

Government of West Bengal  
Office of the Principal  
NRS Medical College, Kolkata

Memo No: NMC/Store/ 1157

Date: 02/03/2020

**Re-Tender Notice**  
**(NIT NO. 97 /2019-20)**

Sealed Tender is invited by the Principal, N. R. S. Medical College, Kolkata – 14 for supply of 1. **Blood Bank Refrigerator** for the Department of Hematology of this Institution. Tender form and details/specification can be obtained from the Departmental website [www.wbhealth.gov.in](http://www.wbhealth.gov.in) from 04/03/2020. Last date of submission of Tender is 12/03/2020 up to 1 P.M. Tender will be opened on same date at 2.30 P.M in the office of the Principal, N. R. S. Medical College. Details are available in the Department of Health & Family Welfare, Govt. of West Bengal official Website: [www.wbhealth.gov.in](http://www.wbhealth.gov.in) & College website ([www.nrsmc.edu.in](http://www.nrsmc.edu.in))

**Terms and Condition**

1. Only Manufacturers/direct Importers/Authorized Distributors are eligible for quoting.
2. The rate should be quoted in both figure and word strictly as per sample/mentioned specification along with provided accounting unit only. All rates quoted should be inclusive of all liveable charges (including door delivery charges to the concerned department, packing charges, installation charges), and all other foreseeable incidental charges are exclusive of all applicable taxes should be mentioned separately.
3. The Tendering authority reserves the right to withdraw any item from the Tender at any stage. In such Contingency the selection of such item, if already made in favour of any Tendered shall be treated as cancelled. The Tendering authority also reserves the right to accept / reject / split any.
4. The Tenderer shall be bound for total replacement of the supplied quantity with a fresh supply of equivalent quantity if the item(s) are found to be defective/not as per given specification.
5. Payment will be made only after the delivery of the articles and satisfactory certification by an authority fixed by the administration. No request for advance or part payment will be considered.



6. In case of rejection of any supply on quality grounds or failure or refusal to replace the contracted items within the specified time or according to specifications/quality, the College/Hospital administration will have the authority to recover the losses, if any, by making deductions from any pending claim of the supplier in respect of same tender or any past/future tender.
7. The Specification and Brochure is to be submitted along with the Tender.
8. The Tenderers must accompany all the papers/documents along with the Tender.
9. The Tenderers must submit their tender in two bid method. Main envelope should contain Technical bid in Envelop A and Financial bid in Envelop B. all the envelopes must be properly sealed before submission.
10. Price bid of those bidders will only be opened who will qualify in technical scrutiny by tender selection committee.
11. Earnest money amounting to Rs. 5,000/- (Five thousand) only must be deposited in the form of Demand Draft from any Nationalized Bank in favour of 'Principal, N. R. S. Medical College' payable at Kolkata .
12. The performance bank guarantee will be mandatory for all suppliers and will not be waived in any case. The successful renderers 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.
13. 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.
- 14. Guarantee / Warranty Period:**  
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.
- 15. 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.
16. Existing financial norms will be followed for accepting / cancellation of any bid.
17. In case of more than one L 1 bidder, weightage will be given to document number 7 of the following list.

**List of essential documents to be submitted**

1. Application submitted in Annexure- I
2. Copy of GST Registration certificate showing Registration No. (not provisional)
3. Copy of Valid Trade license
4. Copy of PAN Card of the bidder
5. Copies of Income Tax return for the last three years
6. Copies of Profit & Loss A/c and Balance Sheet for the last three years .
7. Credential of the bidder in successful supply to Govt. hospitals



Principal  
NRS Medical College.  
Kol-14



**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

OR

c. 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:

# TECHNICAL SPECIFICATION

## BLOOD BANK REFRIGERATOR

1. **Purpose of Equipment:** A refrigerator for storing whole blood or red cell packs in a blood bank.
2. **Type of Equipment:** Compression type refrigerator that uses CFC-free refrigerant gas/green gas.
3. **Capacity:** 600 Ltrs /350 bags.
4. **Type:** Vertical
5. **Construction:**
  - Internal: Stainless steel (min. 22g).
  - External: Corrosion Resistant (CR at least 1mm thickness).
  - External Paint: Heat resistant, minimum 7 tanks process (Duly certified by the manufacturer).
  - CFC - free insulation.
  - Drawers: Roll out type, Stainless steel scratch resistant material, perforated on the bottom for perfect and homogeneous distribution of cold air. The separators, if provided in the drawers, should be such that blood bags are held in a vertical position with the label side visible. There should not be any obstruction while rolling out the drawers for loading or unloading purpose.
  - Door:
    - Glass door, opening angle should be minimum 90° or more.
    - Insulation and gasket should be silicone/rubber.
    - Good quality Polyurethane Insulation should be minimum 50 mm.
    - Door opening audio and visual display alarm.
6. **Temperature range:**
  - 2°C to 6°C adjustable / factory set temperature with setting accuracy of ±0.5°C (or better).
  - User Parameter settings: set point, high alarm point, low alarm point, buzzer off time, C/F Temperature choice.
7. **Electrical Characteristics:** Input voltage: 220/240V 50Hz.
  - A line voltage corrector of appropriate rating will form part of standard configuration.  
The servo voltage corrector should be capable to correct input voltage range from 160 – 280 V AC to 220/240 VAC, 50Hz.
8. **Minimum Compressor Starting Voltage:** 22% below nominal voltage.
9. **Internal Temperature Control:**
  - Electronic temperature control, range +2 °C to +6 °C with setting accuracy of ±1°C

  
(Prof.) Dr. Tuphan Kanti Dolai  
DM, MD, DNB, FICP  
Head of the Department  
Department of Haematology  
NRSMC & H, Kolkata-700014



whatever the load.

- Fan air cooling.

10. **External Ambient Temperature:** Performs in an ambient temperature of +10 to +33°C
11. **Hold-Over Time:** A full load of blood packs at +4 °C ( $\pm 1$  °C) takes at least 30 minutes to rise to above +6 °C
12. Internal temperature hold over time in case of power failure should be at least 1.5 hours. if door not opened.
13. **Cooling Down Time:** A full load of blood packs at +25 °C takes a maximum of 1 to 3 hrs for all the packs to reach below +6 °C.

#### 14. Temperature Monitoring:


- Digital temperature (LED) display with 0.5°C or lower gradation.
- Microprocessor based temperature controller with integrated audio visual temperature and power alarm function with digital monitoring display.
- Independent safety thermostat to avoid negative temperatures.
- At least 2 Temperature Sensors: Sensor for temperature monitoring shown on front display. Sensor for managing use of compressor.

#### 15. Temperature recording device

- Visual and audible alarm system indicating unsafe temperatures.
- Battery backup for alarm and temperature recording device.
- Facility for remote alarm.
- Seven days circular chart recorder.
- Seven days graphic temperature recorder with range of -5°C to +20°C (at least) with data logger & program reader, with supply of free circular charts for a period of warranty.
- Ideal compressor running time of 27% at room temperature.
- Door locks should be available.
- Audio and visual alarm for variation in temperature.
- Interior lighting.
- External ambient temperature +10°C to +40°C.
- Auto defrosting.
- Cooling time - Maximum 1 to 3 hours for all the packs to reach below +6°C.

#### 16. Certifications:

- **Product certification:** CE ("Conformite Europeene") Class II A certificate from European Union notified body having 4 digit identification number  
OR  
The product must be enlisted under US FDA and the quoted model must have US FDA certification to market in US
- **Quality Certification:** ISO certified.

  
(Prof.) Dr. Tuphan Kanti Dolal  
DM, MD, DNB, FICP  
Head of the Department  
Department of Haematology  
NRSMC & H, Kolkata-700014



Government of West Bengal  
Office of the Principal  
NRS Medical College, Kolkata

Memo No: NMC/Store/ 1159

Date: 02/03/2020

**Re-Tender Notice**  
**(NIT NO. 98 /2019-20)**

Sealed Tender is invited by the Principal, N. R. S. Medical College, Kolkata – 14 for supply of 1. LED Light Illumination for the Department of Plastic Surgery of this Institution. Tender form and details/specification can be obtained from the Departmental website [www.wbhealth.gov.in](http://www.wbhealth.gov.in) from 04/03/2020. Last date of submission of Tender is 12/03/2020 up to 1 P.M. Tender will be opened on same date at 2.30 P.M in the office of the Principal, N. R. S. Medical College. Details are available in the Department of Health & Family Welfare, Govt. of West Bengal official Website: [www.wbhealth.gov.in](http://www.wbhealth.gov.in) & College website ([www.nrsmc.edu.in](http://www.nrsmc.edu.in))

**Terms and Condition**

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3. The Tendering authority reserves the right to withdraw any item from the Tender at any stage. In such Contingency the selection of such item, if already made in favour of any Tendered shall be treated as cancelled. The Tendering authority also reserves the right to accept / reject / split any.
4. The Tenderer shall be bound for total replacement of the supplied quantity with a fresh supply of equivalent quantity if the item(s) are found to be defective/not as per given specification.
5. Payment will be made only after the delivery of the articles and satisfactory certification by an authority fixed by the administration. No request for advance or part payment will be considered.



6. In case of rejection of any supply on quality grounds or failure or refusal to replace the contracted items within the specified time or according to specifications/quality, the College/Hospital administration will have the authority to recover the losses, if any, by making deductions from any pending claim of the supplier in respect of same tender or any past/future tender.
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11. Earnest money amounting to Rs. 5,000/- (Five thousand) only must be deposited in the form of Demand Draft from any Nationalized Bank in favour of 'Principal, N. R. S. Medical College' payable at Kolkata .
12. The performance bank guarantee will be mandatory for all suppliers and will not be waived in any case. The successful renderers 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.
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**14. Guarantee / Warranty Period:**

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.

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Principal  
NRS Medical College  
Kol-14



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)-----  
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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.

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

For liasing, we have appointed 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

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c. 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.

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Date :-

Signature of applicant including title  
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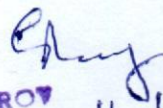
Contact details -

Mobile:

E mail ID:



<b>SPECIFICATIONS OF LED LIGHT ILLUMINATION for Surgical Loupes</b>	
1	Should include illumination system attached to the loupes
2	Powerful LED light source with integrated temperature control
3	Should be able to attach easily to the optical system
4	Light intensity up to 50000 Lux
5	Shock proof protection for the light and accessories
6	Light should be resembling day light and should illuminate the whole field with even illumination.
7	Extremely flexible with outstanding light transmission
8	Should include 2 Medical grade Lithium ion rechargeable battery with charging device
9	Should have a run time of above 3 - 4 hrs. at 100 % intensity.
10	Belt clip for the freedom of movement.
11	All the necessary accessories for the proper functioning of the unit and suitable high quality soft case for storage.
<b>STANDARD ACCESSORIES:</b>	
Objective lens protective device (2), Contact Guard (2), cleaning cloth for optical components, Allen Key, accessories for the LED light illumination, High quality soft case for protection of the surgical loupe and accessories.	
<b>MANUFACTURER AND COMPLIANCE</b>	
1	The Light should be manufactured by a well-known international manufacturer/company
2	Should be both European CE and US FDA approved
3	Should carry at least 1 years of warranty

  
 DR. COLLI ROY  
 M.S. M.Ch.  
 Professor & Head  
 Plastic Surgery Department  
 Government Medical College & Hospital  
 Bangalore



Government of West Bengal  
Office of the Principal  
NRS Medical College, Kolkata

Memo No: NMC/Store/ 1160

Date: 02/03/2020

**Re-Tender Notice**  
**(NIT NO. 99 /2019-20)**

Sealed Tender is invited by the Principal, N. R. S. Medical College, Kolkata – 14 for supply of 1. **Surgical Loupes with High Magnification** for the Department of Plastic Surgery of this Institution. Tender form and details/specification can be obtained from the Departmental website [www.wbhealth.gov.in](http://www.wbhealth.gov.in) from 04 /03/2020. Last date of submission of Tender is 12/03/2020 up to 1 P.M. Tender will be opened on same date at 2.30 P.M in the office of the Principal, N. R. S. Medical College. Details are available in the Department of Health & Family Welfare, Govt. of West Bengal official Website: [www.wbhealth.gov.in](http://www.wbhealth.gov.in) & College website ([www.nrsmc.edu.in](http://www.nrsmc.edu.in))

**Terms and Condition**

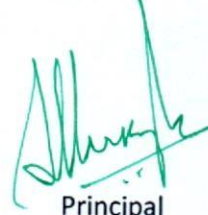
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**ANNEXURE-I**

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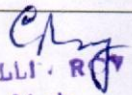
Contact details -

Mobile:

E mail ID:



<b>SPECIFICATIONS OF SURGICAL LOUPES with HIGH Magnification</b>	
	The Surgical System should mainly consist of the optical system, adjustable Medical grade head frame and standard accessories
	<b>OPTICAL SYSTEM:</b>
1	Kepler optical system featuring compact design, delivering precise image with good colour fidelity extending to the peripheral zones, excellent depth of field of view ensuring clear visualization of anatomical structures Loupe must consist of 1 optical system (Kepler), 1 Medical grade head frame with instructions of use with brief instructions; incl. softcase, contact guards, protective caps and sideshields.
2	Magnification: 4X
3	Working Distance (Eye to operating area) of 450mm/ 500mm
4	Field of view diameter at working distance of 450 mm with 4X: 80mm or more
5	Quick adjustment of interpupillary distance from 55mm to 75 mm by means of left and right coaxial knobs to suit individual surgeons.
6	High Quality scratch free lens protection device with anti-reflection coating shielding the objective lens against tissue debris for increased protection
7	High quality surface of the optical system resistant to standard disinfectants
8	Telescopic rail enabling quick positioning of the eye piece with a single adjustment.
9	Quick adjustment of eyepiece tilt to desired viewing angles even in extreme treatment options
10	Flip up function for unobstructed vision and eye contact with patients with single adjustment
11	Mount to a high quality medical grade titanium frame Spectacle or medical grade head mount frame
12	Serializable contact guard for reliable swinging of the optical system up and down.
	<b>MANUFACTURER AND COMPLIANCE</b>
1	The Loupe should be manufactured by a well-known international manufacturer/company
2	Should be both European CE and US FDA approved
3	Should carry at least 1 years of warranty

  
 DR. COLLI R. J. 0. 11. 19  
 M.S. Mch  
 Professor & Head  
 Plastic Surgery Department  
 & Medical College & Hospital



Government of West Bengal  
Office of the Principal  
NRS Medical College, Kolkata

Memo No: NMC/Store/ 1208

Date: 03/03/2020

**Re-Tender Notice**  
**(NIT NO. 100 /2019-20)**

Sealed Tender is invited by the Principal, N. R. S. Medical College, Kolkata – 14 for supply of **1) 60mA high Frequency Mobile Machine** for the Department of Plastic Surgery of this Institution. Tender form and details/specification can be obtained from the Departmental website [www.wbhealth.gov.in](http://www.wbhealth.gov.in) from 04/03/2020. Last date of submission of Tender is 12/03/2020 up to 1 P.M. Tender will be opened on same date at 2.30 P.M in the office of the Principal, N. R. S. Medical College. Details are available in the Department of Health & Family Welfare, Govt. of West Bengal official Website: [www.wbhealth.gov.in](http://www.wbhealth.gov.in) & College website ([www.nrsmc.edu.in](http://www.nrsmc.edu.in))

**Terms and Condition**

1. Only Manufacturers/direct Importers/Authorized Distributors are eligible for quoting.
2. The rate should be quoted in both figure and word strictly as per sample/mentioned specification along with provided accounting unit only. All rates quoted should be inclusive of all liveable charges (including door delivery charges to the concerned department, packing charges, installation charges), and all other foreseeable incidental charges are exclusive of all applicable taxes should be mentioned separately.
3. The Tendering authority reserves the right to withdraw any item from the Tender at any stage. In such Contingency the selection of such item, if already made in favour of any Tendered shall be treated as cancelled. The Tendering authority also reserves the right to accept / reject / split any.
4. The Tenderer shall be bound for total replacement of the supplied quantity with a fresh supply of equivalent quantity if the item(s) are found to be defective/not as per given specification.
5. Payment will be made only after the delivery of the articles and satisfactory certification by an authority fixed by the administration. No request for advance or part payment will be considered.
6. In case of rejection of any supply on quality grounds or failure or refusal to replace the contracted items within the specified time or according to specifications/quality, the College/Hospital administration will have the authority to recover the losses, if any, by making deductions from any pending claim of the supplier in respect of same tender or any past/future tender.



7. The Specification and Brochure is to be submitted along with the Tender.

8. The Tenderers must accompany all the papers/documents along with the Tender.

9. The Tenderers must submit their tender in two bid method. Main envelope should contain Technical bid in Envelop A and Financial bid in Envelop B. all the envelopes must be properly sealed before submission.

10. Price bid of those bidders will only be opened who will qualify in technical scrutiny by tender selection committee.

11. Earnest money amounting to Rs. 5,000/- (Five thousand) only must be deposited in the form of Demand Draft from any Nationalized Bank in favour of 'Principal, N. R. S. Medical College' payable at Kolkata .

12. The performance bank guarantee will be mandatory for all suppliers and will not be waived in any case. The successful renderers 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.

13. 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.

**14. Guarantee / Warranty Period:**

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.

**15. 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.

16. Existing financial norms will be followed for accepting / cancellation of any bid.

17. In case of more than one L 1 bidder, weightage will be given to document number 7 of the following list.



**List of essential documents to be submitted**

1. Application submitted in Annexure- I
2. Copy of GST Registration certificate showing Registration No. (not provisional)
3. Copy of Valid Trade license
4. Copy of PAN Card of the bidder
5. Copies of Income Tax return for the last three years
6. Copies of Profit & Loss A/c and Balance Sheet for the last three years .
7. Credential of the bidder in successful supply to Govt. hospitals



Principal  
NRS Medical College  
Kol-14

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 liasing, we have appointed 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

OR

c. 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:



## Technical Specifications of 60mA High Frequency Mobile Machine

### Mobile X-Ray machine:

- High Frequency generator of 40KHz or more.
- Radiographic KV: 40 to 110 KV or more.
- Rad mA: up to 60 mA or more
- Output power: 3.5 KW or more
- mAs range: 1 to 200mAs or more

### X-Ray tube head:

- Mono-block version X-Ray tube head should be provided. The mono-block consists of Stationary Anode X-Ray tube, H.V. transformer, filament transformer, H.V. rectifiers and capacitors, all immersed in high grade oil with high dielectric strength. Mono-block Tube Head should be protected for thermal overload.
- Manual LBD (light beam diaphragm) with should be provided with provision of Auto Shutoff.

### Control Panel:

Attractive and ergonomically designed control panel with total soft touch switches for various operations. having following functions & indications.

- Machine ON/OFF switch
- Digital display of KV and mAs.
- KV and mAs increase and decrease switches.
- Ready and x-ray on switch with indicators
- Bucky selection switch.
- Stand by and exposure release switch.
- Self diagnostic program with indicators for:-
  - Earth fault error
  - KV error
  - Filament error
  - Tube Head thermal overload.
- X-Ray on indicator.
- Incoming voltage indicator.
- Anatomical programming up to 216 pre-programmed functions in which automatic selection of Technical Factors is done according to the Body part Selection.

A 2-Step hand switch with dual action for exposure release with retractable cord should be provided for taking images from a safer distance.

### Tube Stand:

Mobile stand with 4-wheel design, which ensures easy mobility and steering. The spring balance stand (with fixed Tube Head column) should be very light in weight with tube arm, which is very easy to maneuver and allows smooth movements of tube head in vertical plane. Lead lined cassette storage box. This mobile stand is made to withstand all jerks while in use offering unparalleled reliability. SBM Stand can be easily moved on floor and lock should be provided to lock its movement on floor. The equipment occupies minimum floor area and is capable to be taken through elevators with ease.

### Power supply:

Single Phase 230V, AC and 50 Hz., 15 Amps with line regulation of  $\pm 10\%$ .

*Handwritten signature*  
22/1/20  
PROF. & HEAD OF THE DEPT.  
DEPT. OF RADIO-DIAGNOSIS  
N.R.S.M.C. & H., Kol-14



**OTHER REQUIREMENTS:**

- The company should be ISO and EN-ISO certified.
- Unit should be approved by B.I.S. (Bureau of Indian Standards) for Mechanical & Electrical Safety.
- The unit should be approved by AERB.
- The unit should be European CE Certified from Notified body.
- The company should have a local Service center.
- The company should have proven track record in Govt. sector.

*Sham*  
22/1/20  
PROF. & HEAD OF THE DEPT.  
DEPT. OF RAD: DIAGNOSIS  
N.R.S.M.C. & H., Kol-14