



Government of West Bengal
Office of the Principal
Nil Ratan Sircar Medical College
Kolkata – 700014; Phone: 033-2286-0033
Website: www.nrsmc.edu.in; e-mail: principalnrsmc@gmail.com

Memo No. NMC/STORE/ 2599

Date: 30.04.2022

**RE-E-TENDER NOTICE (NIT No: 09 / 22-23) FOR PURCHASE AND INSTALLATION OF
EQUIPMENTS FOR DIFFERENT DEPARTMENT OF
NIL RATAN SIRCAR MEDICAL COLLEGE, KOLKATA - 700014.
(Through Pre-qualification)
(Submission of Bid through NIC e- tender portal)**

The Principal, Nil Ratan Sircar Medical College, Kolkata – 700014, is going for e-Tender on behalf of the Health & Family Welfare Department, Government of West Bengal for obtaining the rate of equipment as per list from bonafide Manufacturer/Direct Importer/Authorized Distributors. Necessary earnest money to be submitted for participation in the Tender is appended in the table below. Exemption of EMD is applicable to agencies having valid, item specific certificate issued by appropriate authority of Govt. of West Bengal.

1)

Serial No	Name of equipment	Department	Quantity	Earnest Money
1	Blood Cell Separator(Apheresis Machine)	Blood Bank	1 pc	Rs. 30000.00

2)

Serial No	Name of equipment	Department	Quantity	Earnest Money
1	Real Time PCR	DBT Nidan Kendra	1 pc	Rs. 20000.00

3)

Serial No	Name of equipment	Department	Quantity	Earnest Money
1	APC Cryo	Respiratory Medicine	1 pc	Rs.30000.00

All bidders must complete their technical demonstration of their quoted items within ten (10) days from the date of opening of technical bid to the concern Department.

1. General Instructions:

In the event of e-filing, intending bidder may download the tender documents free of cost from the website: <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate or from the Health & Family Welfare Department's website www.wbhealth.gov.in.

2. Submission of Bids:

Both Technical Bid and Financial Bid are to be submitted concurrently duly digitally signed, in the website <http://wbtenders.gov.in>. All papers must be submitted in English language.

3. Time Schedules:

The time schedule for obtaining the bid documents, pre bid meetings, registration with the tendering authorities, the submission of bids and other documents etc. will be as per **the list provided in clause no 23** as given below. Bidder are instructed to wait for uploading any corrigendum arising during pre bid meeting, before submitting their bid online.

4. Eligibility for Quoting:

Only Manufacturers/direct Importers/Authorized Distributors are eligible for quoting. The price is to be quoted in Indian Rupees including cost of insurance, packing, forwarding, freight charges, clearing charges and installation of the new instrument and exclusive of GST and other taxes which are to be quoted separately in the BOQ. Agency commission is not permissible.

5. Submission of Tender:

The tender is to be submitted in Two Bid System (Technical Bid or Bid A & Financial Bid or Bid B).

(A) Technical Bid or Bid A:

"BID A": PART I

File containing Technical Bid only - single file with multiple scanned pages containing Statutory and My documents separately.

(a) STATUTORY Cover containing the following documents:

(SINGLE FILE MULTIPLE PAGE SCANNED)

Essential Requirements of the Tendering Firm for participation" shall contain all papers related to the essential requirements of the Renderer for participation in the tender viz.

Sl. No.		Page no
1	Duly filled in CHECK LIST in the prescribed format. Page number of documents must be mentioned in the check list before uploading the same.	
2	Application in the prescribed format given in Annexure I	
3	Authorization letter of signatory from Company in Annexure II	
4	Copy of agreement between the manufacturer and the Distributor in Annexure III	
5	No conviction certificate in the form of an Affidavit as per Annexure-IV	
6	A Proof of submission of applicable END	

(b) NON STATUTORY/MY DOCUMENTS Cover Containing the following documents:

Essential Requirements of the Tendering Firm for participation” shall contain all papers related to the essential requirements of the Renderer for participation in the tender viz.

Sl. No.	Category	Sub Category	Sub Category Description	Page No
A	Certificates	A1. Certificates	PAN Card of the authorized signatory	
			Professional Tax Registration certificate	
			GST Registration certificate	
B		C2 : CREDENTIAL 2	A declaration in respect of existence of a fully equipped service centre in or around Kolkata in respect of the relevant item.	
			List of purchaser in Govt. Institutions of repute, for last two years	
C.	FINANCIAL INFO	PAYMENT CERTIFICATE 1	Income Tax Returns submitted for the last three years	
		Audited P/L & BALANCE SHEET		
		P/L & Balance sheet of the last three years		

BID A”: PART II

Technical specifications of Instrument (in PDF/Excel format. Must mention Make, Model, exact features of the offered item against each point given in the specification chart). **Improper filling &/or suppression of facts/false statement will lead to disqualification and penalty in the form of permanent black listing.**

(B) Financial Bid B

COVER “B”: Separate file containing financial document only.

(a) Financial Bid: BOQ in INR (in excel sheet)

The folder marked as “Financial Bid” shall contain ALL INCLUSIVE PRICE in INR only and should include base price along with the cost of allied works and services which are to be undertaken (like installation, commissioning of equipment or PC etc.), cost of insurance, packaging, forwarding, delivery charges, clearing charges of the new instrument to be purchased. **GST and any other applicable tax. should be quoted separately. Five years CAMC rate should also be quoted separately** in the template for Bill of Quantities (BOQ). However, the L1 will be determined on base price plus admissible taxes only. GST quoted will be directly remitted to Government account as per existing norms of Finance Department.

The tenderers are required to submit the hard copies of Cover A (Transaction document of EMD , General Documents and Technical Specifications) as per schedule described in the time line vide clause 23, preferably by **speed post/ courier**, to the office of the Principal, NRS Medical College, Kolkata. Submission of hard copy of Cover A to the office of the Principal, Nil Ratan Sircar Medical College, Kolkata, is for reference only while examining the technical bid on line and will not be treated as substitute for on line submission. **Submission of hard copy of Bid B is totally prohibited.**

6. Evaluation of Tender:

During tender evaluation process, "Bid A" will be opened first. Those tenderers who would qualify the Statutory & Non-Statutory requirements on the basis of technical and commercial documents will be identified and "Bid B" i.e. financial bid of only those qualified bidders will be opened. Verification of hard copies of the audited balance sheet and Profit & Loss Accounts of the Tenderers for the last three years will be made if deemed necessary before opening the Financial Bid (Bid B) of the technically qualified bidders. If found suitable on the basis of above pre-qualification, the tenderer quoting the lowest rate, will be considered as successful.

7. Earnest Money:

The earnest money of the tenderer is liable to be forfeited if the tenderer withdraws his tender as a whole or for any particular item or items at any stage after opening of the tender or fails/refuses to enter into written agreement for any or all of the items of his accepted bid within the time specified when requested to do so or fails to furnish Performance Bank Guarantee within the stipulated time. **EMD should be deposited online in the Pooling Account of Government of West Bengal maintained at ICICI Bank, RN Mukherjee Road Branch in the manner as prescribed in Government Order no. 3975-F(Y) dated 28/07/2016. (Order copy is available at the site-www.wbfin.nic.in)** Hard copy of Bid A should reach the office on or before the stipulated date as mentioned in clause 23.

8. Rate:

The price is to be quoted in INR only including cost of insurance, entry tax, packaging, forwarding, delivery charges, clearing charges and installation of the new instrument. The basic rate should be furnished inclusive of Transportation Cost, Insurance, Testing Charges, Incidental Charges etc. but excluding GST and any other applicable taxes etc. which should be quoted separately in the template for Bill of Quantities (BOQ).

9. Order & Supply:

The tendering authority has the liberty to ask for **performance demonstration** of any item during any stage of the tender process, before placing order for supply. In case of dissatisfaction, the authority will have the right to disapprove the offer of L1 bidder and go for the next bidder. Orders for supply of the approved products will be placed with the successful tenderers after execution of agreements and such supply shall have to be made in such installments as may be fixed or spread over the period to be specified in the supply orders to be made in pursuance of the agreements. The equipment is to be transported in such packaging so as to avoid damage to primary package of manufacturer. The successful tenderer will have to supply within the specified time schedule that had been assured at the time of selection as supplier.

The tendering authority will be at liberty to enhance the quantity of the item tendered up to 40% of the original required quantity. Bidder will have to consider the same while bidding as supply of the enhanced quantity will be mandatory as the original one.

10. Withdrawal /Cancellation & Purchase Policy of Tendering Authority:

The tendering authority reserves the right to withdraw any item from the tender at any stage. The selection of such item, if already made in favour of any tenderer, shall be treated as cancelled. The tendering authority reserves the right to reject or accept any tender or part thereof at any stage or to split any tender without assigning any reason. Withdrawal of tender or any revision after submission of tender by the tenderer will not be allowed.

Purchase will, however be made following the existing purchase policy of the Govt. of West Bengal and its amendment(s) made from time to time. The purchase policy of the State Government as provided in the West Bengal Financial Rules, the policy of price preference in particular incorporated under Notification No. 10500-F dated 19.11.04, 5400-F(Y) Dated 25/06/2012 and subsequent relevant orders should be observed in considering the tenders.

11. Important Instruction with regard to Submission of Tender:

The rate should be quoted in Indian Rupees for a particular brand or model (model no. of the offered item only must be mentioned in the appropriate column of the 'Tender Form'. Alternative offer will not be accepted). The tender shall be cancelled for the quotation of item without its brand name, model, model no. etc. Detail information regarding the manufacturer and the item quoted in the 'Tender Form' should be furnished.

12. Spare Parts:

The Bidder will undertake that supplies of necessary maintenance equipment and spare parts will be made available for all items/equipment and the complete system for at least five years on a continuing basis. However, this does not relieve the supplier of any warranty obligations under the contract.

13. Guarantee / Warranty Period:

i) The machine/Instrument should be covered by free on-site comprehensive Warranty for one year after successful installation. The tenderers must quote for 5 (Five) years' comprehensive on-site AMC of entire system (including all spares & labour) after the date of completion of free warranty period. The CAMC charges for 5 years to be quoted in the BOQ, will however be determined on extant Govt. rules in this regard.

ii.) All faults appearing and their rectification shall be periodically advised to the institute, the period being not more than two weeks.

iii.) Any lacuna or lacunae noticed in the functioning of the installation as a result of any design or other feature shall be rectified by the supplier free of cost within 72 hours of call log.

14. After Sales Services and Maintenance Contract:

After sales service must be provided by the supplier, during and after warranty period of the equipment. Selected vendor will remain liable to attract penalty for violation of machine downtime as per agreement. The selected vendor or his authorized servicemen has to attend the machine within 72 hours of Call Log. It is desirable to have a fully equipped service centre in or around Kolkata.

15. Delivery, Installation and Commissioning

i. Delivery of the goods at the purchaser's premises shall be completed by the Supplier in accordance with the terms specified by the purchaser.

ii. The installation, testing and commissioning of the proposed system shall be completed in accordance with the order.

iii. All items are to be delivered within six weeks from the date of placement of order.

iv. In case of distributor, the firm should be direct distributor of manufacturing unit. **Sub distributor authorization by distributor will not be accepted at all.**

16. Penalty Clauses:

PENALTY FOR FORMATION OF CARTEL OR FURNISHING OF FRAUDULENT/ MISLEADING DOCUMENTS: If during the tender process or at any stage during the validity of the tender period, it is found that a tenderer(s) has formed a cartel in what so ever form or name to fix up the rates or suppliers to the detriment of the fairness of the tender process, penal measures shall be initiated. Similar penal measures shall also be initiated against those tenderers who have submitted false/ misleading/ fraudulent documents or made incorrect declarations. The penal measure will be forfeiture of Earnest Money, forfeiture of Performance Bank Guarantee if enlisted as a supplier in addition to any other legal action against the firm.

17. Appeal:

Appeal against the decision of the Principal, Nil Ratan Sircar Medical College, Kolkata and then to impose such a penalty will lie with Tender Selection Committee. Review against the decision of the Tender Selection Committee (TSC) will lie with Health & F.W. Dept. of the Govt. of W.B. The Special Secretary/Secretary/Principal Secretary will be the appellate authority within the Department of Health & Family Welfare, Government of West Bengal. Before imposing any penalty as per clauses 20, 21 and 22 the concerned supplier may appeal to the authority citing the proper reasons for non- imposing the penalty as stated.

18. Agreement:

On a tender being accepted, intimation of acceptance will be forwarded to the tenderer by Principal, Nil Ratan Sircar Medical College, Kolkata. After communication of the same, the tenderer will have to execute agreement in the prescribed form with the Principal, Nil Ratan Sircar Medical College, Kolkata. In case any direct purchasing unit wishes to go for a separate agreement, the head of the purchasing unit must get written permission to that effect from his controlling authority. This present document and the tender forms filled in by the tenderer or copies thereof in so far as they are not inconsistent with these terms & conditions will be incorporated as part of the agreement. Such agreement will be binding on the tenderer.

19. Validity Period of Agreement:

The contract period will be for a period 01 (one) years from the date of finalization of tender **which can be extended for a further period of 6 months if Tender Selection Committee feels necessary.**

20. Performance Bank Guarantee:

The performance bank guarantee will be mandatory for all suppliers and will not be waived in any case. The successful tenderers shall be required to furnish the 'Performance Bank Guarantee' from any Nationalized/Scheduled Bank acceptable to Govt. of West Bengal for One year @ 10% of quoted base rate per item for which the tenderer has been selected as supplier. The performance bank guarantee will have to be renewed after completion of Free Warranty period, for additional 5 (Five) years under the paid CAMC period before transfer of the CAMC amount to bidder's account. Mentioning of West Bengal Government Pooling Account for Performance Bank Guarantee No. 000605030134 IFS Code ICIC0000006 MICR 70229002 at ICICI Bank, RN Mukherjee Road Branch, Kolkata on the body of Performance Bank Guarantee is made mandatory vide Finance Department GO No. 2691-F(Y) dated 02/05/2017.

21. Inspection: Before submitting the tender, the intending tenderers should thoroughly get acquainted themselves with the proposed supply and installation by local inspection of site and take into consideration the site condition and other criterion for effecting smooth supply. No claim whatsoever will be entertained afterwards.

22. Payment Terms:

Payment will be made electronically by Govt. of West Bengal approved system after execution of due supply and successful installation as ordered, subject to :

i. Submission of Performance Bank Guarantee in terms of Clause 20 and subject to penalty clause in terms of Clauses 16.

ii. Supply of the materials as per specification as provided in the tender documents and the catalogue. Supply of the materials must be made within the stipulated period as specified in the work orders.

iii. On being selected, the successful vendors will have to submit one application to the Principal, Nil Ratan Sircar Medical College, Kolkata stating the name of the payee/recipient, Bank account no with IFS code of the payee/recipient for making e-payment. Payment will only be released after satisfactory installation and verification of following items-

1. Supplier's invoice in original
2. Challan and installation certificate
- 3 Any other thing of importance on the discretion of College Authorities.

23. Dates & Information:

S. No	Items	Dates
1	Date of uploading of N.I.T. Documents (online) from this end.	05.05.2022, 1.00 P.M.
2	Documents download start date (Online)	05.05.2022, 1.00 P.M.
3	Date of hoisting of documents at Departmental Website (www.wbhealth.gov.in)	05.05.2022, 1.00 P.M.
4	Date of Pre Bid Meeting and workshop with the intending bidders at the office of the Principal of NRS Medical College	07.05.2022, at 12.30 P.M
5	Bid Submission starting (On line)	07.05.2022, 4.00 P.M. onwards
6	Bid Submission closing (On line)	23.05.2022 at 4 P.M.
7	Bid opening technical bid(online) (Bid A)	25.05.2022 at 4.00 P.M.
8	Date of uploading list for Technically Qualified Bidder (online)(Bid A)	26.05.2022, 10 A.M. onwards.
9	Date & for opening of Financial Proposal (Bid B) (Online)	To be declared later
10	Date of uploading of list of bidders along with the approved rate	To be declared later

Principal, Nil Ratan Sircar Medical College, Kolkata, reserves the right to change the above schedule in case of any exigencies after putting up a notice in the departmental website and Notice Board of N R S Medical College, Kolkata.

24. Validity of Tender:

- i. The tender will remain valid up to 1 (one) year from the date of finalization of tender **which can be extended for a period of 6 months**. Any objection raised by any bidder in this respect will not be entertained. No informal tenderer will be entertained in the bid further.
- ii. During the scrutiny, if it comes to the notice of tender inviting authority that the credential or any other paper found incorrect/ manufactured/ fabricated, that bidder would not be allowed to participate in the tender and that application will be out rightly rejected without any prejudice.
- iii. Prospective bidders must take training from authorized agencies before submission of their bids.
- iv. The Tender Selection Committee reserves the right to cancel the N.I.T. due to unavoidable circumstances and no claim in this respect will be entertained.

25. NO- CONVICTION CERTIFICATE:

No conviction certificate in the form of An Affidavit is to be submitted in the prescribed Pro-forma as Annexure-IV attached herewith from Notary Public/ Judicial Magistrate/Executive Magistrate.



Principal
NRS Medical College
Kolkata-14

CHECK LIST (MUST BE PROPERLY FILLED)

NOTE: For Non applicability for some documents please mention "NA" in the check list. Must be mention page number in the check list.

S. No	Item	PI put tick or NA	Page No.
1	Application submitted in Annexure I		
2	Annexure II (Authorization letter of signatory from the Company)		
3	Annexure III (Copy of agreement between the Manufacturer and the Direct Importer/Distributor)		
4	No conviction certificate in the form of an Affidavit as per Annexure-IV.		
5	Income Tax Returns submitted for the last three Assessment years		
6	GST Registration certificate(not provisional)		
7	PAN Card of the organization and authorized signatory.		
8	Manufacturer's guarantee (in case of Distributors and Direct Importer, to be obtained from manufacturer)		
9	Audited P/L & Balance sheet of last three years		
10	Technical specifications of Instrument (in PDF/Excel format. Must mention Make, Model, exact features of the offered item against each point given in the specification chart).		
11	Trade License in the name of participating firm		
12	Certificate of country of origin of the product		
13	Registration with Registrar of Companies		
14	Valid Manufacturing License(if applicable)		
15	Import License with validity (for importers)		
16	List of purchaser in Govt. Institutions of repute, for last two years		
17	A declaration in respect of existence of a fully equipped service centre in or around Kolkata in respect of the relevant item.		
18	A Proof of submission of applicable END		

ANNEXURE-I

APPLICATION FORMAT

(To be furnished in the Company's official letter pad with full address and contact no etc)

To The Principal, Nil Ratan Sircar Medical College, Kolkata-700014.

Sub: Tender No.-----Dt.------(Name of the Item -1)-----2)-----
-----3)-----4)-----

----) for purchase and installation of equipment for department of, Nil Ratan Sircar Medical College, Kolkata-700014.

Ref:-

Sir,

Having examined the pre-qualification & other documents published in the N.I.T, I /we hereby submit all the necessary information and relevant documents for evaluation:

1. That the application is made by me / us on behalf of.....

In the capacity of.....duly authorized to submit the offer. The authorization letter from the Company is attached in Annexure II.

2. We accept the terms and conditions as laid down in the NIT mentioned above and declare that we shall abide by it for throughout the tender period and its extensions, if any.

3. We are offering rate for the following item /items and assured supply to the Health & Family Welfare Department, Government of West Bengal as per Table-1 (Instrument Specification)

4. a. We propose that the order and bill should be raised in our name.

For liasoing, we have appoointed M/S having its office at (Address, contact no and e mail address) as C&F agent /Liasoner /Contact person/..... Others (strike out whichever is not applicable) as per clause of the NIT

b. The agreement between ourselves and the distributor/C&F/Liasoner & other documents as prescribed is attached in annexure III

5. In the event of being selected, supply will be made within the stipulated period excepting the condition which is beyond our control.

6. We understand that:

(a) Tender Selection Committee/ H&FW Dept can amend the scope & value of the contract bid under this project.

(b) Tender Selection Committee/ H&FW Dept reserves the right to reject any application without assigning any reason.

Date :-

Signature of applicant including title
and capacity in which application is made.

Contact details -

Mobile:

E mail ID:

Annexure II

Authorization letter in favour of the applicant (other than Managing Director/ Proprietor) –
from the competent authority.

FORMAT

(To be furnished in the Company's official letter pad with full address and contact no, E mail
Address etc)

(TO WHOM IT MAY CONCERN)

This is to certify that Mr./Mrs.(Name),
an employee of this Organisation as (Official
Designation) is hereby authorized to submit tender online , Vide NIT
No....., Dated..... on behalf of the Organisation.

Signature of the
competent authority with Seal

.....
(Signature of the Authorized Person)

Signature of Mr./Mrs.
.....is hereby attested.

Annexure- III

- a. Copy of agreement between the Manufacturer and the Direct Importer/Distributor in Annexure -III

ANNEXURE-IV

Draft Affidavit Proforma
(Notarized on Rs. 100 Stamp Duty)

I, Sri/Smt.
The Managing Director/Proprietor (etc.) of the Firm.
..... (Name of the firm)

At (address).....

P.O.

P.S.....Dist.....

do hereby solemnly affirm and declare as follows:

- a. That I am not under conviction of any offence making myself liable to be disqualified to supply of Surgical Equipments/Instruments etc. to any Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States.
- b. My Firm has not been blacklisted at present as a whole or for any item/ items as quoted in this tender by any Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States in India.
- c. That no case is pending against me or against my Firm in any criminal court of law in connection with the supply of Surgical/hospital equipment/Instruments to the Govt. or Govt. undertaking Organization / Institution in the State of West Bengal or other State or States (If any case is pending, pl state the details).
- d. *That, I declare that the item or items quoted by me confirms the specification given in the NIT document or higher standard relating to the specification is provided.*
- e. The duly authenticated Technical Data Sheet is uploaded conforming to the prescribed standard.
- f. That, I also declare that if any information subsequently found incorrect or false will it automatically render the tender submitted by me cancelled and make me liable for penal/legal action as per law of the country.
- g. That I do further affirm that the statements made by me in this tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.

Deponent

Equipment Specifications for Blood Cell Separator-Apheresis Machine

1. Description of Function:

Apheresis is a medical technology in which the blood of a donor or patient is passed through an Apheresis Machine that separates out one particular constituent and returns the remainder to the circulation.

2. Operational Requirements

- a) Fully automatic, Microprocessor controlled with access operator control panel such as touch screen.
- b) Should perform both single and double access Aphaeresis.

3. Technical Specifications

- a) In single needle procedure the equipment should continue to process the whole blood during the return cycle (Continuous flow procedure in single access) to reduce the procedure time and increase the efficiency.
- b) Should have auto elutriation separation technique to be able to collect platelets.
- c) True closed system disposable with pre-attached factory fitted ACD, normal saline, collection and storage bags and needles as required.
- d) Equipments should ensure all donor safely parameters before starting the procedure and all time during operation.
- e) Capable of collecting various single donor blood components including peripherals blood stems cells (MNC).
- f) Should be able to collect both single and double needle platelet aphaeresis along with concurrent plasma and / or RBC.
- g) Capable of dong prime with normal Saline and / or mixture of Normal Saline and ACD.
- h) In-built cuff pressures and prompts grip for donor comfort and adequate blood flow.
- i) PBSC (MNC) collection should be fully automatic.
- j) Facility to use platelets additive solution and / or normal Saline for re-suspension and storage fluid in place of plasma
- k) Advance help menu should be available at any time during alarm conditions.
- l) Lower extra corporeal volume, less than 200 to 250 ml in case of both single and double needle aphaeresis.

- m) Yield estimator to help decide yield, volume to be processed and suggested storage fluid and should have optical sensor at PRP line for online monitoring of component collection against the desired yield.
- n) Capable of downloading or printing full procedure report any time after procedure report any time after procedure.
- o) Capable to connect bar code reader if desired.
- p) Should have rechargeable battery to store data and restart in case of power failure.
- q) Continuous monitoring of collection to avoid any contamination through Interface detector.
- r) Inlet and return flow rates up to 100ml/min
- s) The separation of blood should be able to automatically maintain a constant hematocrit to improve collection efficiency and reduce contaminations.
- t) Compatible with sterile factory fitted disposables.

4. System Configuration Accessories, spares and consumables

- a) System as specified.
- b) 30 disposables should be provided with equipment.
- c) Blood Donor Couch (electrically operated)-01.
- d) All consumables required for installation and standardization of system to be given free of cost.

5. Environmental factors

- a) The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
- b) The unit shall be capable of operating continuously in ambient temperature of 10-40 deg C and relative humidity of 15-90%.

6. Power Supply

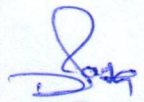
- a) Power input to be 220-240VAC, 50Hz fitted with Indian plug
- b) Suitable Servo controlled Stabilizer / CVT
- c) Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.

7. Standards and Safety

- a) Should be FDA, CE, UL or BIS approved product
- b) Comprehensive warranty for 2 years and 5 years AMC after warranty
- c) Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450
- d) Manufacturer should be ISO certified for quality standards.
- e) Comprehensive training for lab staff and support services till familiarity with the system.

8. Documentation

- a) Certificate of calibration and inspection from factory
- b) List of Equipments available for providing calibration and routine Preventive Maintenance Support as per manufacturer documentation in service / technical manual
- c) List of important spare parts and accessories with their part number and costing
- d) Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out
- e) User / Technical / Maintenance manuals to be supplied in English.


17-06-2020
DR. DILIP KR. PANDA
Director
RBTC, BLOOD BANK
N.R.S.M.C. & H.

Real Time PCR SPECIFICATION

- The system should be automated and integrated with 96 well peltier based for both realtime PCR and post-PCR (end-point) analysis with 6 independently controlled zones.
- It should have interactive touch screen LCD for standalone operation with 8 - 10GB onboard memory for storage of at least 1600 - 2000 runs.
- System should support minimum recommended reaction volume of 10–30 μL /10–100 μL for 0.1/0.2 mL block.
- The Quoted System should support the temperature range from 4°C to 99°C with block ramp for 6°C -9°C/sec, and run time less than 40 minutes.
- System should have six de-coupled excitation and emission filter sets to enable collection of up to 21 unique combinations of wavelengths during a single run for multiplexing five colors or above.
- The System should utilize a single bright white LED source, excitation by LED light source with a > 5years lifespan and detection by CMOS/CCD with whole plate imaging and detection.
- The system should be factory calibrated for the following FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/Texas Red, Mustang Purple, Cy5/LIZ, Cy5.5 dyes
- The system should be able to do applications such as Gene Expression, Genotyping, Copy Number Variation, Pathogen Detection, Strain Typing, and Viral Load, Mutation Scanning, Methylation and other Epigenetic Applications, miRNA profiling.
- The system should be able to do applications such as Protein analysis with proximity ligation assays and Protein Thermal Shift technology.
- Features to assist with 21 CFR part 11 compliance Security, auditing and e-signature, CE, ISO, and MIQE compliant.
- System should detect differences in target quantity as small as 1.5-fold in singleplex reactions, and should have 10 logs of linear dynamic range.
- The system should be able to do single-plate analysis, absolute and relative gene expression, SNP genotyping, presence/absence, high resolution melt, multiplate analysis gene expression studies, SNP genotyping studies.
- The normalization of reaction due to non-PCR related fluctuations should be possible by using any calibrated dye.
- The system can be connected to the online ecosystem and instrument data/status will be automatically uploaded, allow users to access and securely share result with colleague anywhere, anytime from any location with internet access
- The warranty of the instrument should be 3 years from the date of installation.
- System should come with laptop with data analysis software & 2 KVA UPS with 60 min back up.

Handwritten signature
28/03/22

Principal Investigator
DBT NIDAN KENDRA
NRSMC, Kolkata

SPECIFICATION FOR APC, Cryo :-

S.N.	Tender Technical Specification
1	The unit must be suitable to perform endobronchial and transbronchial lung biopsies, recanalization & devitalization.
2	The accessories & consumables should be of same offered Original Equipment Manufacturer.
3	The Cryo System with Argon plasma unit & electrosurgical unit should be USFDA & CE certified. US-FDA & European Certificate marked in accordance with the medical devices directive (93/42/EEC), EN 60601 - 1 type CF & Class I Equipment and Electromagnetic Compatibility Certificate & ISO Certificate.
4	The offered Cryo System should have a monochrome display and activation should be controlled via footswitch
5	The unit must achieve the minimum freezing temperature within 5 seconds with reproducible freeze performance from the first time the probe is used through the last.
6	The unit should have a plug and play operation which sets the appropriate parameters for every probe.
7	The unit should have the provision to provide all the probe related information on the display i.e length, item number, etc.
8	The unit should be mounted on an original mobile cart with wire basket & CO2 Cylinder compatible with CO2 gas as coolant provided with connection pipe for gas exhaust.
9	The unit should be able to show the gas pressure of the connected CO2 cylinder
10	The offered Cryo System should be flow controlled for operating gas pressure between 45 – 65 bar.
11	The unit should have feature to count the reprocessing cycle of the instrument.
12	The Offered System should have Effect settings up to 2 depending on the type of instruments.
13	The unit should be able to store upto 10 configurable programs.
14	The offered System should work on Frequency of 50/60Hz with a line current of 0.4-0.8 Amp.
15	The offered System should of dimension of 410x130x370mm & of weight 6.7 kg.
16	The offered Cryo System should be supplied along with reusable flexible Probe , size of 2.4mm diameter x length 900 mm, 1.9mm diameter x length 900mm, 1.9mm diameter x length 1150 mm
17	The probes should be recommended for low temperature sterilization i.e autoclavable max tempt upto 134degrees
18	The unit should be compatible with integrated RF Electro Surgical Unit for electrosurgical Cut & Coag modes for optimum effect of HF surgery & Argon plasma coagulation unit for haemostasis & devitalization of tissues with non-contact technology for coagulation.
19	The Argon Plasma Coagulation system (APC) should be compatible with Electro Surgical unit
20	APC unit should be plug & play with digital instrument recognition.
21	All settings should be controlled by the ESU.
22	It should have Adjustable Argon flow rate from 0.1 litre/min to 8 litre/min in steps of 0.1 lit/min with automatic regulation of selected flow rate.

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23	It should have automatic monitoring of flow rate and Argon supply with Argon 4.8 type gas (99.998% pure)
24	Initial pressure should be 5+(-)2 bar . Max final pressure should be 2+(-) 0.4 bar
25	Flushing duration should be of 3 seconds.
26	Argon unit should be compatible of accommodating 01 additional socket if required.
27	Should give visual display of Argon gas bottle content and should give Acoustic alarm when bottle content reaches a minimum.
28	It should have facility to connect with central gas supply.
29	It should have facility for activation of unit by foot pedal of the Electro surgical unit.
30	It should have the following modes- Precise APC, Pulsed APC and Forced APC.
31	It should have 3 types of disposable probes- Axial beam, Side fire beam and circumferential probes with filter integrated optimized for different procedures
32	The APC should be supplied with one argon cylinder of 3 L (Indian make) along with pressure reducer sensor
33	Modular Electrosurgery unit with monopolar and bipolar outputs.
34	Max cutting power should be 200 watts at 500 ohm
35	Max coagulation power should be upto 200 watts with frequency 350 kHz
36	Safety system should be NESSY
37	Should have facility to store user settings.
38	Should have TFT display.
39	It should have facilities for assignment of the footswitch, the display makes it possible to assign both the pedal of footswitch or even just one footswitch pedal to the output socket of choice
40	Should have various cutting and coagulation modes in Monopolar and Bipolar.
41	Unit should meet IEC-60601-2-2 (or equivalent standards) for General Requirements of Safety for Electromagnetic Compatibility.
42	Power consumption in standby mode should be max 40-watts.
43	Power frequency should be 50 / 60 Hz with max line current at 8 A.
44	100% washable double pedal Footswitch (IP-X8 certification to be produced)
45	Both Argon plasma unit & electrosurgical unit should be USFDA & CE certified.
46	The equipment should have the following safety features:
	*The unit should monitor the neutral/patient electrode with alarm for improper contact to prevent burns.
	*It should automatically monitor output error in equipment.
	*The unit should have facility for trouble shooting and block power output in case of any fault

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