.4 Delivery Period of the item to be supplied and Time required for installation from the date of purchase order has to be indicated.
  - 5.5 List of Institutes where the equipment has been supplied.
  - 5.6 Copy of GST, PAN, TIN document
  - 5.7 Whether tenderer is manufacturer / accredited agent / sole representative, indicate details of principal's name & address. The offers of tenderer who are not manufacturer or direct authorized agent will be summarily rejected. Sub- distributors will not be accepted.
  - 5.8 Non – blacklisting certification that the firm has not been blacklisted in the past by any government/Private institution and certification for No Vigilance/CBI case pending against the firm/supplier by making an affidavit on non – judicial stamp paper of `10/-.
  - 5.9 Declaration towards acceptance of all terms and conditions should also be provided.
  - 5.10 Technical Compliance Sheet to be uploaded by the supplier.
6. **Price Bid should comprise of-**
  - 6.1. **Quotation should be only for DAP i.e., NIMHANS DOOR DELIVERY PRICE** and should have detailed information as per tendered specifications (such as main equipment cost, each article wise/spares rates, taxes, other Government levies, Customs duty, any local agency commission, transportation, delivery of the equipment to the Institute premises, installation and commissioning etc. Separately along with total cost) with manufacturers name, License number and name of the brand/make. Tender bids without price bid/quotation will be rejected. **Detailed breakup of the cost should be provided under” Action Column” by clicking the “%” symbol which will be mentioned as Added Statutory Components.**
    - a) In case of Import, Customs Duty will be considered only at 5.5% of the total Purchase order value and the required Customs clearance documents will be provided by NIMHANS on prior intimation (atleast 7 working days prior intimation) of shipment along with details and relevant documents by the supplier.
    - b) If the tenderer is quoting in Indian Rupees (INR) for items NOT MANUFACTURING IN INDIA (NMIC), the CUSTOM DUTY EXEMPTION CERTIFICATE WILL NOT BE ISSUED BY THE INSTITUTE. The Rate quoted should be inclusive of Custom duty & other incidental charges.



- 6.2. Exchange rates for Foreign Currency will be considered as per the closing value on previous working day from website <https://rbi.org.in/scripts/ReferenceRateArchive.aspx> (only for GBP, EURO, USD & JPY) and for other currencies as per the decision of the Institute.
7. Successful tenderer decision will be made on the basis of base price +Warranty period (wherever applicable).
8. The tender bids (technical and price bid) should be typewritten; every correction in the tender should be initialed along with seal by the tenderer, failing which the tender will be rejected. All pages of the bid submitted must be signed along with seal and sequentially numbered by the tenderer.
- 9. Evaluation of Bids:-**  
The technical bid of the tenderer will be evaluated to determine whether
- a. They are complete with respect to specifications.
  - b. They are free from computational errors.
  - c. The requisite documents have been submitted and properly signed.
- 10. Tender Opening:**
- a. The Technical bids will be unlocked through E procurement portal in the Committee Room, Adjacent to Registrar Chamber, NIMHANS, Bengaluru on the date specified in presence of tenderers or their representatives who choose to attend. The Tenderers' or representatives who are present shall submit authorization letter along with copy of Photo id proof and shall sign a register evidencing their attendance.
  - b. The Financial bid of the technically qualified tenderer's only will be opened on a notified date. NIMHANS will inform all the Technically Qualified Tenderers through e-tendering system, after decryption of their Financial bid which could be viewed automatically by the respective technically qualified tenderer's. In this regard no separate intimation shall be made by the Purchaser.
11. Equipment and its accessories should be covered with **minimum warranty period of 05years** for normal or regular wear & tear from the date of complete installation (Ready to use in all respects). In case of software's, the validity of the license key should be clearly mentioned and should have user define provision with option to switch over from one system to other system of the same kind within the validity period.
- 12. Software Updates:**  
The selected firm for the supply of tendered item should provide free updates of software up to 05 year from the date of complete installation.
13. Supply of spares should be guaranteed for a minimum period of 10 years from the date of supply or from the date of cessation of production of the model for 10 years, whichever is later, at the rates prevailing against payment.
14. Any modification or revision of bids after submission will not be entertained under any circumstances. Conditions such as "subject to the availability of stocks", supplies will be made



as and when supplies received from the principles etc., will not be considered under any circumstances.

15. A tenderer having once given a tender bid shall not withdraw it after its acceptance/opening and if does, the EMD paid by the tenderer will be forfeited and the tenderer is liable to make good the loss sustained.
16. If required, the tenderer should demonstrate the quoted model of the equipment at the institute during the technical evaluation, failing which their bid/offer shall be rejected. The tenderer will be intimated that they should get ready for demonstration. No request for extending time for demonstration will be entertained. Failure to demonstrate, their offer will be rejected.
17. The tenderer should supply the circuit diagram and instruction manual of the tendered equipment/s at the time of supply of the equipment.
18. Necessary training / instructions on operation of the system should be given by the qualified engineers of the tenderer firm to NIMHANS technical staff/sat free of cost after completion of the installation.
19. The successful tenderer should immediately submit an acceptance letter duly signed and sealed for the rate/s and offers agreed by both the parties to the Head of the Institution within reasonable time on receipt of the Purchase Order (Agreement Specimen will be enclosed with Purchase order & Stamp duty to be paid by the tenderer). The successful tenderer should also furnish a Bank guarantee only from a Nationalized bank to the extent of 10% of the total purchase order value, valid for 60 days beyond the completion of the warranty period of the equipment, no split period bank guarantee will be entertained.

In the event of the successful tenderer failed to supply the item/execute the agreement/submit the Bank Guarantee the EMD deposited by them shall stands forfeited.

**20. Payment terms:**

**18.1** Payment will be made only after good working condition of the equipment certified by the end user. **NO ADVANCE PAYMENT WILL BE ENTERTAINED.**

**18.2** In case of foreign payments made by Letter of Credit (LC) or wire transfer, bank incidental charges within India will be borne by the Institute and outside of India should be borne by tenderer.

**18.3 Any amendment or extension of LC sought by the tenderer thereafter amendment charges should be borne by the tenderer only.**

**21. Uptime Guarantee:**

Penalty Clause for non-functioning of equipment in term of hardship to the patients and financial loss to institute: 95% up time of 365 days (24 hours a day) that is from the day of successful handing over of the whole complex. The company takes the responsibility for the functioning of all the components and equipment, including the third party items supplied and included in the project. The total downtime annually for any reason/involvement of any of the components cannot exceed 5% (all inclusive). No penalty will be levied for the first 24 hours after breakdown. Subsequently, 1.00 Lakh will be levied as penalty for every 24 hours of downtime until 7 days from the day of breakdown. If downtime exceeds 7 days the penalty will be 2.00



- Lakh/day from the date on which the equipment broke down. In addition to this, warranty period will be extended at double the rate of the downtime period.
22. If, at any time, during the said period, the supplier reduce the said prices of such Materials/Equipment or sales such Materials/Equipment to any other person/organization/Institution at a price lower than the chargeable, the company shall forthwith notify such reduction or sale to the Director, NIMHANS and the price payable for the Materials supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.
  23. The losses to NIMHANS, Bengaluru, if any incurred on account of purchase made elsewhere by failure, neglect or refusal on the part of the tenderer to supply according to the terms of agreement will be recovered from them. If any article or things supplied by the tenderer have been partially or wholly used or consumed in the hospital and they are subsequently found to be in bad condition, unsound, inferior in quality or description, not in accordance with samples or otherwise faulty or unit for use, the wholesome of the contract price or price of such articles or things will be recovered from the tenderer. The tenderer will not be entitled for any payment whatsoever, for such articles for infringements of the stipulation of the conditions or for justifiable reasons the contract may be terminated by the Director and the tenderer shall be liable for losses sustained by the NIMHANS on the consequences of the termination which may be recovered from the EMD/Bank Guarantee or from their invoices due to them. In the event of such amount being insufficient, the balance will be recovered personally from the tenderer.
  24. Any corrections/changes in the tender will be uploaded as corrigendum in the NIMHANS and E procurement websites only.
  25. If the tender last/opening date falls on any general/government/institute holiday(s), then the successive dates will be postponed by equivalent days of holiday(s), however the time remains unchanged.
  26. The Director reserves the right of ordering/not ordering/cancelling/increase or decrease the quantity and to reject any or all tender quotations without assigning any reason. The decision of the Director, NIMHANS, Bengaluru, shall be final in all the controversies that may arise in the matter. Any dispute arising out of this will be subject to the jurisdiction of the Court in Bengaluru.
  27. Failure to adhere any of the above terms and conditions the bid(s) may be rejected and EMD may be forfeited.
  28. None of the terms and conditions of the supplier shall be applicable to the purchase contemplated hereunder, irrespective of it being attached to any documents to be provided to NIMHANS. Such exercise shall have no meaning and binding effect unless the same is accepted by NIMHANS in writing.

**NOTE: Please keep checking the NIMHANS and E-Procurement websites regularly for any further updates.**

**Sd/-,Director**



**DECLARATION**  
**(TO BE UPLOADED BY THE TENDERER)**

Sl. No. of the Item :.....

Name of the company(tenderer) :.....

To

The Director,  
National Institute of Mental Health & Neuro Sciences  
(Institute of National Importance)  
Post Box No. 2900,  
Hosur Road, Bengaluru – 560 029

Dear Sir,

1. I/We hereby submit my/our tender bid for the .....
2. I/We have remitted the application fee and EMD of ` .....through Credit Card/Direct Debit/Net Banking/National Electronic Funds Transfer (NEFT).
3. I/We have gone through all terms and conditions of the tender documents before submitting the same.
4. I/We hereby agree to all the terms and conditions, stipulated by the NIMHANS, in this connection including delivery, Installation, Warranty, Penalty etc. All relevant documents and Technical bid are uploaded as per the tender terms and conditions. Any violation in uploading the documents, my/our tender bid may be disqualified.
5. Financial bid is quoted as per tender terms and conditions clause no. 6, failing which it will be presumed that the rates are door delivery price.
6. Tender bids are duly signed (No thumb impression should be affixed).
7. I/We undertake to sign the contract/agreement, if required, within reasonable time from the date of issue of the letter of acceptance, failing which our/my security money deposited may be forfeited and our/my name may be removed from the list of suppliers at the NIMHANS, Bengaluru.

**Yours faithfully,**

**Signature of Tenderer & seal**



**CHECK LIST**  
**(TO BE UPLOADED BY THE TENDERER)**

1	Name & Address of the tenderer		
2	Name & Address of the Manufacturer		
3	Name of the Equipment & Model Quoted		
4	Validity of the Quotation	4 months from the due date	
5	a. Installation Period b. Warranty Period	30 Days from the date of site handover 5 Years from the date of successful installation	
6	Technical Bid (Yes or No against each item)	a. Application Fee submitted	
		b. EMD enclosed submitted	
		c. Brochure/Catalogue & Data Sheet enclosed	
		d. Manufacturer Proprietary certificate enclosed	
		e. Pre requirements details enclosed	
		f. List of users enclosed	
		g. Copy of GST, PAN, TIN document	
		h. Distributor authorization letter	
		i. Non-blacklisting certification enclosed	
		j. Declaration enclosed	
7	Financial Bid Submitted (Yes or No against item a & b, currency symbol against item c)	a. NIMHANS DAP equipment cost quoted	
		b. 5 years warranty	
		c. Currency in which financial bid is quoted	
8	Training provided (Yes or No)		
9	a. Whether after sales, service is available in Bengaluru? If yes, quote		
	b. What is the arrangement for post contract / Warranty monitoring of the equipment?		
10	What is the Agency commission payable? If applicable		
11	Details of the EMD Submitted	Transaction No..... for `..... Bank name:	
12	Any Other Information (Enclose separately in letter head – Yes/No)		

**Signature of Tenderer & seal**



**For Contact:**

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**Specifications for The Stain-Free and Traditional Western Workflow Complete Setup with Imaging system:**

The Stain-Free and Traditional Western Workflow Complete Setup with Imaging system should be Western Workflow set up that will facilitate speed and validation at each step of a western blotting experiment - from running gels to quantitating proteins. The set up should consist of the following and should be supplied with all the necessary accessories.

**1. Separation of proteins: Mini SDS PAGE Apparatus with suitable power pack**

- Gel dimensions: 8.3 X 7.3 cm for Handcast gels and 8.6 X 6.8 cm Precast gels approximately
- Minimum simultaneous 4 gel running capacity in 45 mins
- Spacer thickness should be of 1mm and suitable combs of 5, 9, 10, and 15 - 4 Nos. each
- If spacers are integrated into the plates, at least 4 set of plates to be provided.
- Combs, casting stand, casting frame should be provided - 2 nos each and 4 Gel releasers.
- Sets of glass plates – 6 Nos.
- Sample loading guide for easy sample loading – 2 Nos.
- Electrode assembly with power cable, companion running module (dummy plate) modular tank with lid

**2. Powerpac Specifications**

- Powerpac power supply should fits all requirements from mini Vertical and high-throughput electrophoresis to blotting.
- Output specifications 500 V, 2.5 A, 300W
- Output range (programmable) 10-500 V, fully adjustable in 1 V increments
- 0.01-2.5 A, fully adjustable in 1 A increments
- 1-500W, fully adjustable in 1W increments
- Type of output Constant voltage, current, or power with automatic crossover
- Output terminals 4 pair recessed banana jacks in parallel
- Timer Up to 99 hr, 59 mm
- Pause/resume function Yes

**3. Transfer of proteins- western blotting apparatus**

- Fast blotting system with four gel simultaneously in 3 mins, 2 different protocol at same time





- 4 different cassettes for separate transfer
- Input power: 100–240 VAC, 276 VA, 50–60 Hz, 175 W max
- USB port: Yes, input only, for firmware updates
- System should have Cooling fan
- Should have inbuilt Power Pac supply

#### User Interface

- 18 button keypad, 128 x 64 pixel monochrome display
- Programmable methods: Up to 25 user-defined
- Preprogrammed methods: Standard SD, 1.5 mm gels, High MW, Low MW, Mixed MW,
- Audible alarm: Yes
- User notifications should have following features:
  - Power fail during run
  - No-load detection
  - Overload
  - No cassette detection
  - End of run
- Should be open system but vendor should also have dedicated consumables for fast transfer
- **Accessories for both wet and dry transfer should be included**

#### 4. Visualization of proteins

- All-in-one flexible imaging System - for fluorescence, chemiluminescence, and colorimetric gel and blot detection, analysis and documentation in a single system
- The system should have the advantages of using a wider range of fluorescent reporters (RGB, far red, and near infrared) including StarBright™ Fluorophore along with analyzing various dyes like Quantum dots, Silver stain, Ethidium Bromide, Coomassie Blue, Flamingo, Nano orange, Sypro ruby, Sypro orange, Sybr safe, Sybr gold, Stain Free gels and stain free blots
- Capable of Multiplex fluorescent western blotting — detect up to three proteins simultaneously
- Should also support stripping and reprobing
- System Should have both **Stain-free and with Stain protein normalization** — for normalization of bands to total protein in both in gels and blots
- System should have an option of using three sample trays and also be using smart tray technology that can automatically recognizes the application-specific trays and adjusts imaging parameters and software options accordingly
- System with true 16 bit CCD (not A/D) camera; pixel density of 65,536 gray levels.
- Individual pixel size should be at least 4.54 x 4.54 µm or bigger.
- Camera resolution > 6.1 megapixel.



- The instrument should provide excellent quantitative data from a single blot having very intense and weak signals in a single image; to facilitate the same instrument's dynamic range should be at least 4 orders of magnitude.
- Instrument should provide highest level for sensitivity and hence must have minimal dark current with maximum limit of 0.002 e/p/s and low read noise of not more than 6e-.
- The camera should have Peltier based cooling of minimum -25°C .
- Quantum efficiency at 425 nm should be 50% or more and peak quantum efficiency as 75% or better.
- Motorized zoom fast lens with f/0.95
- Light sources should include – Trans-UV, 302 nm excitation, Epi-white, Trans-white (requires White Sample Tray), Trans-blue, 450–490 nm excitation (Option of Blue Sample Tray), Epi-blue, 460–490 nm excitation, Epi-green, 520–545 nm excitation, Epi-red, 625–650 nm excitation, Epi-far red, 650–675 nm excitation, Epi-near IR, 755–777 nm excitation
- Filter Holder: Filter position number and applications:
  - 1, chemiluminescence
  - 2, 518-546 nm filter for blue emitting fluorophores and stains
  - 3, 700-730 nm filter for far red emitting fluorophores and stains
  - 4, 577-613 nm filter for green emitting fluorophores and stains
  - 5, 813-860 nm for near IR emitting fluorophores and stains
  - 6, 675-725 nm for red emitting fluorophores and stains
  - 7, 590/110 nm standard filter to perform protein and DNA gel and blot imaging
- Instrument should have provision for protective UV shield for use during band excision with safety interlocks to avoid un-intentional UV exposure to the user.
- Maximum imaging area should be 21 x 16.8 cm
- Should provide image acquisition with automatic zoom, focus, and iris adjustment without the need for users to focus or adjust aperture settings.
- The instrument should have onboard attached touchscreen of 12.1” with multi-touch capability (4 points) enabling users to easily interact with the touchscreen to acquire, assess and export images. Touchscreen actions should include – tap, double tap, pan, scroll and pinch to zoom.
- Instrument should have multiple input/output ports with minimum 3 USB ports allowing users to connect USB devices (like keyboard, mouse, data storage, and printer). One USB port should be provided on the front panel for easy export to USB. Also, system should have one Ethernet port so that users can transfer image files via Ethernet to networked computers.
- Factory calibrated flat fielding for ensuring uniform data for all applications. System should be calibrated for image area, focus, and flat field correction at the factory and files stored in the integrated PC.
- The measure of non- uniformity of the Imaging system should be  $\leq 10\%$  linear deviation when measured horizontally across the Imaging area of 21 x 16.8 cm



- Suitable PC should be supplied (detailed specifications below)
- The software should be compatible with both Windows and MAC.

#### 5. Validate and quantitate Via Total Protein Normalization Method

- The Imager and the Software should be equipped for total protein normalization with and without the need of stripping and reprobing.
- Software should have highest level of automation in hardware calibration, image optimization, capture, and analysis.
- Should have automated workflow recorded in a protocol file from image capture to results thus eliminating need for training.
- 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.
- Should have automated image capture driven by a selected gel or blot application.
- Should generate publication ready images with user defined dpi, dimension and format with one click export option thus eliminating the need of using other software like photoshop.
- Should generate customizable reports.
- Signal Accumulation Mode (SAM) for easy optimization of exposure time for chemiluminescent detection.
- Software should be compatible with both Windows and MAC and the PC/Hardware provided by vendor.
- Software should be provided for minimum 20 users with complete analysis features.
- Software should be able to export images on a 16-bit and 8-bit tiff images with a one-click export option.
- Software should be able to export images in multiple formats with minimum options of exporting in .tiff, .png, .jpg and .bmp
- Software should have both automated and manual normalization feature for normalizing western blot signals of target band with either a housekeeping protein band or total lane protein.
- Should be able to detect bands by both automatic and manual method; perform lane, volume, dendrogram and Contour Analysis
- Should have highest level of automation for normalization, band detection, annotation and other analysis



## 6. Desktop Product Specification

Specification	Sub-spec	
Processor	Processor make	Intel
	Processor generation	8 <sup>th</sup>
	Processor	Intel i7-8700
Chipset	Chipset	GIGABYTE Z370 HD3 Motherboard
Graphics	Graphics type	Dedicated
	Graphics card description	NVIDIA GeForce GT710
Storage	Type of hard disk drive	SSD + HDD (SATA)
	Hard disk drive size (GB)	120 (primary for OS) + 1024 (secondary storage)
	Hard disk drive speed (RPM)	SSD (72000) + HDD (7200)
RAM	Type of RAM	DDR4
	RAM size (GB)	16
	RAM expandability up to (GB)	None
	RAM speed (MHz)	2400
Operating system	Operating system	Windows 10 Professional
	OS certification	Microsoft Windows
Display	Display size (inch)	27
	Type of display	Non-touch, Ultra HD, 4K, LED lit
	Display resolution (pixels)	More than 3500 x 2100
	TCO certification	Yes
Ports	USB port 2.0 (No.)	4
	USB port 3.0 (No.)	2
	VGA port	To be available
	HDMI port	To be available
	Thunderbolt port (No.)	To be available
	Display port	To be available
Input devices	Keyboard	Standard, wireless
	Mouse	Optical scroll, wireless
	Audio	Integrated sound card, external speakers
Connectivity	Wi-Fi connectivity	802.11 ac
	Bluetooth connectivity	4.0 or higher
	LAN port	Integrated Gigabit Ethernet 10/100/1000
Certification	BIS registration under CRS	As per GOI norms
	BIS registration no	
	Certifications available	
	ROHS compliance	
Power	Maximum wattage (Watts)	65



	Power efficiency (%)	Minimum 80
Others	Webcam	Full HD
	DVD R/W	16x
	Optical drive	Integrated
	Stand	Standard
	On site OEM warranty (year)	As per GOI norms
	CPU casing and appropriate power cables	To be provided
Printer with Scanner	Functions: Print, Copy, Scan Wireless direct printing; Ethernet networking; USB; Wireless (Wi-Fi®) Touchscreen; Automatic document feeder; JetIntelligence cartridge; Optional high-capacity trays; Front USB flash drive port; Scan to email; Scan to PDF; Two-sided printing; Print from mobile device	1 No.
Additional Softwares	Microsoft Office	1 No.
	Adobe Photoshop	1 No.

**7. Warranty: Minimum 5 years warranty**