

Peal

शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, नागपूर

GOVERNMENT MEDICAL COLLEGE & HOSPITAL, NAGPUR

Tele. No. Office:-2743588

FAX NO. 0712-274448

No.Hosp/PS/Qt/Enq./

498-503 /2022

Dt. 12.1.2023

Quotation

UPC

To,
M/s.....
.....
.....
.....

Subject :- Submission of Quotation for the Supply of Instrument/Articles/Materials to the Govt. Medical College & Hospital, Nagpur.

The undersigned invited sealed quotations for the items mentioned below/on/reverse or as per enclosed statement for the use of the Govt. Medical College & Hospital, Nagpur on the following terms & conditions.

- 1) The prices quoted should be free delivery to College & Hospital premises for local dealers and F.O.R. Nagpur for outsiders.
- 2) The Price quoted by inclusive of all taxes, duties if payable like customs, excise, CST, ST, and GST. The break-up of the taxes should also be shown separately where necessary. The sales tax & registration number should be quoted in your letter. Exemption of taxes, if on A.F. Forms etc.be separately stated.
- 3) The serial number of the items should not be changed while quoting rates. You may drop the item if not interested.
- 4) Rates should be quoted strictly for the item specified in the list and for standard quality of goods. In case of alternate offer, the detailed specifications, name of manufacturer or make etc must invariably be stated. Specifications other than specified in the schedule may be liable for rejection on even though lowest.
- 5) The quotation submitted will be valid for a period of One (01) year only from the date of acceptance.
- 6) Delivery period should be stated specifically the like ready stock or two weeks or four weeks etc and should be firm and supply of stores if ordered should be made available within the stipulated period. Failures are liable for delist from further enquiries.
- 7) The quotation received after due date will not be accepted. The quotation should be submitted in sealed cover. Unsealed quotations which is not properly sealed will not be accepted. The last or receiving date of the quotation is Dt. 20.1.2023 up to 3.00 p.m.
- 8) Supply of stores should be made in one installment unless otherwise ordered place meal supply will not be accepted. Condition of advance payment through Bank, part payment etc. will not be accepted.
- 9) The price quoted is inclusive of all taxes, duties if payable like Customs/ Excise/CST/ST the break up of the taxes should also be shown separately where necessary. The sales tax and registration number should be quoted in your letter. Exemption of taxes on 'AF' Octroi exemption form etc be separately stated.

(Contd. On ...2..)

...2...

10) Quotations if asked with samples if not accompanied with sample will be liable for rejection even they are lowest. Samples should be sent with labels attached quoting our ref. no of enquiry and item no etc.

11) The Dean, Govt. Medical College & Hospital, Nagpur does not pledge himself to accept the lowest or any quotations and reserves to himself right of acceptance or rejection any of quotations which does not suit to his requirements.

12) Very Important :- In case you are not interested in quoting your rates; in reply to this enquiry a line in reply is must; failing are liable for delisting their names for further enquiries from our list and no further request in this matter will be entertained.

13) Literature, Instruction manual, working leaflet etc may also be sent with quotation.

14) Authorization certificate, Brochure, Catalogue, User List may also submit along with quotation is mandatory.

15) Technical Specifications - Compliance Chart with variation/deviation.

16) Bidder should apply in 2 Bid – TECHNICAL BID & COMMERCIAL BID also write clearly on envelop as TECHNICAL BID and COMMERCIAL BID in BOLD letter. Bid submitted separately in sealed cover with refer to our quotation No. in TOP of Envelop otherwise their quotation not to be accepted.

a) First Bid (Technical Bid) should include Registration/Authorization Certificate. Sale Tax, IT Return Certificate, PAN card, GST no compliance chart as per specification. Brochure of the quotes material as per specification write clearly an envelope as TECHNICAL BID.

b) Second Bid (Commercial Bid) Should include items rate including all taxes only.

17) While submitting the bills of good supplied, supplier must calculate unit price and final unit price should reflect the same rate as per order given by the Institute, GST & other taxes should not be calculated on total prices.

18) After opening the technical BID qualified Bidder will have to give demonstration of equipment as well as show their quoted items to HOD for technical approval as a Technical Committee otherwise Bidder names not to be included in commercial bid.



DEAN


Govt. Medical College & Hospital, Nagpur

Details as below: (As per specification attached)

Sr. No.	Name of the Items	Dept.	Price (Including GST)
1	Radiant Warmer	Pediatric	
2	Phototherapy		

RADIANT WARMER

GENERAL		
1. USE		
1.1	Clinical purpose	Infant Radiant warmer is an electrically powered device with a radiant heating source intended to maintain the thermal balance of an infant by direct radiant energy in the infrared region of the electromagnetic spectrum.
1.2	Used by clinical department/ward	Neonatal ICU/SNCU
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	<ol style="list-style-type: none"> 1. It should be microcontroller based radiant warmer with manual and servo options. 2. It should have facility to display skin set, skin observed temperature in degree C and heat power separately. 3. Should have user friendly touch panel control. 4. It should have ceramic or quartz infrared or calrod heater. 5. It should have audio visual alarm facility for overheating beyond set temperature range. 6. It should have alarm facility for patient temperature less than or greater than the required temperature i.e. above or below the set range. Machine should sense the skin probe failure and cutoff the heater. 7. Warmer head should be rotatable in different direction (at least 90 degree), so as to allow taking X-ray. 8. It should have alarm for probe failure, power failure, system failure and heater failure. 9. Observation light of 90 to 100 foot candles or 1000 Lux (color temperature range 3700K to 5100K) should be provided for inspection. 10. Battery back up for Power failure indication during power fail. 11. The desired temperature range from 25 to 40 degree C and settable temperature can be from 32 to 38 deg C. 12. The resolution should be 0.1 degree C and accuracy should be 0.2°C. 13. Should have a facility to lock the keyboard to avoid unwanted user modification of the set parameters. 14. The height of the warmer should be adjustable for different types of bed.


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- 15. It should have separate bassinet trolley, bed should be tiltable and have provision for x-ray cassette holder, Mattress foam density should be minimum 25kg/cm³, transparent collapsible sidewall easily detachable for cleaning. Mattress size should be minimum 20" X 30".
- 16. Should have a Feather Touch operation with large digital display and comprehensive alarms. Control Panel should be liquid proof and allow easy and hygienic disinfection.
- 17. Manual Mode can adjust Heater Output 10-100%, with 10% increment, an auditory and visual alarm shall be given at least every 15 min.
- 18. In manual mode, heater cutoff/switch off, if the maximum irradiance at any point of the mattress area exceeds a total irradiance level of 10 mW/cm² (between 10 to 30 minutes).
- 19. Bed should be about 80-100 cms from the Floor and 80-90 cms from the heat source.
- 20. Should have lockable castor wheels.
- 21. Green indicator light shall be provided to indicate that warmer is ready for normal use.
- 22. Markings on the bassinet and X-Ray cassette holder is mandatory to enable proper positioning of the baby while doing the X-Ray.
- 23. The size of the drop down sides should be such that it is 5" above the mattress surface and should be at least 6mm thick; clear and transparent. Drop down side panels mounted on fixed threaded frame with removable knobs/ caps, Panel should be Polycarbonate material
- 24. If there is more than 60% heater output for 10 minutes it should cutoff with alarm.
- 25. For the purpose of cable management there should be at least two number of tubing ports (edges covered by silicon rings) on the sidewalls. The height of the sidewall should be minimum 110mm over the mattress.
- 26. X-Ray cassette tray should be at least 750 X 350 mm and should adopt up to 20mm thick X-Ray cassette.
- 27. The baby bed should be crevice free for ease of cleaning, infection control.
- 28. The mattress used should be of biocompatible material.
- 29. Thermistor based skin temperature probe should be small in size not more than 10mm diameter and 3-4mm thick to fix the probe firmly on the infant. Baby contact material should be biocompatible as per ISO 10993 standard requirement. It should be insulated on one side and have well conducting non-rusting, non reacting metallic surface on the other side. Probe wire should be pliable, thin and soft. The attachment site of the probe with the wire should also be pliable and non stiff.

2.2 Settings

- 1. Should have Manual mode and Baby (Servo) mode settings.
- 2. Mode of operations should be clearly displayed.
- 3. In servo mode baby set temperature should be 32 to 38 deg C

2.3	User's interface	Manual and Servo controlled temperature regulation.
2.4	Software and /or standard of communication (where ever required)	LED Display and inbuilt software; Interruption and restoration of the power supply does not change the preset values.
2.5	Others	<ol style="list-style-type: none"> 1. Devices shall not overbalance when placed in any transport position of normal use on a 10° inclined plane from the horizontal plane. 2. Transformers of devices shall be protected against overheating in the event of short circuit or overload of any output winding. 3. Patient leakage currents should be less than 100µA in normal condition. 4. Temperature on the baby mattress should not exceed 43 deg C when the warmer is operating under steady temperature condition.
		<ol style="list-style-type: none"> 5. Temperature of HEATER GUARDS should not exceed 85°C in normal use. 6. The Temperature differences on the mattress shall not exceed 2°C.

3. PHYSICAL CHARACTERISTICS

3.1	Dimensions (metric)	specifications upto: 2000mm (Height) X 900mm (Width) X 1100mm (Length).
3.2	Weight (lbs, kg)	maximum spec: 150kg.
3.3	Configuration	<ol style="list-style-type: none"> 1. At least 60 degree angle adjustment must be possible in the heat source and it should provide shielding to the infant in case of breakage of tubes/bulbs. All surfaces to be made of corrosion resistant material. 2. Bassinet angle turn shall be possible at least 180 deg. (to allow for procedure) 3. Alarm Audio Visual, user settable (volume < 50dB) 4. Facility to mount at least three syringe pump, or (infusion pump) and One Table Top Monitor so as to carry at least 15 kg 5. supplied with Sanitizer Stand (SS Material) to be able to be mounted on side panel to support 500 ml bottle.
3.4	Noise (indBA)	Auditory alarm shall have a sound level of at least 65dB A at a distance of 3m from the front of the infant radiant warmer, and the sound level of the alarm shall not exceed 80dB A on the mattress.
3.5	heat dissipation	Should maintain upto 36.5 deg temp and the heat disbursed through a exhaust fan, so that effect of UV light is not disturbed.
3.6	Mobility, portability	Yes, on castors (2 of the castors should have breaks; castor size can be at least 4 inch).

4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2.....)

4.1	Power Requirements	220 to 240V, 50Hz
4.2	Battery operated	Power failure indication during power fail.
4.3	Tolerance (to variations, shutdowns)	±10% of input
4.4	Protection	OVP, earth leakage protection.
4.5	Power consumption	maximum 800Watt
4.6	Other energy supplies	Solar Heating- desirable; not essential


5. ACCESSORIES, SPARE PARTS, CONSUMABLES

5.1	Accessories (mandatory, standard, optional)	Should have standard IV pole (sturdy; non rusting; medical grade stainless steel; adjustable to a max height of 6 feet from the ground level), monitor tray (12 X 10 inches; 270 deg swivel; fixed at level of warmer
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		display) and storage trays.
5.2	Spare parts (main ones)	1. Skin temperature probes, 2. Additional 3 temp probes with each machine
5.3	Consumables / reagents (open, closed system)	Thermal reflex tortoise skin probe on baby.
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust...)	Operating condition: - Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances. - an ambient air velocity is less than 0.3 m/s.
6.2	User's care, Cleaning, Disinfection & Sterility issues	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
7. STANDARDS AND SAFETY		
7.1	Performance and safety standards (specific to the device type); Certificates (pre-market, sanitary, ...); Local and/or international	Should be FDA / (CE of class IIb) approved product. Shall meet IEC-60601-1-2:2007 Medical electrical equipment -- Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests (Or Equivalent BIS). Shall meet IEC 60601-2-21: 2009 Medical Electrical Equipment - Part 2-21: Particular Requirement for the basic safety and essential performance of infant radiant warmers. should meet IEC 60601-1:2005 standard requirements. Baby contact material should be biocompatible as per ISO 10993 standard requirement. Manufacturers should be ISO 13485 certified.
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	Availability of 5amp/15Amp. Electrical socket (2 nos) for each warmer.
8.2	Requirements for sign-off	Certificate of Calibration and inspection from the factory.
8.3	Training of staff (medical, paramedical, technicians)	user training manual required
8.4	Others	List of important spare parts and accessories with their part number and costing.
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	nickel chrome wire filament and tube of quartz should have a life time warranty; equipment - 5 years.
9.2	Maintenance tasks	maintenance manual detailing complete maintenance schedule
9.3	Service contract clauses, including prices	warranty of one year with free servicing (min. 3) during warranty
9.4	Others	The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached.
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	to be supplied

10.2	Other accompanying documents	User/Technical/Maintenance manual to be supplied in English
11. NOTES		
11.1	Service Support Contact details (Hierarchy Wise; including toll free/landline number)	should provide complete contact details of sales and service departments.
11.2	Recommendations or warnings	Any warning/precautions to be declared



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PHOTOTHERAPY


GENERAL		
1. USE		
1.1	Clinical purpose	Emits in the main radiation spectrum in the range between 400nm and 550nm for reducing the concentration of Bilirubin
1.2	Used by clinical department/ward	New born stabilisation unit, SNCU
1.3	Over view of functional requirements	<ul style="list-style-type: none"> a) Provides filtered light using gradient electric lights, not fibre optics. b) Infants supported securely in bassinet below bulbs. c) Monitor hours of radiant light exposure.
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specify to this type of device)	<ol style="list-style-type: none"> 1. Phototherapy should be based on LED technology, which after filtering should provide, a light of wavelength approximately 450 to 470nm with peak wavelength of 450-460nm range. 2. Irradiance to be minimum $35 \mu\text{W}/\text{cm}^2/\text{nm}$ at 40cm height and UV should not exceed $10-4 \text{ W}/\text{m}^2$ in 180nm to 400nm. 3. Digital Hour meters showing total exposure time for current patient to be clearly visible by operator. 4. Effective light field $> 700 \text{ cm}^2$. 5. Lamp life should be minimum 20000 hours for LED and should have a timer to indicate its usage. 6. Over temperature safety cut out to be included. 7. Up, down and tilting of head should be possible. 8. The unit should be mounted with castor wheels with brakes. 9. Variation in intensity over 5-6 hours $< 10\%$. 10. The irradiance ratio (min to max) shall be greater than 40% on mattress. 11. Green indicator light shall be provided to indicate that equipment is ready for normal use. 12. Interruption and restoration of the power supply do not change preset values. LED heat can be reduced by natural cooling. 13. LED should be protected from free fall. 14. It should not topple on 10 degree inclined angle. 15. The temperature of baby bed and metal surfaces should not exceed 40°C and 43°C for other accessible surfaces. 16. There should be intuitive method to indicate the light surface is at the appropriate treatment distance. 17. Mobile stand with movable castors and height adjustment facility along with easy swivelling of source box. Unit can be used along with Infant care trolley, Radiant Warmer and Incubator.
2.2	Settings	UP/DOWN adjustment of Over Head Unit; The phototherapy unit should be able to provide effective treatment for beds and incubators of varying heights (generally 1.0 to 1.6m). Adjustment of light intensity may be provided.

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tor & Head

2.3	User's interface	Manual
2.4	Software and/or standard of communication (where ever required)	LED Display and in built software
2.5	Others	
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	minimum spec: 1650mm Height X 750mm Width X 500mm Length
3.2	Weight (lbs, kg)	<20kg
3.3	Configuration	Clear cabinet for observation of infant. Infant bassinette to be an integral unit which should be detachable. Unit to provide shielding of infant in the event of bulb breakage. Bulb incur to have angle adjustment of at least 30 degrees. All surfaces to be made of corrosion resistant materials. Light unit tilting facility and height adjustment facility.
3.4	Noise (indBA)	<60dBA
3.5	heat dissipation	The temperature of baby bed and metal surfaces should not exceed 40 deg C and 43 deg C for other accessible surfaces.
3.6	Mobility, portability	Minimum 3 castors and at least 2 with brakes
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2.....)		
4.1	Power Requirements	220 to 240V, 50Hz
4.2	Battery operated	NA
4.3	Tolerance (to variations, shutdowns)	±10% of input AC
4.4	Protection	Electrical protection by resettable overcurrent breakers or replaceable fuses, fitted in both live and neutral lines.
4.5	Power consumption	Should not be more than 160W
4.6	Other energy supplies	Main cable to be at least 2.5m length
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories (mandatory, standard, optional)	Complete set of replacement tubes to allow 3 months' continuous operation Two replacement sets of fuses, if replaceable type used.
5.2	Spare parts (main ones)	No spares required
5.3	Consumables / reagents (open, closed system)	Total 500 nos. Infant eye masks of both available sizes (term and preterm babies).
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust...)	Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances.
6.2	User's care, Cleaning, Disinfection & Sterility issues	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
7. STANDARDS AND SAFETY		


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7.1	Certificates(pre-market,sanitary,..);Performanceand safety standards (specific tothedevice type);Localand/orinternational	ShouldbeFDA/CEapprovedproduct Shall meet IEC-60601-1-2:2007 Medical electrical equipment -- Part 1-2:Generalrequirementsforbasicsafetyandessentialperformance- Collateralstandard: Electromagnetic compatibility - Requirements and tests (OrEquivalentBIS) ShouldmeetIEC60601-1:2005standardrequirements ShallmeetIEC60601-2-50:2009MedicalElectricalEquipment-Part2-50:ParticularRequirementforthebasicsafetyandessentialperformanceofinfantphototherapyequipment; ManufacturersshouldbeISO13485certified
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements:nature, values, quality,tolerance	Suppliertoperforminstallation,safetyandoperationchecksbeforehandover.
8.2	Requirementsforsign-off	CertificateofCalibrationandinspectionfromthefactory.
8.3	Training of staff (medical,paramedical,technicians)	Trainingofusersinoperationandbasicmaintenanceshallbeprovided
8.4	Others	
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	5 yearsforthemachineand20,000hoursforLEDs
9.2	Maintenancetasks	Maintainancemanualdetailingcompletemaintainingschedule
9.3	Service contract clauses,includingprices	Localclinicalstafftoaffirmcompletionofinstallation
9.4	Others	
10. DOCUMENTATION		
10.1	Operating manuals, servicemanuals,othermanuals	Advancedmaintenancetasksrequiredshallbedocumented User,technicalandmaintenancemanualstobesuppliedinenglishlanguage. Listtobeprovidedofequipmentandproceduresrequiredforlocalcalibrationandroutinemaintenance
10.2	Otheraccompanyingdocuments	List to be provided of important spares and accessories, with their partnumbersandcost.Certificateofcalibrationandinspectiontobeprovided.
11. NOTES		
11.1	Service Support Contactdetails (Hierchy Wise;including a toll free/landlinenumber)	Contactdetailsofmanufacturer,supplierandlocalserviceagenttobeprovided
11.2	Recommendationsorwarnings	List to be provided of important spares and accessories, with their partnumbersandcost.Certificateofcalibrationandinspectiontobeprovided.


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